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Laboratory Code: 11148

SDG Number: L2453342

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Toxaphene L4 (100ug/L) Injected on: 08/01/24 22:36 2987
Toxaphene L7 (1000ug/L) Injected on: 08/01/24 22:47 2993
Toxaphene L8 (2000ug/L) Injected on: 08/01/24 22:59 2998
Toxaphene L9 (5000ug/L) Injected on: 08/01/24 23:11 3004
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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2453342
Report Date: 10/11/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2453342-01	MP-1	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 10:51	09/17/24
L2453342-02	MP-1D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 11:30	09/17/24
L2453342-03	MW-13D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 08:25	09/17/24
L2453342-04	MW-13S	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 08:23	09/17/24
L2453342-05	MW-10D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 09:25	09/17/24
L2453342-06	MW-10S	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 09:21	09/17/24
L2453342-07	MW-6D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 13:00	09/17/24
L2453342-08	PZ-6	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 12:55	09/17/24
L2453342-09	DUP_091724	WATER	416 MILLER PLACE-YAPHANK ROAD	09/17/24 12:00	09/17/24
L2453342-10	EQUIPMENT BLANK	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	09/17/24 00:00	09/17/24
L2453342-11	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	09/17/24 00:00	09/17/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

October 11, 2024: This final report includes the results of all requested analyses.

September 30, 2024: This is a preliminary report.

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

The analyses of Iodide, Ammonium, Uranium, RA226, RA228, Thorium, and Sulfide were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Pesticides

The surrogate recoveries for the WG1974839-1 Method Blank, associated with L2453342-01 through -08 and -10, are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (12%/11%) and decachlorobiphenyl (12%/12%). The associated samples are non-detect and have acceptable surrogate recoveries; therefore, no further actions were taken.

Anions by Ion Chromatography

The WG1974208-3/-4 MS/MSD recoveries, performed on L2453342-06, are outside the acceptance criteria for bromide (88%/88%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature: Tiffani Morrissey Report Date: 10/11/24

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2453342

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

Received : 17-SEP-2024
Reviewer : Katelyn Wolotschaj

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.8	
B	Absent/	Ice	4.7	
C	Absent/	Ice	4.3	
D	Absent/	Ice	2.7	
E	Absent/	Ice	3.3	
F	Absent/	Ice	4.7	

Condition Information

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

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected
L2453342-01	MP-1	S0	1	17SEP24 10:51

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built 778692205571 $46.54 USD Galbraith, TN 778693319040 $37.91 USD Pace, IN SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg ASP-B Package Due Date: 10/10/24

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

Sample #	Client ID	Mat	PR	Collected
L2453342-02	MP-1D	S0	1	17SEP24 11:30

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected

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

L2453342-03	MW-13D		1 S0	17SEP24 08:25

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

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected
L2453342-04	MW-13S	S0	1	17SEP24 08:23

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

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

Sample #	Client ID	Mat	PR	Collected
L2453342-05	MW-10D	S0	1	17SEP24 09:25

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected

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

L2453342-06	MW-10S		1 S0	17SEP24 09:21

L2453342-06 MS Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built L2453342-06 MSD SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Package Due Date: 10/10/24

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected
L2453342-07	MW-6D		1	S0 17SEP24 13:00

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

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

L2453342-08	PZ-6		1	S0 17SEP24 12:55

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected

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

L2453342-09 DUP_091724 1 S0 17SEP24 12:00

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

A2-14-DIOXANESIM-PPB,SUB-RA226,SUB-RA228,SUB-THORIUM,SUB-URANIUM

L2453342-10 EQUIPMENT BLANK 1 S0 17SEP24 00:00

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2024, 04:30 pm

Login Number: L2453342

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17SEP24 Due Date: 10OCT24

Sample #	Client ID	Mat	PR	Collected

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

L2453342-11	TRIP BLANK	1	S0	17SEP24 00:00

NYTCL-8260: Report list built including Non-Routine; ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg
Package Due Date: 10/10/24

NYTCL-8260

Logged By: Jennifer Byrnes

L2453342 24SEP24
ROUX – NY

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 4

Date Rec'd in Lab: 9/18/24

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

NYTCL-8260 | NYTCL-8270/SIM-RVT | TAL600/TAL-2007S | 8081/8151/8082 | NO3/NO2-4500-PPB | TOTALNITROGEN | CI-4500/BR-300 | SO4-4500/TPO4-4500

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

Sample Specific Comments

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	8081/8151/8082	NO3/NO2-4500-PPB	TOTALNITROGEN	CI-4500/BR-300	SO4-4500/TPO4-4500	Sample Specific Comments	Total Bottle
53342-01	MP-1	9/17	1051	AQ	AI	X	X	X	X	X	X	X	X		10
-02	MP-1D	9/17	1130	AQ	PP	X	X	X	X	X	X	X	X		10
-03	MW-13D	9/17	825	AQ	PP	X	X	X	X	X	X	X	X		10
-04	MW-13S	9/17	823	AQ	AI	X	X	X	X	X	X	X	X		10
-06	MW-10S	9/17	9:21	AQ	AI	X	X	X	X	X	X	X	X	MS MSD	30
-05	MW-10D	9/17	9:25	AQ	PP	X	X	X	X	X	X	X	X		10
-07	MW-6D	9/17	1300	AQ	PP	X	X	X	X	X	X	X	X		10
-08	P2-6	9/17	1255	AQ	AI	X	X	X	X	X	X	X	X		10
-09	DUP_091724	9/17	1200	AQ	AI	X	X	X (AI)							5
-10	Equipment blank	9/17	LAB	AQ	AI (AI)	X	X	X	X	X	X	X	X		25

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

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

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 1515		9/17/24 15:17
	9/17/24 2020	Anthony Green	SEP 17 2024 2351
Anthony Green	9/18/24 0100		9/18/24 0100
	9/18/24 0255		09/18/24-0255

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 2 of 14

Date Rec'd in Lab: 9/18/24

ALPHA Job #: L2453342

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Alk-CO3-2320	Alk-HCO3-2320	F-4500	TDS-2540		Sub-Iodide	Sub-sulfide	Sub-Ammonium	Sample Specific Comments	Total Bottles
53342-01	MP-1	9/17	1051	AQ	AI	X	X	X	X		X	X	X		20
-02	MP-1D	9/17	1130	AQ	PP	X	X	X	X		X	X	X		20
-03	MW-13D	9/17	835	AQ	PP	X	X	X	X		X	X	X		20
-04	MW-13S	9/17	823	AQ	AI	X	X	X	X		X	X	X		20
-05	MW-10D	9/17	925	AQ	PP	X	X	X	X		X	X	X		20
-06	MW-10S	9/17	921	AQ	AI	X	X	X	X		X	X	X	MSMSD	36
-07	MW-6D	9/17	1300	AQ	PP	X	X	X	X		X	X	X		26
-08	P7-6	9/17	1755	AQ	AI	X	X	X	X		X	X	X		26
-09	DUP_091724	9/17	1200	AQ	AI	X	X	X	X		X	X	X		6
-10	Equipment Blank	9/17	1400	AQ	AI/AT	X	X	X	X		X	X	X		26

Container Type
Preservative

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 15:15		
	9/17/24 18:40	ASE FACE LS	9/17/24 18:40
	9/17/24 2020	Anthony Green	SEP 17 2024 2237
Anthony Green	9/18/24 0100		9/18/24 0100

9/18/24 0255

09/18/24-0255

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

T. 5.9

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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

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

Page 3 of 4

Date Rec'd in Lab: 9/18/24

ALPHA Job #: L2453342

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	A2-14-DIOXANESIM-PPB	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226				Sample Specific Comments	Total Bottles
53342 -01	MP-1	9/17	1051	AQ	AI										20
-02	MP-1D	9/17	1130	AQ	PP										20
-03	MW-13D	9/17	825	AQ	PP										20
-04	MW-13S	9/17	823	AQ	AI										20
-05	MW-10D	9/17	935	AQ	PP										20
-06	MW-10S	9/17	921	AQ	AI	X	X	X	X	X				MS/MSD	36
-07	MW-6D	9/17	1300	AQ	PP										20
-08	PZ-6	9/17	1255	AQ	AI	X	X	X	X	X					26
-09	DUP-091724	9/17	1200	AQ	AI	X	X	X	X	X					26
-10	Equipment blank	9/17	1400	AQ	AI	X	X	X	X	X					26

Container Type
Preservative

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 1515		9/17/24 15:15
	9/17 2112	Anthony Green	SEP 17 2024 2210
Anthony Green	9/18/24 0100		9/18/24 0100
	9/18/24 0255		

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

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

09/18/24-0255

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page # 4 of # 4

Date Rec'd in Lab: 9118124

ALPHA Job #: L2453342

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	8081/8151/8082	NO3/NO2-4500-PPB	TOTALNITROGEN	CI-4500/BR-300	SO4-4500/TPO4-4500	Total Bottle
53342 -11	TRIP BLANK	9/17	LAB	AQ	B	X								2

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

Sample Specific Comments

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

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

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

Container Type								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 1514		9/17/24 15:16
	9/17/24 2000	Anthony Green	SEP 17 2024 2007
Anthony Green	9/18/24 0100		9/18/24 0100
	9/18/24 0255		

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

09118124-0255

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MP-1 (L2453342-01)	103	104	111	101	0
MP-1D (L2453342-02)	108	107	111	103	0
MW-13D (L2453342-03)	108	101	108	102	0
MW-13S (L2453342-04)	109	103	108	105	0
MW-10D (L2453342-05)	110	103	110	105	0
MW-10S (L2453342-06)	112	102	107	105	0
MW-6D (L2453342-07)	115	103	106	107	0
PZ-6 (L2453342-08)	115	104	114	108	0
EQUIPMENT BLANK (L2453342-10)	103	103	112	99	0
TRIP BLANK (L2453342-11)	94	102	102	99	0
WG1975156-3LCS	93	103	100	101	0
WG1975156-4LCSD	90	102	99	101	0
WG1975156-5BLANK	93	102	100	98	0
WG1975613-3LCS	102	103	106	96	0
WG1975613-4LCSD	102	105	108	98	0
WG1975613-5BLANK	104	100	107	98	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975156-3 Analysis Date : 09/22/24 16:26	**File ID**	: V01240922A01
LCSD Sample ID	: WG1975156-4 Analysis Date : 09/22/24 16:52	**File ID**	: V01240922A02

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.6	96		10	9.2	92		4	70-130	20
1,1-Dichloroethane	10	11	110		10	10	100		10	70-130	20
Chloroform	10	9.3	93		10	9.1	91		2	70-130	20
Carbon tetrachloride	10	9.4	94		10	9.0	90		4	63-132	20
1,2-Dichloropropane	10	10	100		10	10	100		0	70-130	20
Dibromochloromethane	10	9.4	94		10	9.0	90		4	63-130	20
1,1,2-Trichloroethane	10	9.4	94		10	8.9	89		5	70-130	20
Tetrachloroethene	10	11	110		10	10	100		10	70-130	20
Chlorobenzene	10	9.6	96		10	9.1	91		5	75-130	20
Trichlorofluoromethane	10	5.6	56	Q	10	5.3	53	Q	6	62-150	20
1,2-Dichloroethane	10	9.7	97		10	9.3	93		4	70-130	20
1,1,1-Trichloroethane	10	9.3	93		10	8.9	89		4	67-130	20
Bromodichloromethane	10	9.1	91		10	8.8	88		3	67-130	20
trans-1,3-Dichloropropene	10	9.5	95		10	9.2	92		3	70-130	20
cis-1,3-Dichloropropene	10	9.4	94		10	9.0	90		4	70-130	20
Bromoform	10	8.4	84		10	8.0	80		5	54-136	20
1,1,2,2-Tetrachloroethane	10	8.9	89		10	8.5	85		5	67-130	20
Benzene	10	9.6	96		10	9.2	92		4	70-130	20
Toluene	10	9.5	95		10	9.2	92		3	70-130	20
Ethylbenzene	10	9.3	93		10	9.0	90		3	70-130	20
Chloromethane	10	10	100		10	10	100		0	64-130	20
Bromomethane	10	4.4	44		10	4.5	45		2	39-139	20
Vinyl chloride	10	8.9	89		10	8.7	87		2	55-140	20
Chloroethane	10	7.1	71		10	6.7	67		6	55-138	20
1,1-Dichloroethene	10	10	100		10	10	100		0	61-145	20
trans-1,2-Dichloroethene	10	10	100		10	9.7	97		3	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975156-3 **Analysis Date** : 09/22/24 16:26	**File ID**	: V01240922A01
LCSD Sample ID	: WG1975156-4 **Analysis Date** : 09/22/24 16:52	**File ID**	: V01240922A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.3	93	10	9.1	91	2	70-130	20
1,2-Dichlorobenzene	10	9.3	93	10	9.0	90	3	70-130	20
1,3-Dichlorobenzene	10	9.3	93	10	9.1	91	2	70-130	20
1,4-Dichlorobenzene	10	9.0	90	10	8.9	89	1	70-130	20
Methyl tert butyl ether	10	9.0	90	10	8.6	86	5	63-130	20
p/m-Xylene	20	18	90	20	17	85	6	70-130	20
o-Xylene	20	17	85	20	17	85	0	70-130	20
cis-1,2-Dichloroethene	10	9.8	98	10	9.4	94	4	70-130	20
Styrene	20	18	90	20	17	85	6	70-130	20
Dichlorodifluoromethane	10	12	120	10	12	120	0	36-147	20
Acetone	10	9.8	98	10	8.3	83	17	58-148	20
Carbon disulfide	10	9.9	99	10	9.4	94	5	51-130	20
2-Butanone	10	8.5	85	10	8.3	83	2	63-138	20
4-Methyl-2-pentanone	10	9.6	96	10	8.8	88	9	59-130	20
2-Hexanone	10	8.7	87	10	8.3	83	5	57-130	20
Bromochloromethane	10	9.7	97	10	9.3	93	4	70-130	20
1,2-Dibromoethane	10	10	100	10	9.5	95	5	70-130	20
1,2-Dibromo-3-chloropropane	10	8.5	85	10	8.3	83	2	41-144	20
Isopropylbenzene	10	9.0	90	10	8.7	87	3	70-130	20
1,2,3-Trichlorobenzene	10	9.9	99	10	10	100	1	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl Acetate	10	8.9	89	10	8.5	85	5	70-130	20
Cyclohexane	10	11	110	10	11	110	0	70-130	20
Freon-113	10	10	100	10	9.9	99	1	70-130	20
Methyl cyclohexane	10	9.4	94	10	9.0	90	4	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2453342
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1975613-3 **Analysis Date** : 09/24/24 07:13 **File ID** : V08240924A02
LCSD Sample ID : WG1975613-4 **Analysis Date** : 09/24/24 07:36 **File ID** : V08240924A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	11	110	10	11	110	0	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	10	9.4	94	10	9.6	96	2	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	10	11	110	10	10	100	10	75-130	20
Trichlorofluoromethane	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	10	11	110	10	10	100	10	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
Bromoform	10	8.4	84	10	9.0	90	7	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	10	100	10	10	100	0	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	11	110	10	11	110	0	64-130	20
Bromomethane	10	7.6	76	10	7.5	75	1	39-139	20
Vinyl chloride	10	12	120	10	12	120	0	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2453342
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1975613-3 **Analysis Date** : 09/24/24 07:13 **File ID** : V08240924A02
LCSD Sample ID : WG1975613-4 **Analysis Date** : 09/24/24 07:36 **File ID** : V08240924A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	10	100	10	10	100	0	70-130	20
1,2-Dichlorobenzene	10	9.9	99	10	10	100	1	70-130	20
1,3-Dichlorobenzene	10	10	100	10	11	110	10	70-130	20
1,4-Dichlorobenzene	10	10	100	10	11	110	10	70-130	20
Methyl tert butyl ether	10	9.8	98	10	9.9	99	1	63-130	20
p/m-Xylene	20	22	110	20	21	105	5	70-130	20
o-Xylene	20	21	105	20	21	105	0	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20
Styrene	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	10	13	130	10	13	130	0	36-147	20
Acetone	10	10	100	10	10	100	0	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	11	110	10	11	110	0	63-138	20
4-Methyl-2-pentanone	10	9.4	94	10	9.9	99	5	59-130	20
2-Hexanone	10	9.3	93	10	9.8	98	5	57-130	20
Bromochloromethane	10	9.5	95	10	9.3	93	2	70-130	20
1,2-Dibromoethane	10	10	100	10	10	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.6	86	10	9.5	95	10	41-144	20
Isopropylbenzene	10	11	110	10	12	120	9	70-130	20
1,2,3-Trichlorobenzene	10	9.8	98	10	10	100	2	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl Acetate	10	10	100	10	10	100	0	70-130	20
Cyclohexane	10	17	170 Q	10	16	160 Q	6	70-130	20
Freon-113	10	11	110	10	11	110	0	70-130	20
Methyl cyclohexane	10	17	170 Q	10	16	160 Q	6	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975156-5	**Lab File ID**	: V01240922A05
Instrument ID	: VOA101		
Matrix	: WATER	**Analysis Date**	: 09/22/24 18:10

Client Sample No.	Lab Sample ID	Analysis Date
WG1975156-3LCS	WG1975156-3	09/22/24 16:26
WG1975156-4LCSD	WG1975156-4	09/22/24 16:52
TRIP BLANK	L2453342-11	09/22/24 19:02

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975613-5	**Lab File ID**	: V08240924A05
Instrument ID	: VOA108		
Matrix	: WATER	**Analysis Date**	: 09/24/24 08:20

Client Sample No.	Lab Sample ID	Analysis Date
WG1975613-3LCS	WG1975613-3	09/24/24 07:13
WG1975613-4LCSD	WG1975613-4	09/24/24 07:36
EQUIPMENT BLANK	L2453342-10	09/24/24 09:05
MP-1	L2453342-01	09/24/24 09:28
MP-1D	L2453342-02	09/24/24 09:50
MW-13D	L2453342-03	09/24/24 10:12
MW-13S	L2453342-04	09/24/24 10:35
MW-10D	L2453342-05	09/24/24 10:57
MW-10S	L2453342-06	09/24/24 11:20
PZ-6	L2453342-08	09/24/24 11:42
MW-6D	L2453342-07	09/24/24 12:05

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 08/29/24 16:20
Tune Standard	: WG1966886-1	**Tune File ID**	: V08240829NBF3_tune

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

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

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

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 09/24/24 06:37
Tune Standard	: WG1975613-1	**Tune File ID**	: V08240924ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	49.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1 (1.1)1
174	Greater than 50.0% of mass 95	95.3
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	Greater than 95.0% but less than 101% of mass	92.2 (96.8)1
177	5.0 - 9.0% of mass 176	5.6 (6.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975613-2CCAL	WG1975613-2	V08240924A02	09/24/24 07:13
WG1975613-3LCS	WG1975613-3	V08240924A02	09/24/24 07:13
WG1975613-4LCSD	WG1975613-4	V08240924A03	09/24/24 07:36
WG1975613-5BLANK	WG1975613-5	V08240924A05	09/24/24 08:20
EQUIPMENT BLANK	L2453342-10	V08240924A07	09/24/24 09:05
MP-1	L2453342-01	V08240924A08	09/24/24 09:28
MP-1D	L2453342-02	V08240924A09	09/24/24 09:50
MW-13D	L2453342-03	V08240924A10	09/24/24 10:12
MW-13S	L2453342-04	V08240924A11	09/24/24 10:35
MW-10D	L2453342-05	V08240924A12	09/24/24 10:57
MW-10S	L2453342-06	V08240924A13	09/24/24 11:20
PZ-6	L2453342-08	V08240924A14	09/24/24 11:42
MW-6D	L2453342-07	V08240924A15	09/24/24 12:05

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 09/11/24 22:32
Tune Standard	: WG1970861-1	**Tune File ID**	: V01240911NBF4_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20
75	30.0 - 80.0% of mass 95	51
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	83.2
175	5.0 - 9.0% of mass 174	6.5 (7.8)1
176	Greater than 95.0% but less than 101% of mass	79.5 (95.6)1
177	5.0 - 9.0% of mass 176	5.4 (6.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1875115-1	V01240911N03	09/11/24 23:43
STD0.5PPB	R1875115-2	V01240911N06	09/12/24 01:01
STD2PPB	R1875115-3	V01240911N07	09/12/24 01:27
STD10PPB	R1875115-5	V01240911N08	09/12/24 01:53
STD30PPB	R1875115-4	V01240911N09	09/12/24 02:19
STD80PPB	R1875115-6	V01240911N10	09/12/24 02:45
STD120PPB	R1875115-7	V01240911N11	09/12/24 03:11
STD200PPB	R1875115-8	V01240911N12	09/12/24 03:37
Correlation Data Summary	R1875115-9	V01240911N17	09/12/24 05:47
ICV Quant Report	R1875115-9	V01240911N17	09/12/24 05:47

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 09/22/24 16:14
Tune Standard	: WG1975156-1	**Tune File ID**	: V01240922ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 80.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	83
175	5.0 - 9.0% of mass 174	5.8 (6.9)1
176	Greater than 95.0% but less than 101% of mass	80.6 (97.1)1
177	5.0 - 9.0% of mass 176	5.1 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975156-2CCAL	WG1975156-2	V01240922A01	09/22/24 16:26
WG1975156-3LCS	WG1975156-3	V01240922A01	09/22/24 16:26
WG1975156-4LCSD	WG1975156-4	V01240922A02	09/22/24 16:52
WG1975156-5BLANK	WG1975156-5	V01240922A05	09/22/24 18:10
TRIP BLANK	L2453342-11	V01240922A07	09/22/24 19:02

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 09/22/24 16:26:00
Sample No	: WG1975156-2	**Lab File ID**	: V01240922A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1975156-2	434730	5.94	346077	9.46	189151	12.18
Upper Limit	869460	6.44	692154	9.96	378302	12.68
Lower Limit	217365	5.44	173039	8.96	94576	11.68
Sample ID						
WG1975156-3 LCS	434730	5.94	346077	9.46	189151	12.18
WG1975156-4 LCSD	444547	5.94	353449	9.45	193669	12.18
WG1975156-5 BLANK	415717	5.94	322003	9.46	167318	12.18
TRIP BLANK	409579	5.94	323018	9.46	163892	12.18

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 09/24/24 07:13:00
Sample No	: WG1975613-2	**Lab File ID**	: V08240924A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1975613-2	199865	6.03	156281	9.54	91792	12.24
Upper Limit	399730	6.53	312562	10.04	183584	12.74
Lower Limit	99933	5.53	78141	9.04	45896	11.74
Sample ID						
WG1975613-3 LCS	199865	6.03	156281	9.54	91792	12.24
WG1975613-4 LCSD	201964	6.03	157877	9.55	88318	12.24
WG1975613-5 BLANK	190990	6.03	150804	9.55	82194	12.24
EQUIPMENT BLANK	176925	6.03	131038	9.55	64750	12.24
MP-1	168940	6.03	126485	9.55	61287	12.24
MP-1D	162763	6.03	117465	9.55	56414	12.24
MW-13D	162499	6.03	123991	9.55	62373	12.25
MW-13S	157508	6.03	117780	9.55	57734	12.24
MW-10D	150619	6.03	111856	9.55	53589	12.24
MW-10S	147779	6.03	111535	9.55	54497	12.24
PZ-6	145071	6.03	108967	9.55	48949	12.24
MW-6D	148160	6.03	112371	9.55	55971	12.24

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

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

* Values outside of QC limits

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

Volatile Organics - EPA 8260D (WATER)

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

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

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Volatile Organics - EPA 8260D (WATER)

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

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

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

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

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

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

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

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

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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A11	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A11	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A11	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A12	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A12	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 10:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A12	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A13	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A13	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A13	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V08240924A15	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V08240924A15	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V08240924A15	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A14	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A14	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A14	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:05
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:05
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:05
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-11	**Date Collected**	: 09/17/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 19:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V01240922A07	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-11	**Date Collected**	: 09/17/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 19:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V01240922A07	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-11	**Date Collected**	: 09/17/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 19:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V01240922A07	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975156-5	**Date Collected**	: NA
Client ID	: WG1975156-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/22/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01240922A05	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975156-5	**Date Collected**	: NA
Client ID	: WG1975156-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/22/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01240922A05	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975156-5	**Date Collected**	: NA
Client ID	: WG1975156-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/22/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01240922A05	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975613-5	**Date Collected**	: NA
Client ID	: WG1975613-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 08:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975613-5	**Date Collected**	: NA
Client ID	: WG1975613-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 08:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975613-5	**Date Collected**	: NA
Client ID	: WG1975613-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 08:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240924A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A07.D
Acq On : 22 Sep 2024 7:02 pm
Operator : VOA101:MKS
Sample : L2453342-11,31,10,10,,A
Misc : WG1975156,ICAL21487
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 12:21:07 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	409579	10.000	ug/L	0.00
Standard Area 1 = 434730			Recovery = 94.21%			
59) Chlorobenzene-d5	9.460	117	323018	10.000	ug/L	0.00
Standard Area 1 = 346077			Recovery = 93.34%			
79) 1,4-Dichlorobenzene-d4	12.179	152	163892	10.000	ug/L	0.00
Standard Area 1 = 189151			Recovery = 86.65%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.140	113	106741	9.936	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.36%			
43) 1,2-Dichloroethane-d4	5.659	65	115951	9.394	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.94%			
60) Toluene-d8	7.619	98	394542	10.185	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.85%			
83) 4-Bromofluorobenzene	10.963	95	141958	10.213	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.827	50	196	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.193	94	932	0.085	ug/L	83
6) Chloroethane	2.316	64	108	Below Cal		85
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.957	76	1382	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.459	84	75	N.D.		
17) Acetone	3.523	43	734	Below Cal		98
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.601	43	31	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A07.D
Acq On : 22 Sep 2024 7:02 pm
Operator : VOA101:MKS
Sample : L2453342-11,31,10,10,,A
Misc : WG1975156,ICAL21487
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 12:21:07 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.548	78	51		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.027	95	152		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.678	92	26		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.482	91	106		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.654	105	26		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.118	146	41		N.D.	
101) 1,4-Dichlorobenzene	12.193	146	399		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.067	180	64		N.D.	
111) 1,2,3-Trichlorobenzene	14.499	180	37		N.D.	

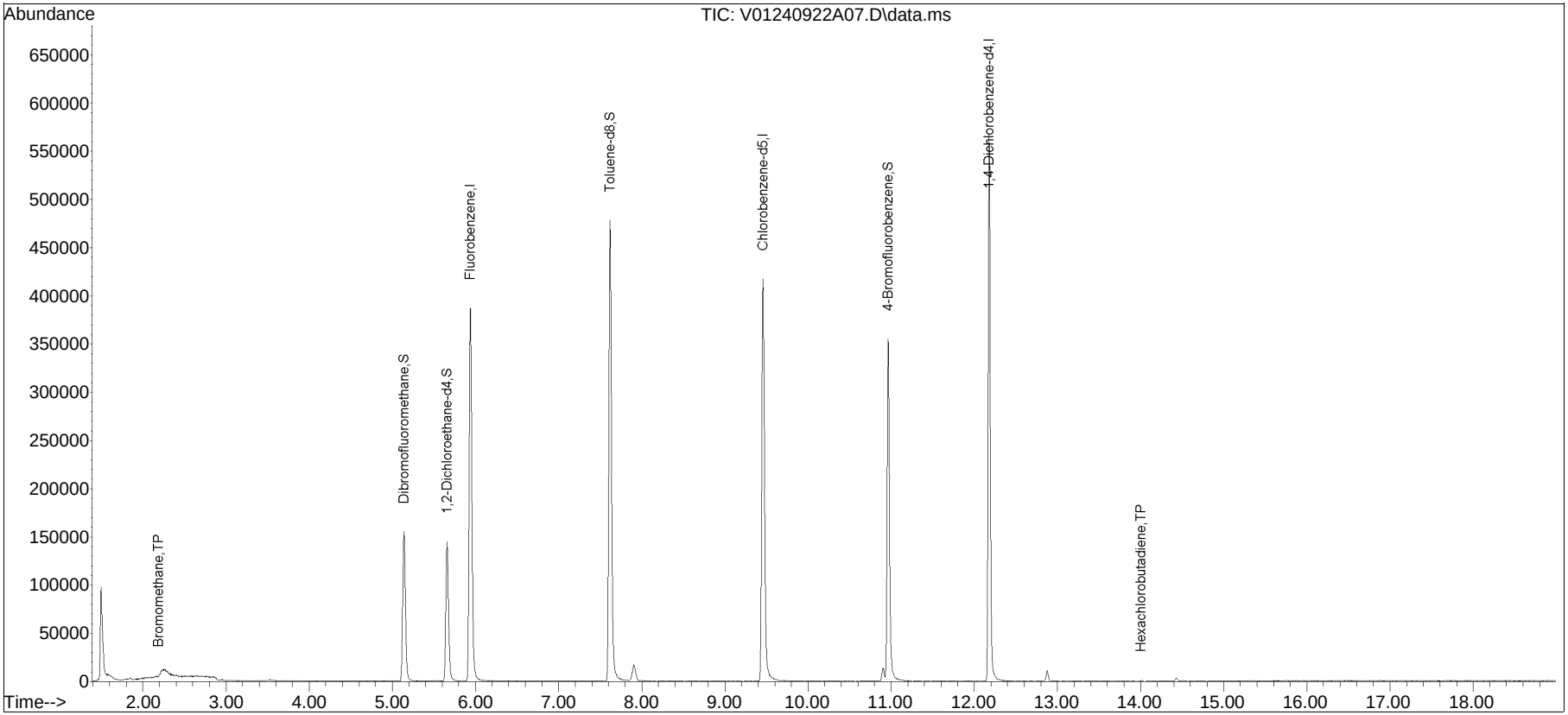
(#) = qualifier out of range (m) = manual integration (+) = signals summed

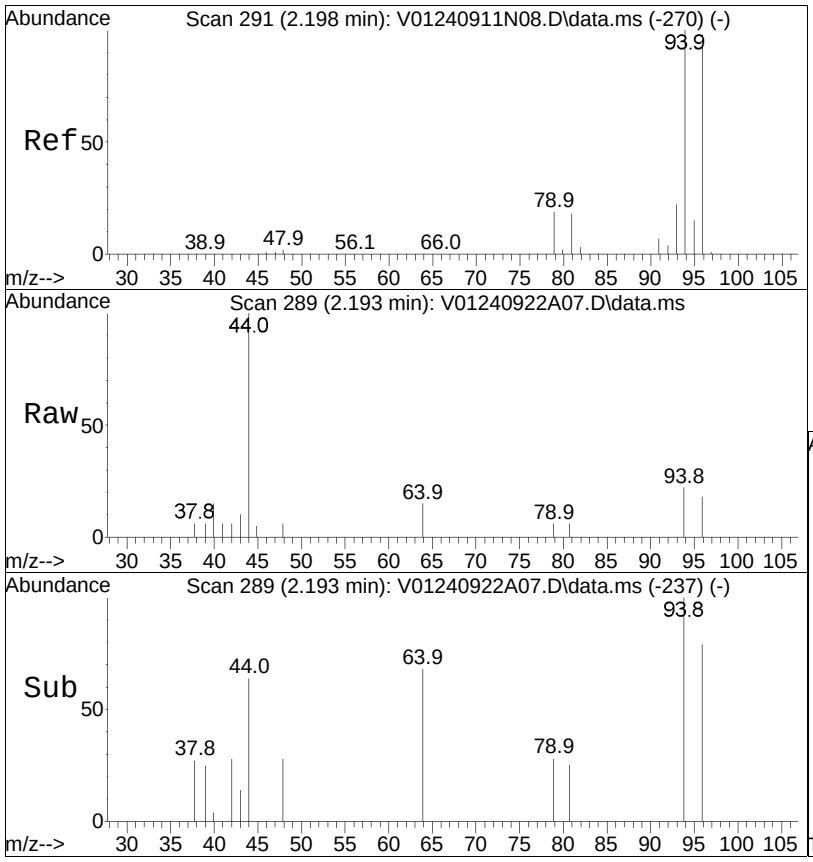
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A07.D
Acq On : 22 Sep 2024 7:02 pm
Operator : VOA101:MKS
Sample : L2453342-11,31,10,10,,A
Misc : WG1975156,ICAL21487
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 12:21:07 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

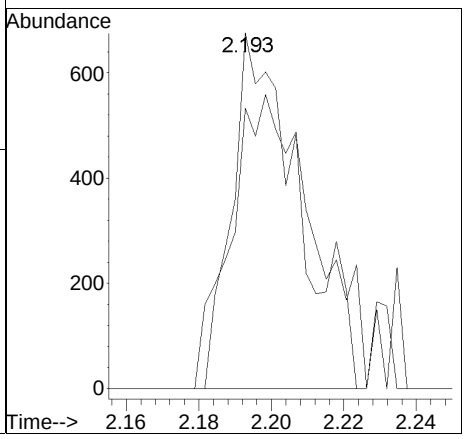




#5
Bromomethane
Concen: 0.08 ug/L
RT: 2.193 min Scan# 289
Delta R.T. -0.005 min
Lab File: V01240922A07.D
Acq: 22 Sep 2024 7:02 pm

Tgt Ion: 94 Resp: 932

Ion	Ratio	Lower	Upper
94	100		
96	77.1	73.6	113.6



Manual Integration Report

Data Path	: K:\VOA101\2024\240922A\	QMethod	: V101_240911N_8260.m
Data File	: V01240922A07.D	Operator	: VOA101:MKS
Date Inj'd	: 9/22/2024 7:02 pm	Instrument	: VOA 101
Sample	: L2453342-11,31,10,10,,A	Quant Date	: 9/23/2024 12:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A07.d
Acq On : 24 Sep 2024 9:05 am
Operator : VOA108:PID
Sample : L2453342-10,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 24 11:38:01 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	176925	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 88.52%			
59) Chlorobenzene-d5	9.548	117	131038	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 83.85%			
79) 1,4-Dichlorobenzene-d4	12.243	152	64750	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 70.54%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	53144	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%			
43) 1,2-Dichloroethane-d4	5.742	65	50858	10.266	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.66%			
60) Toluene-d8	7.708	98	159515	10.285	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.85%			
83) 4-Bromofluorobenzene	11.037	95	51443	11.206	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.021	76	99	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A07.d
Acq On : 24 Sep 2024 9:05 am
Operator : VOA108:PID
Sample : L2453342-10,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 24 11:38:01 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.098	95	103		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.771	92	56		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.616	91	55		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.170	146	50		N.D.	
101) 1,4-Dichlorobenzene	12.259	146	339		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.089	180	50		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

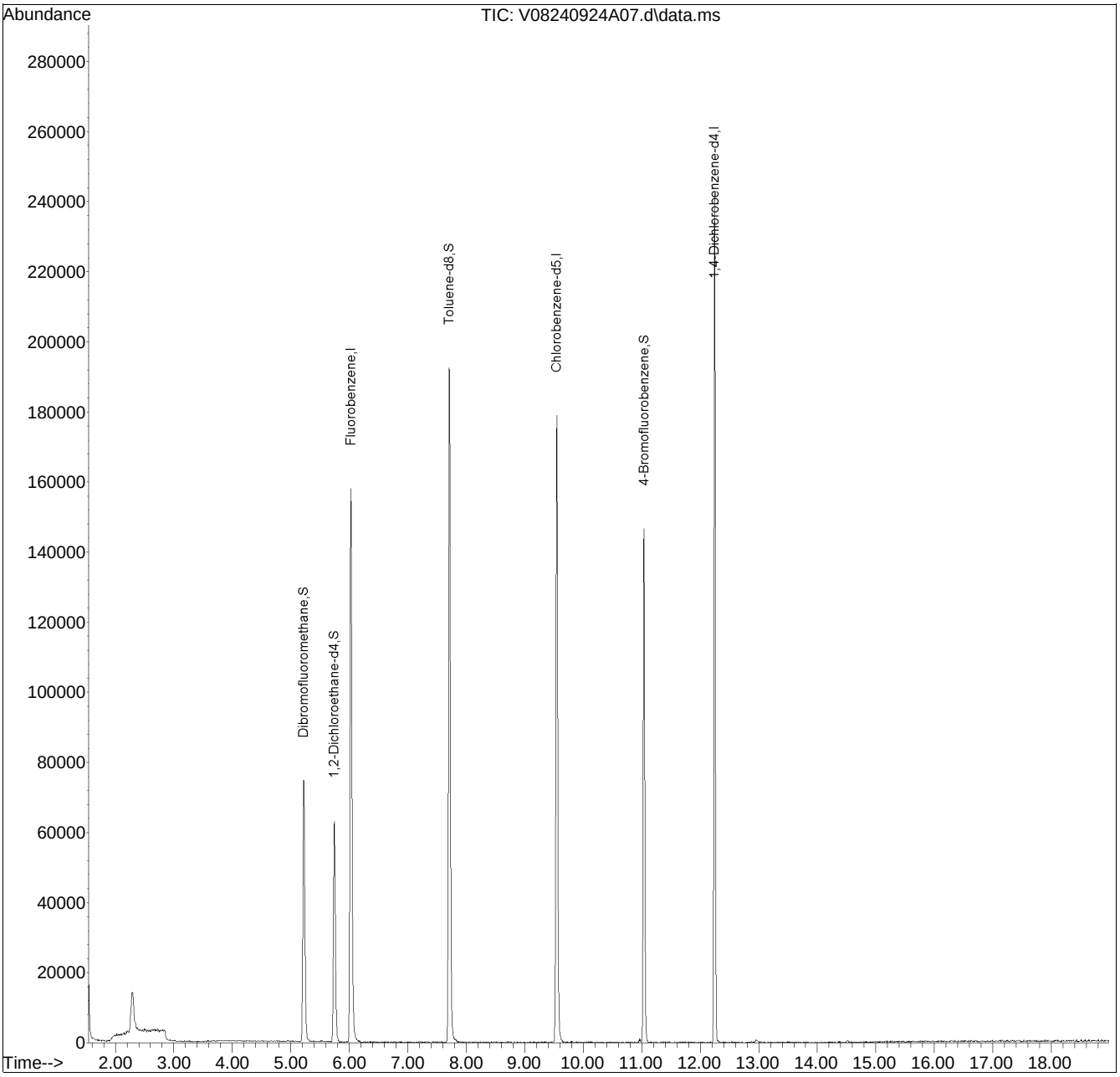
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A07.d
Acq On : 24 Sep 2024 9:05 am
Operator : VOA108:PID
Sample : L2453342-10,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 24 11:38:01 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A07.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 9:05 am	Instrument	: VOA 108
Sample	: L2453342-10,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A08.d
Acq On : 24 Sep 2024 9:28 am
Operator : VOA108:PID
Sample : L2453342-01,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 24 11:38:06 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	168940	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 84.53%			
59) Chlorobenzene-d5	9.548	117	126485	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 80.93%			
79) 1,4-Dichlorobenzene-d4	12.243	152	61287	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 66.77%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	51964	10.107	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
43) 1,2-Dichloroethane-d4	5.742	65	48848	10.326	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.26%			
60) Toluene-d8	7.708	98	155440	10.383	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.83%			
83) 4-Bromofluorobenzene	11.032	95	48213	11.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.250	94	48	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.021	76	103	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A08.d
Acq On : 24 Sep 2024 9:28 am
Operator : VOA108:PID
Sample : L2453342-01,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 24 11:38:06 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.606	91	48		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.264	146	205		N.D.	
101)	1,4-Dichlorobenzene	12.264	146	205		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

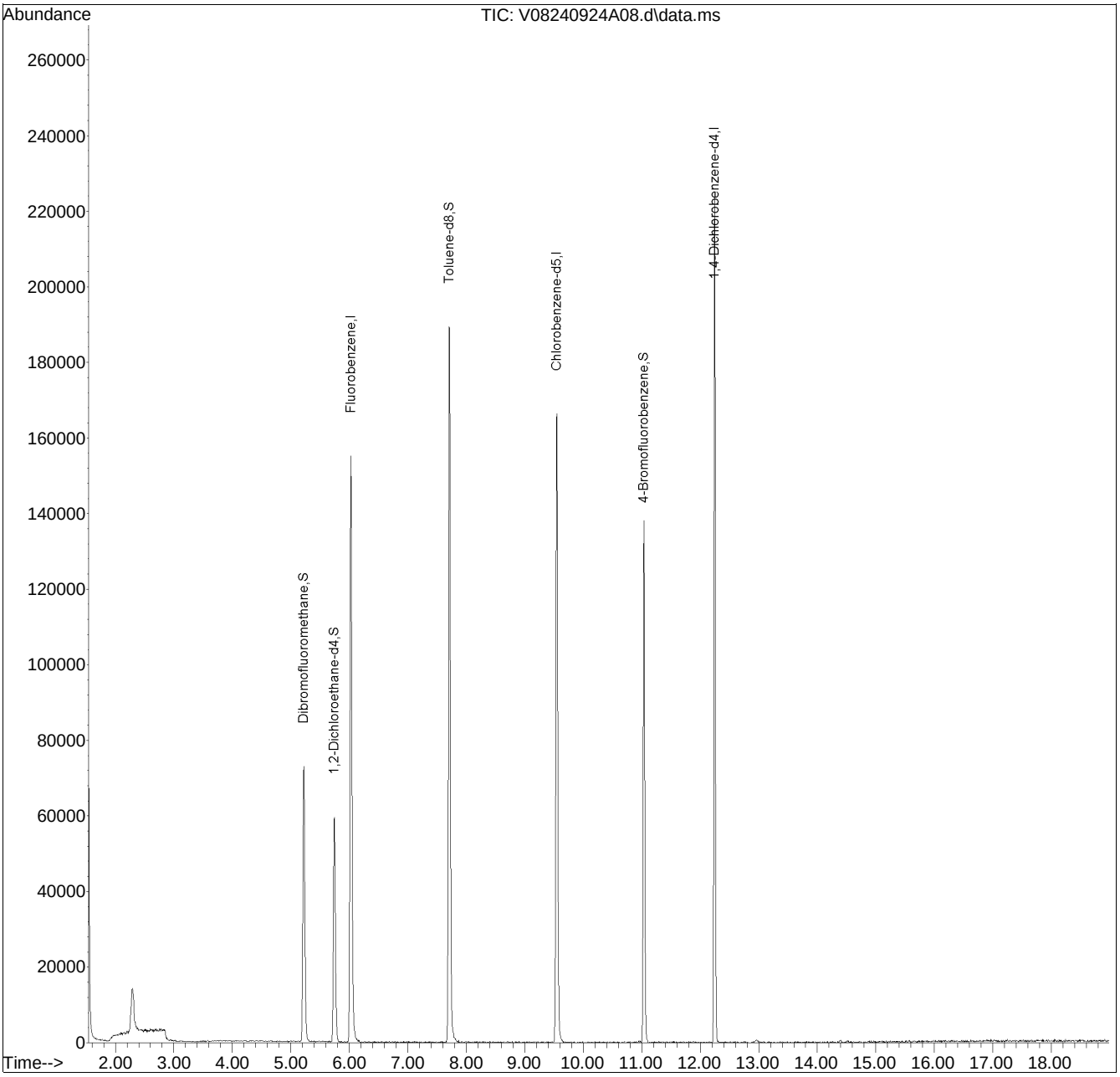
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A08.d
Acq On : 24 Sep 2024 9:28 am
Operator : VOA108:PID
Sample : L2453342-01,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 24 11:38:06 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A08.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 9:28 am	Instrument	: VOA 108
Sample	: L2453342-01,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A09.d
Acq On : 24 Sep 2024 9:50 am
Operator : VOA108:PID
Sample : L2453342-02,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 11:38:11 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	162763	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 81.44%			
59) Chlorobenzene-d5	9.548	117	117465	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 75.16%			
79) 1,4-Dichlorobenzene-d4	12.243	152	56414	10.000	ug/L	-0.01
Standard Area 1 = 91792			Recovery = 61.46%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	50905	10.277	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.77%			
43) 1,2-Dichloroethane-d4	5.742	65	49123	10.778	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.78%			
60) Toluene-d8	7.708	98	148253	10.663	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.63%			
83) 4-Bromofluorobenzene	11.037	95	44540	11.136	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.244	94	51	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	3.796	73	47	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A09.d
Acq On : 24 Sep 2024 9:50 am
Operator : VOA108:PID
Sample : L2453342-02,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 11:38:11 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.771	92	47		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.259	146	48		N.D.	
101) 1,4-Dichlorobenzene	12.259	146	48		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

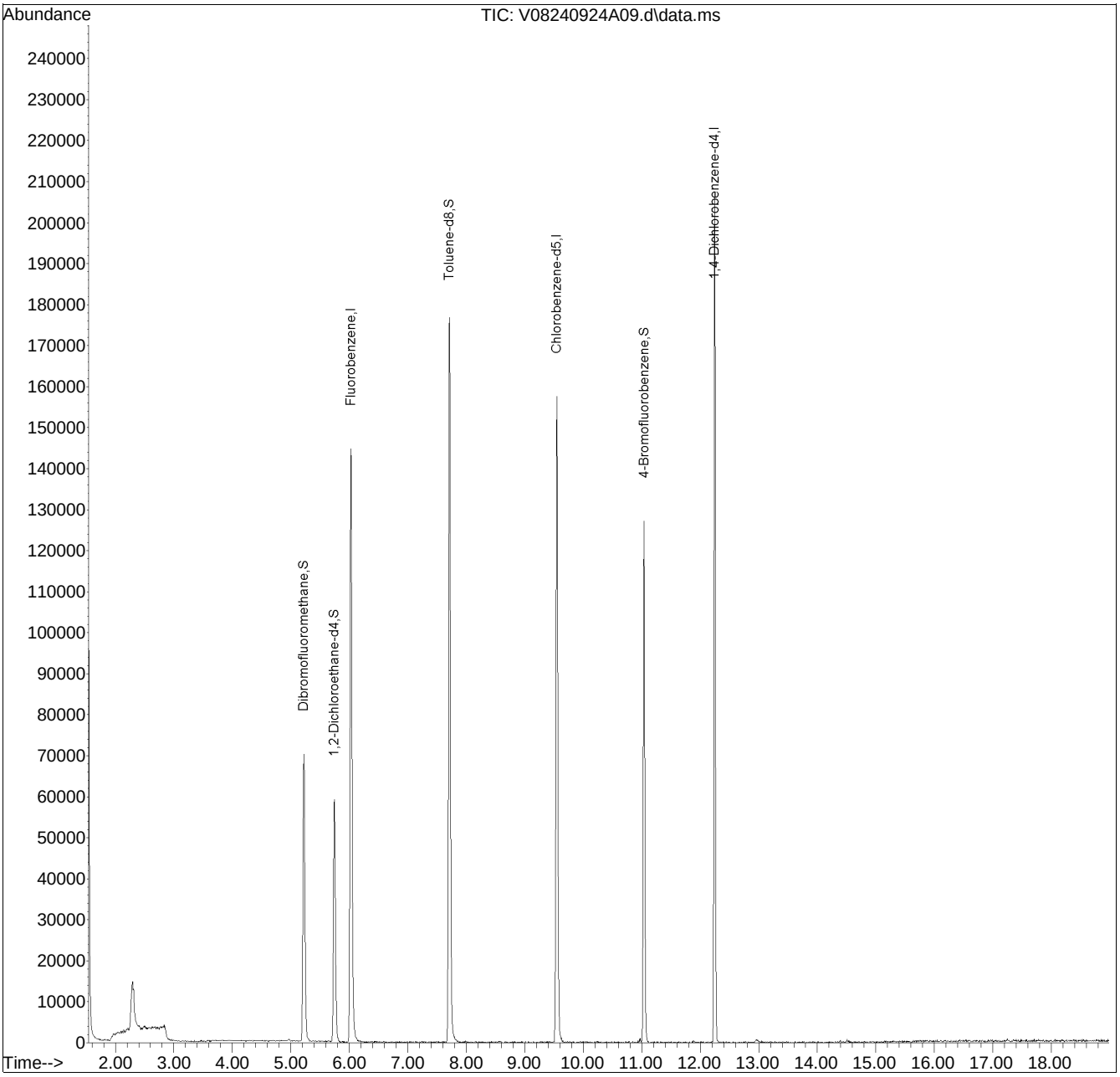
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A09.d
Acq On : 24 Sep 2024 9:50 am
Operator : VOA108:PID
Sample : L2453342-02,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 11:38:11 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A09.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 9:50 am	Instrument	: VOA 108
Sample	: L2453342-02,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A10.d
Acq On : 24 Sep 2024 10:12 am
Operator : VOA108:PID
Sample : L2453342-03,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 11:38:16 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	162499	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 81.30%			
59) Chlorobenzene-d5	9.548	117	123991	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 79.34%			
79) 1,4-Dichlorobenzene-d4	12.248	152	62373	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 67.95%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	50219	10.155	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.55%			
43) 1,2-Dichloroethane-d4	5.742	65	49064	10.783	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.83%			
60) Toluene-d8	7.708	98	148178	10.097	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.97%			
83) 4-Bromofluorobenzene	11.037	95	47904	10.833	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.33%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.250	94	51	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.587	43	66	N.D.		
20) Methyl tert-butyl ether	3.791	73	368	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.050	83	1637	0.241	ug/L #	80
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A10.d
Acq On : 24 Sep 2024 10:12 am
Operator : VOA108:PID
Sample : L2453342-03,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 11:38:16 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	0.000		0		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.264	146	82		N.D.	
101)	1,4-Dichlorobenzene	12.264	146	82		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

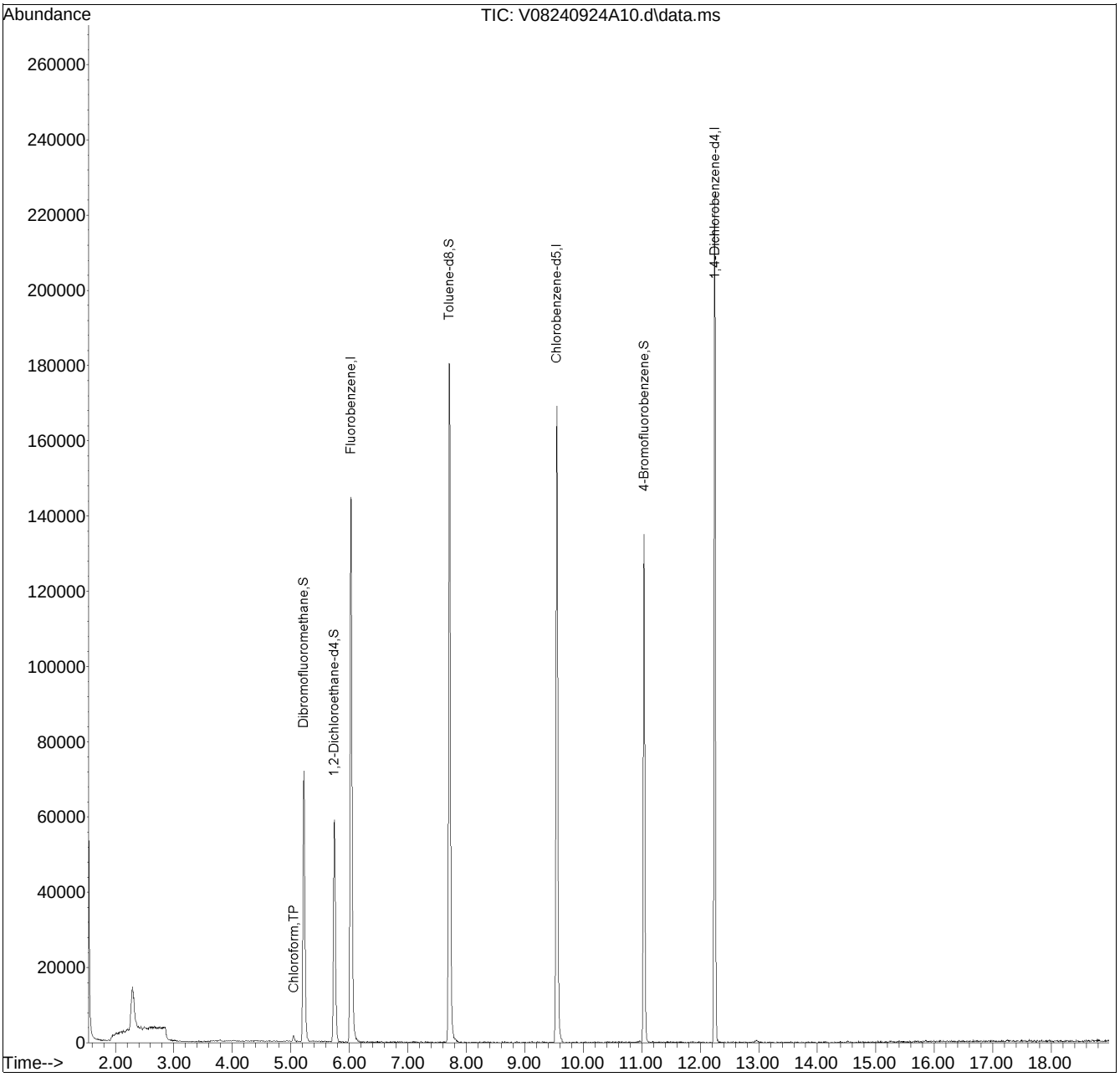
(#) = qualifier out of range (m) = manual integration (+) = signals summed

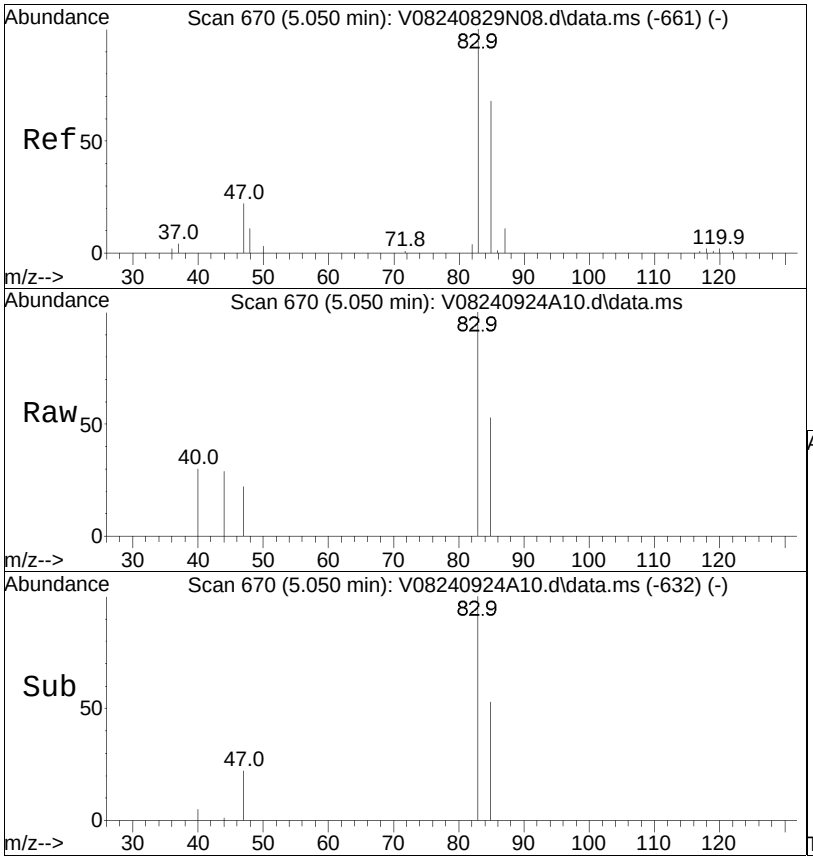
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A10.d
Acq On : 24 Sep 2024 10:12 am
Operator : VOA108:PID
Sample : L2453342-03,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 11:38:16 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

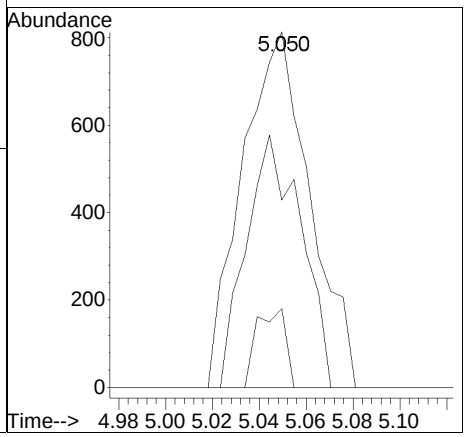




#32
Chloroform
Concen: 0.24 ug/L
RT: 5.050 min Scan# 670
Delta R.T. -0.000 min
Lab File: V08240924A10.d
Acq: 24 Sep 2024 10:12 am

Tgt Ion: 83 Resp: 1637

Ion	Ratio	Lower	Upper
83	100		
85	57.4	41.5	86.1
47	9.5	19.0	39.4#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A10.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 10:12 am	Instrument	: VOA 108
Sample	: L2453342-03,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A11.d
Acq On : 24 Sep 2024 10:35 am
Operator : VOA108:PID
Sample : L2453342-04,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 11:38:24 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	157508	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 78.81%			
59) Chlorobenzene-d5	9.548	117	117780	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 75.36%			
79) 1,4-Dichlorobenzene-d4	12.243	152	57734	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 62.90%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	50102	10.452	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.52%			
43) 1,2-Dichloroethane-d4	5.747	65	48144	10.916	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.16%			
60) Toluene-d8	7.713	98	143705	10.309	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.09%			
83) 4-Bromofluorobenzene	11.037	95	44308	10.825	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.25%			

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.000	0	N.D.	
3) Chloromethane	0.000	0	N.D.	
4) Vinyl chloride	0.000	0	N.D.	
5) Bromomethane	0.000	0	N.D.	
6) Chloroethane	0.000	0	N.D.	
7) Trichlorofluoromethane	0.000	0	N.D.	
10) 1,1-Dichloroethene	0.000	0	N.D.	
11) Carbon disulfide	0.000	0	N.D.	
12) Freon-113	0.000	0	N.D.	
15) Methylene chloride	0.000	0	N.D.	
17) Acetone	0.000	0	N.D.	d
18) trans-1,2-Dichloroethene	0.000	0	N.D.	
19) Methyl acetate	0.000	0	N.D.	d
20) Methyl tert-butyl ether	0.000	0	N.D.	
23) 1,1-Dichloroethane	0.000	0	N.D.	
28) cis-1,2-Dichloroethene	0.000	0	N.D.	
30) Bromochloromethane	0.000	0	N.D.	
31) Cyclohexane	0.000	0	N.D.	
32) Chloroform	0.000	0	N.D.	
34) Carbon tetrachloride	0.000	0	N.D.	

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A11.d
Acq On : 24 Sep 2024 10:35 am
Operator : VOA108:PID
Sample : L2453342-04,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 11:38:24 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

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

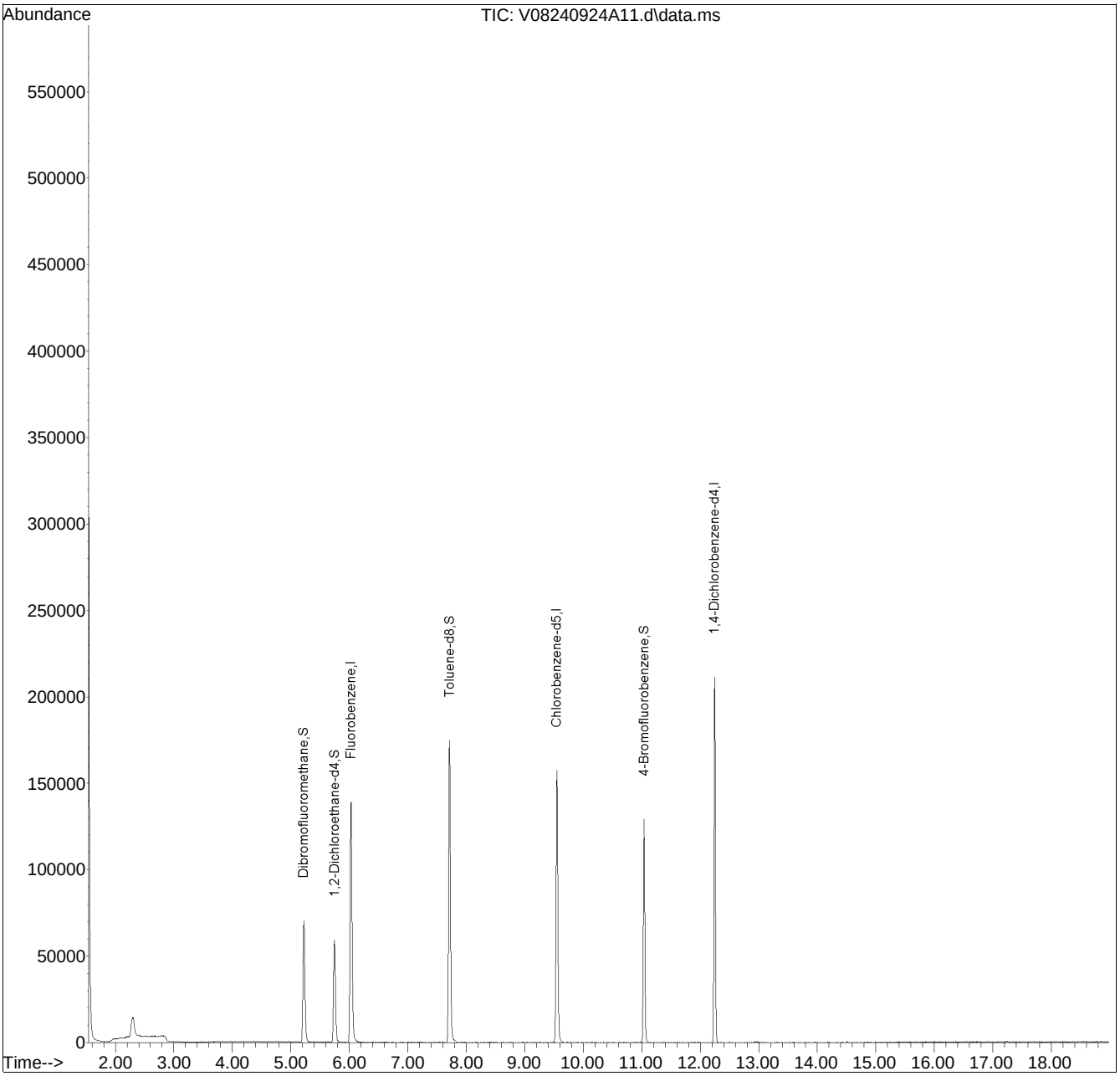
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A11.d
Acq On : 24 Sep 2024 10:35 am
Operator : VOA108:PID
Sample : L2453342-04,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 11:38:24 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A11.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 10:35 am	Instrument	: VOA 108
Sample	: L2453342-04,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A12.d
Acq On : 24 Sep 2024 10:57 am
Operator : VOA108:PID
Sample : L2453342-05,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 11:53:05 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	150619	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 75.36%			
59) Chlorobenzene-d5	9.548	117	111856	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 71.57%			
79) 1,4-Dichlorobenzene-d4	12.243	152	53589	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 58.38%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	48089	10.491	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.91%			
43) 1,2-Dichloroethane-d4	5.747	65	46589	11.047	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.47%			
60) Toluene-d8	7.713	98	136830	10.335	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.35%			
83) 4-Bromofluorobenzene	11.037	95	41668	10.968	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A12.d
Acq On : 24 Sep 2024 10:57 am
Operator : VOA108:PID
Sample : L2453342-05,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 11:53:05 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.104	95	61		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	0.000		0		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

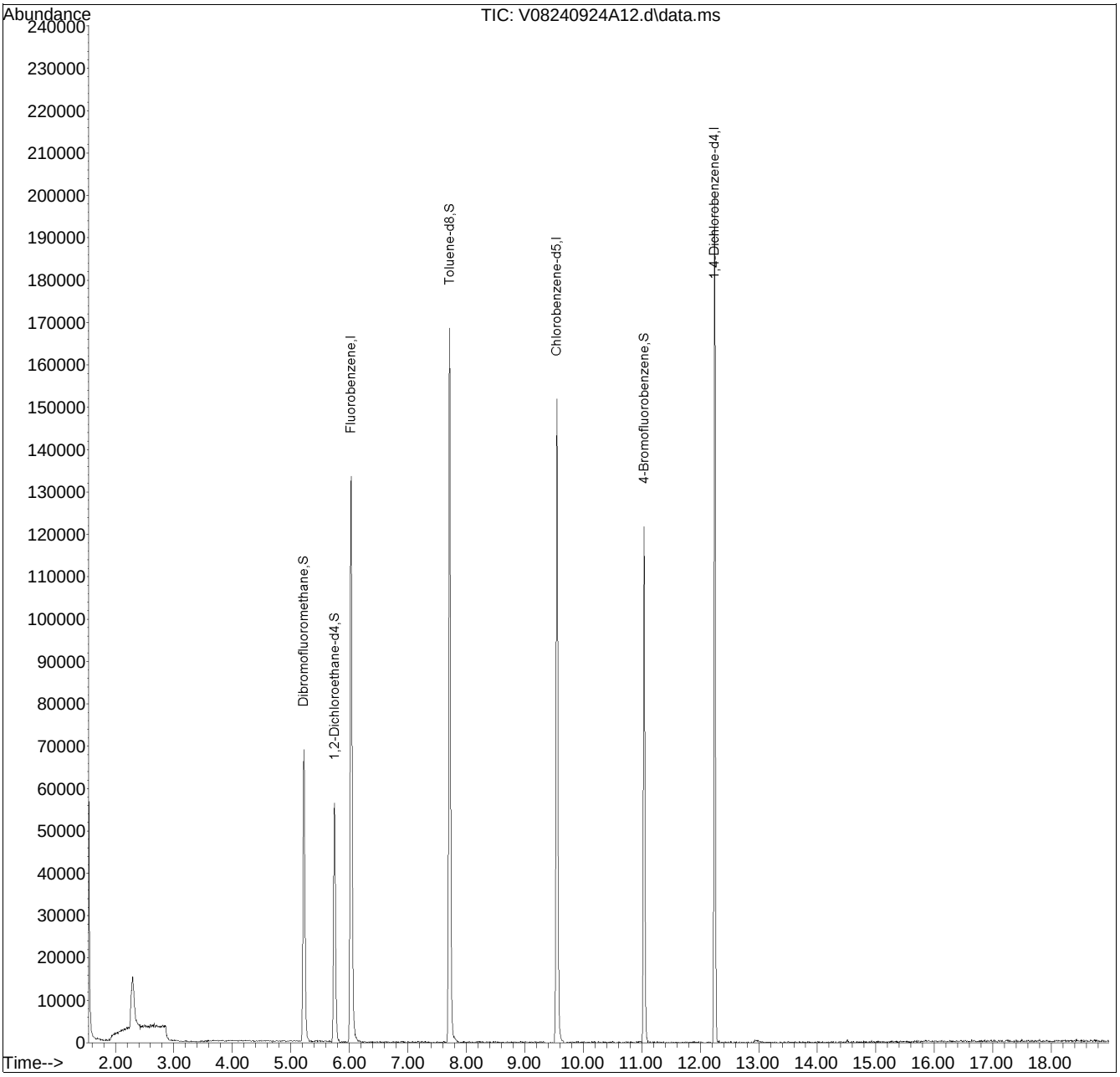
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A12.d
Acq On : 24 Sep 2024 10:57 am
Operator : VOA108:PID
Sample : L2453342-05,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 11:53:05 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A12.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 10:57 am	Instrument	: VOA 108
Sample	: L2453342-05,31,10,10,,A	Quant Date	: 9/24/2024 11:36 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A13.d
Acq On : 24 Sep 2024 11:20 am
Operator : VOA108:PID
Sample : L2453342-06,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 11:54:19 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	147779	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 73.94%			
59) Chlorobenzene-d5	9.548	117	111535	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 71.37%			
79) 1,4-Dichlorobenzene-d4	12.243	152	54497	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 59.37%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	47399	10.540	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.40%			
43) 1,2-Dichloroethane-d4	5.747	65	46437	11.222	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.22%			
60) Toluene-d8	7.713	98	134519	10.190	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.90%			
83) 4-Bromofluorobenzene	11.037	95	41240	10.674	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.74%			

Target Compounds			Qvalue
2) Dichlorodifluoromethane	0.000	0	N.D.
3) Chloromethane	0.000	0	N.D.
4) Vinyl chloride	0.000	0	N.D.
5) Bromomethane	0.000	0	N.D.
6) Chloroethane	0.000	0	N.D.
7) Trichlorofluoromethane	0.000	0	N.D.
10) 1,1-Dichloroethene	0.000	0	N.D.
11) Carbon disulfide	0.000	0	N.D.
12) Freon-113	0.000	0	N.D.
15) Methylene chloride	0.000	0	N.D.
17) Acetone	0.000	0	N.D. d
18) trans-1,2-Dichloroethene	0.000	0	N.D.
19) Methyl acetate	0.000	0	N.D. d
20) Methyl tert-butyl ether	0.000	0	N.D.
23) 1,1-Dichloroethane	0.000	0	N.D.
28) cis-1,2-Dichloroethene	0.000	0	N.D.
30) Bromochloromethane	0.000	0	N.D.
31) Cyclohexane	0.000	0	N.D.
32) Chloroform	0.000	0	N.D.
34) Carbon tetrachloride	0.000	0	N.D.

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A13.d
Acq On : 24 Sep 2024 11:20 am
Operator : VOA108:PID
Sample : L2453342-06,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 11:54:19 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

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

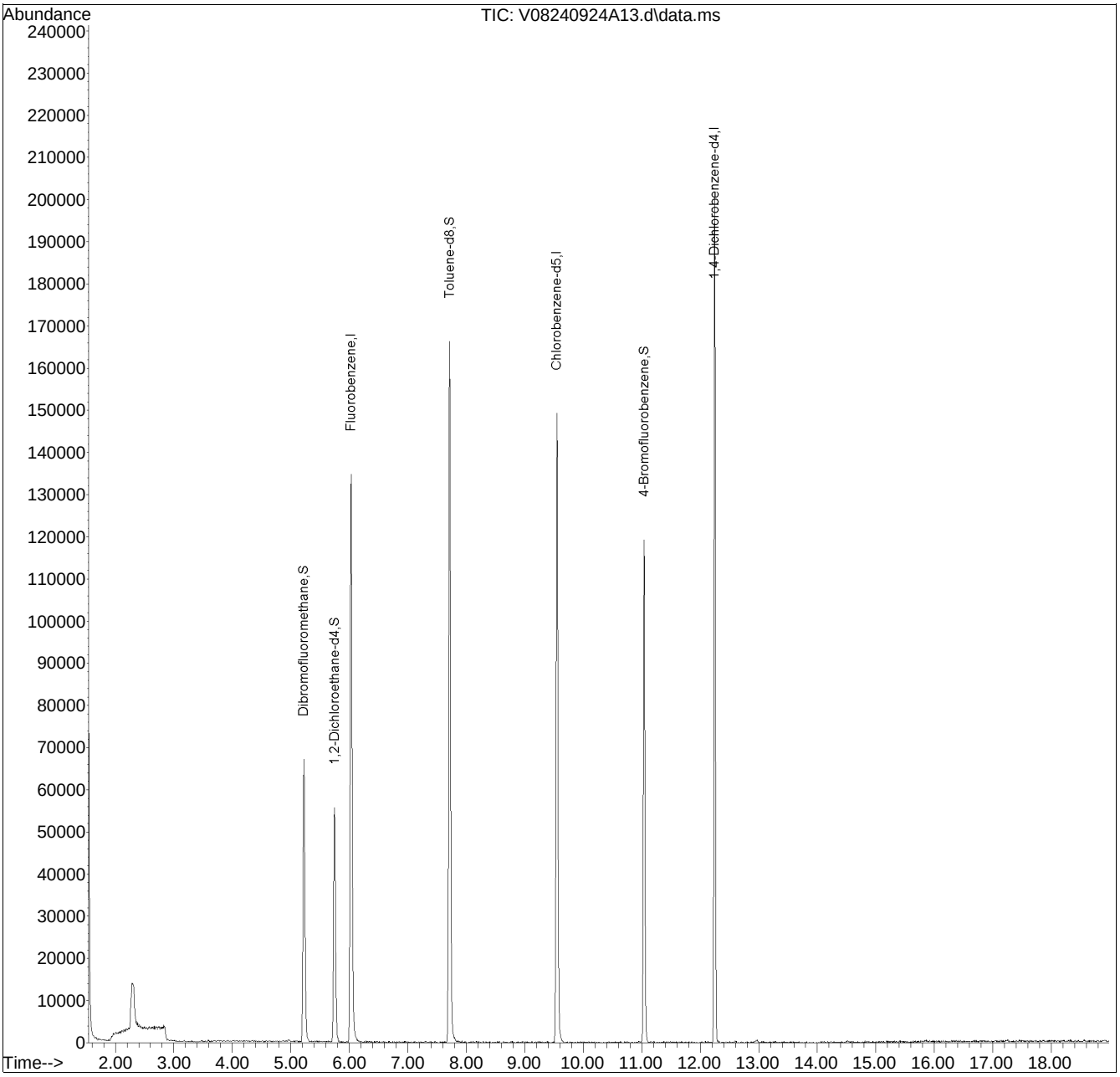
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A13.d
Acq On : 24 Sep 2024 11:20 am
Operator : VOA108:PID
Sample : L2453342-06,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 11:54:19 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A13.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 11:20 am	Instrument	: VOA 108
Sample	: L2453342-06,31,10,10,,A	Quant Date	: 9/24/2024 11:53 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A14.d
Acq On : 24 Sep 2024 11:42 am
Operator : VOA108:PID
Sample : L2453342-08,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 12:23:55 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	145071	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 72.58%			
59) Chlorobenzene-d5	9.548	117	108967	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 69.73%			
79) 1,4-Dichlorobenzene-d4	12.243	152	48949	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 53.33%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	47746	10.815	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.15%			
43) 1,2-Dichloroethane-d4	5.747	65	46777	11.515	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.15%			
60) Toluene-d8	7.713	98	134255	10.410	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.10%			
83) 4-Bromofluorobenzene	11.037	95	39579	11.405	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.05%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.597	43	107	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A14.d
Acq On : 24 Sep 2024 11:42 am
Operator : VOA108:PID
Sample : L2453342-08,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 12:23:55 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.098	95	59		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

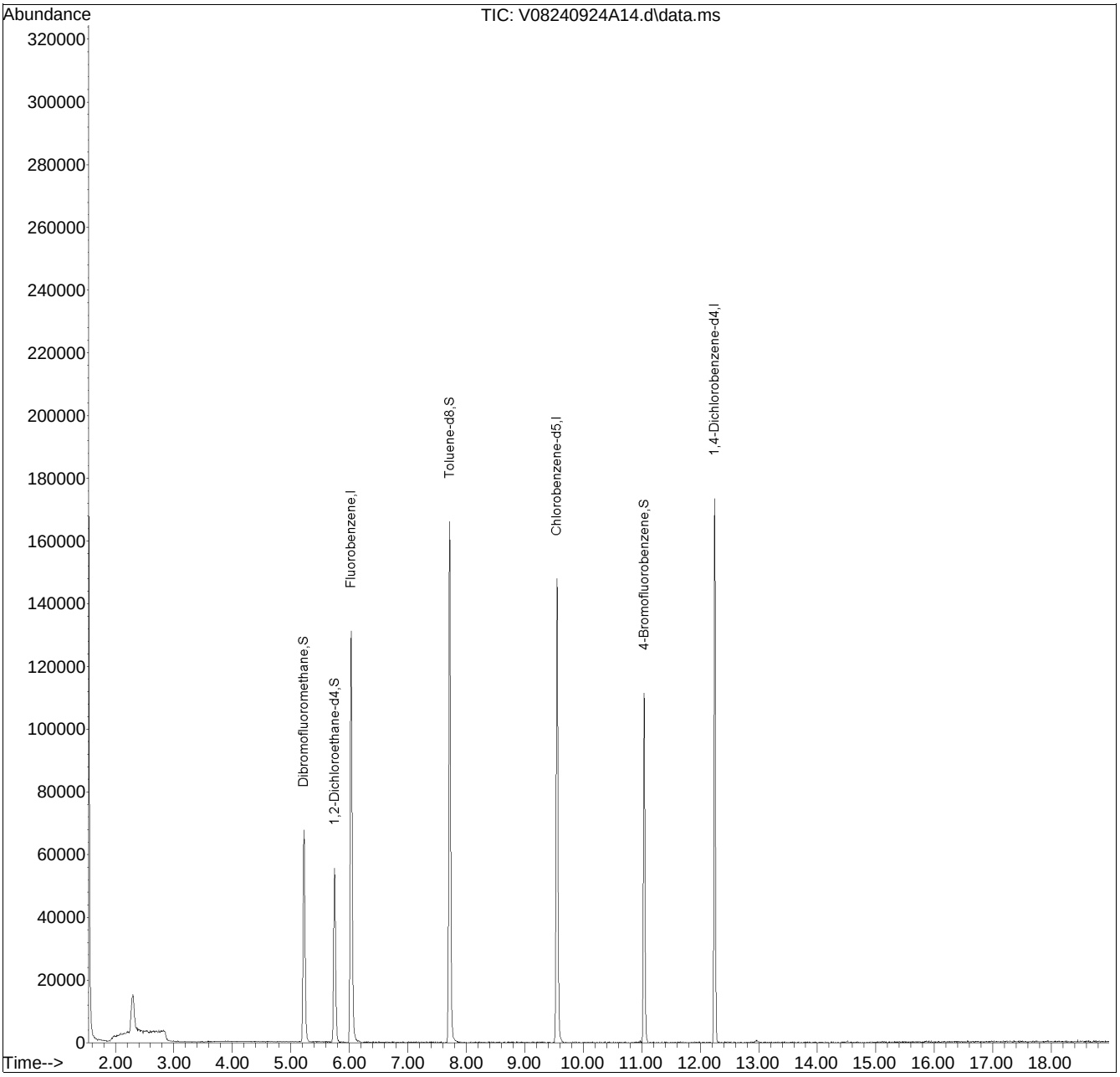
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A14.d
Acq On : 24 Sep 2024 11:42 am
Operator : VOA108:PID
Sample : L2453342-08,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 12:23:55 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A14.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 11:42 am	Instrument	: VOA 108
Sample	: L2453342-08,31,10,10,,A	Quant Date	: 9/24/2024 12:23 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A15.d
Acq On : 24 Sep 2024 12:05 pm
Operator : VOA108:LAC
Sample : L2453342-07,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 12:50:49 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	148160	10.000	ug/L	0.00
Standard Area 1 = 199216			Recovery = 74.37%			
59) Chlorobenzene-d5	9.548	117	112371	10.000	ug/L	0.00
Standard Area 1 = 149560			Recovery = 75.13%			
79) 1,4-Dichlorobenzene-d4	12.243	152	55971	10.000	ug/L	0.00
Standard Area 1 = 77221			Recovery = 72.48%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	48192	10.688	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.88%			
43) 1,2-Dichloroethane-d4	5.747	65	47656	11.487	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.87%			
60) Toluene-d8	7.713	98	136491	10.262	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.62%			
83) 4-Bromofluorobenzene	11.037	95	42112	10.613	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.050	83	727	0.118	ug/L #	72
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A15.d
Acq On : 24 Sep 2024 12:05 pm
Operator : VOA108:LAC
Sample : L2453342-07,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 12:50:49 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

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

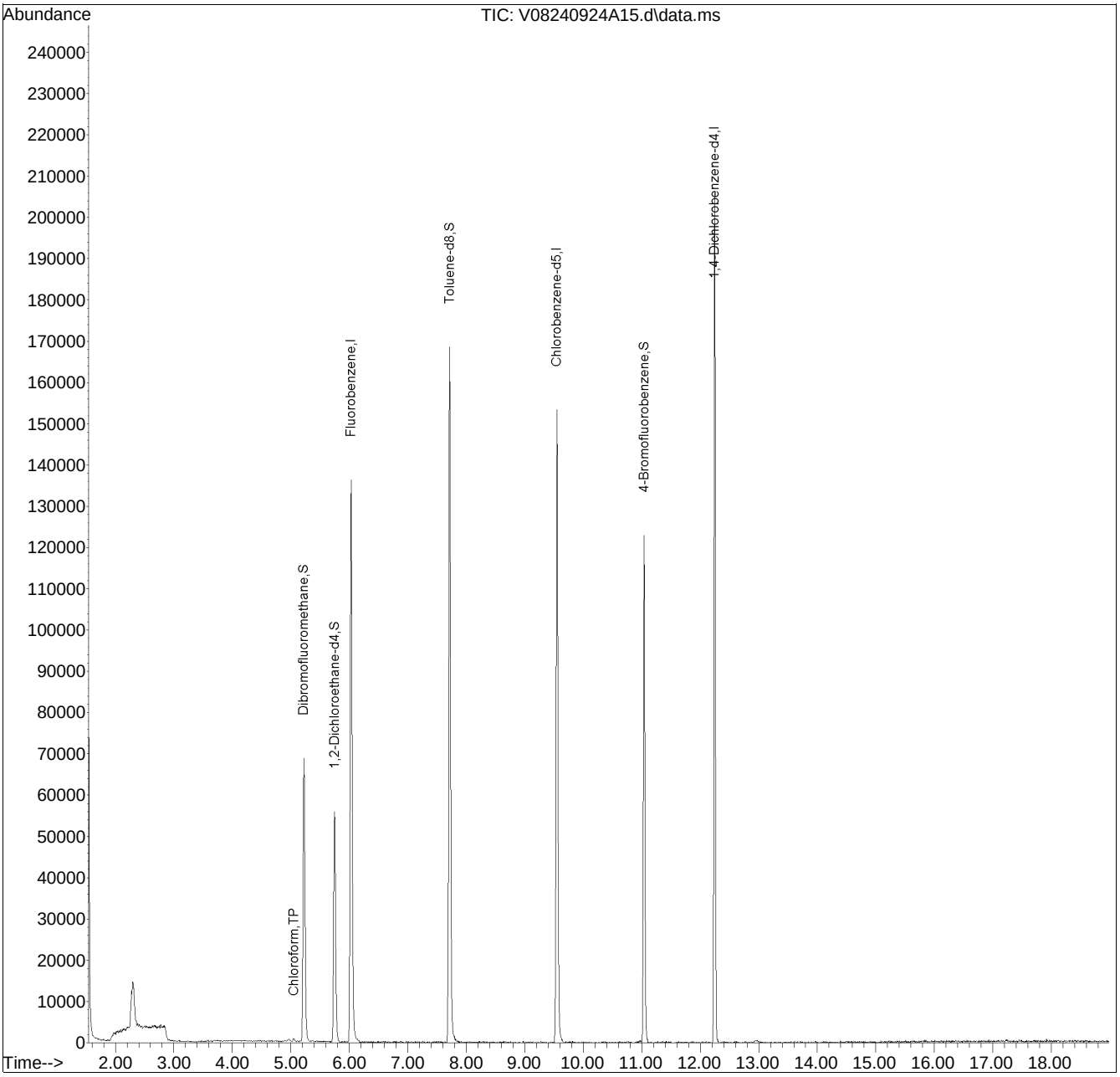
(#) = qualifier out of range (m) = manual integration (+) = signals summed

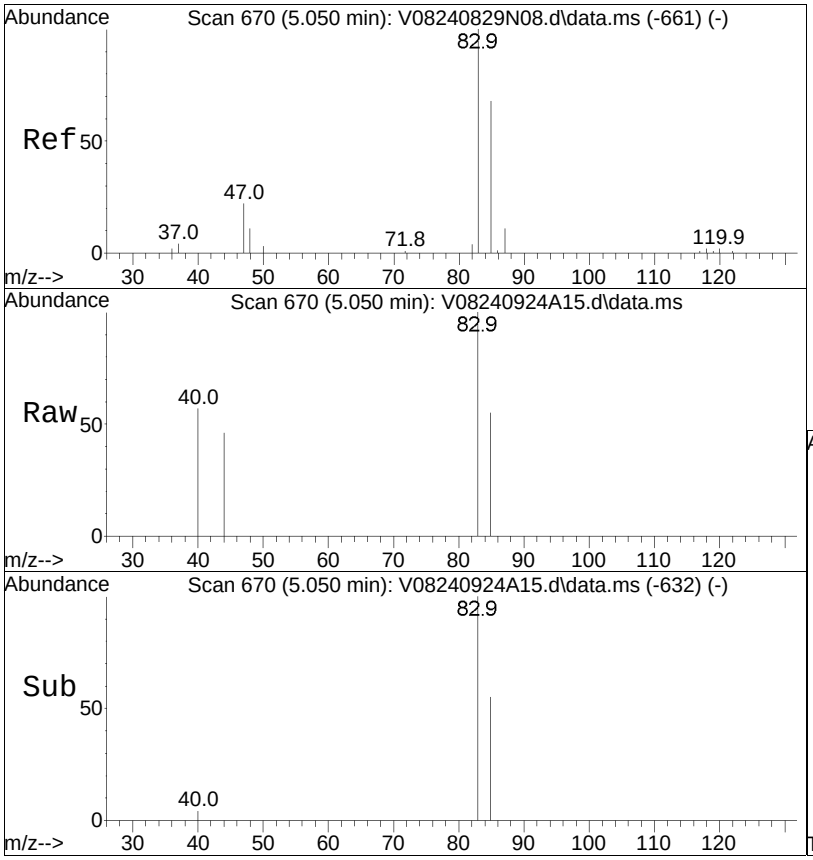
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A15.d
Acq On : 24 Sep 2024 12:05 pm
Operator : VOA108:LAC
Sample : L2453342-07,31,10,10,,A
Misc : WG1975613,ICAL21441
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 12:50:49 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

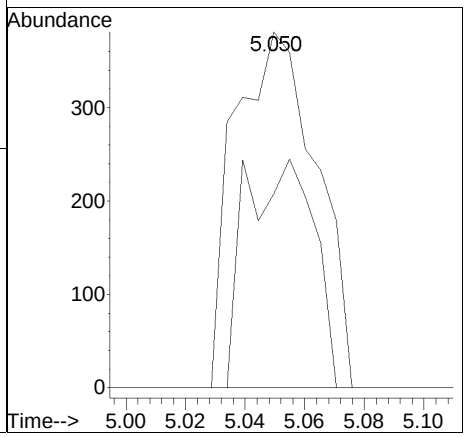




#32
Chloroform
Concen: 0.12 ug/L
RT: 5.050 min Scan# 670
Delta R.T. -0.000 min
Lab File: V08240924A15.d
Acq: 24 Sep 2024 12:05 pm

Tgt Ion: 83 Resp: 727

Ion	Ratio	Lower	Upper
83	100		
85	53.5	41.5	86.1
47	0.0	19.0	39.4#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A15.d	Operator	: VOA108:LAC
Date Inj'd	: 9/24/2024 12:05 pm	Instrument	: VOA 108
Sample	: L2453342-07,31,10,10,,A	Quant Date	: 9/24/2024 12:50 pm

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

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

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

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

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

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

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Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

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

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

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Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21487**
Calibration dates	**: 09/11/24 23:43 09/12/24 03:37**		

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I	Fluorobenzene	ISTD									
2) TP	Dichlorodifluo		0.218	0.291	0.250	0.272	0.283	0.277	0.290	0.269	9.76
3) TP	Chloromethane		0.314	0.335	0.237	0.248	0.256	0.247	0.261	0.271	13.92
4) TP	Vinyl chloride	0.335	0.349	0.408	0.333	0.354	0.353	0.341	0.366	0.355	6.79
5) TP	Bromomethane		0.213	0.241	0.225	0.264	0.299	0.301	0.332	0.268	16.59
6) TP	Chloroethane		0.567	0.497	0.357	0.359	0.353	0.323		*L	0.9973
7) TP	Trichlorofluor		0.733	0.916	0.794	0.841	0.833	0.788	0.801	0.815	6.97
8) TP	Ethyl ether		0.219	0.231	0.209	0.206	0.209	0.201	0.198	0.210	5.34
10) TP	1,1-Dichloroet		0.191	0.213	0.214	0.214	0.253	0.228		0.219	9.48
11) TP	Carbon disulfide		0.686	0.619	0.570	0.604	0.672	0.702	0.851	0.672	13.72
12) TP	Freon-113		0.178	0.231	0.207	0.227	0.247	0.255	0.312	0.237	17.79
13) TP	Iodomethane			0.242	0.274	0.325	0.351	0.351	0.375	0.320	16.02
14) TP	Acrolein			0.014	0.017	0.019	0.022	0.022	0.023	0.020	17.50
15) TP	Methylene chlo		0.275	0.247	0.217	0.229	0.241	0.236	0.251	0.242	7.53
17) TP	Acetone			0.063	0.044	0.038	0.038	0.038	0.037	*L	0.9997
18) TP	trans-1,2-Dich		0.207	0.240	0.216	0.236	0.249	0.250	0.275	0.239	9.40
19) TP	Methyl acetate		0.107	0.108	0.085	0.088	0.101	0.098	0.097	0.098	9.02
20) TP	Methyl tert butyl ether		0.487	0.532	0.509	0.539	0.590	0.589	0.609	0.551	8.39
21) TP	tert-Butyl alc			0.009	0.010	0.010	0.012	0.012	0.012	0.011	11.65
22) TP	Diisopropyl ether		0.619	0.710	0.678	0.720	0.764	0.746	0.785	0.717	7.79
23) TP	1,1-Dichloroet		0.368	0.450	0.407	0.438	0.459	0.447	0.469	0.434	8.06
24) TP	Halothane		0.145	0.171	0.167	0.184	0.194	0.192	0.210	0.181	11.92
25) TP	Acrylonitrile			0.040	0.042	0.045	0.050	0.050	0.051	0.046	10.15
26) TP	Ethyl tert-but		0.518	0.580	0.564	0.608	0.656	0.648	0.690	0.609	9.82
27) TP	Vinyl acetate		0.292	0.320	0.301	0.307	0.360	0.352	0.379	0.330	10.09
28) TP	cis-1,2-Dichlo		0.226	0.262	0.254	0.272	0.283	0.276	0.297	0.267	8.56
29) TP	2,2-Dichloropr		0.260	0.323	0.311	0.351	0.365	0.350	0.371	0.333	11.61
30) TP	Bromochloromet		0.105	0.118	0.116	0.122	0.125	0.124	0.135	0.121	7.59
31) TP	Cyclohexane		0.297	0.399	0.358	0.416	0.437	0.435	0.474	0.402	14.56
32) TP	Chloroform		0.376	0.457	0.424	0.452	0.467	0.453	0.485	0.445	7.96
33) TP	Ethyl acetate			0.125	0.124	0.136	0.149	0.145	0.147	0.138	8.00
34) TP	Carbon tetrachloride		0.258	0.336	0.316	0.373	0.393	0.387	0.424	0.355	15.74
35) TP	Tetrahydrofuran			0.039	0.043	0.043	0.043	0.041	0.043	0.042	3.98
36) S	Dibromofluoromethane	0.252	0.249	0.256	0.258	0.263	0.263	0.275	0.280	0.262	4.15
37) TP	1,1,1-Trichlor		0.322	0.411	0.370	0.412	0.418	0.408	0.442	0.398	9.93
39) TP	2-Butanone			0.057	0.051	0.057	0.061	0.059	0.059	0.057	5.78

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Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21487**
Calibration dates	**: 09/11/24 23:43 09/12/24 03:37**		

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.259	0.333	0.318	0.353	0.361	0.354	0.383	0.337	11.92
41) TP	Benzene	0.844	0.858	0.986	0.922	1.000	1.034	1.016	1.099	0.970	9.12
42) TP	Tertiary-Amyl Methyl Ether		0.439	0.507	0.505	0.541	0.586	0.583	0.614	0.539	11.24
43) S	1,2-Dichloroethane-d4	0.294	0.292	0.294	0.293	0.293	0.309	0.313	0.322	0.301	3.81
44) TP	1,2-Dichloroet		0.253	0.298	0.284	0.296	0.302	0.295	0.304	0.290	6.06
47) TP	Methyl cyclohe		0.317	0.405	0.360	0.438	0.464	0.475	0.539	0.428	17.42
48) TP	Trichloroethene	0.200	0.213	0.278	0.256	0.282	0.300	0.306	0.356	0.274	18.54
50) TP	Dibromomethane		0.113	0.128	0.127	0.134	0.143	0.141	0.147	0.133	8.80
51) TP	1,2-Dichloropr		0.191	0.242	0.232	0.245	0.250	0.241	0.256	0.237	9.06
53) TP	2-Chloroethyl		0.059	0.082	0.090	0.098	0.101	0.096	0.098	0.089	16.51
54) TP	Bromodichlorom		0.249	0.295	0.313	0.338	0.353	0.345	0.365	0.323	12.54
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	8.75
58) TP	cis-1,3-Dichloropropene		0.239	0.307	0.336	0.375	0.402	0.392	0.420	0.353	18.06
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.274	1.250	1.249	1.241	1.220	1.154	1.133	1.073	1.199	5.91
61) TP	Toluene		0.765	0.826	0.753	0.817	0.821	0.790	0.834	0.801	4.02
62) TP	4-Methyl-2-pen			0.047	0.052	0.057	0.062	0.060	0.060	0.056	10.01
63) TP	Tetrachloroethene		0.255	0.337	0.309	0.336	0.337	0.330	0.363	0.324	10.61
65) TP	trans-1,3-Dichloropropene		0.253	0.305	0.355	0.390	0.409	0.395	0.409	0.359	16.62
67) TP	Ethyl methacry			0.198	0.258	0.282	0.312	0.308	0.311	0.278	16.02
68) TP	1,1,2-Trichlor		0.157	0.184	0.186	0.188	0.195	0.188	0.192	0.184#	6.81
69) TP	Chlorodibromom		0.198	0.238	0.262	0.283	0.298	0.287	0.294	0.266	13.73
70) TP	1,3-Dichloropr		0.334	0.379	0.382	0.387	0.390	0.369	0.366	0.372	5.11
71) TP	1,2-Dibromoethane		0.147	0.209	0.209	0.219	0.227	0.217	0.216	0.206	13.08
72) TP	2-Hexanone			0.079	0.094	0.104	0.114	0.111	0.105	0.101	12.39
73) TP	Chlorobenzene		0.782	0.891	0.835	0.898	0.937	0.913	0.973	0.890	7.15
74) TP	Ethylbenzene		1.298	1.527	1.487	1.665	1.730	1.666	1.801	1.596	10.71
75) TP	1,1,1,2-Tetrac		0.231	0.274	0.293	0.322	0.335	0.325	0.344	0.303	13.14
76) TP	p/m Xylene		0.451	0.596	0.579	0.659	0.713	0.724	0.846	0.653	19.36
77) TP	o Xylene		0.452	0.553	0.550	0.626	0.685	0.693	0.793	0.622	18.22
78) TP	Styrene		0.593	0.811	0.884	1.069	1.173	1.179		*Q	0.9990
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.177	0.231	0.254	0.308	0.346	0.348	0.381	*Q	0.9993
82) TP	Isopropylbenzene		2.295	2.967	2.792	3.193	3.229	3.129	3.441	3.007	12.46
83) S	4-Bromofluorobenzene	0.869	0.884	0.885	0.881	0.870	0.814	0.800	0.781	0.848	5.01
84) TP	Bromobenzene		0.580	0.684	0.642	0.677	0.689	0.675	0.717	0.666	6.59

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Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21487**
Calibration dates	**: 09/11/24 23:43 09/12/24 03:37**		

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
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	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.703	3.473	3.320	3.767	3.857	3.768	4.129	3.574	13.00
86) TP	1,4-Dichlorobu		0.660	0.707	0.672	0.698	0.720	0.696	0.738	0.699	3.82
87) TP	1,1,2,2-Tetrac		0.433	0.490	0.472	0.477	0.496	0.469		0.473	4.70
88) TP	4-Ethyltoluene		2.224	2.781	2.632	2.989	3.043	2.967	3.274	2.844	11.95
89) TP	2-Chlorotoluene		1.680	1.988	1.916	2.105	2.100	2.008	2.137	1.990	7.91
90) TP	1,3,5-Trimethy		1.836	2.232	2.286	2.594	2.689	2.683	2.975	2.471	15.29
91) TP	1,2,3-Trichlor		0.384	0.406	0.376	0.400	0.421	0.417	0.450	0.408	6.06
92) TP	trans-1,4-Dich			0.106	0.127	0.134	0.139	0.134	0.129	0.128	9.28
93) TP	4-Chlorotoluene		1.517	1.955	1.950	2.128	2.139	2.068	2.216	1.996	11.66
94) TP	tert-Butylbenzene		1.517	1.965	1.901	2.150	2.211	2.185	2.380	2.044	13.78
97) TP	1,2,4-Trimethy		1.795	2.233	2.219	2.486	2.562	2.504	2.690	2.356	12.75
98) TP	sec-Butylbenzene		2.302	2.838	2.770	3.227	3.294	3.252	3.457	3.020	13.34
99) TP	p-Isopropyltol		1.687	2.286	2.258	2.647	2.770	2.739	2.965	2.479	17.50
100) TP	1,3-Dichlorobe		1.070	1.234	1.227	1.354	1.389	1.341	1.435	1.293	9.62
101) TP	1,4-Dichlorobe		1.208	1.312	1.233	1.337	1.368	1.333	1.427	1.317	5.75
102) TP	p-Diethylbenzene		0.897	1.250	1.240	1.447	1.514	1.494	1.646	1.355	18.36
103) TP	n-Butylbenzene		1.443	1.911	1.923	2.213	2.254	2.178	2.317	2.034	14.99
104) TP	1,2-Dichlorobe		1.007	1.092	1.094	1.160	1.200	1.154	1.222	1.133	6.51
105) TP	1,2,4,5-Tetram		1.301	1.588	1.641	1.854	1.996	1.980	2.249	1.801	17.48
106) TP	1,2-Dibromo-3-		0.008	0.044	0.046	0.051	0.058	0.058	0.060	*L	0.9983
107) TP	1,3,5-Trichlor		0.515	0.592	0.607	0.642	0.674	0.669	0.766	0.638	12.32
108) TP	Hexachlorobuta		0.165	0.206	0.189	0.216	0.216	0.226	0.264	0.212	14.49
109) TP	1,2,4-Trichlor		0.388	0.455	0.483	0.505	0.532	0.533	0.622	0.502	14.52
110) TP	Naphthalene		0.936	0.920	0.979	1.024	1.113	1.122	1.142	1.034	8.95
111) TP	1,2,3-Trichlor		0.316	0.362	0.373	0.383	0.408	0.410	0.440	0.385#	10.45

Response Factor Report VOA 108

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

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

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

Response Factor Report VOA 108

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

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

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

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

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

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

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

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

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

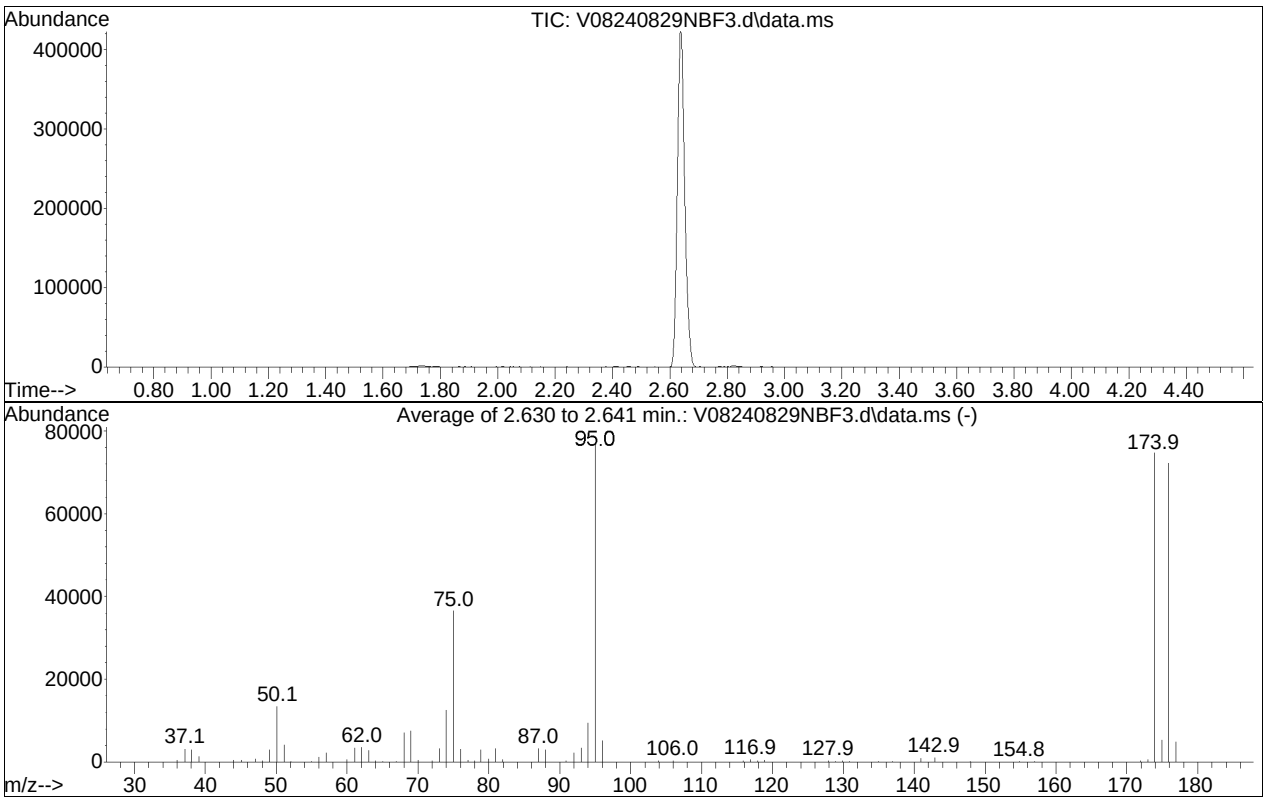
(#) = Out of Range

BFB

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

Integration File: rteint.p

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



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

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

Quantitation Report (QT Reviewed)

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

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

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

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

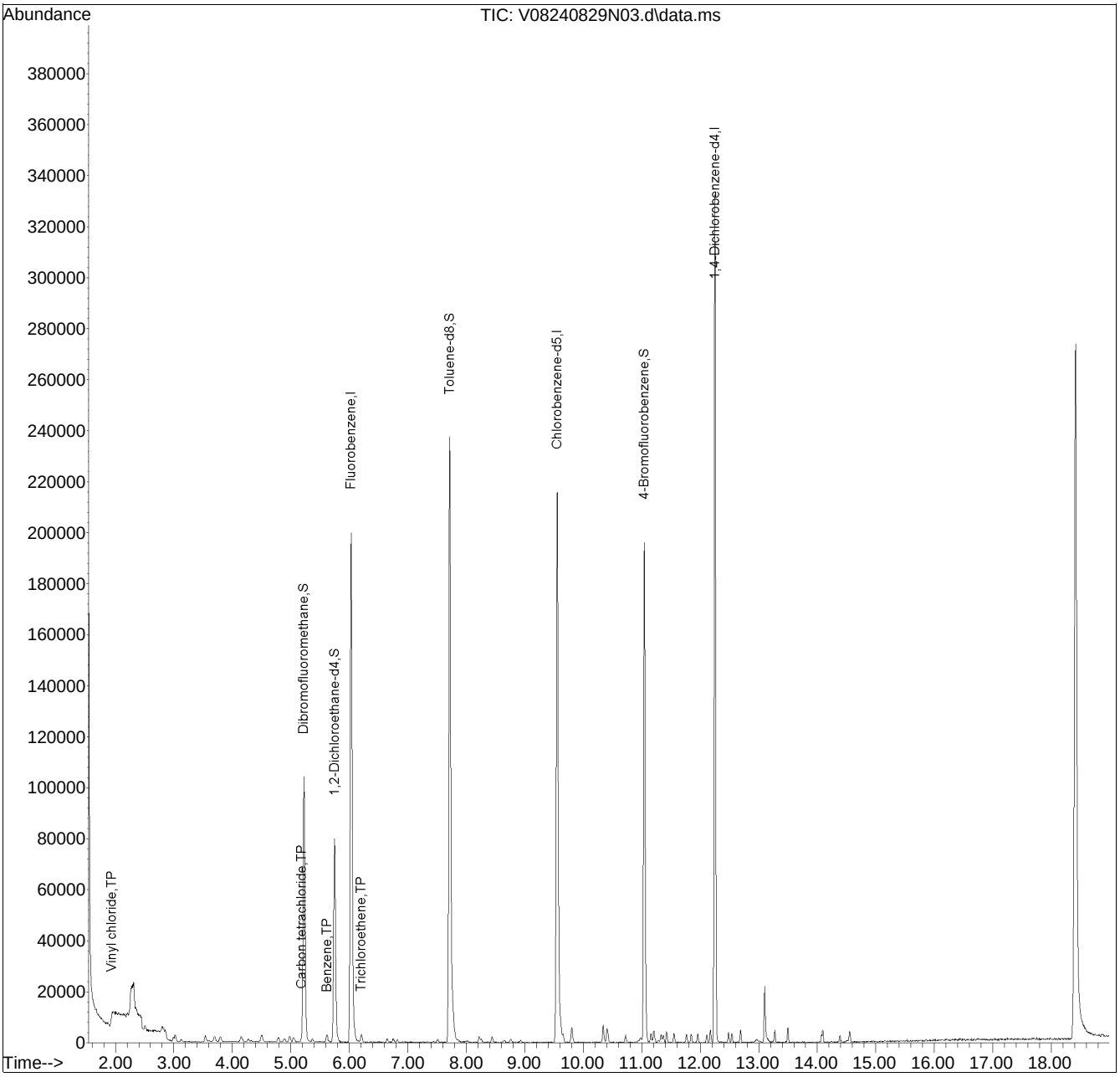
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

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



Manual Integration Report

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

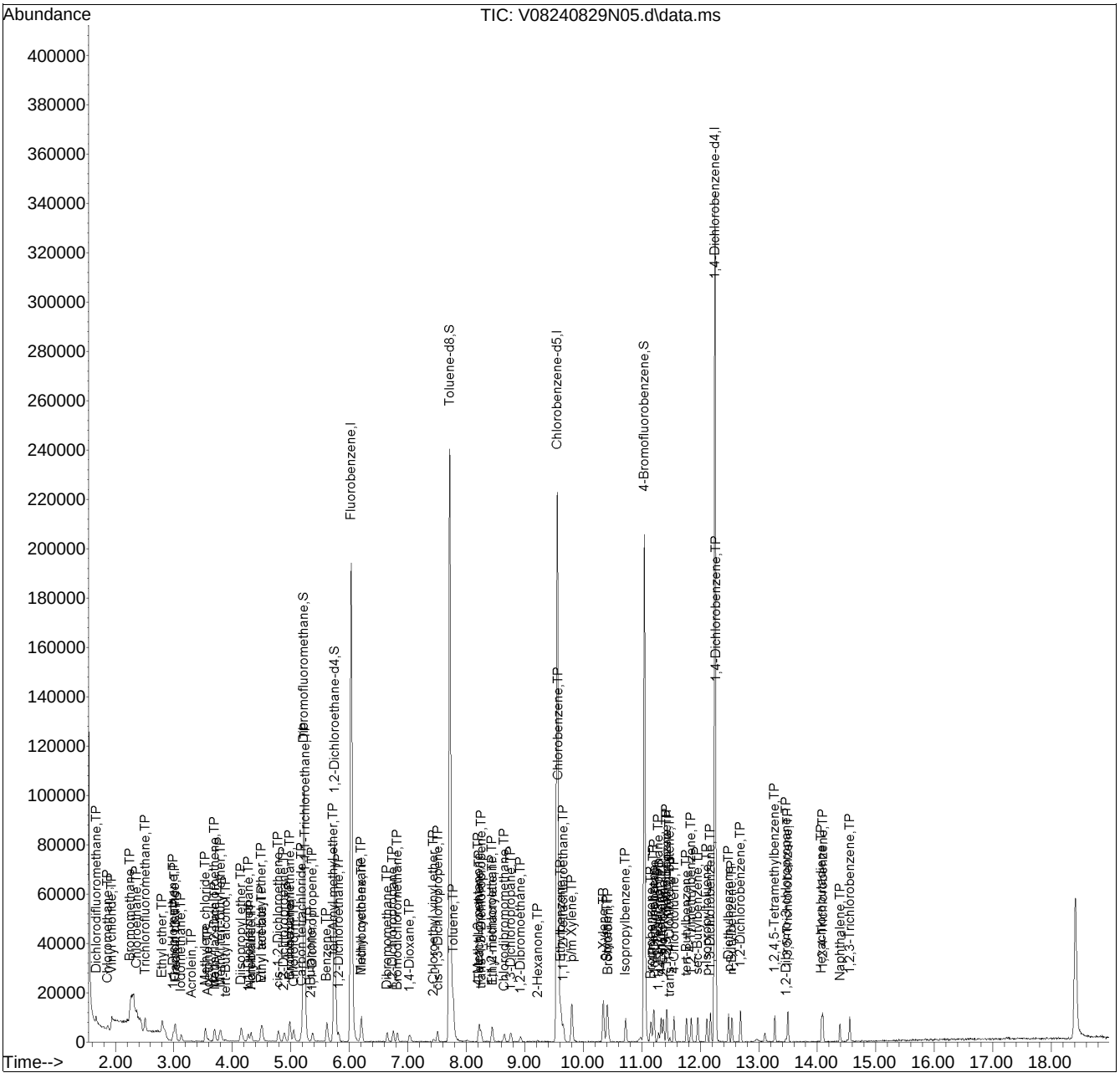
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

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

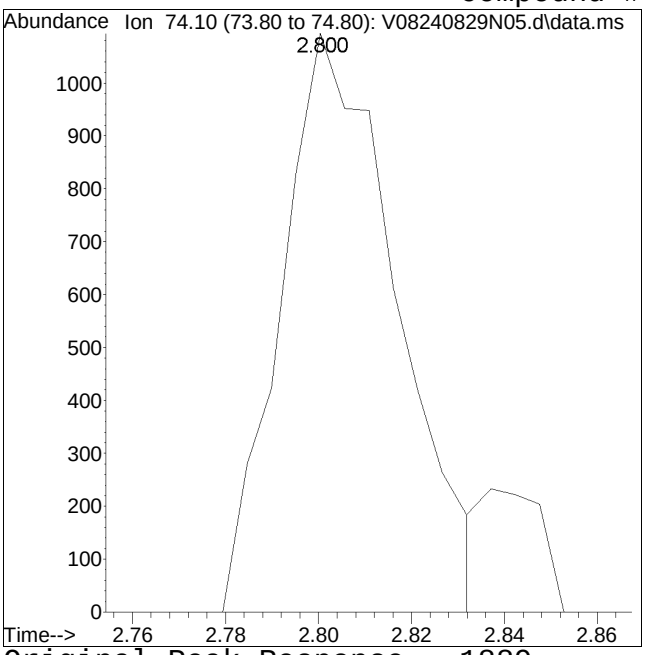


Manual Integration Report

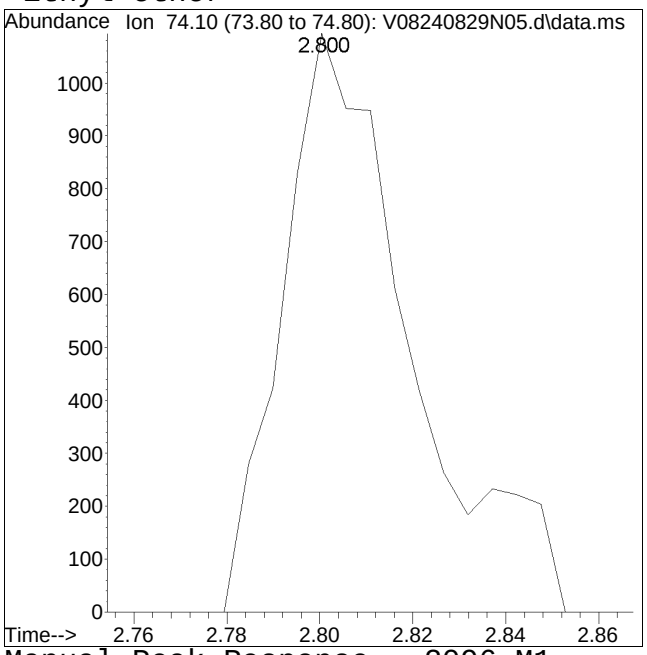
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

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

Compound #8: Ethyl ether



Original Peak Response = 1889



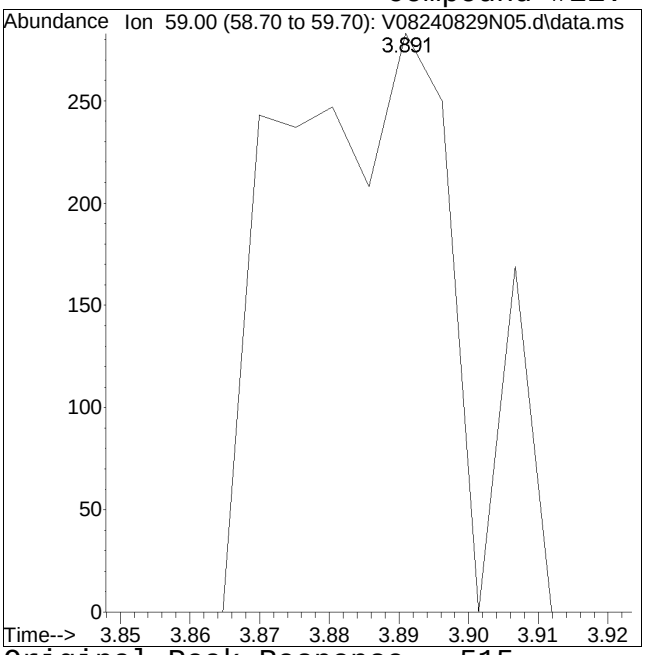
Manual Peak Response = 2096 M1

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

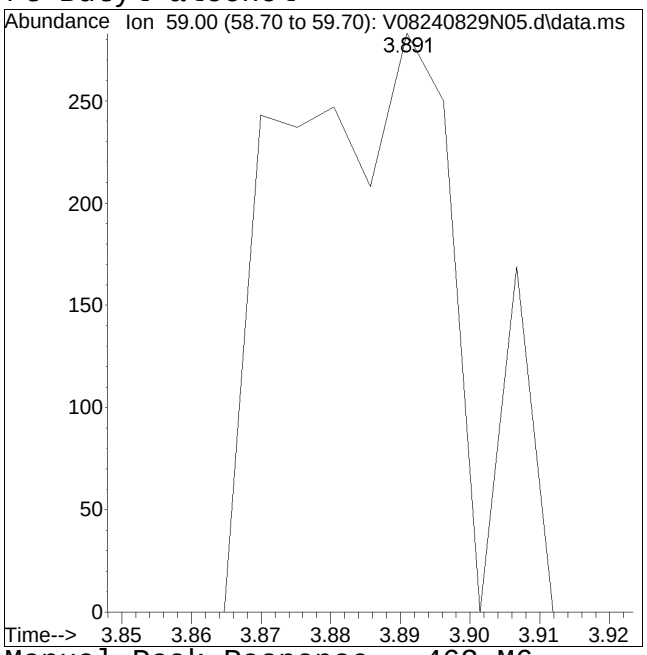
Manual Integration Report

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

Compound #21: tert-Butyl alcohol



Original Peak Response = 515



Manual Peak Response = 462 M6

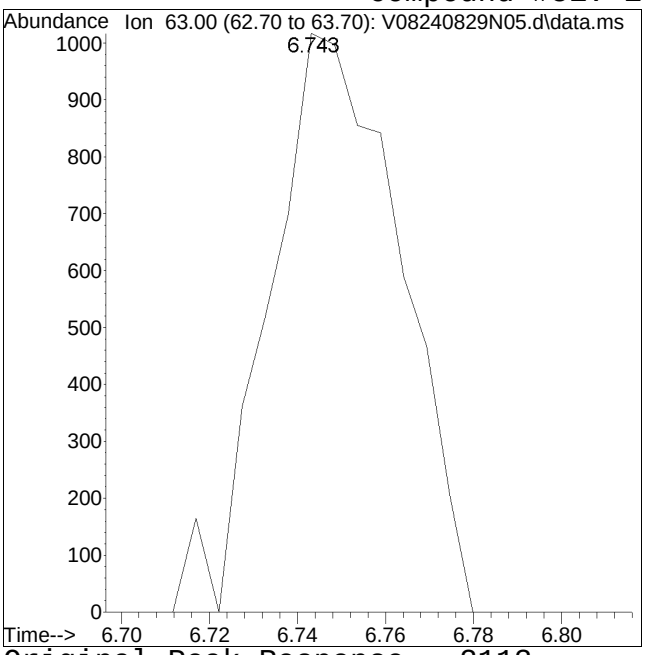
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

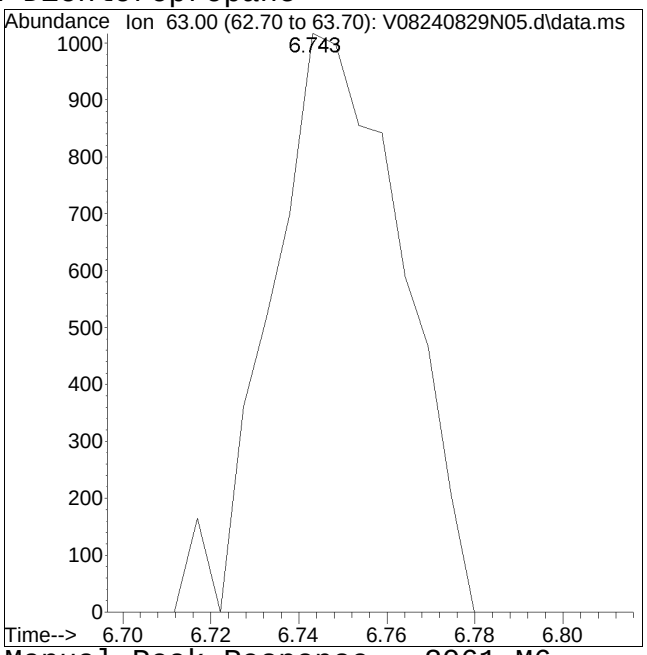
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

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

Compound #51: 1,2-Dichloropropane



Original Peak Response = 2113



Manual Peak Response = 2061 M6

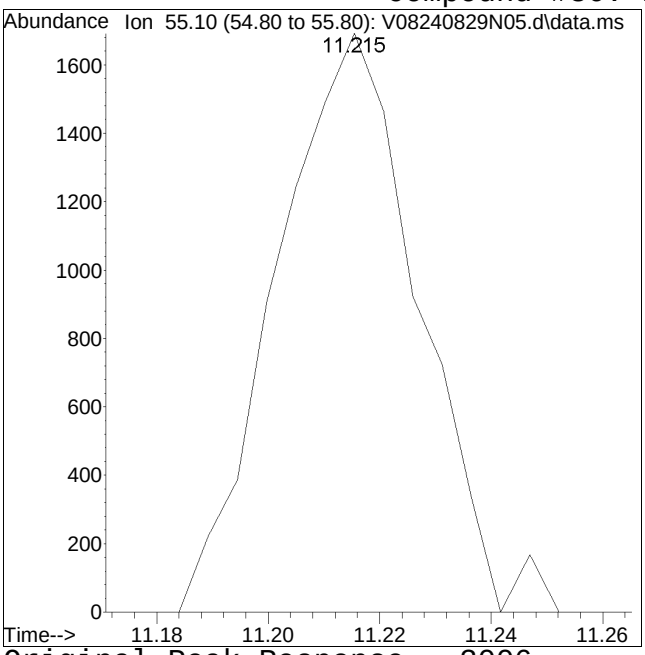
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

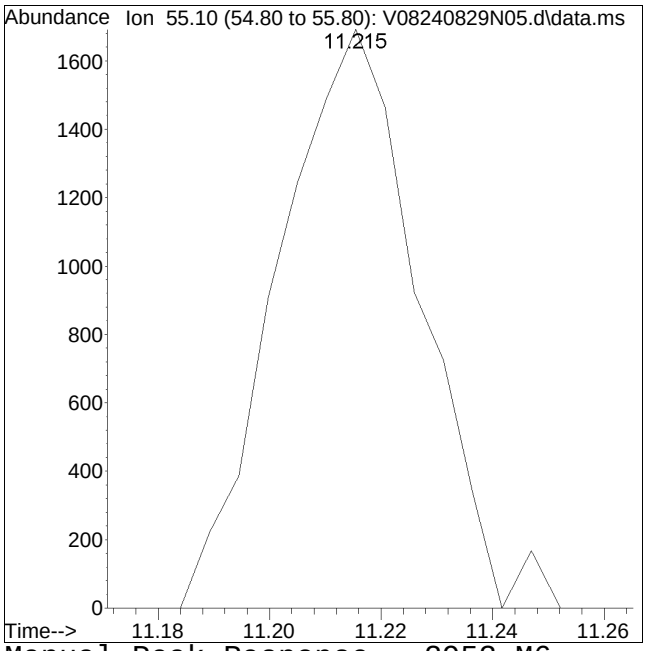
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

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

Compound #86: 1,4-Dichlorobutane



Original Peak Response = 3006



Manual Peak Response = 2953 M6

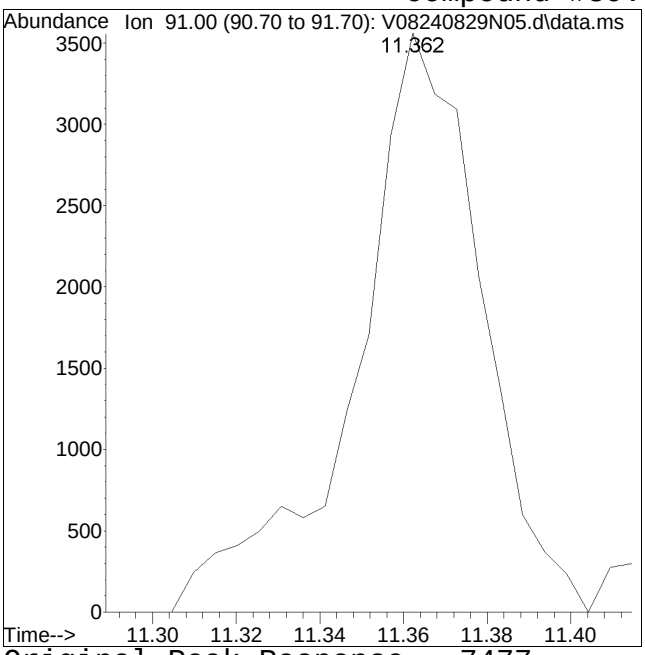
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

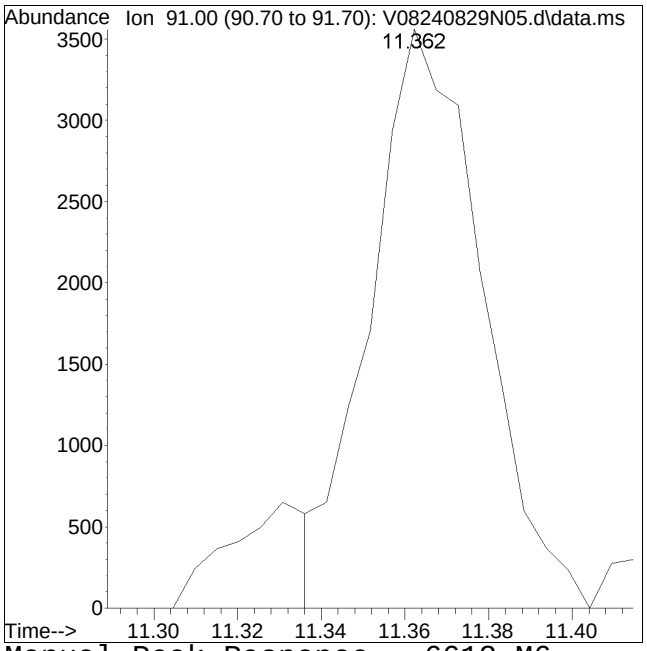
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 7477



Manual Peak Response = 6612 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

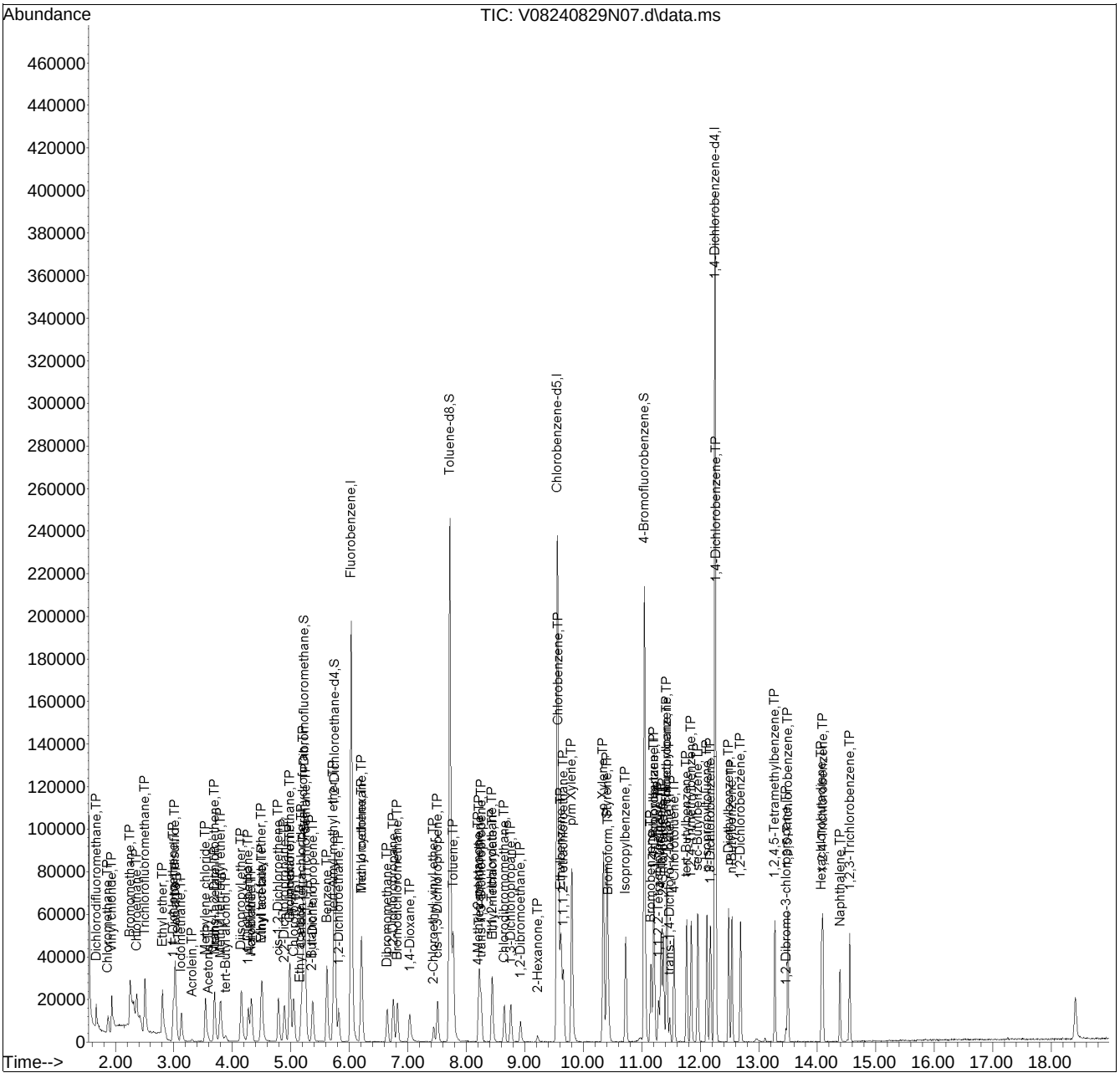
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

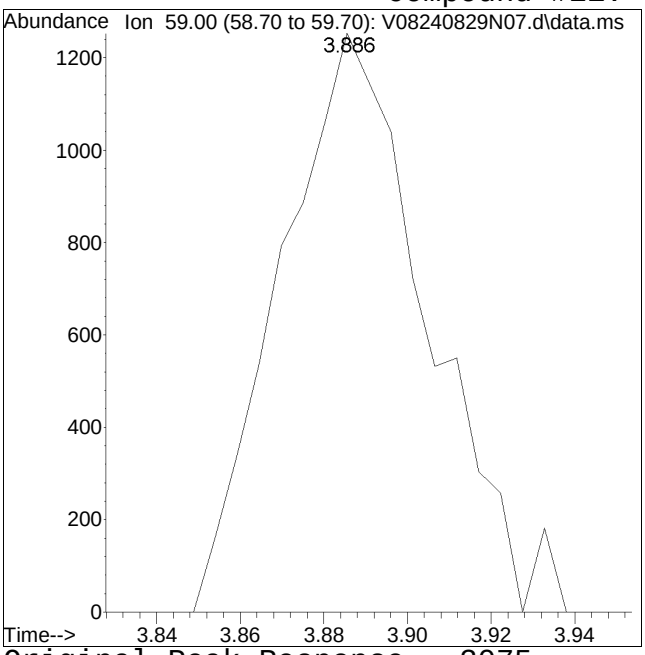
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



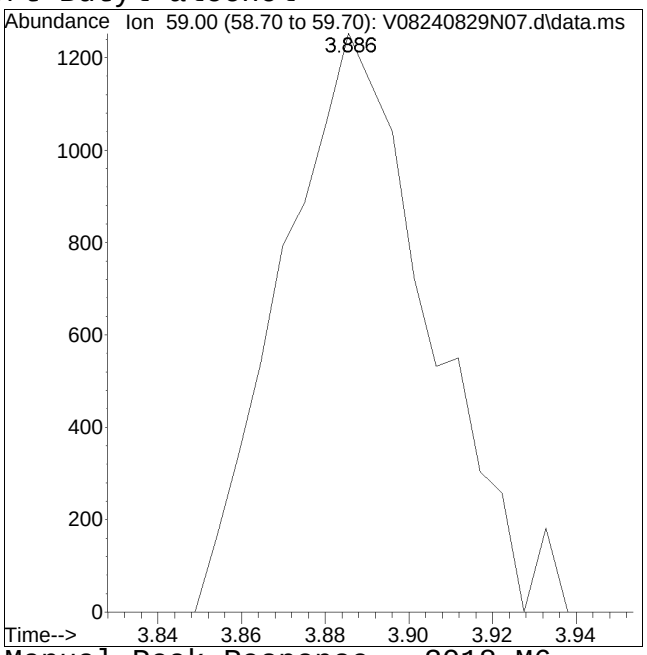
Manual Integration Report

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

Compound #21: tert-Butyl alcohol



Original Peak Response = 3075



Manual Peak Response = 3018 M6

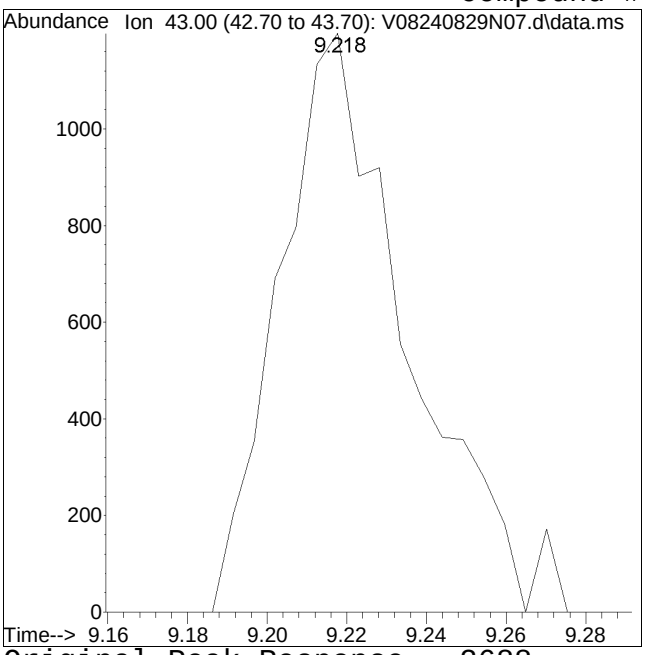
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

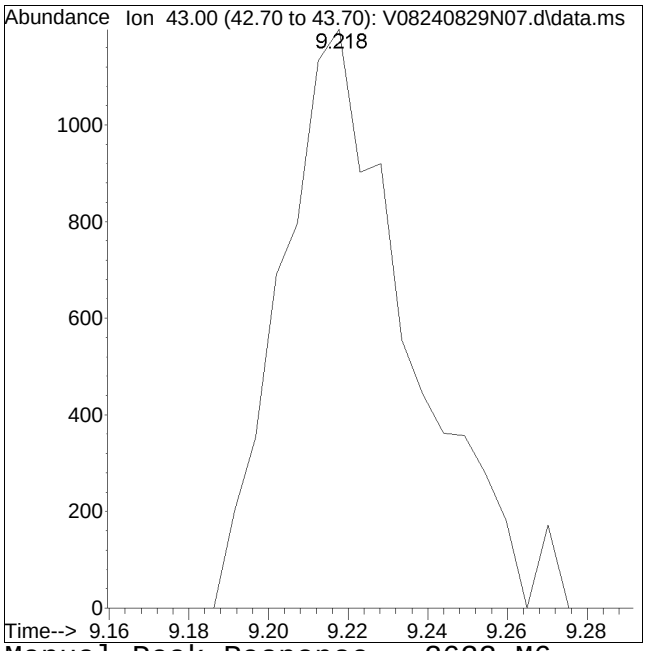
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N07.d
Date Inj'd : 8/29/2024 6:55 pm
Sample : I8260STD2PPB

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

Compound #72: 2-Hexanone



Original Peak Response = 2688



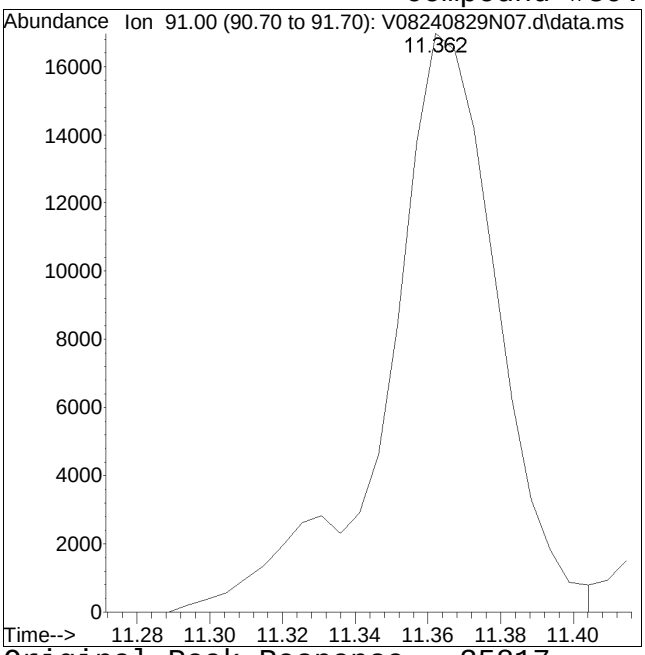
Manual Peak Response = 2633 M6

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

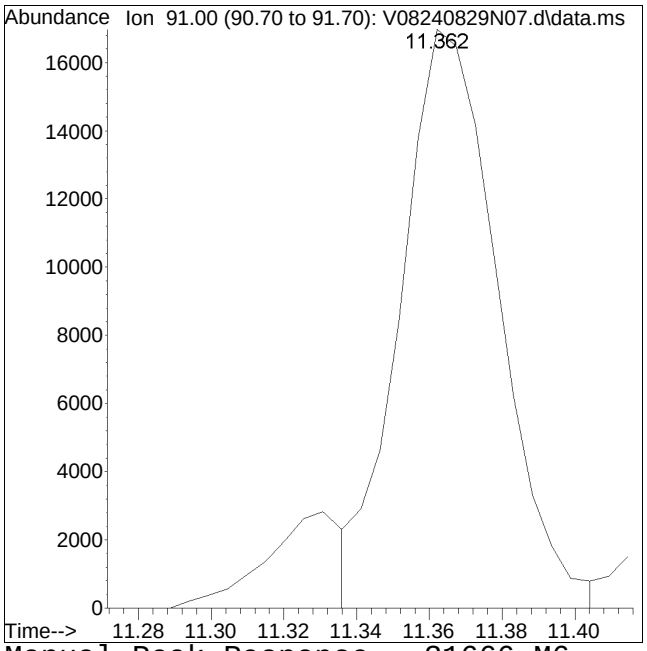
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 35817



Manual Peak Response = 31666 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

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

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

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

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

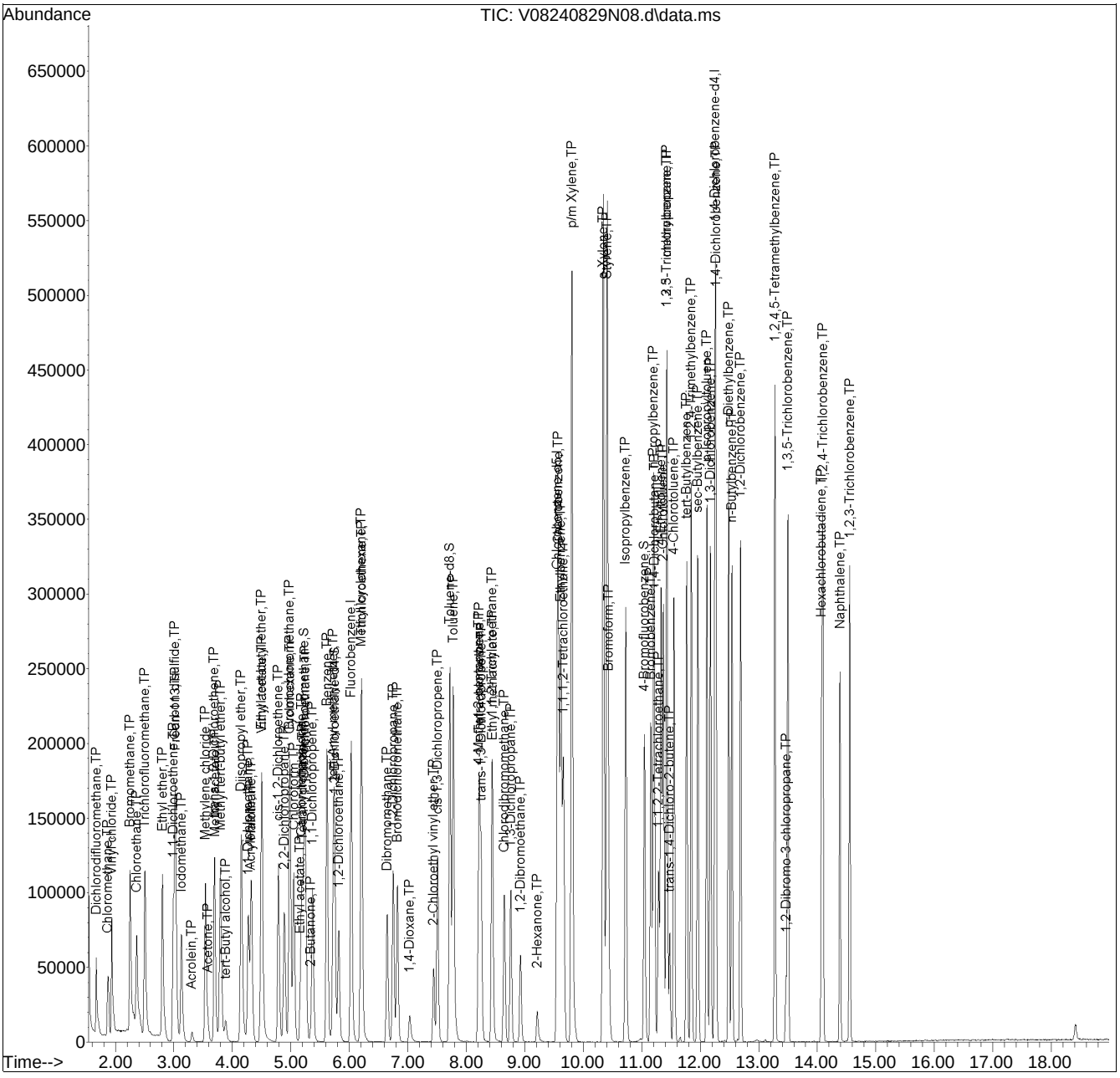
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

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

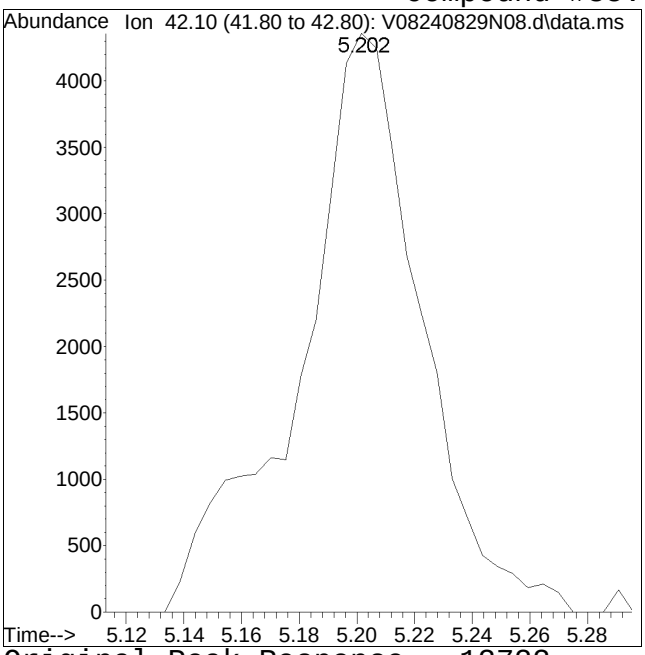


Manual Integration Report

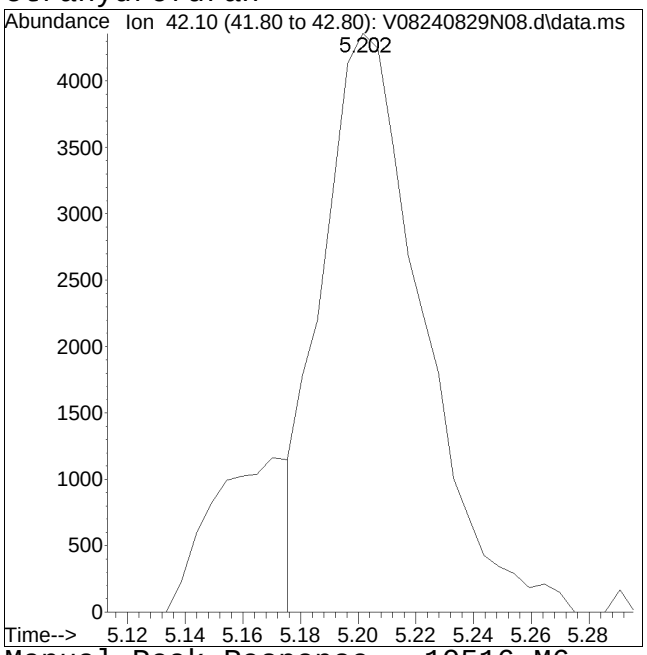
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N08.d
Date Inj'd : 8/29/2024 7:17 pm
Sample : I8260STD10PPB

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

Compound #35: Tetrahydrofuran



Original Peak Response = 12722



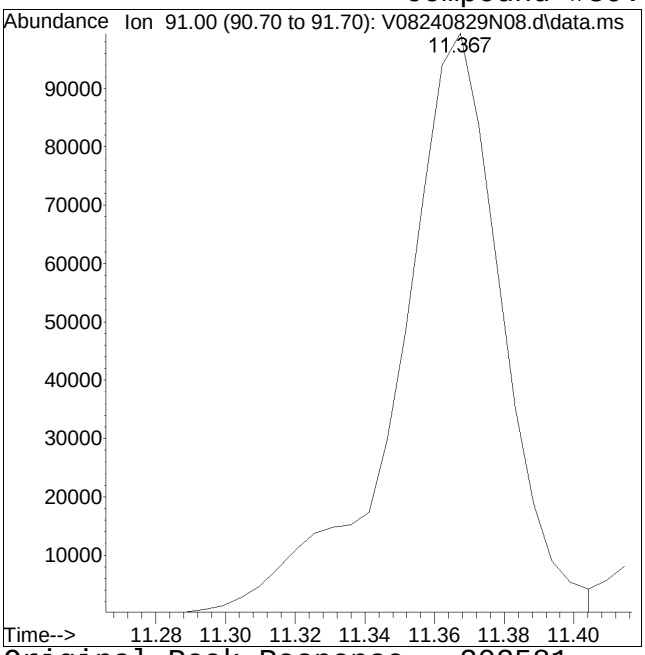
Manual Peak Response = 10516 M6

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

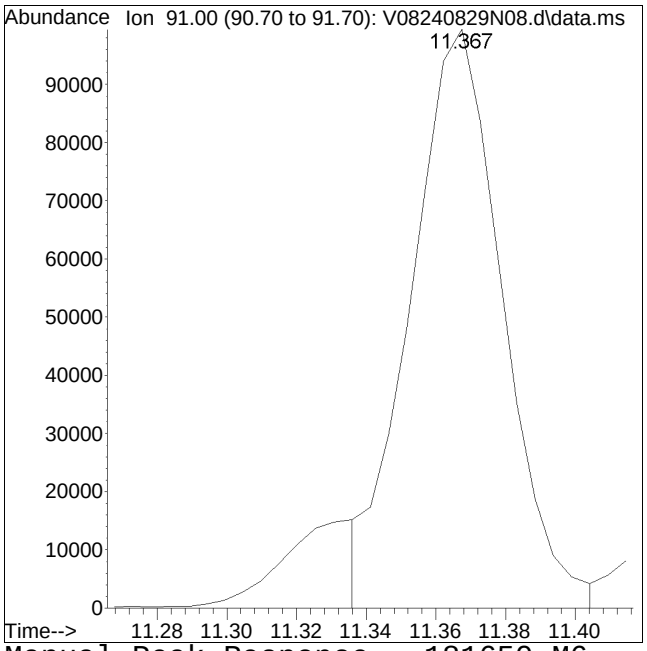
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 202581



Manual Peak Response = 181650 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

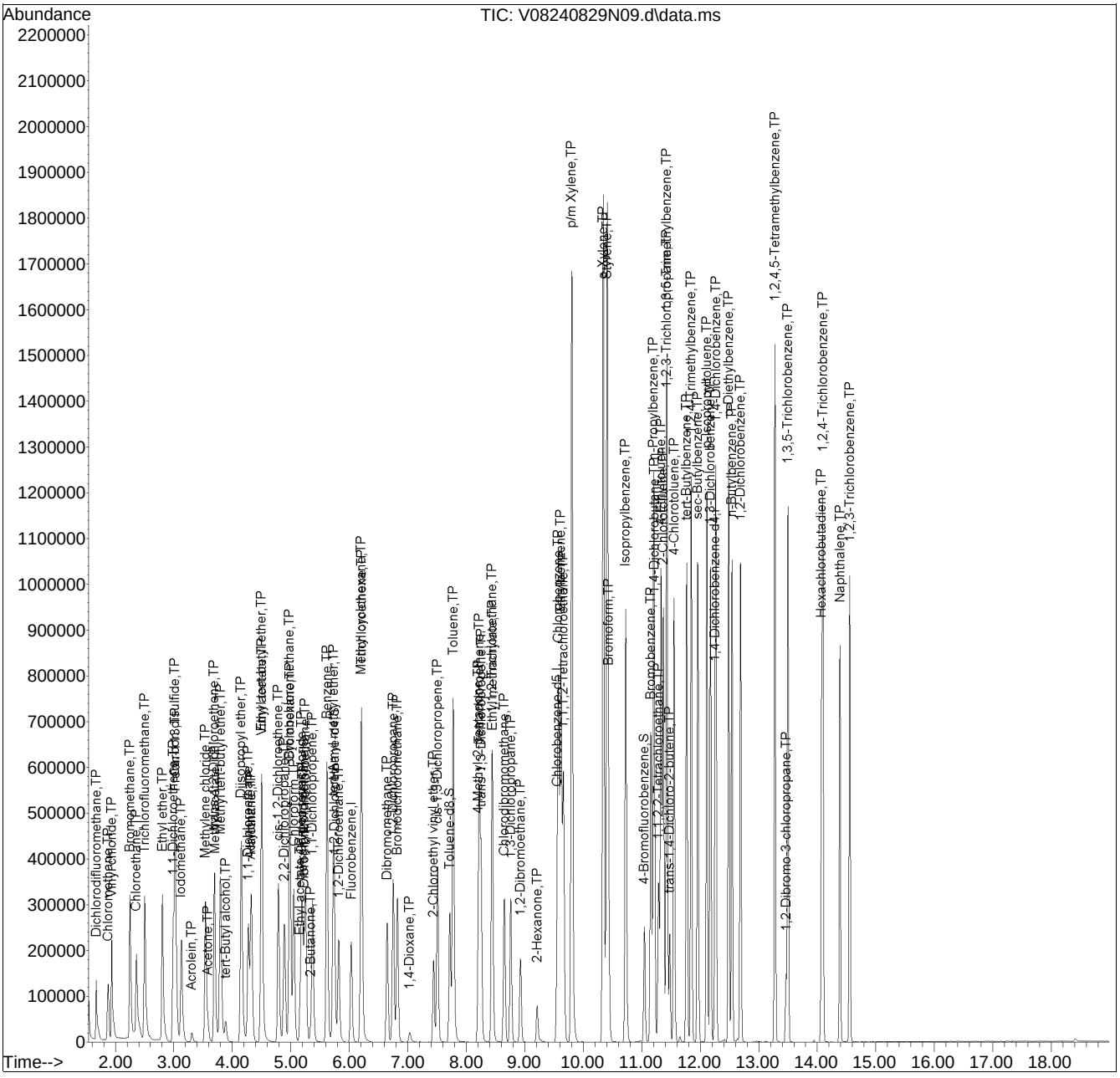
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

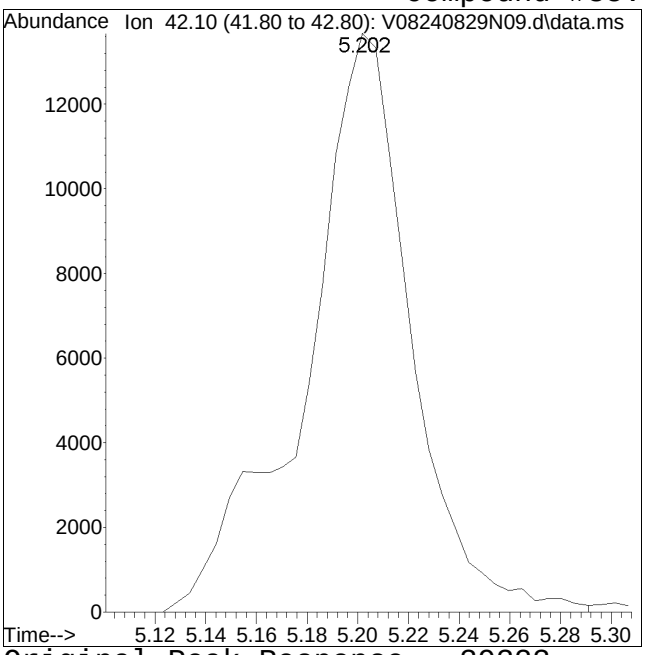
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



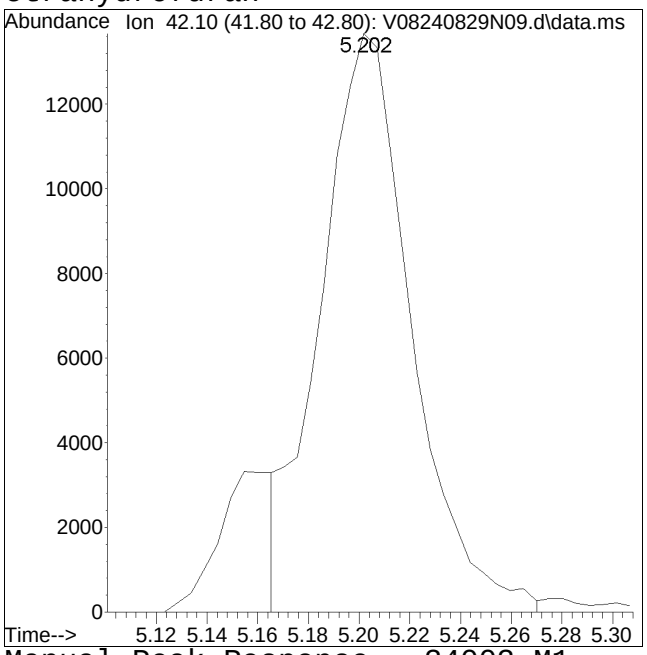
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 39323



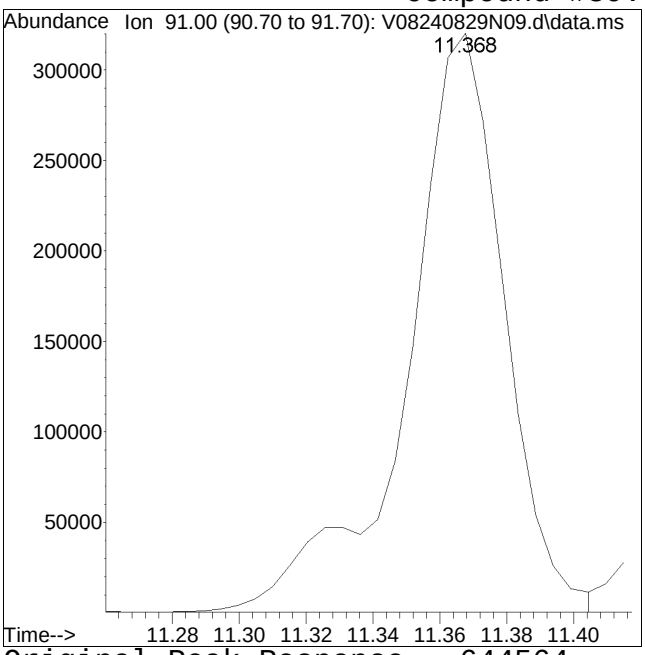
Manual Peak Response = 34003 M1

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

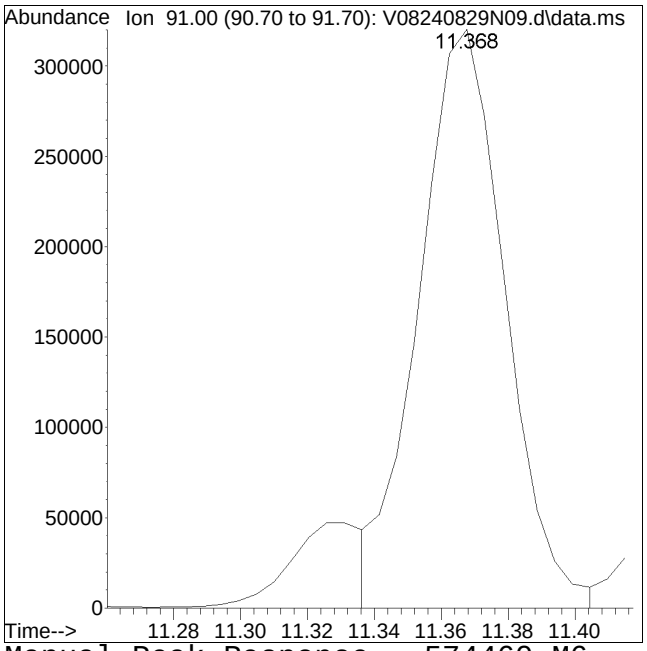
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 644564



Manual Peak Response = 574460 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

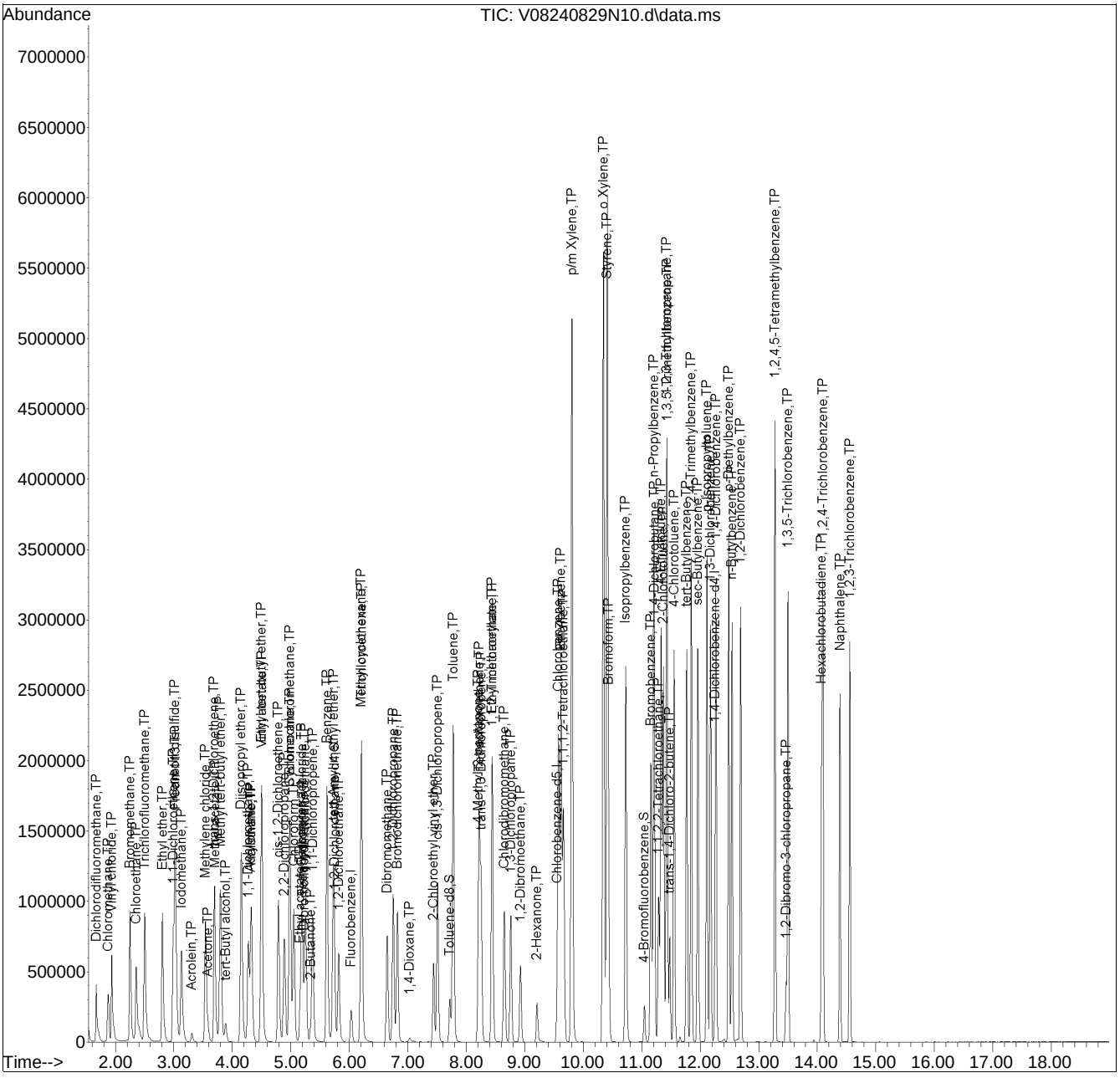
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

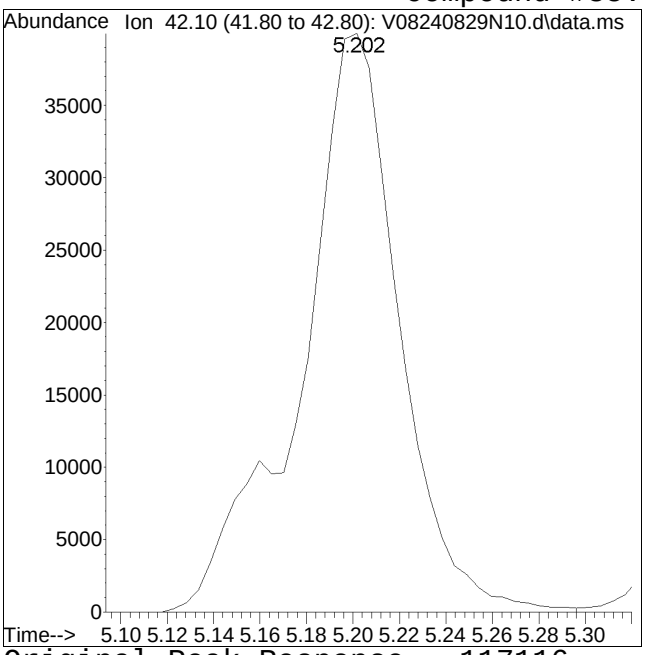
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



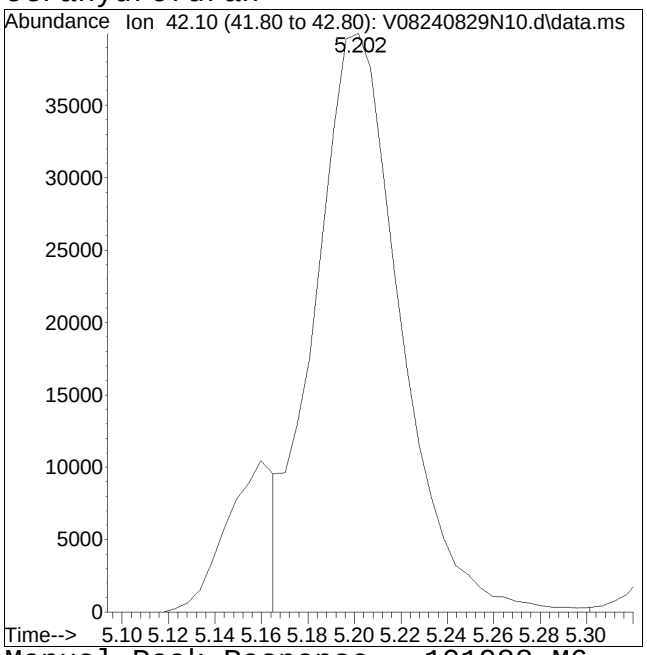
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 117116



Manual Peak Response = 101988 M6

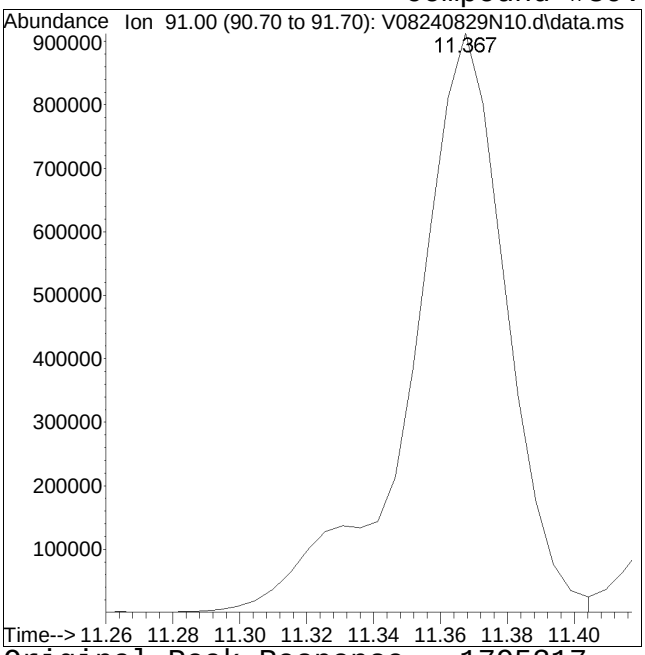
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

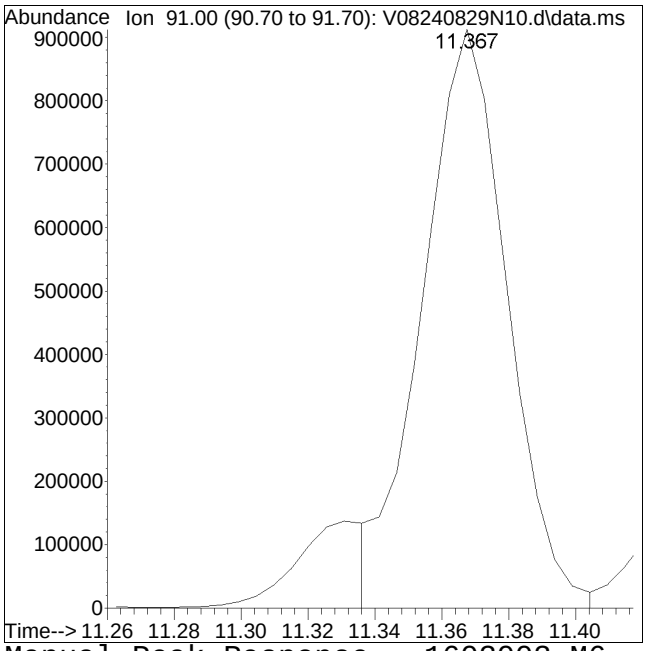
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N10.d
Date Inj'd : 8/29/2024 8:02 pm
Sample : I8260STD80PPB

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 1795317



Manual Peak Response = 1603003 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

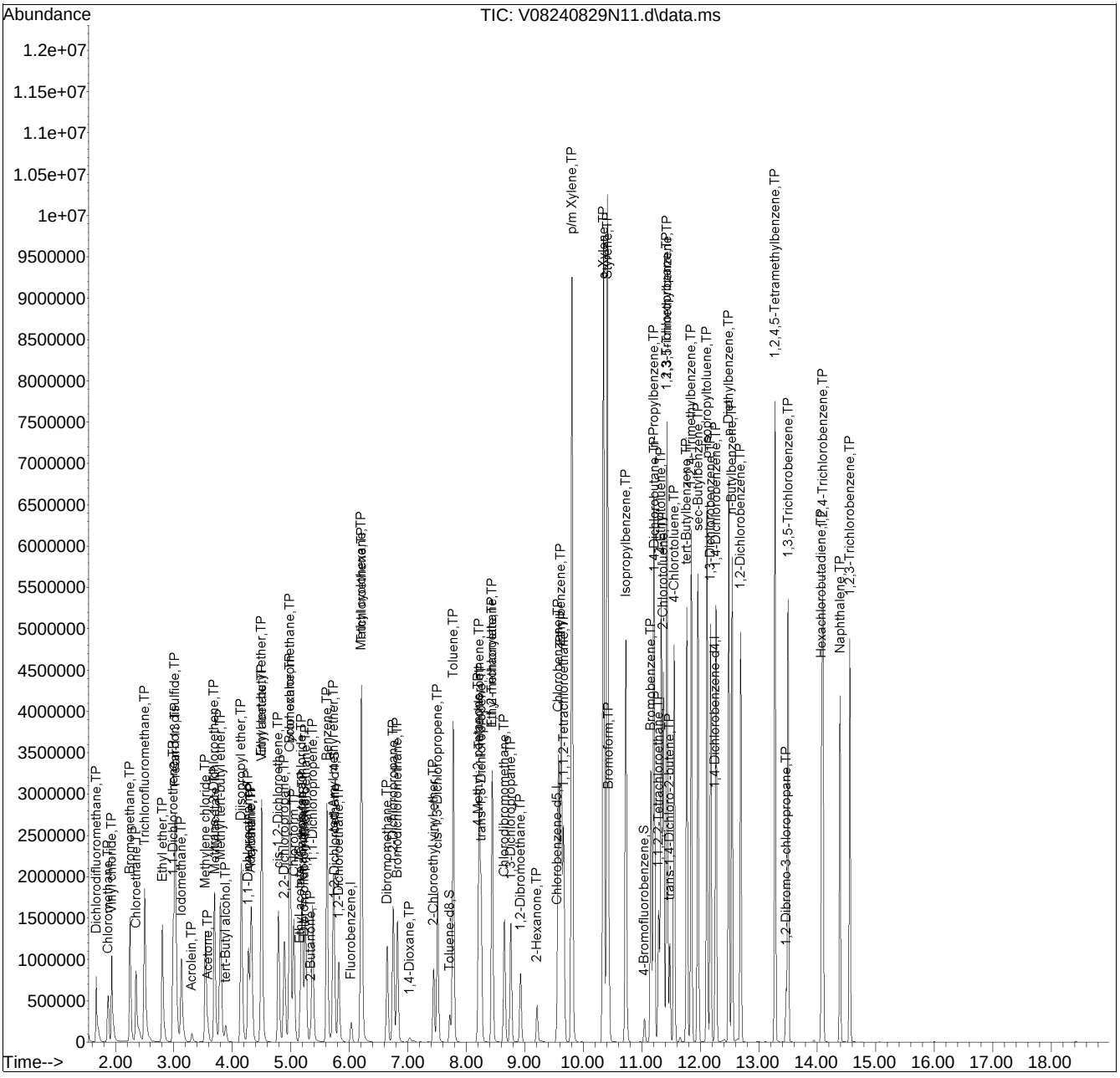
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

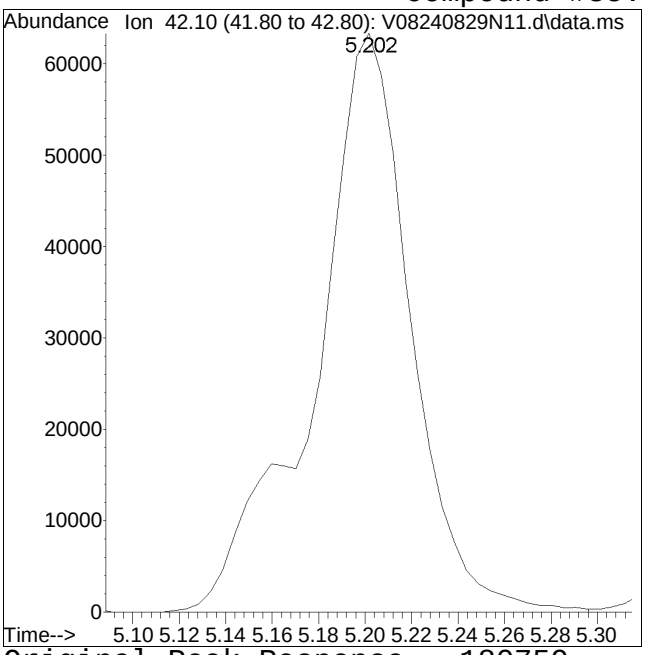
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



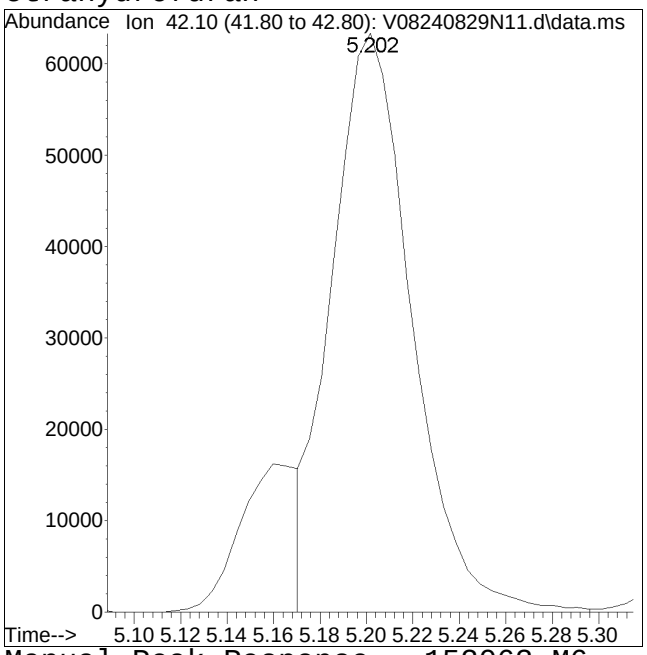
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 180759



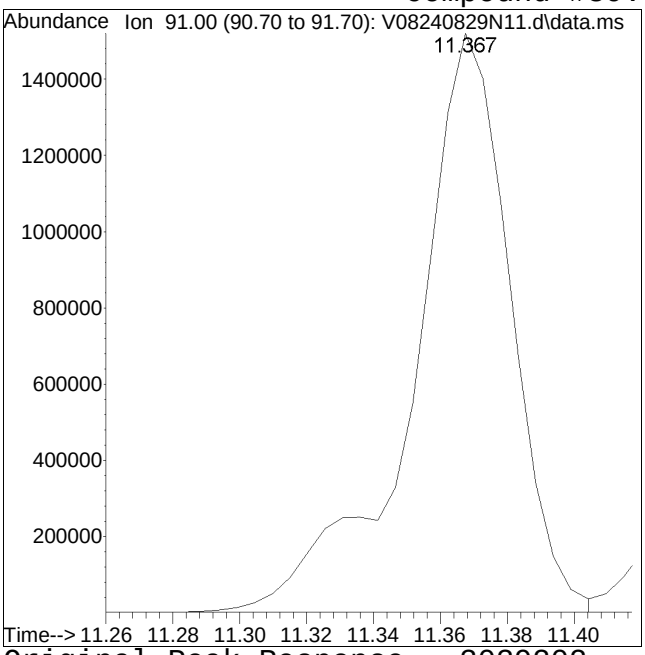
Manual Peak Response = 152063 M6

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

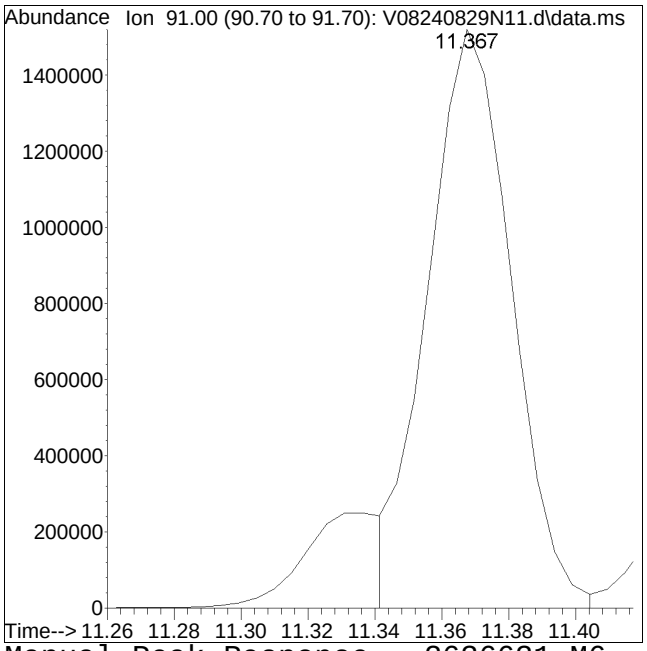
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 3039202



Manual Peak Response = 2636631 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

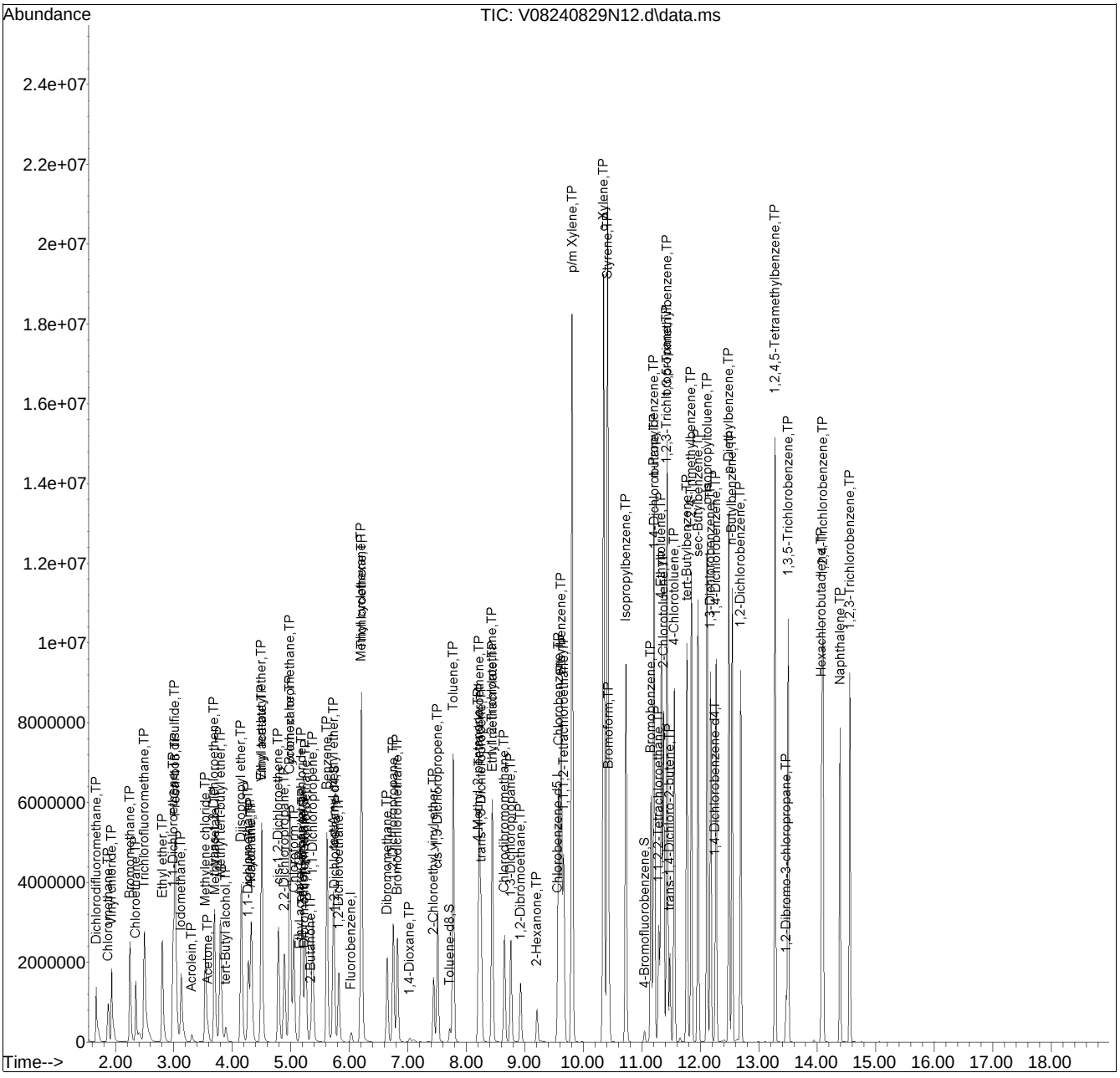
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

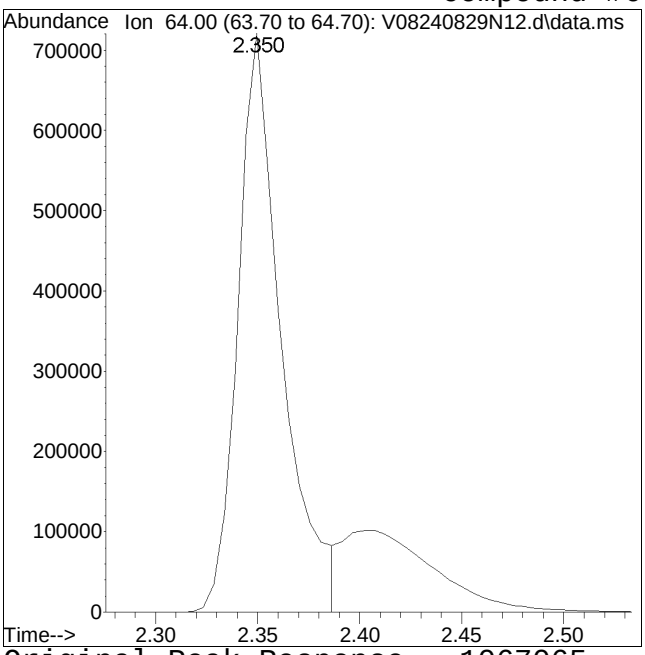
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•

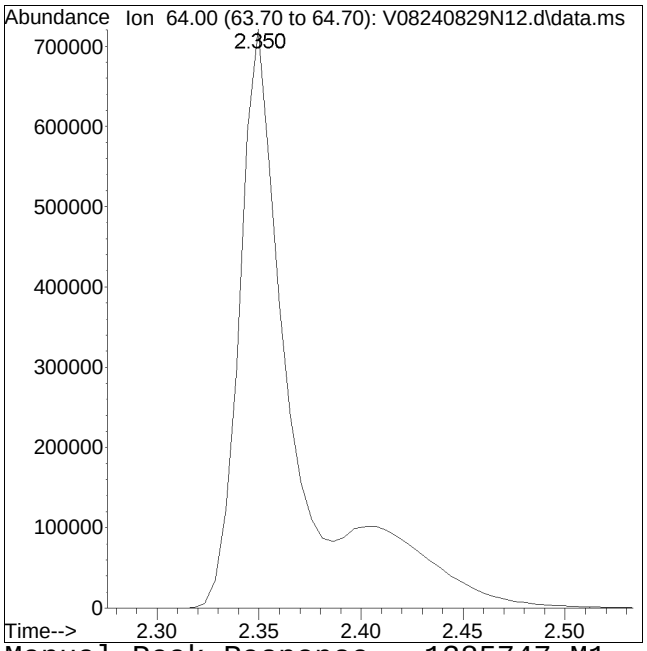


Manual Integration Report

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

Compound #6: Chloroethane



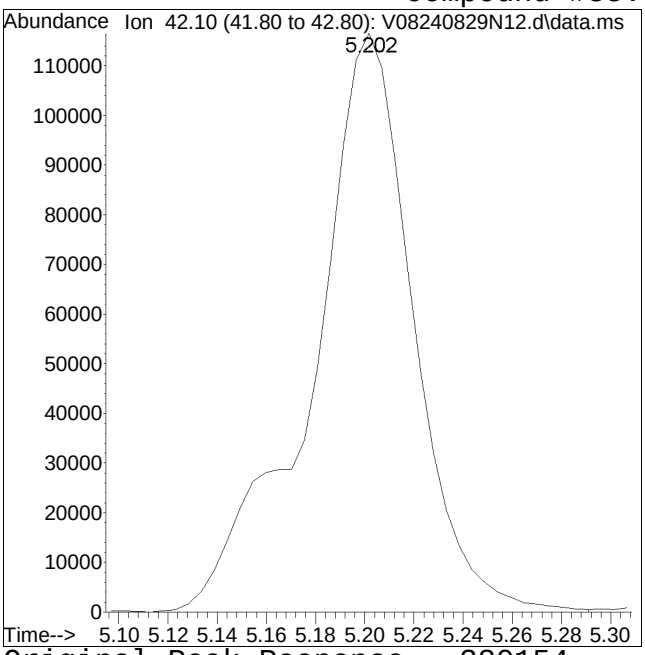


Original Peak Response = 1067065 Manual Peak Response = 1385747 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

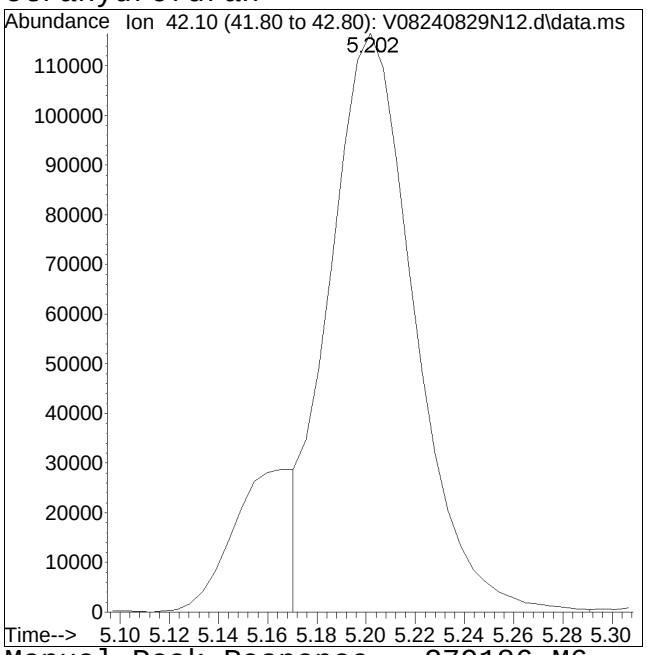
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 330154



Manual Peak Response = 279186 M6

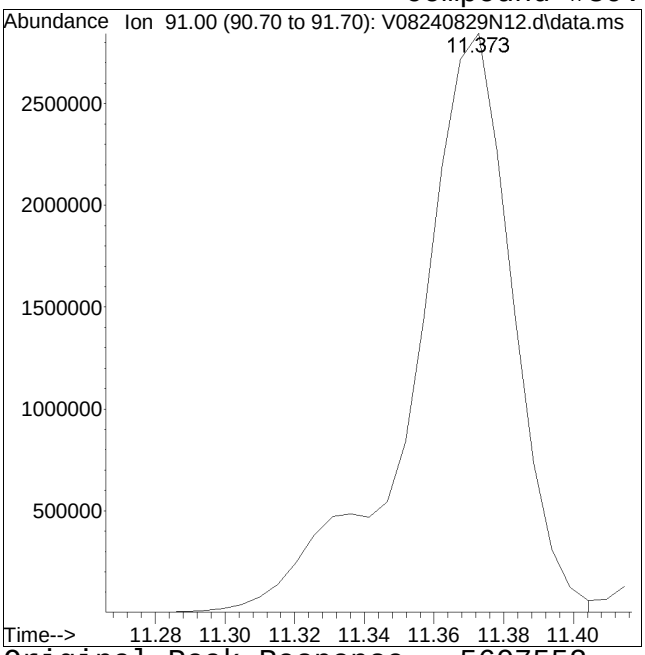
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

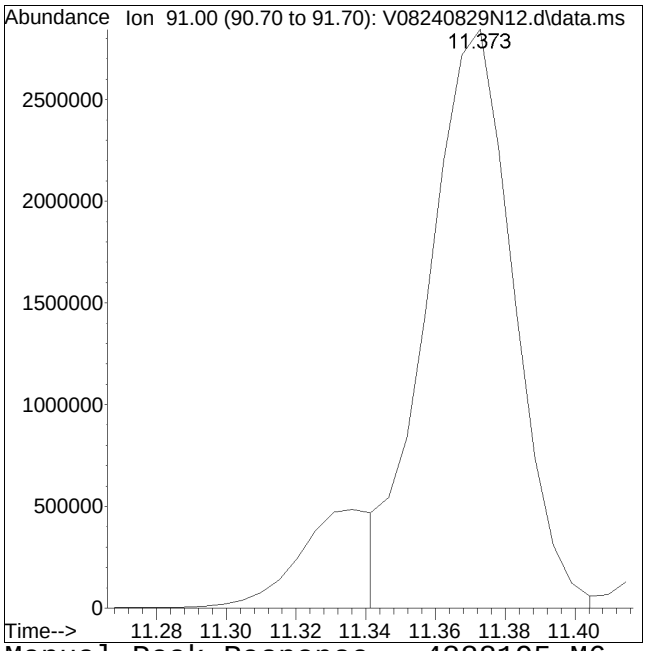
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N12.d
Date Inj'd : 8/29/2024 8:47 pm
Sample : I8260STD200PPB

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 5607552



Manual Peak Response = 4888195 M6

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

Evaluate Continuing Calibration Report

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

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

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

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

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

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

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

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

Evaluate Continuing Calibration Report

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

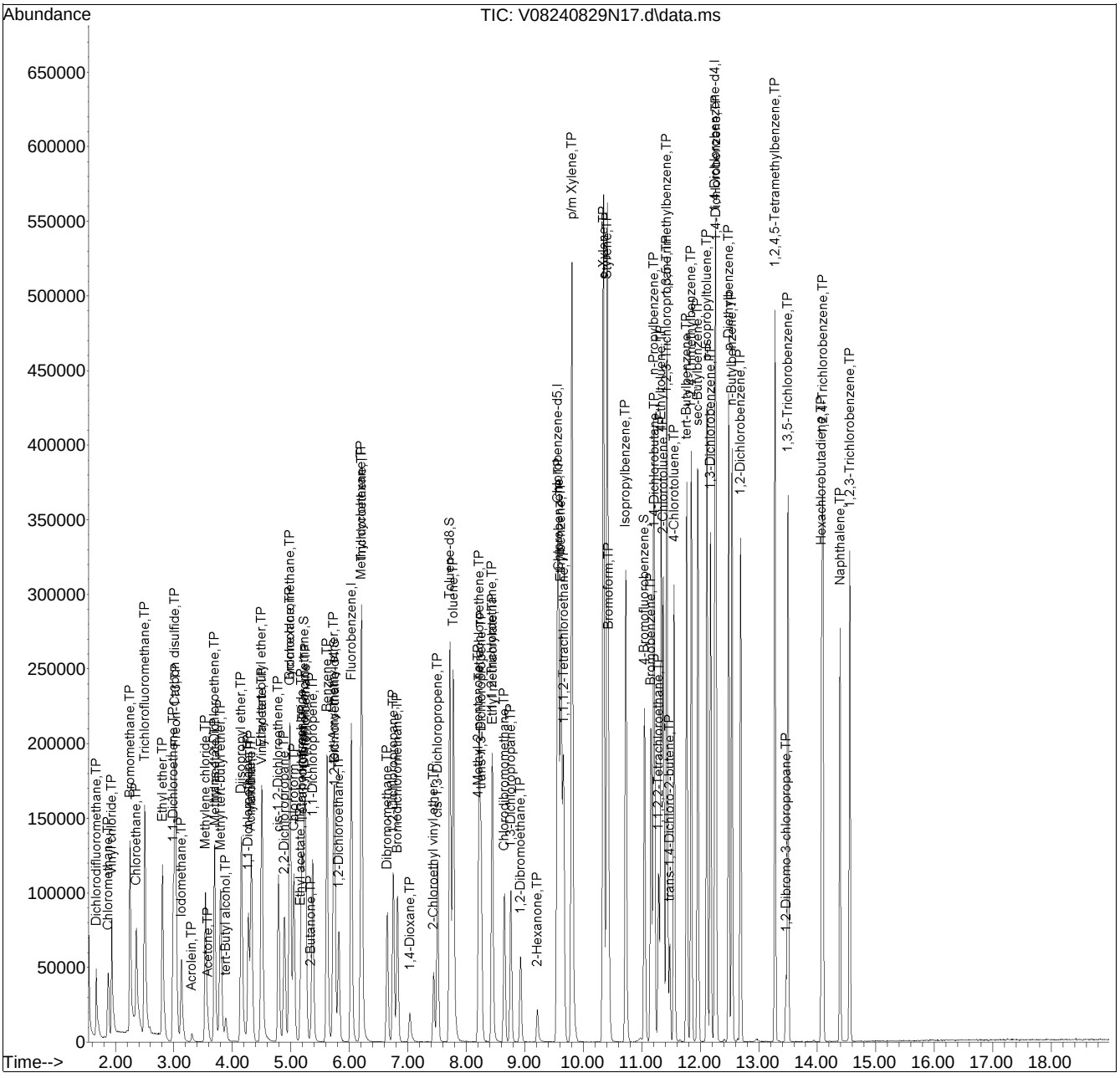
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

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

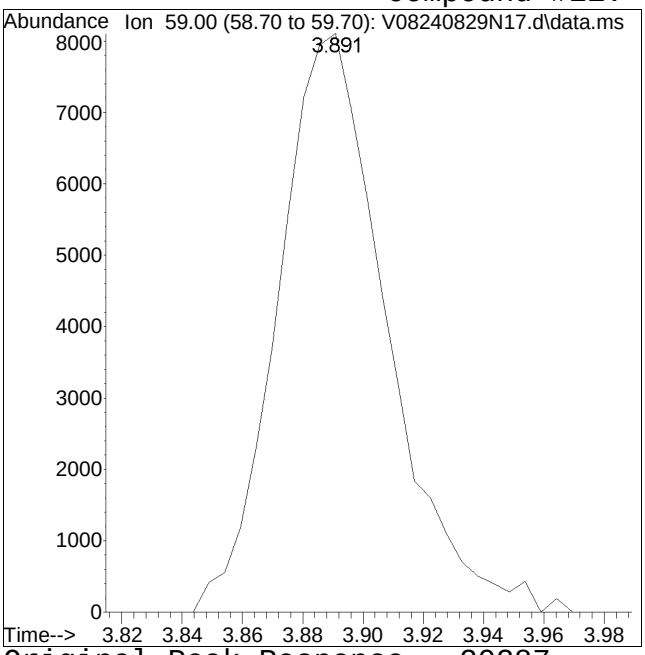


Manual Integration Report

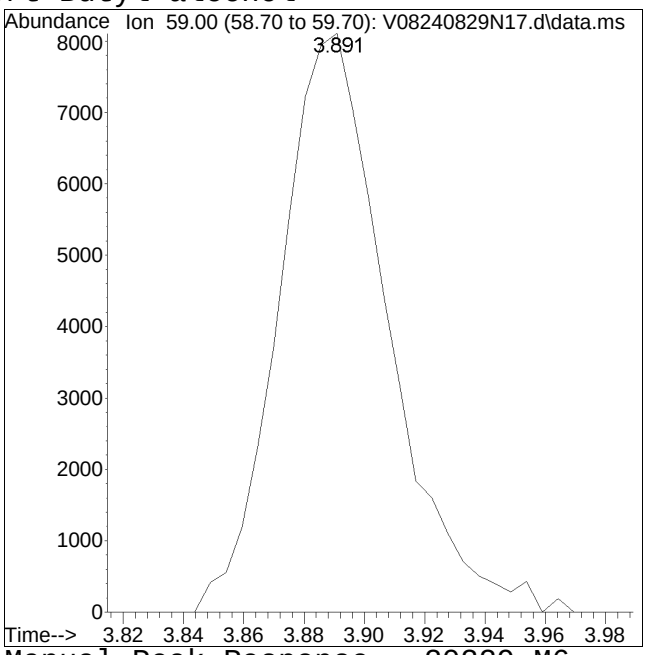
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N17.d
Date Inj'd : 8/29/2024 10:39 pm
Sample : C8260STD10PPB

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

Compound #21: tert-Butyl alcohol



Original Peak Response = 20287



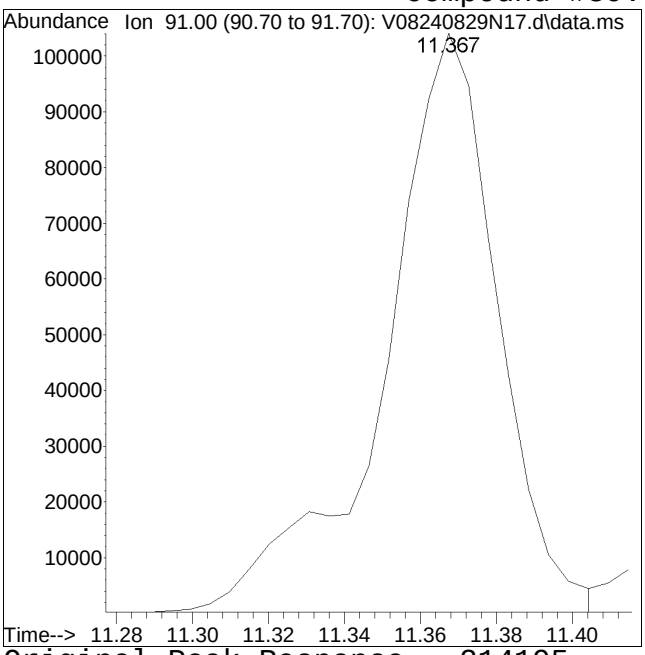
Manual Peak Response = 20229 M6

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

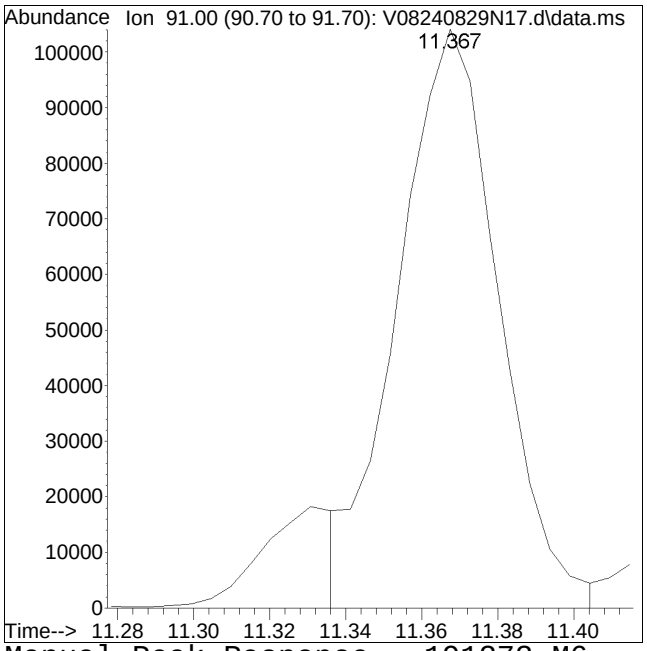
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 214195



Manual Peak Response = 191273 M6

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

Evaluate Relative Error Report VOA 108

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

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

Calibration Correlation Report

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

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\240911NICAL\
Method File : V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.218	0.291	0.250	0.272	0.283	0.277	0.290	0.269	9.76
3)	TP	Chloromethane		0.314	0.335	0.237	0.248	0.256	0.247	0.261	0.271	13.92
4)	TP	Vinyl chloride	0.335	0.349	0.408	0.333	0.354	0.353	0.341	0.366	0.355	6.79
5)	TP	Bromomethane		0.213	0.241	0.225	0.264	0.299	0.301	0.332	0.268	16.59
6)	TP	Chloroethane		0.567	0.497	0.357	0.359	0.353	0.323		*L	0.9973
7)	TP	Trichlorofluor...		0.733	0.916	0.794	0.841	0.833	0.788	0.801	0.815	6.97
8)	TP	Ethyl ether		0.219	0.231	0.209	0.206	0.209	0.201	0.198	0.210	5.34
10)	TP	1,1-Dichloroet...		0.191	0.213	0.214	0.214	0.253	0.228		0.219	9.48
11)	TP	Carbon disulfide		0.686	0.619	0.570	0.604	0.672	0.702	0.851	0.672	13.72
12)	TP	Freon-113		0.178	0.231	0.207	0.227	0.247	0.255	0.312	0.237	17.79
13)	TP	Iodomethane			0.242	0.274	0.325	0.351	0.351	0.375	0.320	16.02
14)	TP	Acrolein			0.014	0.017	0.019	0.022	0.022	0.023	0.020	17.50
15)	TP	Methylene chlo...		0.275	0.247	0.217	0.229	0.241	0.236	0.251	0.242	7.53
17)	TP	Acetone			0.063	0.044	0.038	0.038	0.038	0.037	*L	0.9997
18)	TP	trans-1,2-Dich...		0.207	0.240	0.216	0.236	0.249	0.250	0.275	0.239	9.40
19)	TP	Methyl acetate		0.107	0.108	0.085	0.088	0.101	0.098	0.097	0.098	9.02
20)	TP	Methyl tert-bu...		0.487	0.532	0.509	0.539	0.590	0.589	0.609	0.551	8.39
21)	TP	tert-Butyl alc...			0.009	0.010	0.010	0.012	0.012	0.012	0.011	11.65
22)	TP	Diisopropyl ether		0.619	0.710	0.678	0.720	0.764	0.746	0.785	0.717	7.79
23)	TP	1,1-Dichloroet...		0.368	0.450	0.407	0.438	0.459	0.447	0.469	0.434	8.06
24)	TP	Halothane		0.145	0.171	0.167	0.184	0.194	0.192	0.210	0.181	11.92
25)	TP	Acrylonitrile			0.040	0.042	0.045	0.050	0.050	0.051	0.046	10.15
26)	TP	Ethyl tert-but...		0.518	0.580	0.564	0.608	0.656	0.648	0.690	0.609	9.82
27)	TP	Vinyl acetate		0.292	0.320	0.301	0.307	0.360	0.352	0.379	0.330	10.09
28)	TP	cis-1,2-Dichlo...		0.226	0.262	0.254	0.272	0.283	0.276	0.297	0.267	8.56
29)	TP	2,2-Dichloropr...		0.260	0.323	0.311	0.351	0.365	0.350	0.371	0.333	11.61
30)	TP	Bromochloromet...		0.105	0.118	0.116	0.122	0.125	0.124	0.135	0.121	7.59
31)	TP	Cyclohexane		0.297	0.399	0.358	0.416	0.437	0.435	0.474	0.402	14.56
32)	TP	Chloroform		0.376	0.457	0.424	0.452	0.467	0.453	0.485	0.445	7.96
33)	TP	Ethyl acetate			0.125	0.124	0.136	0.149	0.145	0.147	0.138	8.00

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\240911NICAL\
Method File : V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...		0.258	0.336	0.316	0.373	0.393	0.387	0.424	0.355	15.74
35)	TP	Tetrahydrofuran			0.039	0.043	0.043	0.043	0.041	0.043	0.042	3.98
36)	S	Dibromofluorom...	0.252	0.249	0.256	0.258	0.263	0.263	0.275	0.280	0.262	4.15
37)	TP	1,1,1-Trichlor...		0.322	0.411	0.370	0.412	0.418	0.408	0.442	0.398	9.93
39)	TP	2-Butanone			0.057	0.051	0.057	0.061	0.059	0.059	0.057	5.78
40)	TP	1,1-Dichloropr...		0.259	0.333	0.318	0.353	0.361	0.354	0.383	0.337	11.92
41)	TP	Benzene	0.844	0.858	0.986	0.922	1.000	1.034	1.016	1.099	0.970	9.12
42)	TP	tert-Amyl meth...		0.439	0.507	0.505	0.541	0.586	0.583	0.614	0.539	11.24
43)	S	1,2-Dichloroet...	0.294	0.292	0.294	0.293	0.293	0.309	0.313	0.322	0.301	3.81
44)	TP	1,2-Dichloroet...		0.253	0.298	0.284	0.296	0.302	0.295	0.304	0.290	6.06
47)	TP	Methyl cyclohe...		0.317	0.405	0.360	0.438	0.464	0.475	0.539	0.428	17.42
48)	TP	Trichloroethene	0.200	0.213	0.278	0.256	0.282	0.300	0.306	0.356	0.274	18.54
50)	TP	Dibromomethane		0.113	0.128	0.127	0.134	0.143	0.141	0.147	0.133	8.80
51)	TP	1,2-Dichloropr...		0.191	0.242	0.232	0.245	0.250	0.241	0.256	0.237	9.06
53)	TP	2-Chloroethyl ...		0.059	0.082	0.090	0.098	0.101	0.096	0.098	0.089	16.51
54)	TP	Bromodichlorom...		0.249	0.295	0.313	0.338	0.353	0.345	0.365	0.323	12.54
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	8.75
58)	TP	cis-1,3-Dichlo...		0.239	0.307	0.336	0.375	0.402	0.392	0.420	0.353	18.06
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.274	1.250	1.249	1.241	1.220	1.154	1.133	1.073	1.199	5.91
61)	TP	Toluene		0.765	0.826	0.753	0.817	0.821	0.790	0.834	0.801	4.02
62)	TP	4-Methyl-2-pen...			0.047	0.052	0.057	0.062	0.060	0.060	0.056	10.01
63)	TP	Tetrachloroethene		0.255	0.337	0.309	0.336	0.337	0.330	0.363	0.324	10.61
65)	TP	trans-1,3-Dich...		0.253	0.305	0.355	0.390	0.409	0.395	0.409	0.359	16.62
67)	TP	Ethyl methacry...			0.198	0.258	0.282	0.312	0.308	0.311	0.278	16.02
68)	TP	1,1,2-Trichlor...		0.157	0.184	0.186	0.188	0.195	0.188	0.192	0.184#	6.81
69)	TP	Chlorodibromom...		0.198	0.238	0.262	0.283	0.298	0.287	0.294	0.266	13.73
70)	TP	1,3-Dichloropr...		0.334	0.379	0.382	0.387	0.390	0.369	0.366	0.372	5.11
71)	TP	1,2-Dibromoethane		0.147	0.209	0.209	0.219	0.227	0.217	0.216	0.206	13.08
72)	TP	2-Hexanone			0.079	0.094	0.104	0.114	0.111	0.105	0.101	12.39
73)	TP	Chlorobenzene		0.782	0.891	0.835	0.898	0.937	0.913	0.973	0.890	7.15

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\240911NICAL\
Method File : V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TP	Ethylbenzene		1.298	1.527	1.487	1.665	1.730	1.666	1.801	1.596	10.71	
75)	TP	1,1,1,2-Tetrac...		0.231	0.274	0.293	0.322	0.335	0.325	0.344	0.303	13.14	
76)	TP	p/m Xylene		0.451	0.596	0.579	0.659	0.713	0.724	0.846	0.653	19.36	
77)	TP	o Xylene		0.452	0.553	0.550	0.626	0.685	0.693	0.793	0.622	18.22	
78)	TP	Styrene		0.593	0.811	0.884	1.069	1.173	1.179		*Q	0.9990	
79)	I	1,4-Dichlorobenzene-d4		----------ISTD----------									
80)	TP	Bromoform		0.177	0.231	0.254	0.308	0.346	0.348	0.381	*Q	0.9993	
82)	TP	Isopropylbenzene		2.295	2.967	2.792	3.193	3.229	3.129	3.441	3.007	12.46	
83)	S	4-Bromofluorob...	0.869	0.884	0.885	0.881	0.870	0.814	0.800	0.781	0.848	5.01	
84)	TP	Bromobenzene		0.580	0.684	0.642	0.677	0.689	0.675	0.717	0.666	6.59	
85)	TP	n-Propylbenzene		2.703	3.473	3.320	3.767	3.857	3.768	4.129	3.574	13.00	
86)	TP	1,4-Dichlorobu...		0.660	0.707	0.672	0.698	0.720	0.696	0.738	0.699	3.82	
87)	TP	1,1,2,2-Tetrac...		0.433	0.490	0.472	0.477	0.496	0.469		0.473	4.70	
88)	TP	4-Ethyltoluene		2.224	2.781	2.632	2.989	3.043	2.967	3.274	2.844	11.95	
89)	TP	2-Chlorotoluene		1.680	1.988	1.916	2.105	2.100	2.008	2.137	1.990	7.91	
90)	TP	1,3,5-Trimethy...		1.836	2.232	2.286	2.594	2.689	2.683	2.975	2.471	15.29	
91)	TP	1,2,3-Trichlor...		0.384	0.406	0.376	0.400	0.421	0.417	0.450	0.408	6.06	
92)	TP	trans-1,4-Dich...			0.106	0.127	0.134	0.139	0.134	0.129	0.128	9.28	
93)	TP	4-Chlorotoluene		1.517	1.955	1.950	2.128	2.139	2.068	2.216	1.996	11.66	
94)	TP	tert-Butylbenzene		1.517	1.965	1.901	2.150	2.211	2.185	2.380	2.044	13.78	
97)	TP	1,2,4-Trimethy...		1.795	2.233	2.219	2.486	2.562	2.504	2.690	2.356	12.75	
98)	TP	sec-Butylbenzene		2.302	2.838	2.770	3.227	3.294	3.252	3.457	3.020	13.34	
99)	TP	p-Isopropyltol...		1.687	2.286	2.258	2.647	2.770	2.739	2.965	2.479	17.50	
100)	TP	1,3-Dichlorobe...		1.070	1.234	1.227	1.354	1.389	1.341	1.435	1.293	9.62	
101)	TP	1,4-Dichlorobe...		1.208	1.312	1.233	1.337	1.368	1.333	1.427	1.317	5.75	
102)	TP	p-Diethylbenzene		0.897	1.250	1.240	1.447	1.514	1.494	1.646	1.355	18.36	
103)	TP	n-Butylbenzene		1.443	1.911	1.923	2.213	2.254	2.178	2.317	2.034	14.99	
104)	TP	1,2-Dichlorobe...		1.007	1.092	1.094	1.160	1.200	1.154	1.222	1.133	6.51	
105)	TP	1,2,4,5-Tetram...		1.301	1.588	1.641	1.854	1.996	1.980	2.249	1.801	17.48	
106)	TP	1,2-Dibromo-3-...		0.008	0.044	0.046	0.051	0.058	0.058	0.060	*L	0.9983	
107)	TP	1,3,5-Trichlor...		0.515	0.592	0.607	0.642	0.674	0.669	0.766	0.638	12.32	

Method Path : K:\VOA101\2024\240911NICAL\
Method File : V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240911N03.D L1 =V01240911N06.D L2 =V01240911N07.D L3 =V01240911N08.D L4 =V01240911N09.D
L6 =V01240911N10.D L8 =V01240911N11.D L10 =V01240911N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108) TP	Hexachlorobuta...	0.165	0.206	0.189	0.216	0.216	0.226	0.264	0.212	14.49	
109) TP	1,2,4-Trichlor...	0.388	0.455	0.483	0.505	0.532	0.533	0.622	0.502	14.52	
110) TP	Naphthalene	0.936	0.920	0.979	1.024	1.113	1.122	1.142	1.034	8.95	
111) TP	1,2,3-Trichlor...	0.316	0.362	0.373	0.383	0.408	0.410	0.440	0.385#	10.45	

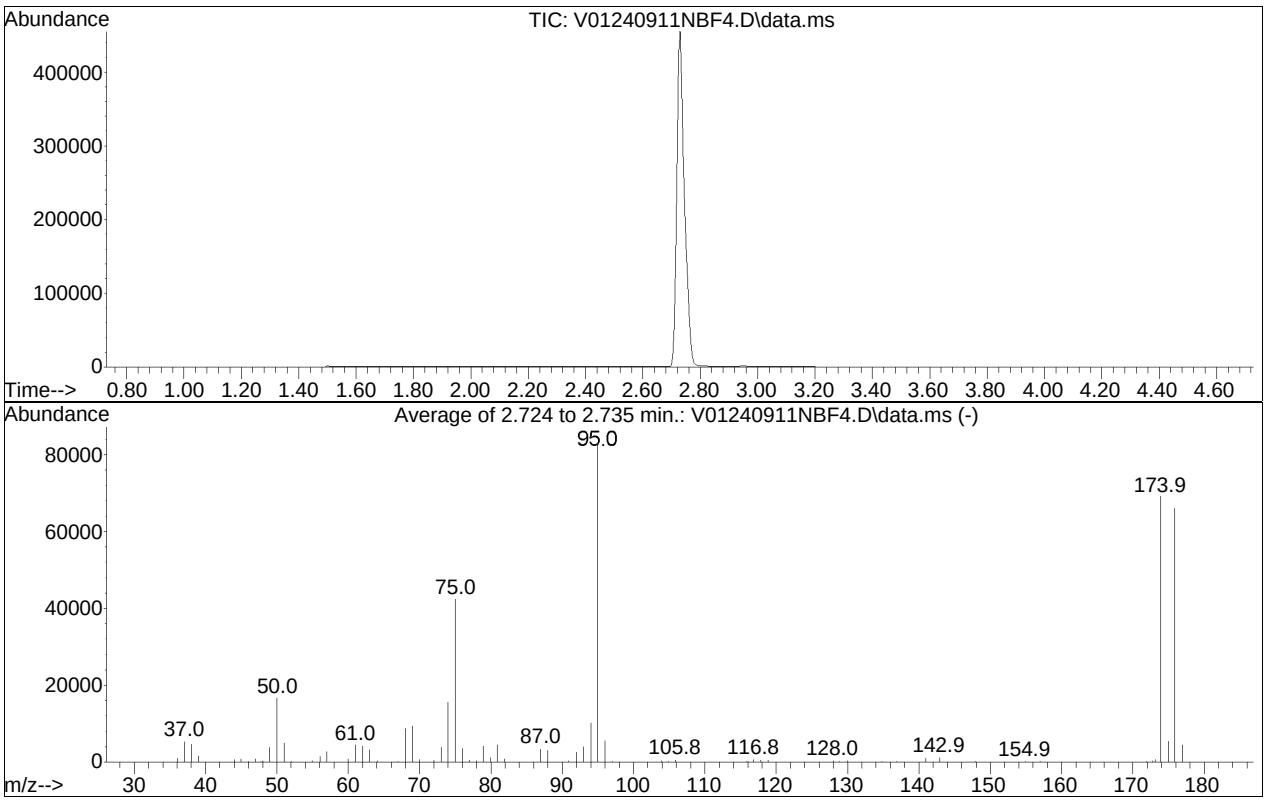
(#) = Out of Range

BFB

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911NBF4.D
Acq On : 11 Sep 2024 10:32 pm
Operator : VOA101:MAG
Sample : WG1970861-1
Misc : WG1970861
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024



AutoFind: Scans 236, 237, 238; Background Corrected with Scan 228

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	16610	PASS
75	95	30	60	51.0	42427	PASS
95	95	100	100	100.0	83128	PASS
96	95	5	9	6.7	5542	PASS
173	174	0.00	2	1.0	693	PASS
174	95	50	100	83.2	69136	PASS
175	174	5	9	7.8	5418	PASS
176	174	95	101	95.6	66112	PASS
177	176	5	9	6.8	4465	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N03.D
Acq On : 11 Sep 2024 11:43 pm
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG1970861,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 12:24:54 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-L11_MCP - L11 MCP

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	282605	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 97.44%			
59) Chlorobenzene-d5	9.460	117	215464	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 94.13%			
79) 1,4-Dichlorobenzene-d4	12.176	152	105786	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 89.56%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.143	113	71239	9.611	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.11%			
43) 1,2-Dichloroethane-d4	5.659	65	83141	9.763	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.63%			
60) Toluene-d8	7.617	98	274422	10.620	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.20%			
83) 4-Bromofluorobenzene	10.966	95	91959	10.250	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.50%			
Target Compounds						Qvalue
4) Vinyl chloride	1.900	62	1801	0.180	ug/L	# 44
34) Carbon tetrachloride	5.101	117	1195M3	0.125	ug/L	
41) Benzene	5.531	78	4530	0.165	ug/L	# 80
48) Trichloroethene	6.113	95	1074M1	0.139	ug/L	
58) cis-1,3-Dichloropropene	7.430	75	1094M3	0.110	ug/L	
65) trans-1,3-Dichloropropene	0.000		0	N.D.	d	

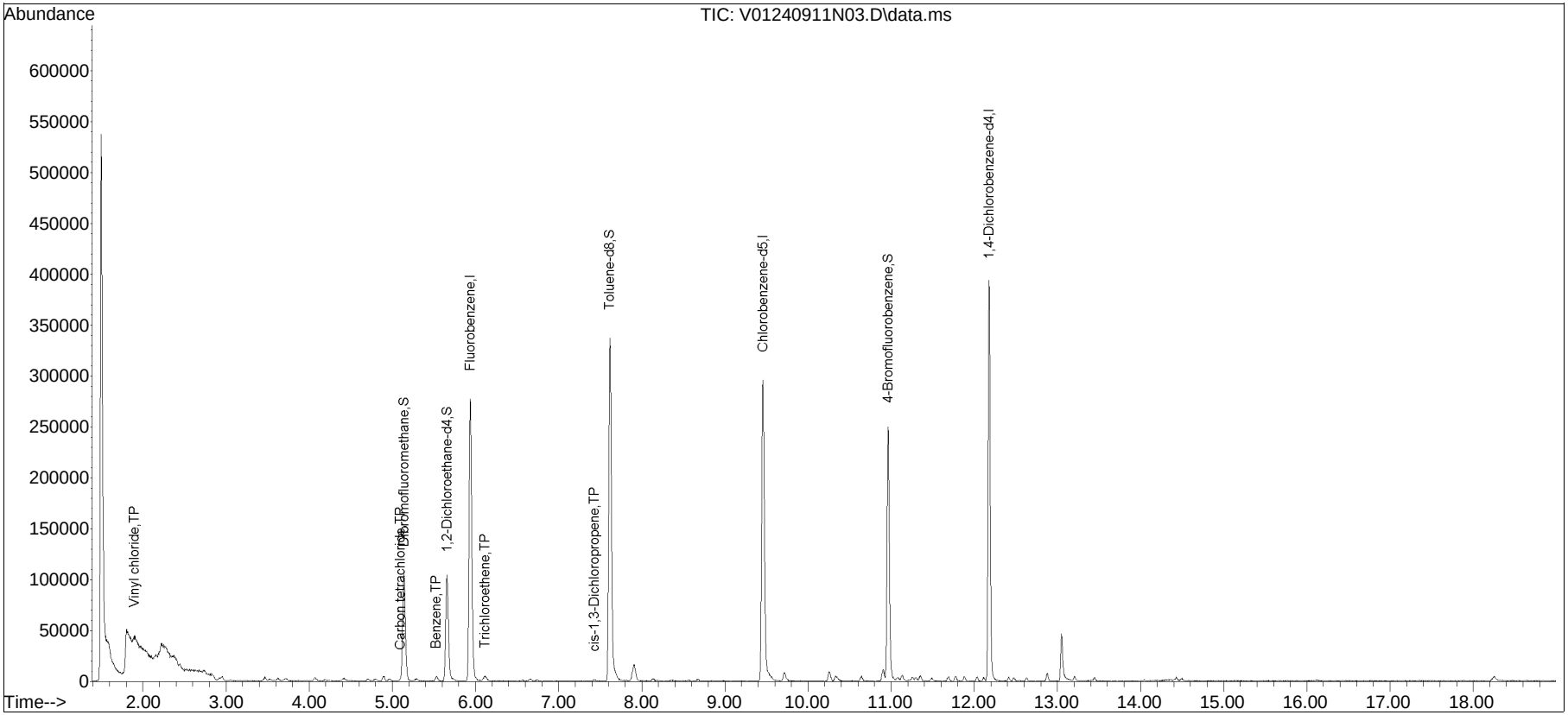
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N03.D
Acq On : 11 Sep 2024 11:43 pm
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG1970861,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 12:24:54 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

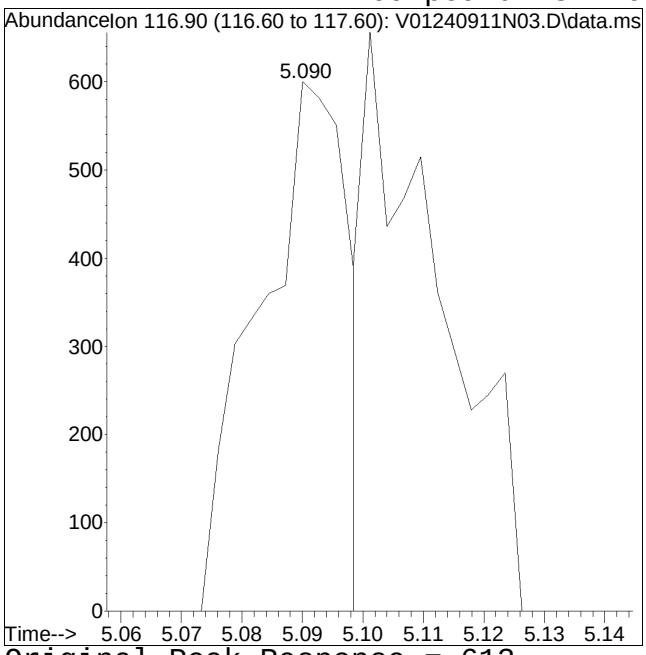
Sub List : 8260-L11_MCP - L11 MCP911NICAL\V01240911N08.D•



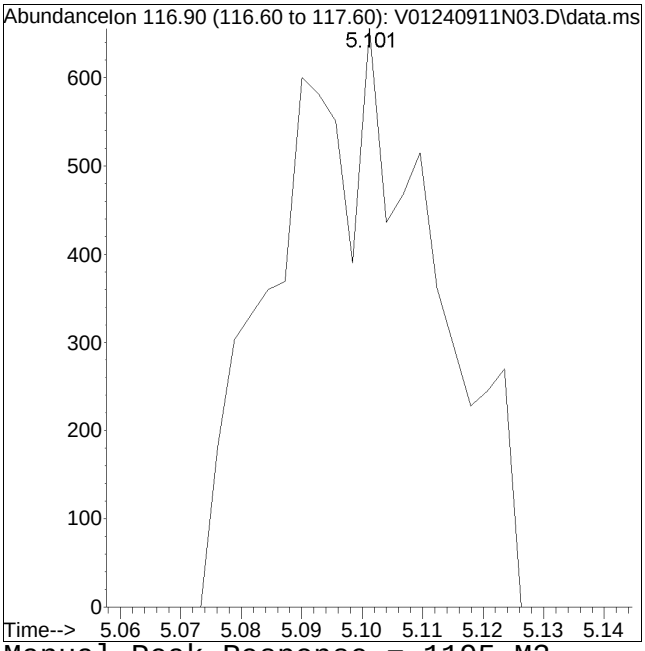
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N03.D Operator : VOA101:PID
Date Inj'd : 9/11/2024 11:43 pm Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 9/12/2024 12:24 pm

Compound #34: Carbon tetrachloride



Original Peak Response = 613



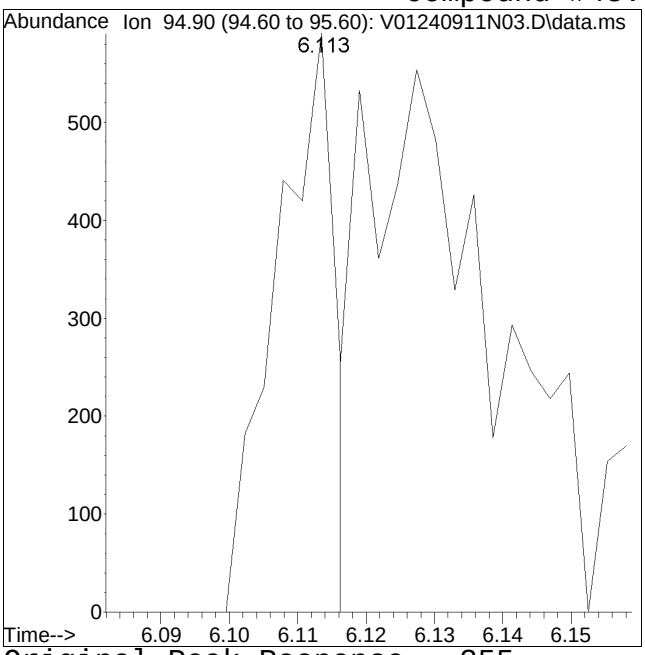
Manual Peak Response = 1195 M3

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

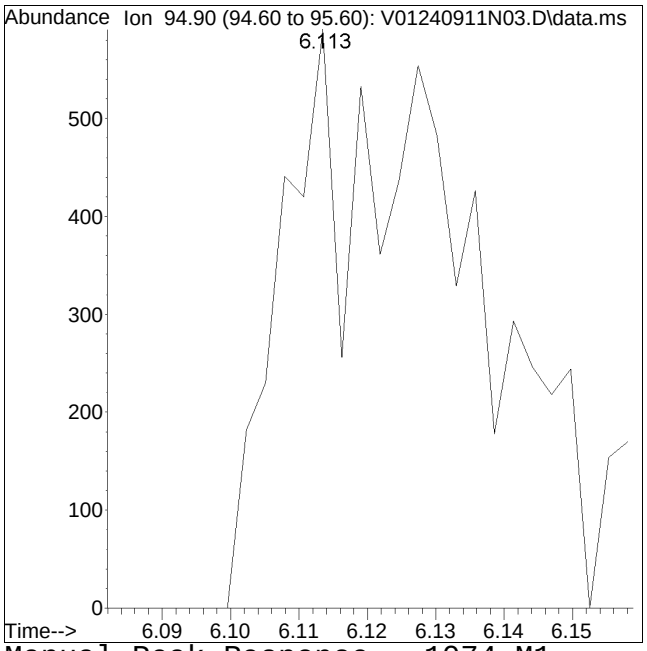
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N03.D Operator : VOA101:PID
Date Inj'd : 9/11/2024 11:43 pm Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 9/12/2024 12:24 pm

Compound #48: Trichloroethene



Original Peak Response = 355



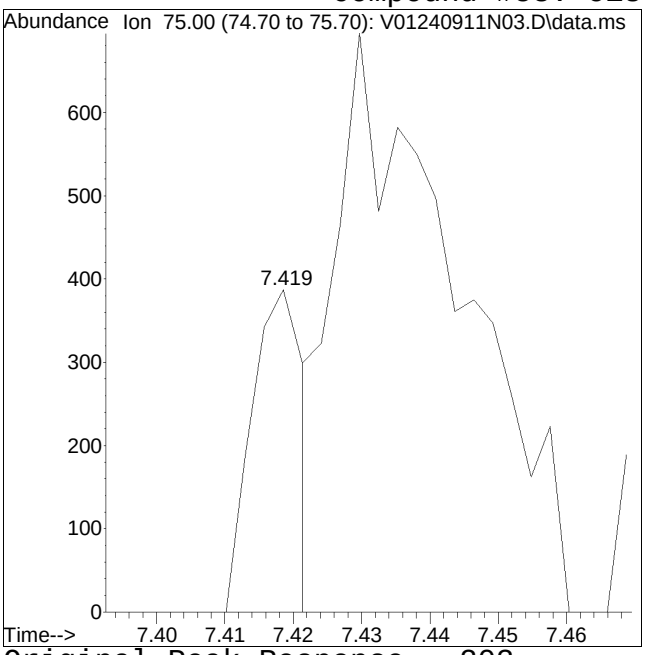
Manual Peak Response = 1074 M1

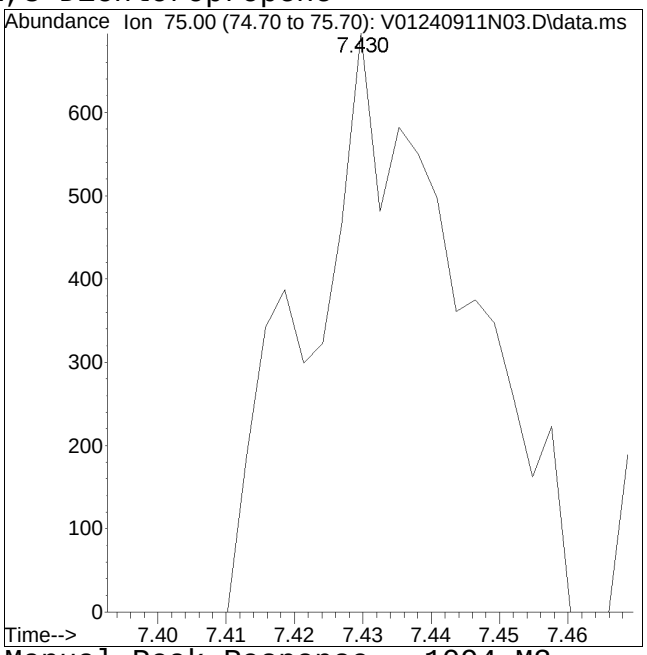
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N03.D Operator : VOA101:PID
Date Inj'd : 9/11/2024 11:43 pm Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 9/12/2024 12:24 pm

Compound #58: cis-1,3-Dichloropropene





Original Peak Response = 203 Manual Peak Response = 1094 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N06.D
Acq On : 12 Sep 2024 1:01 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1970861,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 12:25:04 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.938	96	280399	10.000 ug/L	0.00
Standard Area 1 = 290042			Recovery =	96.68%	
59) Chlorobenzene-d5	9.457	117	216397	10.000 ug/L	0.00
Standard Area 1 = 228912			Recovery =	94.53%	
79) 1,4-Dichlorobenzene-d4	12.179	152	105570	10.000 ug/L	0.00
Standard Area 1 = 118116			Recovery =	89.38%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.140	113	69931	9.509 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.09%	
43) 1,2-Dichloroethane-d4	5.659	65	81985	9.703 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.03%	
60) Toluene-d8	7.620	98	270601	10.427 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.27%	
83) 4-Bromofluorobenzene	10.963	95	93330	10.424 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.24%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.635	85	3062	0.406 ug/L	96
3) Chloromethane	1.827	50	4406M4	0.579 ug/L	
4) Vinyl chloride	1.892	62	4899	0.492 ug/L #	44
5) Bromomethane	2.198	94	2982	0.397 ug/L	95
6) Chloroethane	2.307	64	7950	0.719 ug/L	66
7) Trichlorofluoromethane	2.444	101	10274	0.450 ug/L	96
8) Ethyl ether	2.739	74	3069	0.520 ug/L #	81
10) 1,1-Dichloroethene	2.921	96	2673	0.405 ug/L	92
11) Carbon disulfide	2.946	76	9619	0.511 ug/L	95
12) Freon-113	2.957	101	2491M3	0.375 ug/L	
13) Iodomethane	3.055	142	2412	0.288 ug/L #	94
14) Acrolein	0.000		0	N.D. d	
15) Methylene chloride	3.467	84	3858	0.567 ug/L	97
17) Acetone	3.523	43	2623M3	1.474 ug/L	
18) trans-1,2-Dichloroethene	3.623	96	2902	0.433 ug/L #	11
19) Methyl acetate	3.632	43	1503M1	0.548 ug/L	
20) Methyl tert-butyl ether	3.718	73	6822M1	0.442 ug/L	
21) tert-Butyl alcohol	0.000		0	N.D. d	
22) Diisopropyl ether	4.072	45	8681	0.432 ug/L #	54
23) 1,1-Dichloroethane	4.189	63	5165	0.424 ug/L	71
24) Halothane	4.242	117	2030	0.401 ug/L #	77

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N06.D
Acq On : 12 Sep 2024 1:01 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1970861,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 12:25:04 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
25) Acrylonitrile	0.000		0	N.D. d	
26) Ethyl tert-butyl ether	4.407	59	7261M1	0.425 ug/L	
27) Vinyl acetate	4.432	43	4092M1	0.442 ug/L	
28) cis-1,2-Dichloroethene	4.714	96	3164M3	0.422 ug/L	
29) 2,2-Dichloropropane	4.800	77	3650	0.391 ug/L #	77
30) Bromochloromethane	4.892	128	1470M1	0.434 ug/L	
31) Cyclohexane	4.898	56	4169	0.370 ug/L	85
32) Chloroform	4.968	83	5274	0.423 ug/L #	80
33) Ethyl acetate	0.000		0	N.D. d	
34) Carbon tetrachloride	5.096	117	3620	0.381 ug/L #	63
35) Tetrahydrofuran	0.000		0	N.D. d	
37) 1,1,1-Trichloroethane	5.157	97	4519	0.405 ug/L #	53
39) 2-Butanone	0.000		0	N.D. d	
40) 1,1-Dichloropropene	5.283	75	3633	0.384 ug/L	90
41) Benzene	5.531	78	12031	0.442 ug/L #	87
42) tert-Amyl methyl ether	5.637	73	6156	0.407 ug/L #	69
44) 1,2-Dichloroethane	5.737	62	3548	0.436 ug/L #	87
47) Methyl cyclohexane	6.108	83	4446M1	0.370 ug/L	
48) Trichloroethene	6.125	95	2987M3	0.389 ug/L	
50) Dibromomethane	6.565	93	1579	0.423 ug/L #	49
51) 1,2-Dichloropropane	6.660	63	2678	0.404 ug/L #	61
53) 2-Chloroethyl vinyl ether	7.382	63	829M3	0.331 ug/L	
54) Bromodichloromethane	6.727	83	3489M1	0.386 ug/L	
57) 1,4-Dioxane	6.945	88	3158M1	84.526 ug/L	
58) cis-1,3-Dichloropropene	7.430	75	3346	0.338 ug/L #	76
61) Toluene	7.686	92	8275	0.477 ug/L #	29
62) 4-Methyl-2-pentanone	0.000		0	N.D. d	
63) Tetrachloroethene	8.135	166	2759M3	0.394 ug/L	
65) trans-1,3-Dichloropropene	8.174	75	2735M1	0.352 ug/L	
67) Ethyl methacrylate	0.000		0	N.D. d	
68) 1,1,2-Trichloroethane	8.364	83	1702M3	0.426 ug/L	
69) Chlorodibromomethane	8.568	129	2141M3	0.372 ug/L	
70) 1,3-Dichloropropane	8.674	76	3613M1	0.448 ug/L	
71) 1,2-Dibromoethane	8.849	107	1588	0.356 ug/L #	47
72) 2-Hexanone	0.000		0	N.D. d	
73) Chlorobenzene	9.477	112	8462M1	0.439 ug/L	
74) Ethylbenzene	9.524	91	14039	0.406 ug/L	93
75) 1,1,1,2-Tetrachloroethane	9.566	131	2504	0.381 ug/L #	44
76) p/m Xylene	9.717	106	9757	0.691 ug/L	97
77) o Xylene	10.255	106	9788M3	0.727 ug/L	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N06.D
Acq On : 12 Sep 2024 1:01 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1970861,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 12:25:04 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.324	104	12822	0.592	ug/L		96
80) Bromoform	10.352	173	933M3	0.303	ug/L		
82) Isopropylbenzene	10.631	105	12114	0.382	ug/L		74
84) Bromobenzene	11.086	156	3064M1	0.435	ug/L		
85) n-Propylbenzene	11.125	91	14270	0.378	ug/L	#	80
86) 1,4-Dichlorobutane	11.144	55	3484	0.472	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.220	83	2285M3	0.459	ug/L		
88) 4-Ethyltoluene	11.245	105	11742	0.391	ug/L		93
89) 2-Chlorotoluene	11.295	91	8869M4	0.422	ug/L		
90) 1,3,5-Trimethylbenzene	11.348	105	9692M3	0.372	ug/L		
91) 1,2,3-Trichloropropane	11.354	75	2029M1	0.471	ug/L		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
93) 4-Chlorotoluene	11.482	91	8007	0.380	ug/L	#	84
94) tert-Butylbenzene	11.688	119	8008	0.371	ug/L		94
97) 1,2,4-Trimethylbenzene	11.775	105	9477	0.381	ug/L		100
98) sec-Butylbenzene	11.878	105	12149	0.381	ug/L		92
99) p-Isopropyltoluene	12.034	119	8906	0.340	ug/L	#	82
100) 1,3-Dichlorobenzene	12.115	146	5649	0.414	ug/L		99
101) 1,4-Dichlorobenzene	12.193	146	6374M3	0.458	ug/L		
102) p-Diethylbenzene	12.408	119	4735	0.331	ug/L		90
103) n-Butylbenzene	12.469	91	7617	0.355	ug/L		95
104) 1,2-Dichlorobenzene	12.628	146	5318	0.445	ug/L	#	75
105) 1,2,4,5-Tetramethylben...	13.205	119	6866	0.361	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.409	155	43	0.088	ug/L	#	68
107) 1,3,5-Trichlorobenzene	13.437	180	2716	0.403	ug/L	#	46
108) Hexachlorobutadiene	14.008	225	873	0.391	ug/L	#	88
109) 1,2,4-Trichlorobenzene	14.045	180	2046	0.386	ug/L	#	74
110) Naphthalene	14.335	128	4940M1	0.453	ug/L		
111) 1,2,3-Trichlorobenzene	14.496	180	1666	0.410	ug/L	#	58

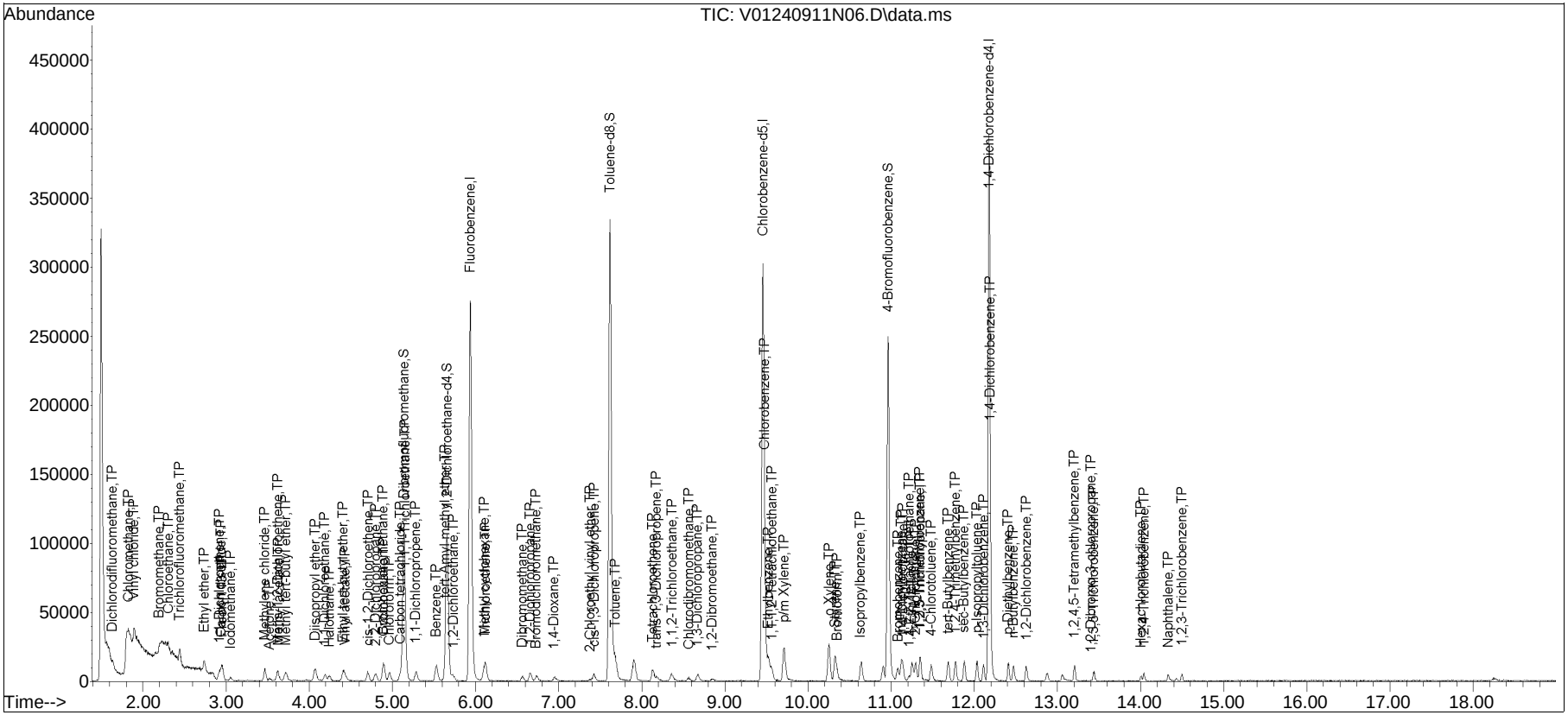
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N06.D
Acq On : 12 Sep 2024 1:01 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1970861,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 12:25:04 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

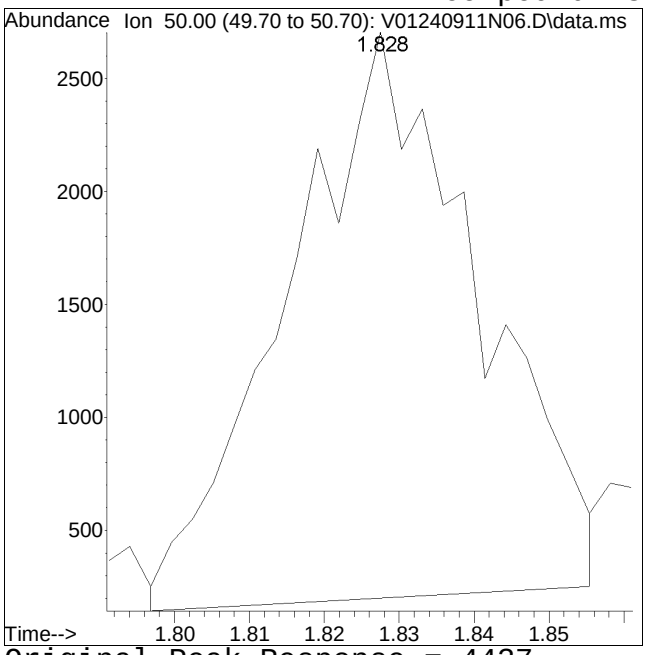


Manual Integration Report

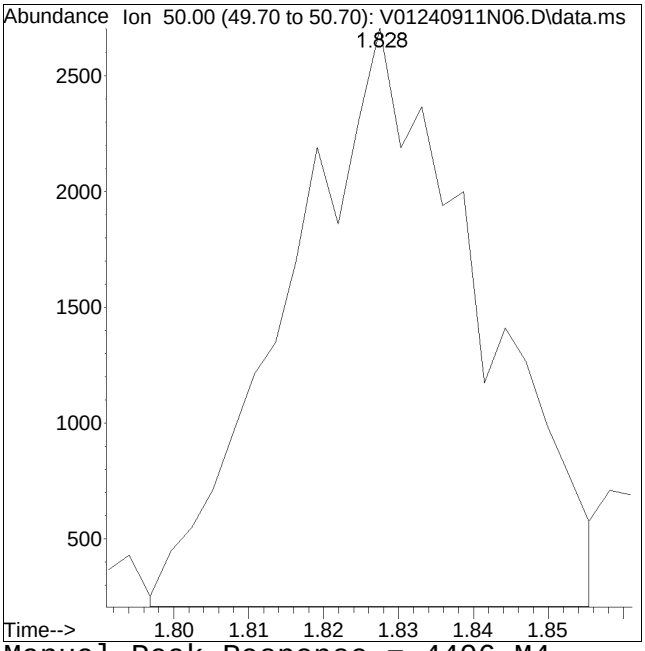
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #3: Chloromethane



Original Peak Response = 4437



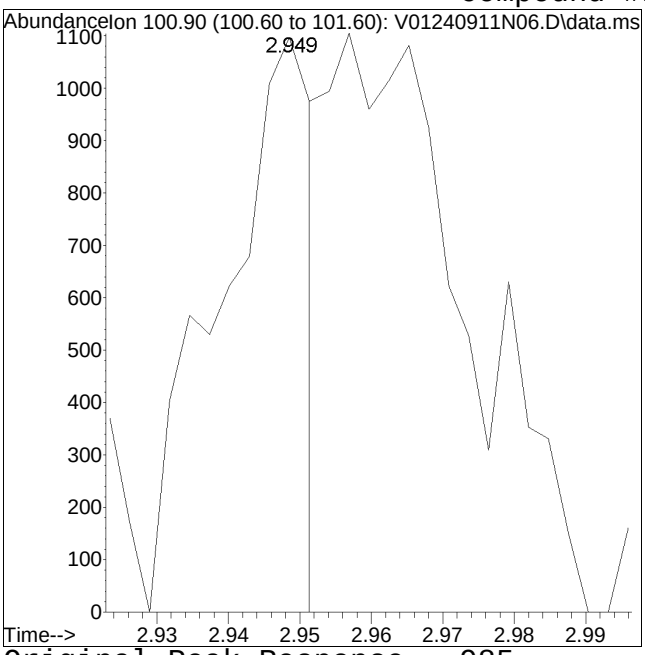
Manual Peak Response = 4406 M4

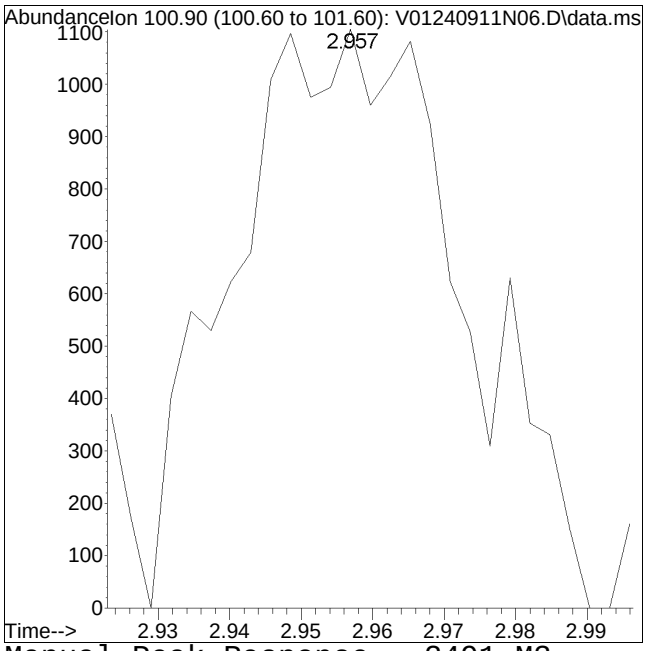
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #12: Freon-113





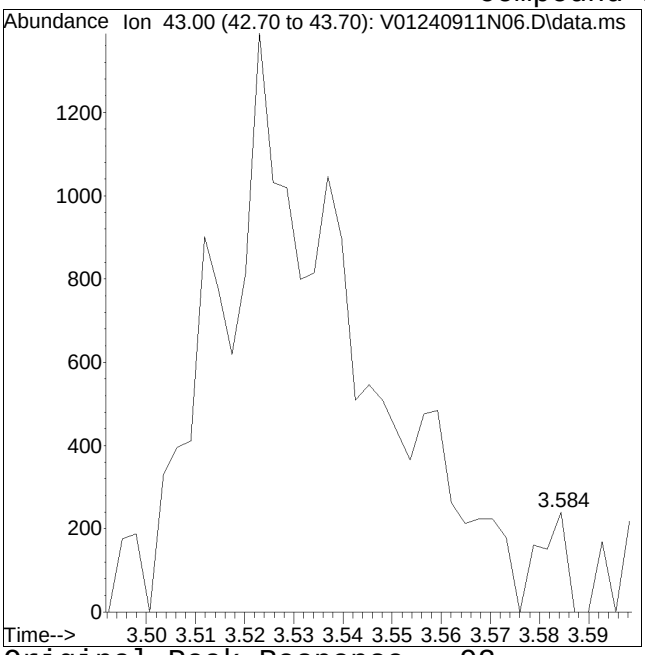
Original Peak Response = 985 Manual Peak Response = 2491 M3

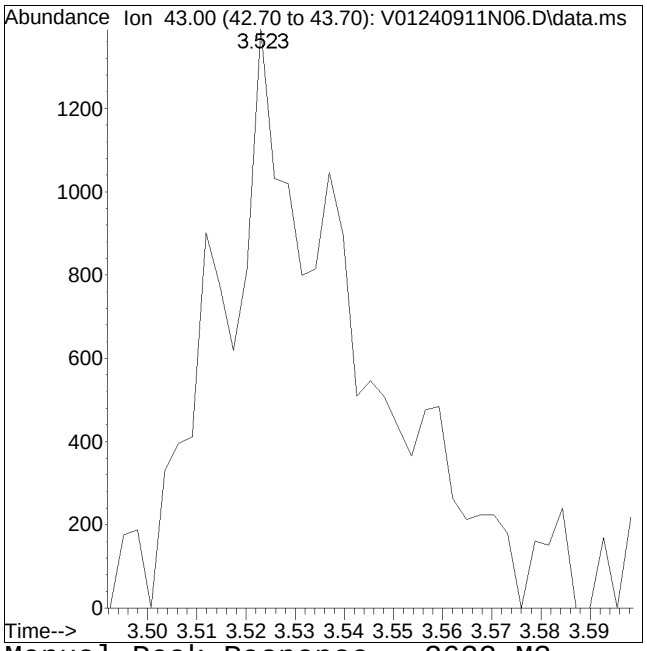
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #17: Acetone





Original Peak Response = 92 Manual Peak Response = 2623 M3

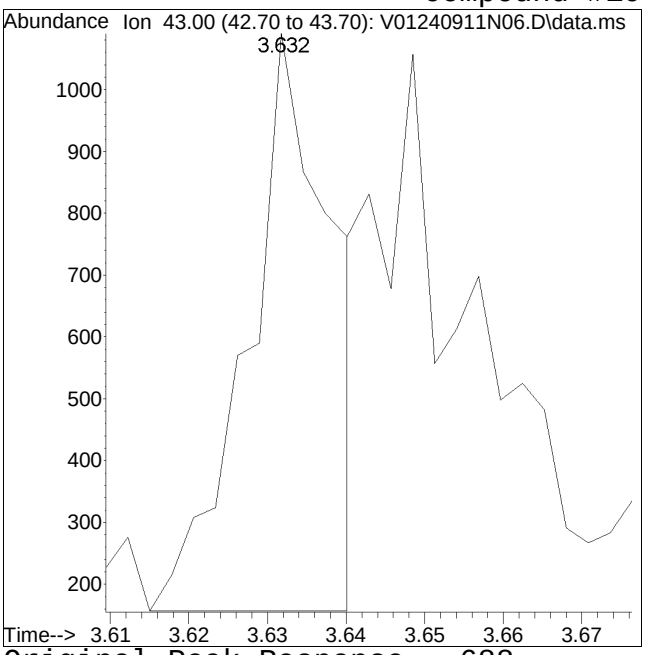
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

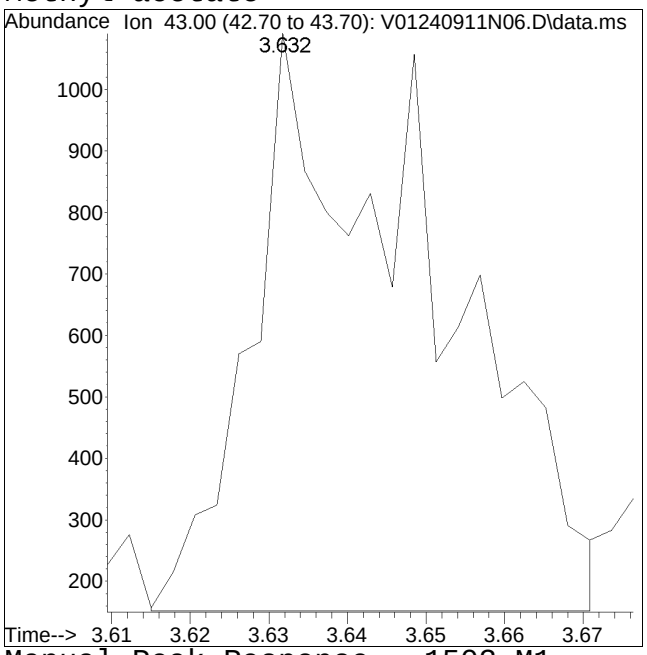
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #19: Methyl acetate



Original Peak Response = 688



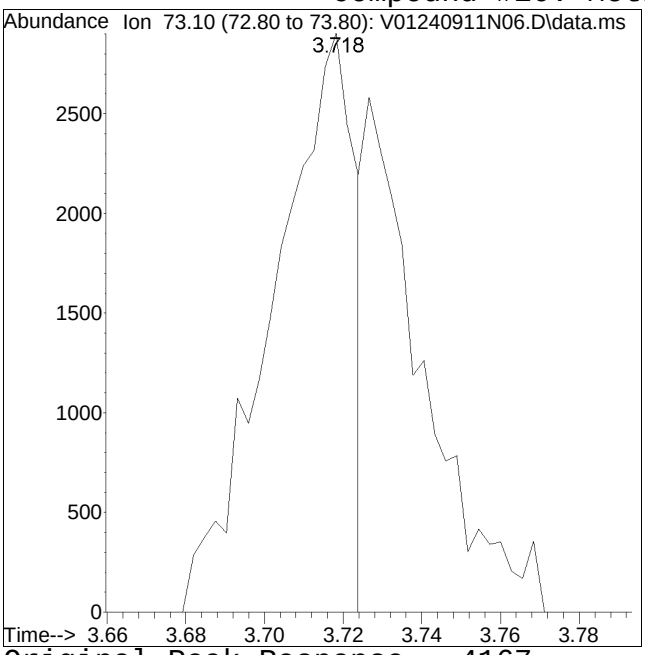
Manual Peak Response = 1503 M1

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

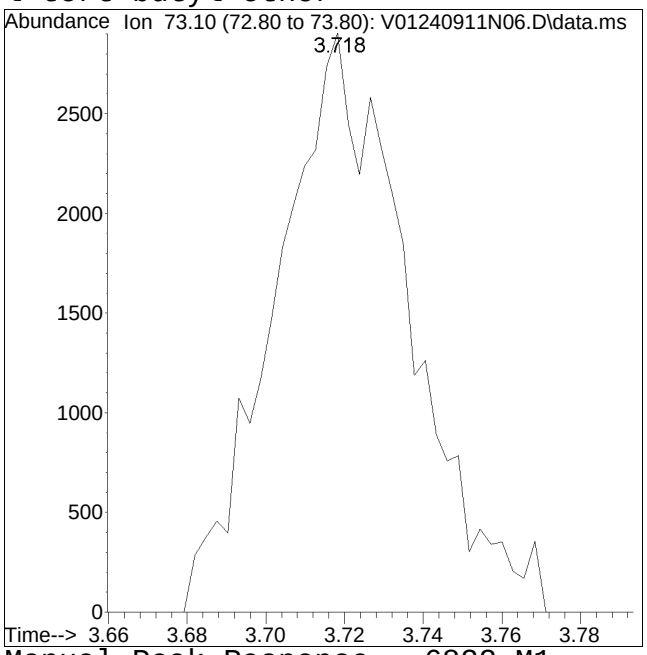
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #20: Methyl tert-butyl ether



Original Peak Response = 4167



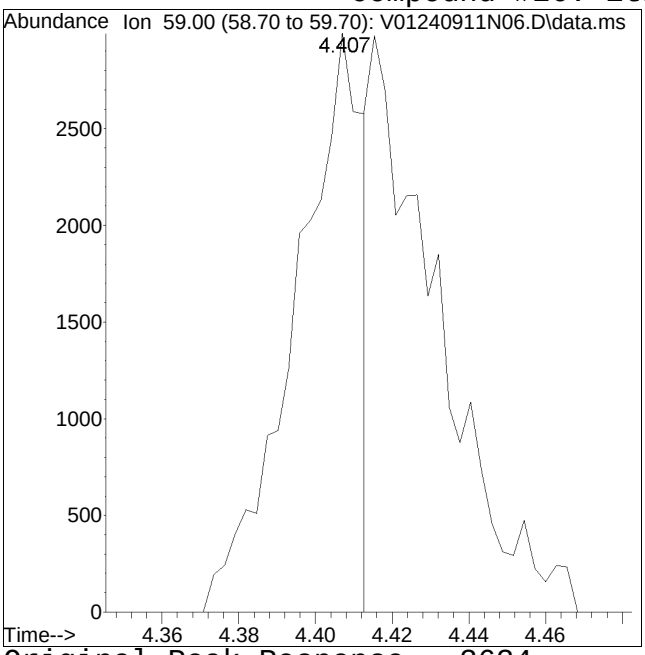
Manual Peak Response = 6822 M1

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

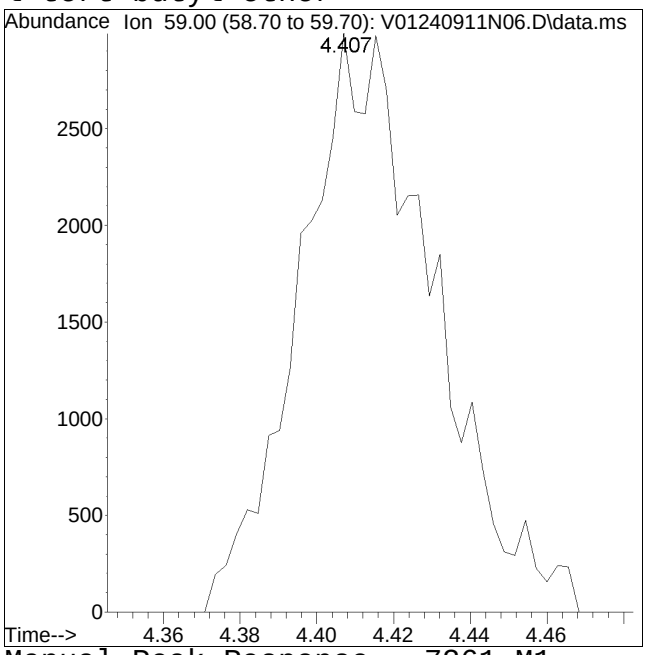
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 3634



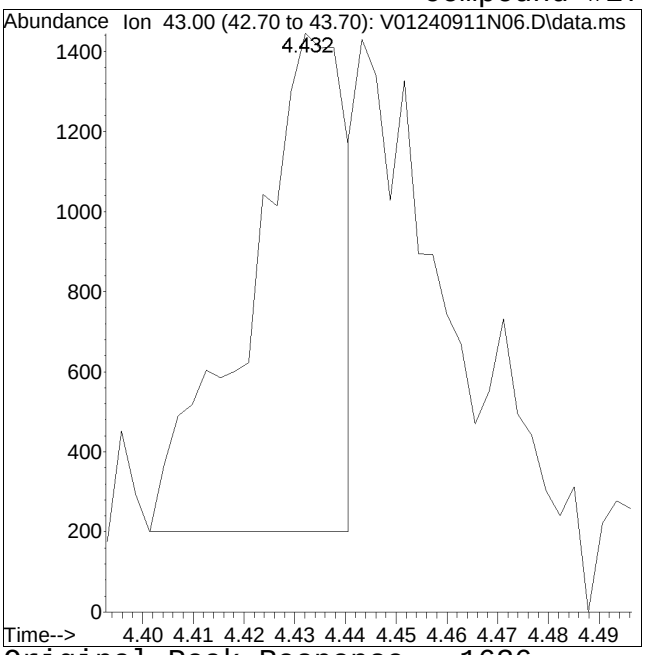
Manual Peak Response = 7261 M1

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

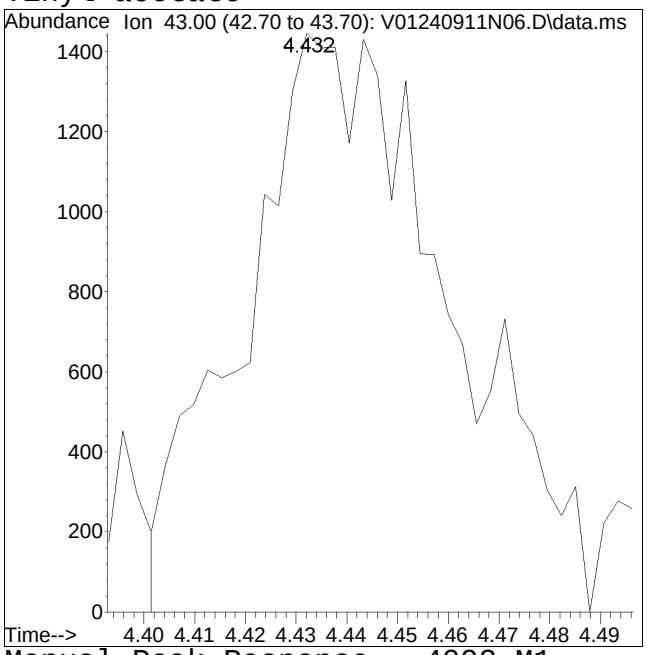
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #27: Vinyl acetate



Original Peak Response = 1636



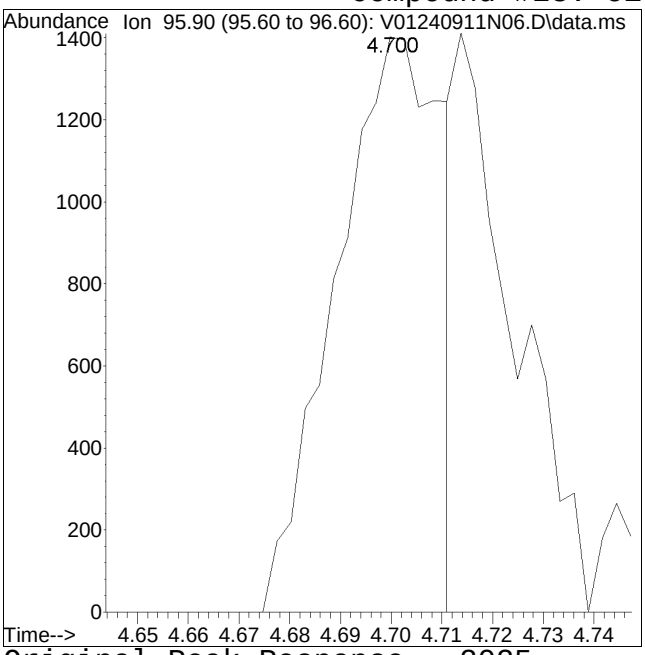
Manual Peak Response = 4092 M1

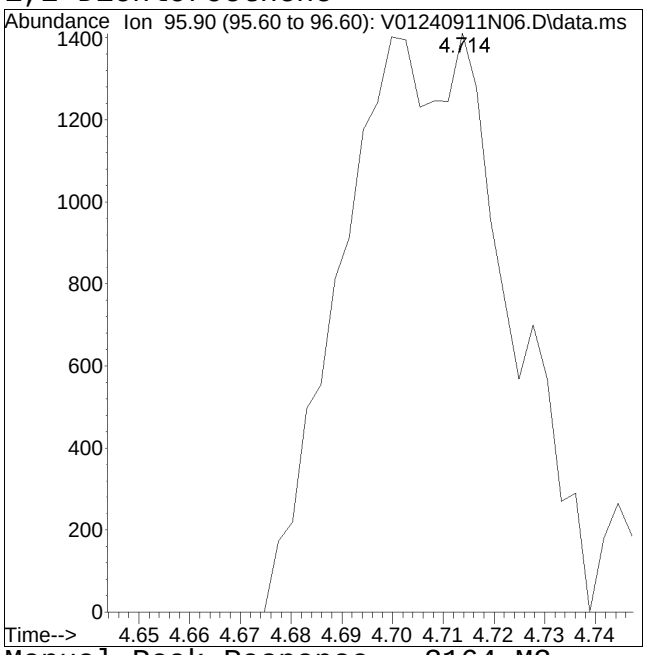
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #28: cis-1,2-Dichloroethene





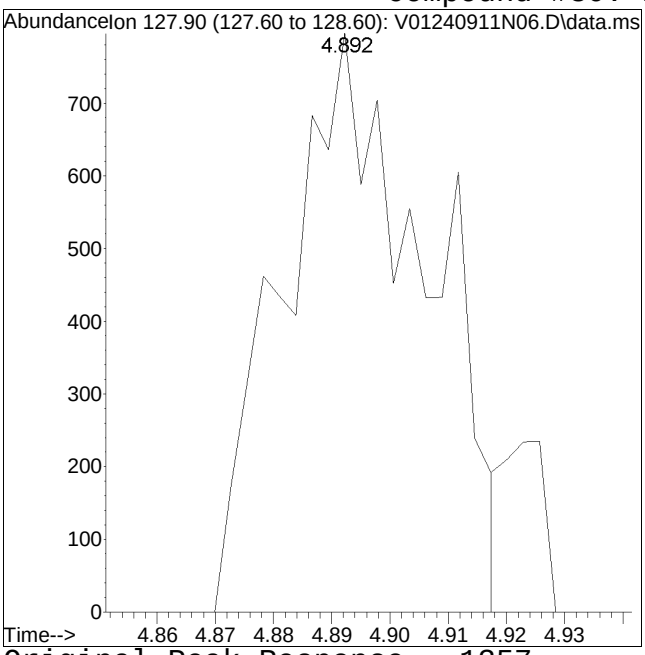
Original Peak Response = 2025 Manual Peak Response = 3164 M3

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

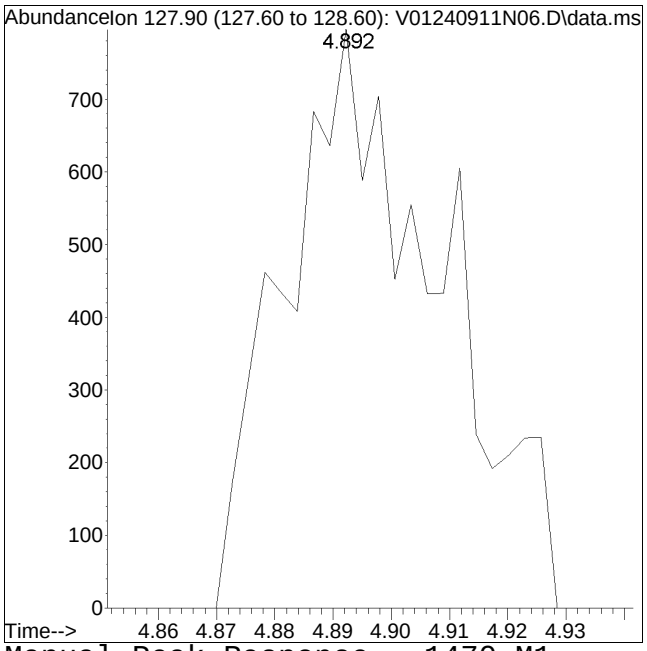
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #30: Bromochloromethane



Original Peak Response = 1357



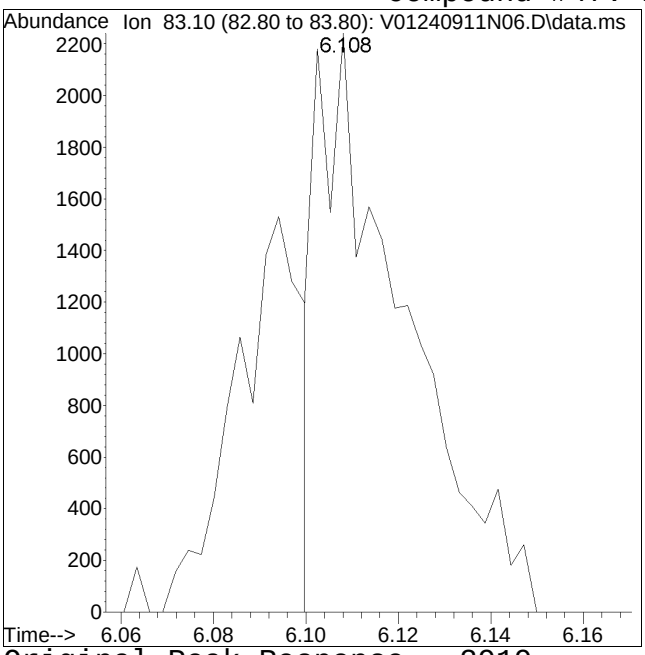
Manual Peak Response = 1470 M1

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

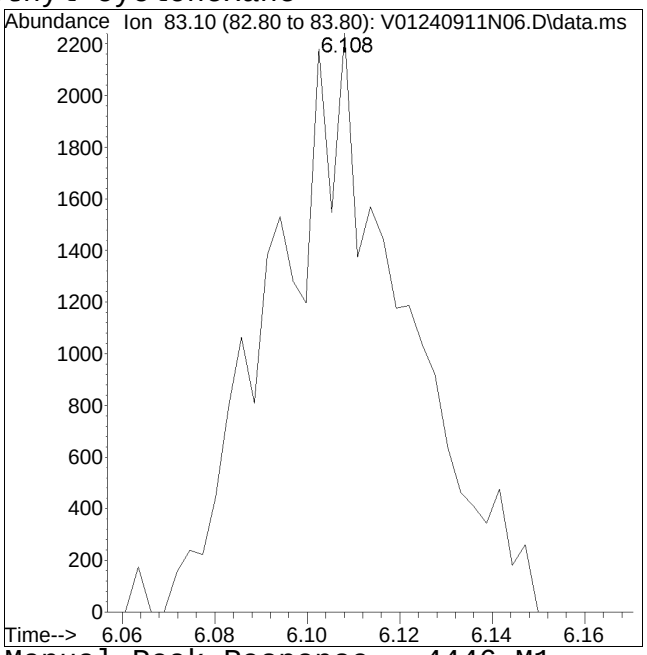
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #47: Methyl cyclohexane



Original Peak Response = 2919



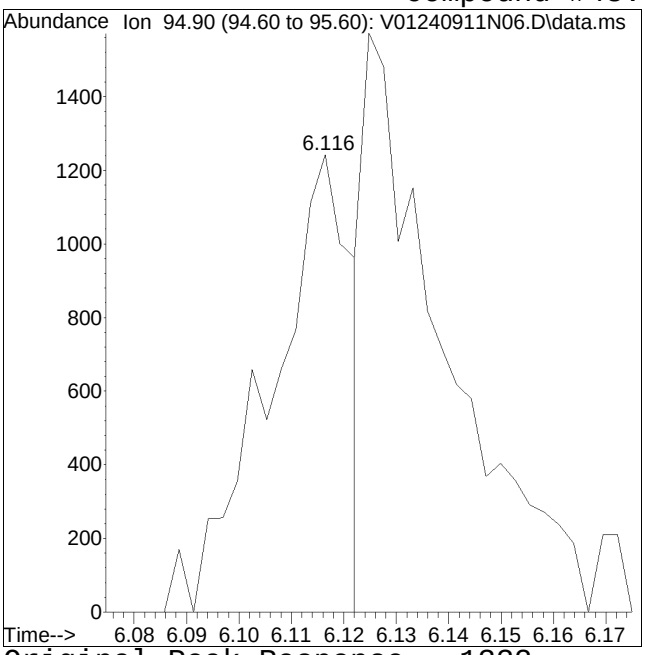
Manual Peak Response = 4446 M1

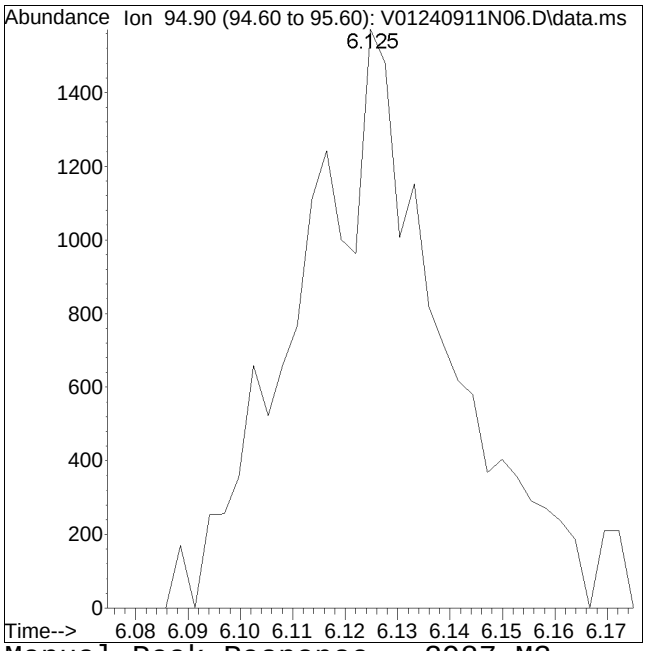
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #48: Trichloroethene





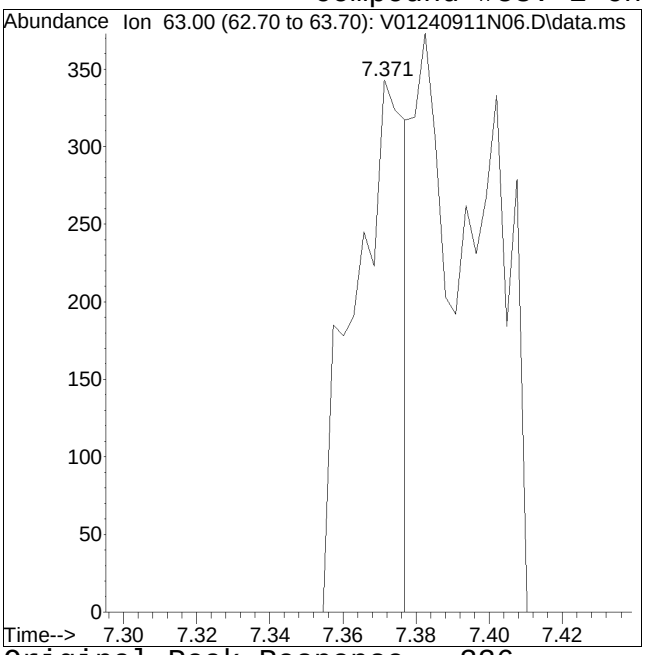
Original Peak Response = 1332 Manual Peak Response = 2987 M3

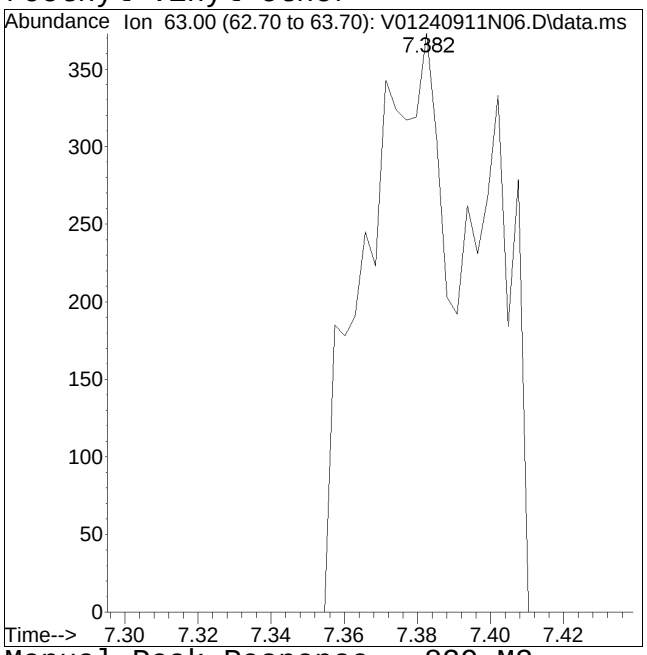
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #53: 2-Chloroethyl vinyl ether





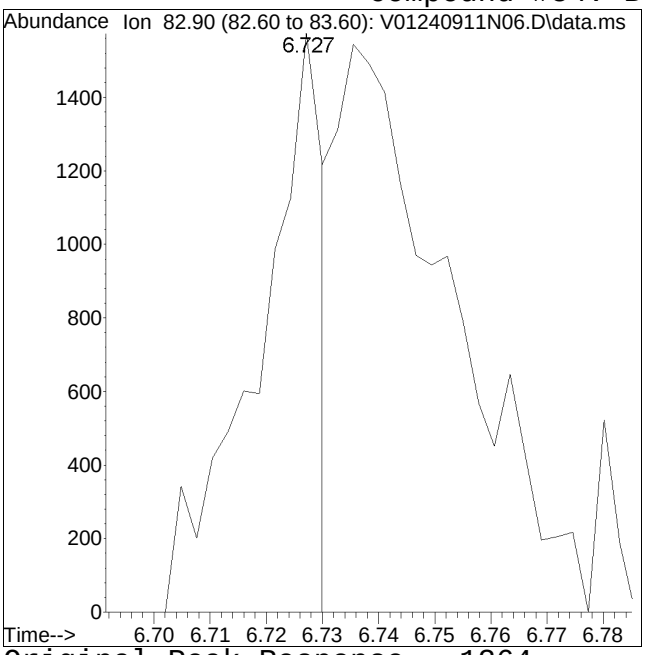
Original Peak Response = 336 Manual Peak Response = 829 M3

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

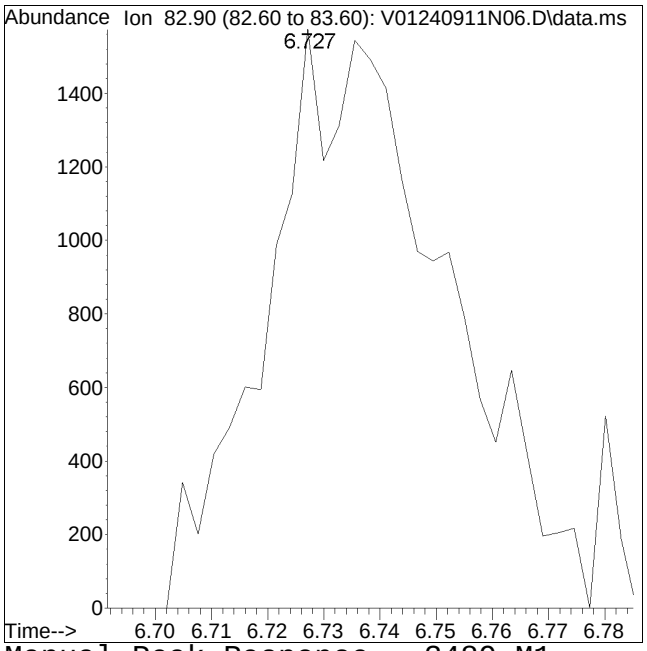
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #54: Bromodichloromethane



Original Peak Response = 1264



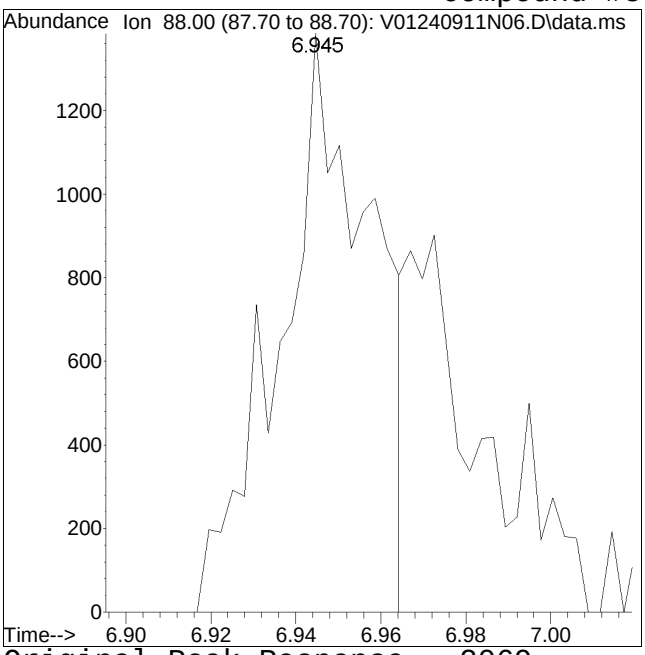
Manual Peak Response = 3489 M1

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

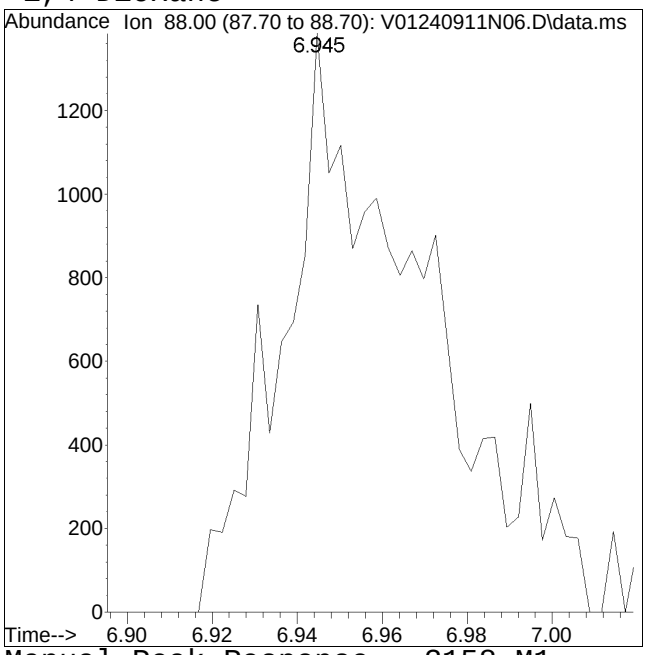
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 2069



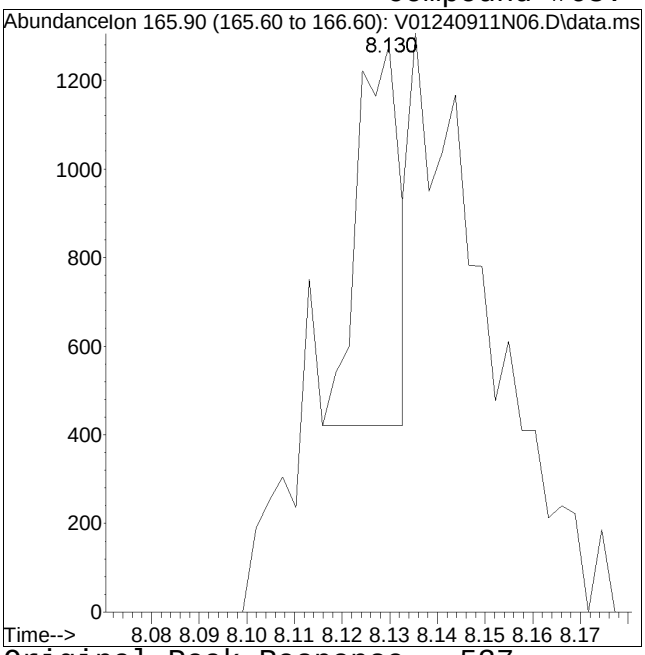
Manual Peak Response = 3158 M1

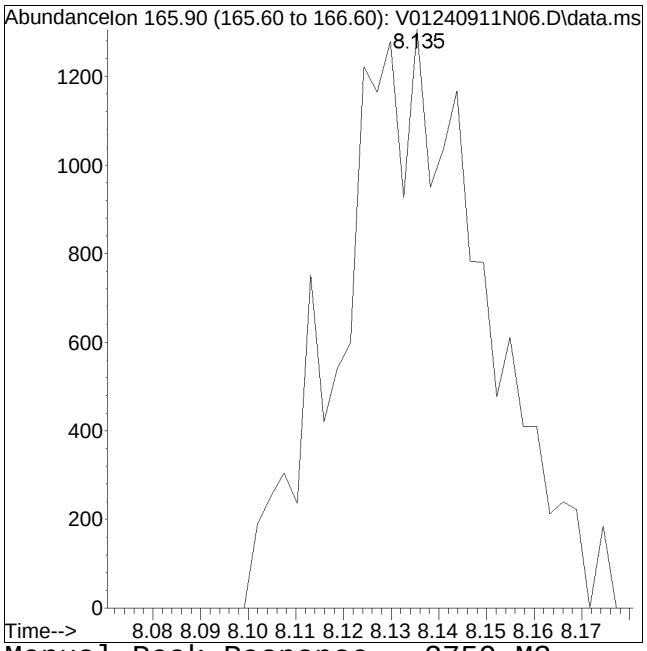
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #63: Tetrachloroethene





Original Peak Response = 537 Manual Peak Response = 2759 M3

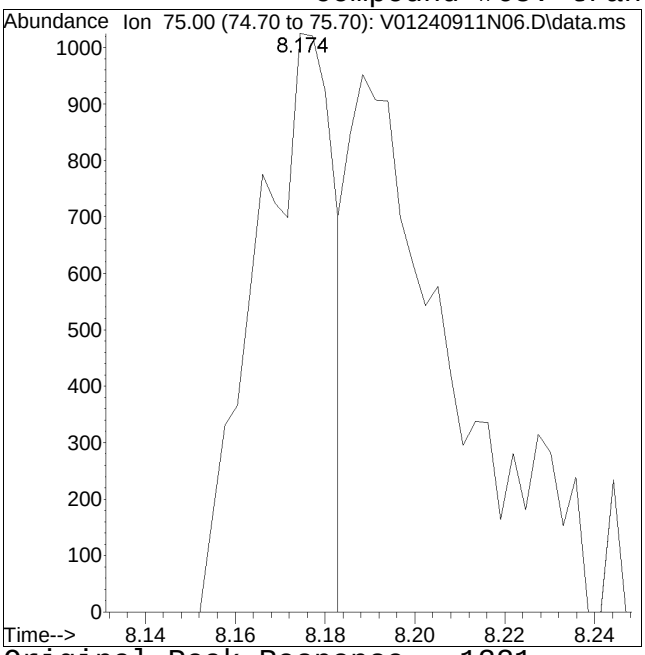
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

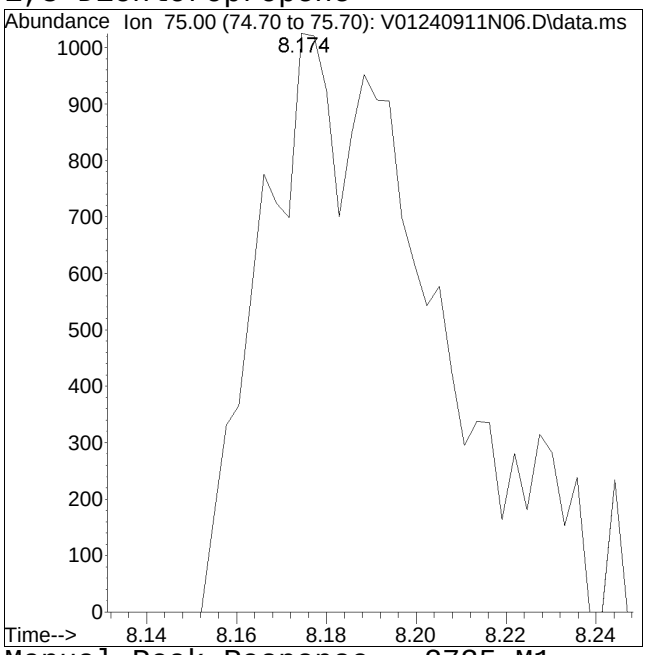
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 1221



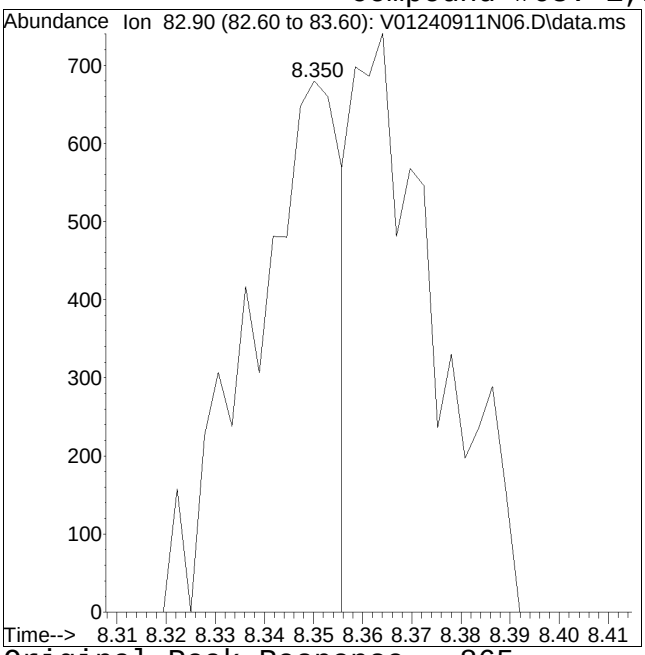
Manual Peak Response = 2735 M1

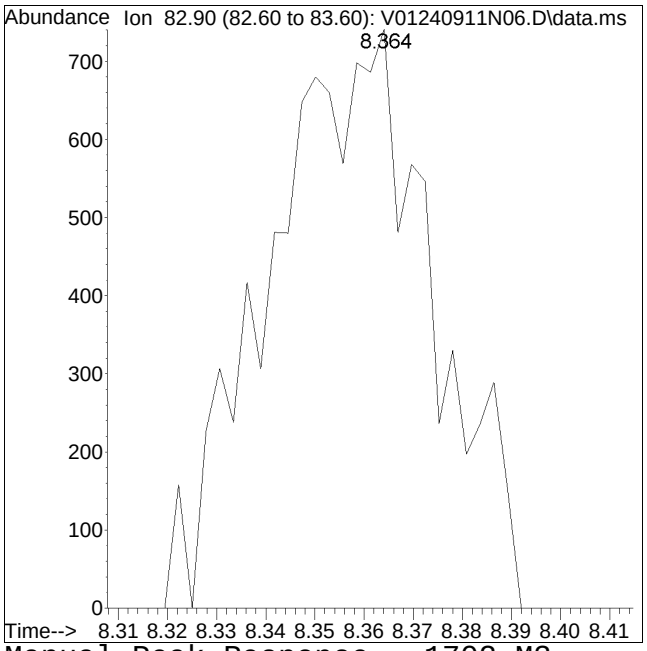
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #68: 1,1,2-Trichloroethane





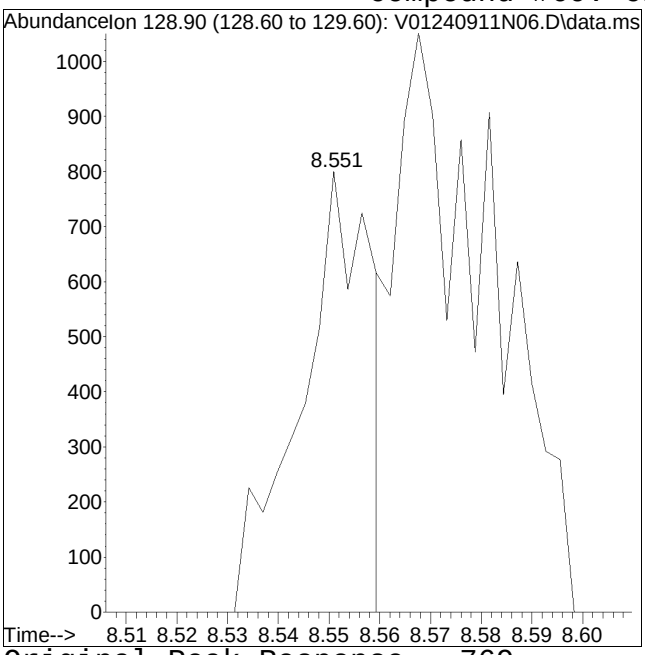
Original Peak Response = 865 Manual Peak Response = 1702 M3

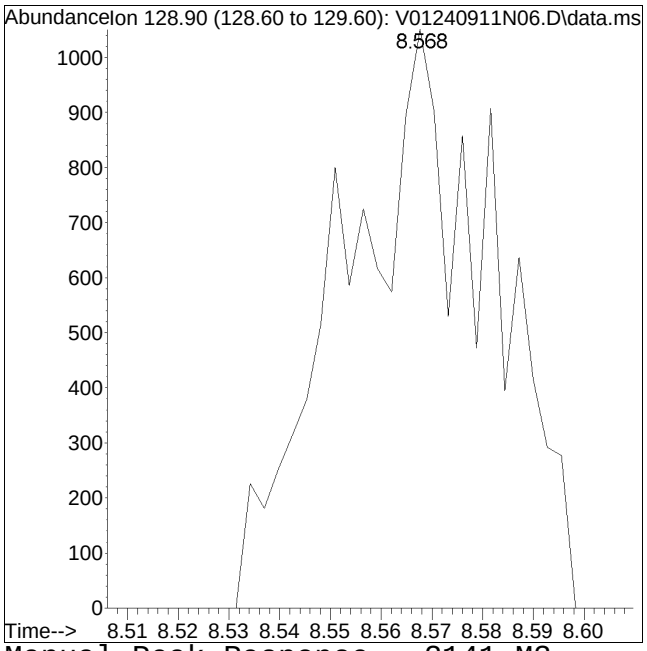
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #69: Chlorodibromomethane





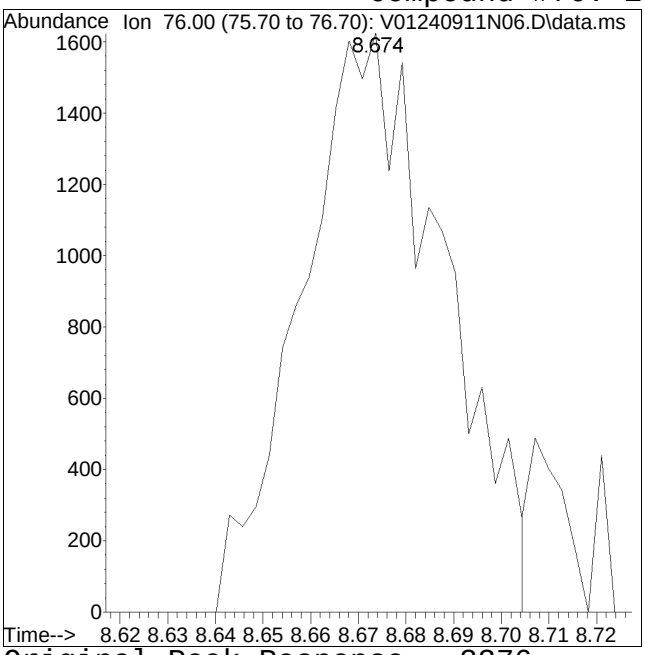
Original Peak Response = 769 Manual Peak Response = 2141 M3

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

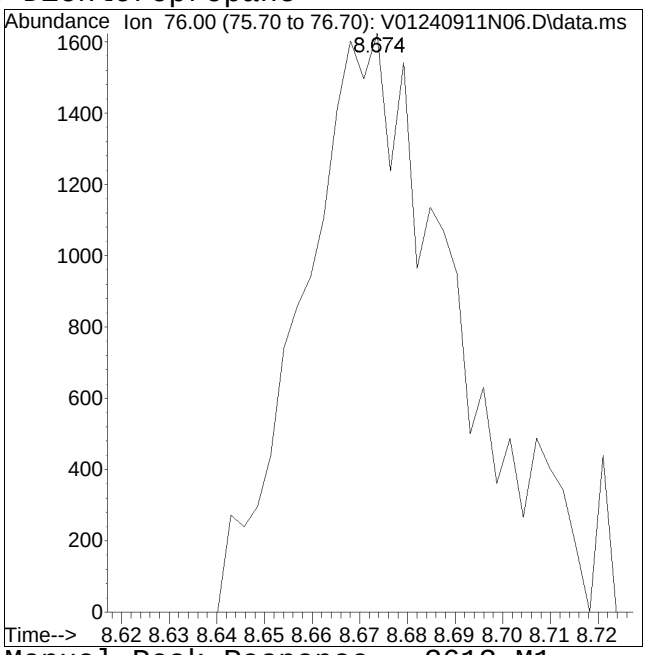
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #70: 1,3-Dichloropropane



Original Peak Response = 3376



Manual Peak Response = 3613 M1

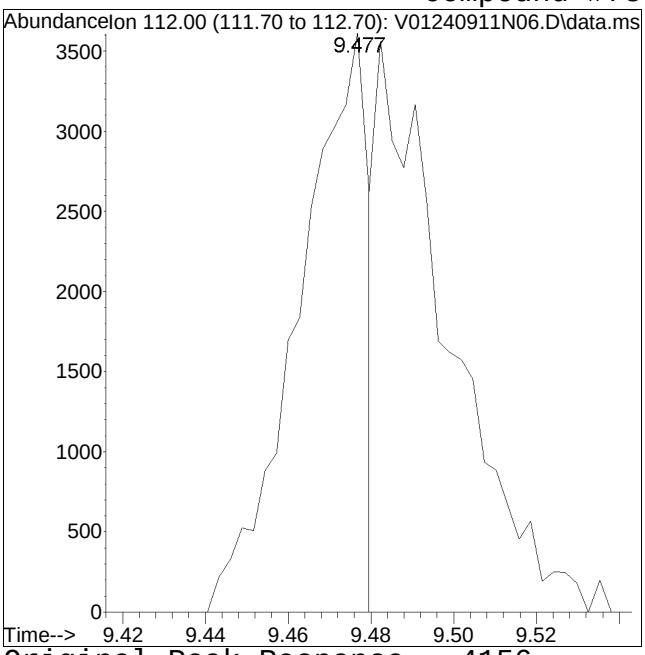
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

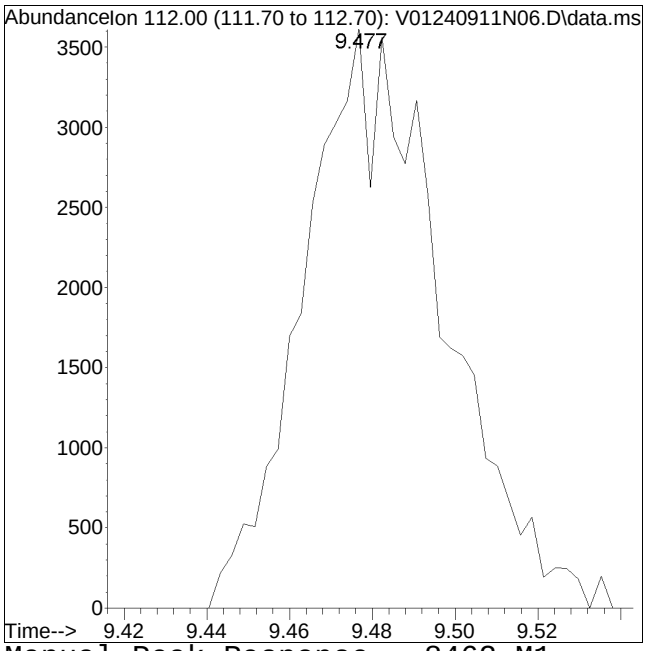
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #73: Chlorobenzene





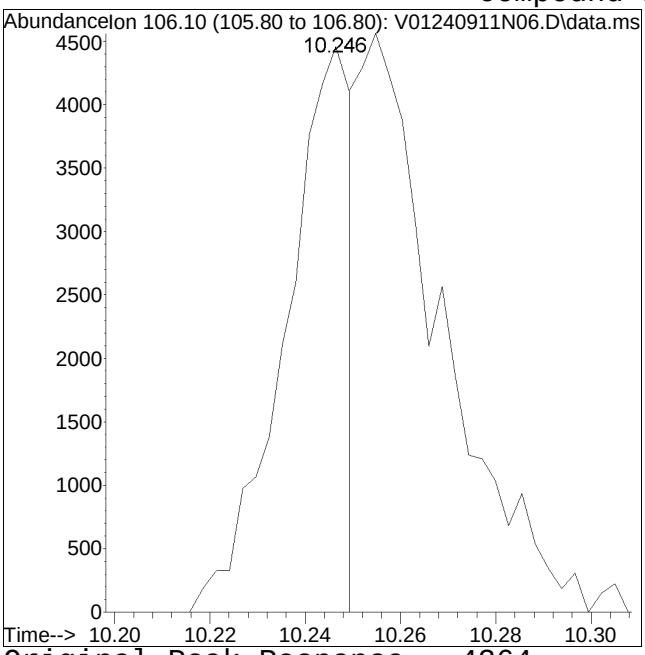
Original Peak Response = 4156 Manual Peak Response = 8462 M1

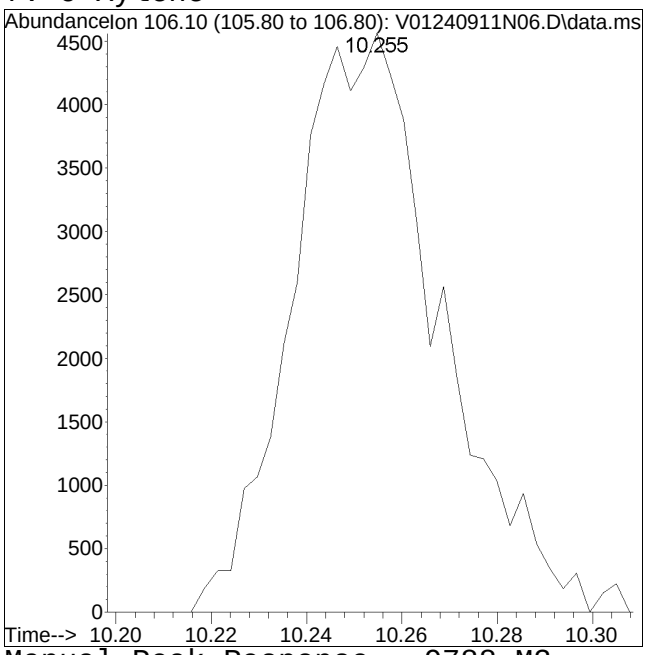
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #77: o Xylene





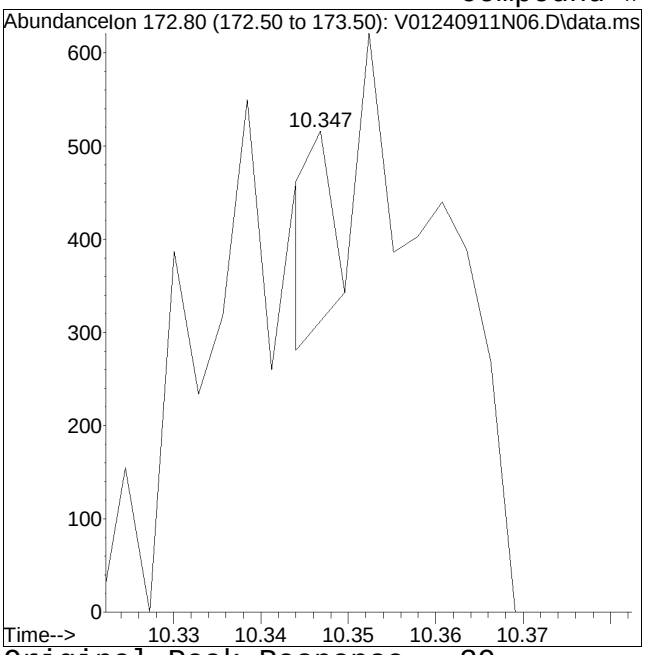
Original Peak Response = 4264 Manual Peak Response = 9788 M3

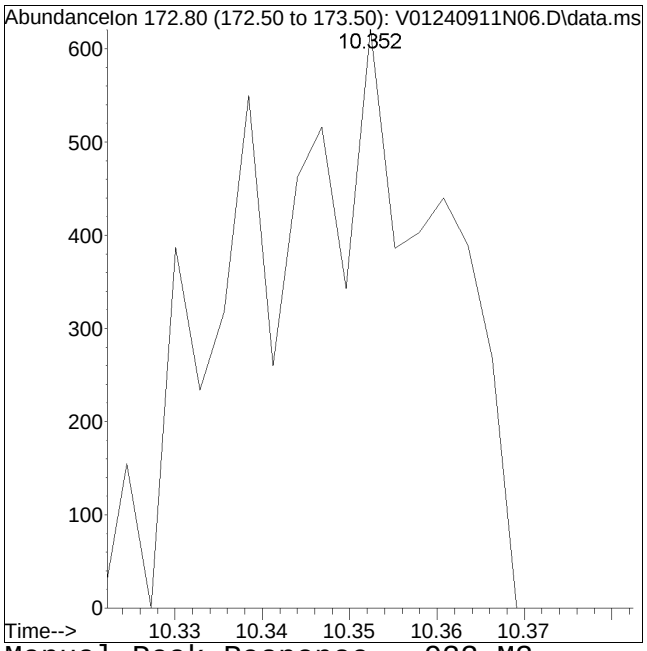
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #80: Bromoform





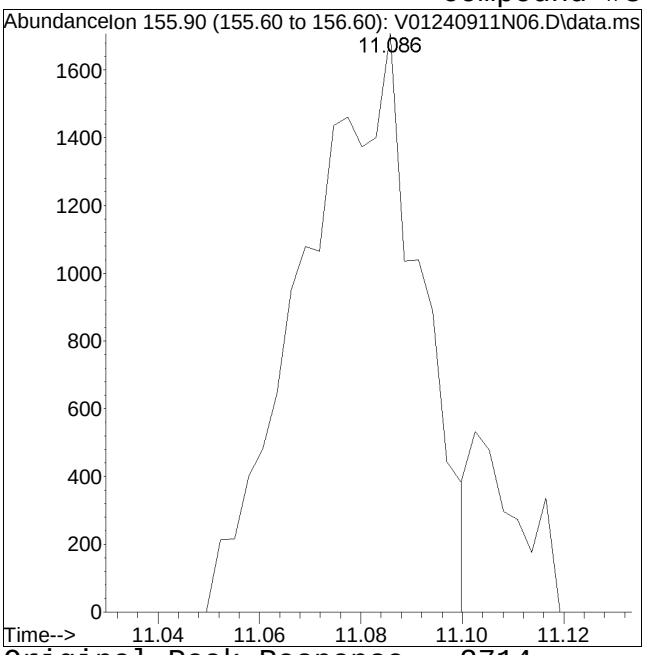
Original Peak Response = 39 Manual Peak Response = 933 M3

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

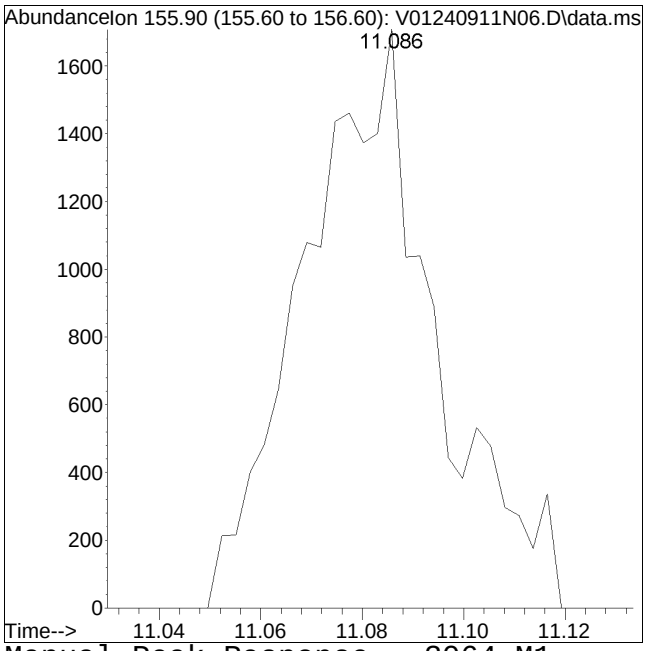
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #84: Bromobenzene



Original Peak Response = 2714



Manual Peak Response = 3064 M1

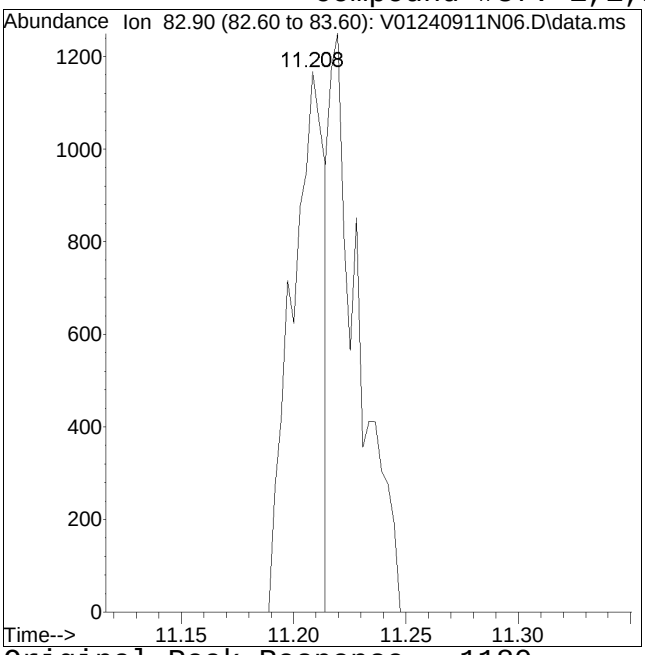
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

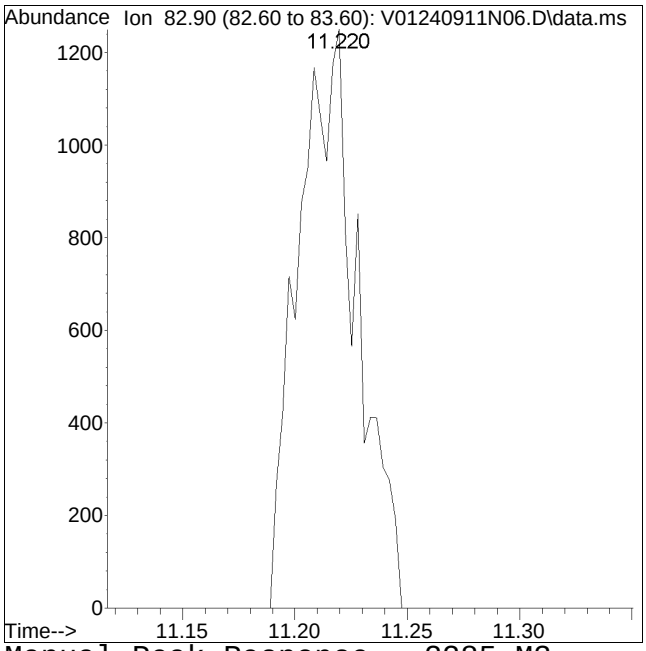
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N06.D
Date Inj'd : 9/12/2024 1:01 am
Sample : I8260STD0.5PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:24 pm

Compound #87: 1,1,2,2-Tetrachloroethane



Original Peak Response = 1180



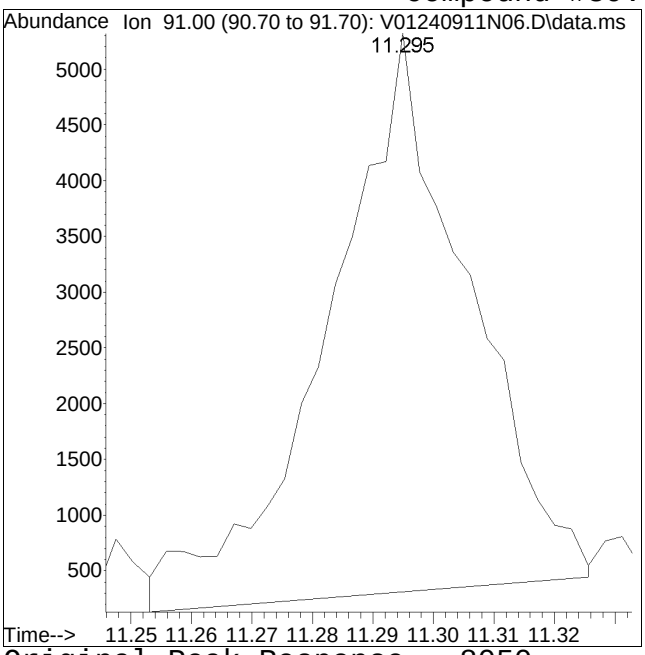
Manual Peak Response = 2285 M3

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

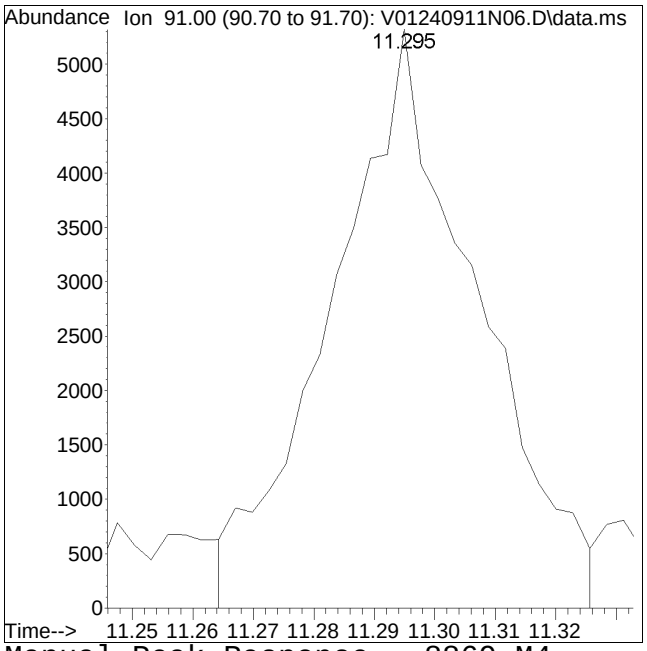
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 8050



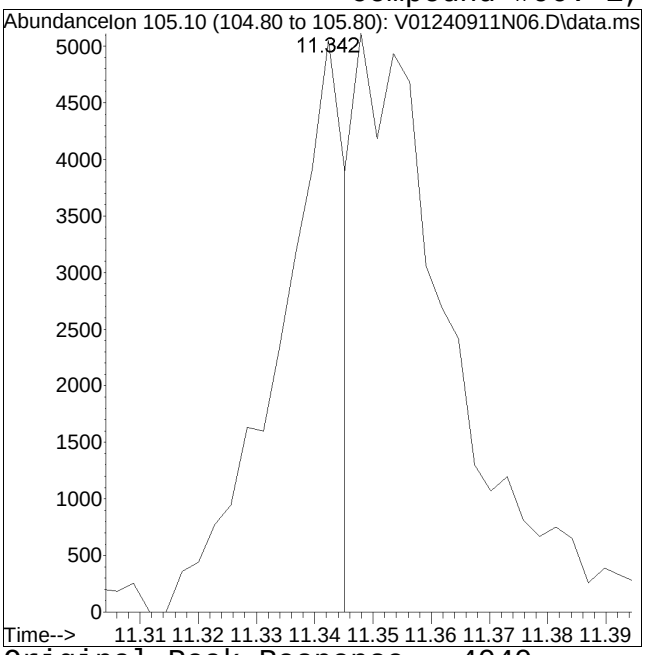
Manual Peak Response = 8869 M4

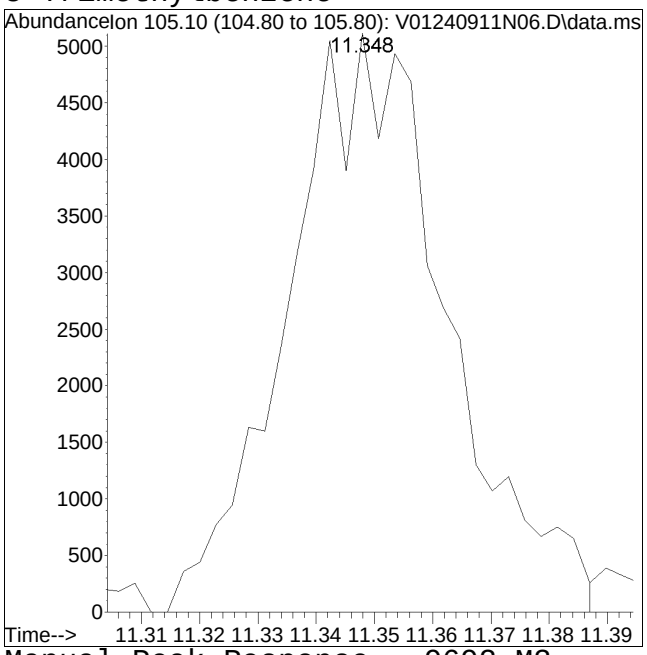
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #90: 1,3,5-Trimethylbenzene





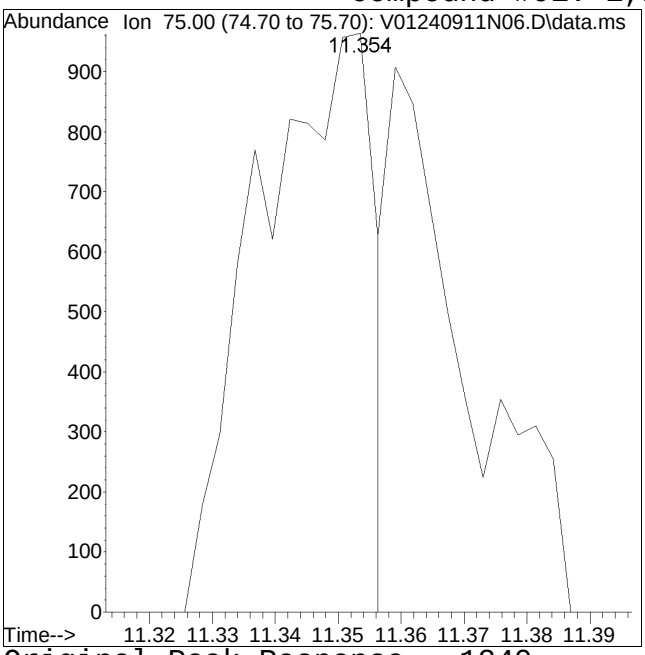
Original Peak Response = 4040 Manual Peak Response = 9692 M3

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

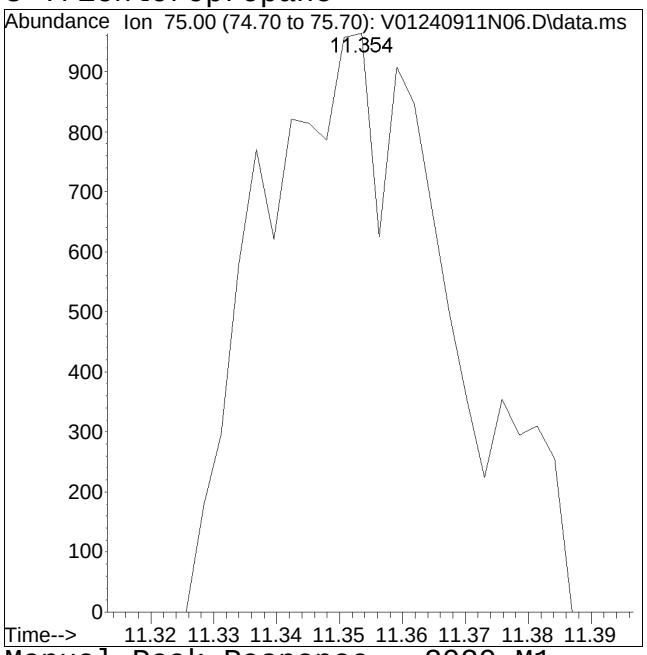
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1240



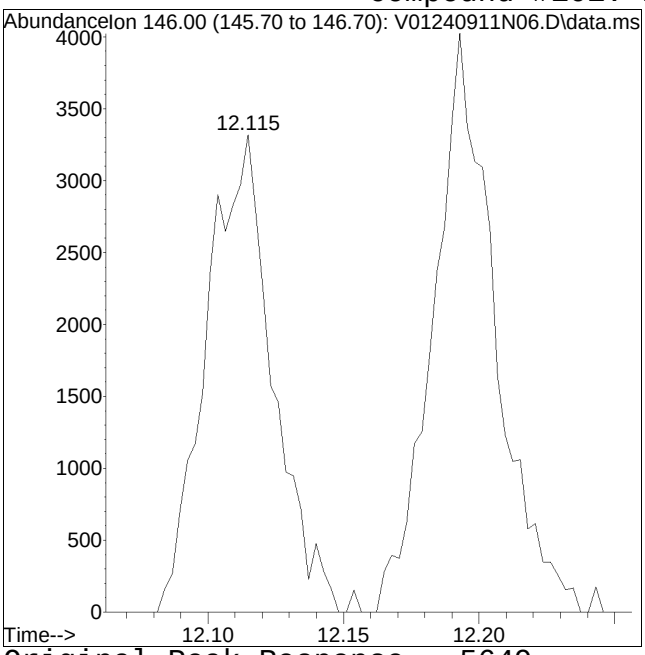
Manual Peak Response = 2029 M1

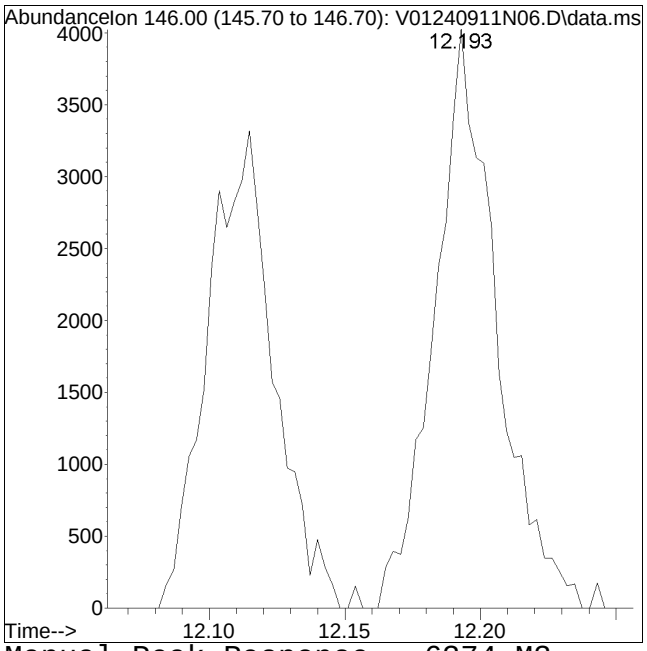
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #101: 1,4-Dichlorobenzene





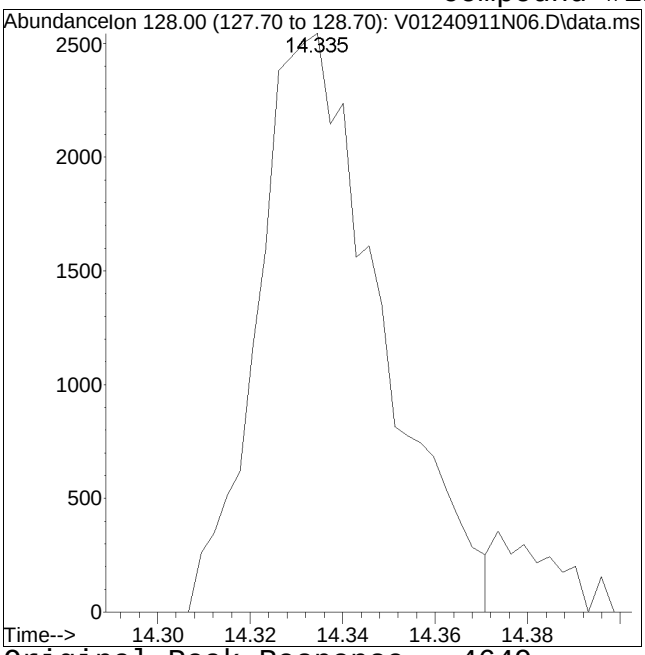
Original Peak Response = 5649 Manual Peak Response = 6374 M3

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

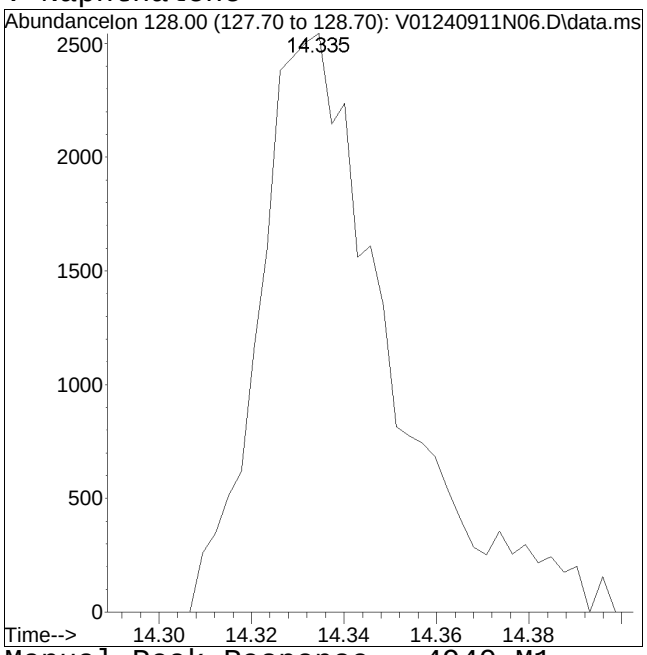
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N06.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:01 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 9/12/2024 12:24 pm

Compound #110: Naphthalene



Original Peak Response = 4649



Manual Peak Response = 4940 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N07.D
Acq On : 12 Sep 2024 1:27 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1970861,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 12:27:41 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:27:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	280125	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 96.58%			
59) Chlorobenzene-d5	9.460	117	217892	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 95.19%			
79) 1,4-Dichlorobenzene-d4	12.179	152	110262	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 93.35%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.138	113	71671	10.077	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.77%			
43) 1,2-Dichloroethane-d4	5.656	65	82493	10.033	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%			
60) Toluene-d8	7.617	98	272178	9.965	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.65%			
83) 4-Bromofluorobenzene	10.963	95	97576	10.057	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.57%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	16278	2.298	ug/L	97
3) Chloromethane	1.830	50	18772	2.268	ug/L	96
4) Vinyl chloride	1.900	62	22876	2.290	ug/L	74
5) Bromomethane	2.198	94	13523	2.134	ug/L	98
6) Chloroethane	2.307	64	27854	2.098	ug/L	94
7) Trichlorofluoromethane	2.446	101	51340	2.251	ug/L	100
8) Ethyl ether	2.736	74	12937	2.104	ug/L	95
10) 1,1-Dichloroethene	2.918	96	11931	2.069	ug/L	96
11) Carbon disulfide	2.951	76	34654	1.980	ug/L	99
12) Freon-113	2.957	101	12935	2.249	ug/L	88
13) Iodomethane	3.054	142	13555	2.109	ug/L	99
14) Acrolein	3.247	56	795M1	1.791	ug/L	
15) Methylene chloride	3.467	84	13832	2.003	ug/L	98
17) Acetone	3.517	43	3531M1	1.287	ug/L	
18) trans-1,2-Dichloroethene	3.618	96	13420	2.168	ug/L	95
19) Methyl acetate	3.637	43	6053M1	2.157	ug/L	
20) Methyl tert-butyl ether	3.721	73	29789	2.089	ug/L #	91
21) tert-Butyl alcohol	3.816	59	2504M1	9.643	ug/L	
22) Diisopropyl ether	4.072	45	39759	2.121	ug/L	96
23) 1,1-Dichloroethane	4.189	63	25203	2.203	ug/L	99
24) Halothane	4.237	117	9596M1	2.127	ug/L	

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N07.D
Acq On : 12 Sep 2024 1:27 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1970861,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 12:27:41 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:27:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.256	53	2246M3	1.951	ug/L		
26) Ethyl tert-butyl ether	4.415	59	32516M3	2.094	ug/L		
27) Vinyl acetate	4.432	43	17912	2.101	ug/L	#	92
28) cis-1,2-Dichloroethene	4.705	96	14669	2.117	ug/L		97
29) 2,2-Dichloropropane	4.800	77	18095	2.168	ug/L	#	82
30) Bromochloromethane	4.898	128	6631	2.092	ug/L		98
31) Cyclohexane	4.892	56	22341	2.270	ug/L		93
32) Chloroform	4.970	83	25602M3	2.181	ug/L		
33) Ethyl acetate	5.082	43	7017M1	2.009	ug/L		
34) Carbon tetrachloride	5.101	117	18840M3	2.374	ug/L		
35) Tetrahydrofuran	5.129	42	2204M6	1.903	ug/L		
37) 1,1,1-Trichloroethane	5.165	97	23054	2.237	ug/L	#	83
39) 2-Butanone	5.263	43	3205M1	2.114	ug/L		
40) 1,1-Dichloropropene	5.285	75	18629	2.193	ug/L		99
41) Benzene	5.525	78	55258	2.185	ug/L		99
42) tert-Amyl methyl ether	5.634	73	28404	2.096	ug/L	#	79
44) 1,2-Dichloroethane	5.731	62	16704	2.141	ug/L		99
47) Methyl cyclohexane	6.102	83	22677	2.244	ug/L		98
48) Trichloroethene	6.125	95	15578	2.348	ug/L		99
50) Dibromomethane	6.560	93	7190	2.091	ug/L		96
51) 1,2-Dichloropropane	6.652	63	13550M1	2.182	ug/L		
53) 2-Chloroethyl vinyl ether	7.352	63	4599M1	2.129	ug/L		
54) Bromodichloromethane	6.733	83	16514	2.064	ug/L		99
57) 1,4-Dioxane	6.942	88	14072M1	411.387	ug/L		
58) cis-1,3-Dichloropropene	7.416	75	17219	2.090	ug/L		90
61) Toluene	7.675	92	36010	2.115	ug/L		96
62) 4-Methyl-2-pentanone	8.124	58	2064M1	1.906	ug/L		
63) Tetrachloroethene	8.133	166	14681	2.245	ug/L	#	79
65) trans-1,3-Dichloropropene	8.169	75	13313	2.007	ug/L	#	75
67) Ethyl methacrylate	8.358	69	8639	1.738	ug/L		77
68) 1,1,2-Trichloroethane	8.347	83	7998	2.090	ug/L	#	83
69) Chlorodibromomethane	8.562	129	10381	2.048	ug/L		99
70) 1,3-Dichloropropane	8.662	76	16524	2.077	ug/L		98
71) 1,2-Dibromoethane	8.835	107	9095	2.220	ug/L		99
72) 2-Hexanone	9.148	43	3461M1	1.827	ug/L		
73) Chlorobenzene	9.479	112	38826	2.131	ug/L	#	67
74) Ethylbenzene	9.516	91	66524	2.124	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.563	131	11944	2.058	ug/L		94
76) p/m Xylene	9.703	106	51920	4.398	ug/L		96
77) o Xylene	10.243	106	48182	4.266	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N07.D
Acq On : 12 Sep 2024 1:27 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1970861,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 12:27:41 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:27:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.316	104	70663	4.253	ug/L		96
80) Bromoform	10.344	173	5089	2.094	ug/L		90
82) Isopropylbenzene	10.637	105	65432	2.210	ug/L		99
84) Bromobenzene	11.072	156	15088	2.153	ug/L		98
85) n-Propylbenzene	11.119	91	76578	2.194	ug/L		98
86) 1,4-Dichlorobutane	11.133	55	15583	2.079	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.208	83	10816	2.110	ug/L		98
88) 4-Ethyltoluene	11.245	105	61325	2.185	ug/L		96
89) 2-Chlorotoluene	11.292	91	43841M1	2.136	ug/L		
90) 1,3,5-Trimethylbenzene	11.348	105	49228	2.108	ug/L		99
91) 1,2,3-Trichloropropane	11.345	75	8954M4	2.089	ug/L		
92) trans-1,4-Dichloro-2-b...	11.409	53	2327M1	1.812	ug/L		
93) 4-Chlorotoluene	11.470	91	43113	2.163	ug/L		99
94) tert-Butylbenzene	11.685	119	43336	2.190	ug/L		97
97) 1,2,4-Trimethylbenzene	11.766	105	49236	2.144	ug/L		98
98) sec-Butylbenzene	11.878	105	62589	2.153	ug/L		100
99) p-Isopropyltoluene	12.034	119	50422	2.202	ug/L		99
100) 1,3-Dichlorobenzene	12.106	146	27218	2.097	ug/L		99
101) 1,4-Dichlorobenzene	12.196	146	28942	2.098	ug/L		99
102) p-Diethylbenzene	12.410	119	27567	2.214	ug/L		98
103) n-Butylbenzene	12.466	91	42137	2.173	ug/L		99
104) 1,2-Dichlorobenzene	12.619	146	24081	2.052	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.202	119	35022	2.104	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.397	155	962	2.669	ug/L		90
107) 1,3,5-Trichlorobenzene	13.431	180	13051	2.073	ug/L		95
108) Hexachlorobutadiene	14.008	225	4546	2.208	ug/L		98
109) 1,2,4-Trichlorobenzene	14.033	180	10024	2.059	ug/L		95
110) Naphthalene	14.326	128	20287	1.947	ug/L		100
111) 1,2,3-Trichlorobenzene	14.491	180	7989	2.069	ug/L	#	87

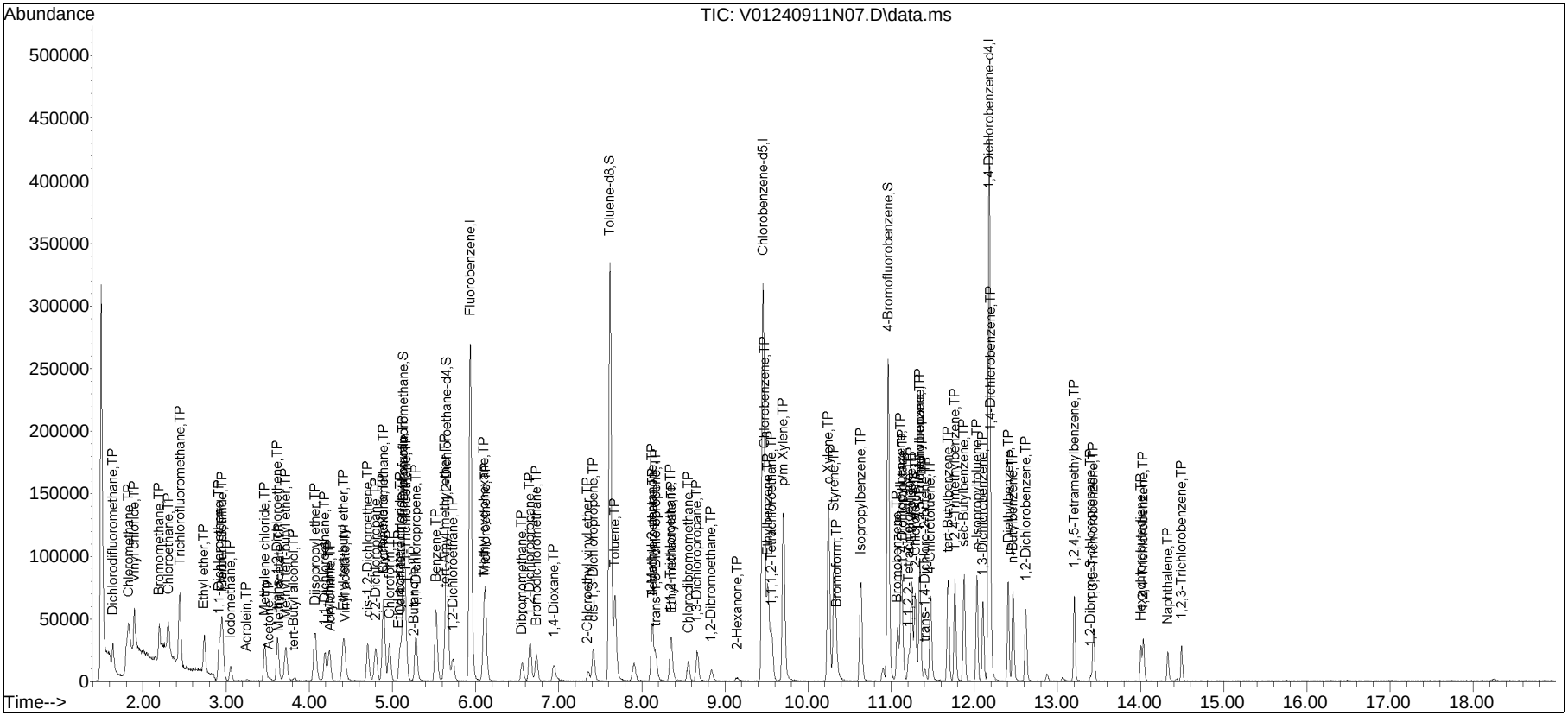
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N07.D
Acq On : 12 Sep 2024 1:27 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1970861,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 12:27:41 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:27:20 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

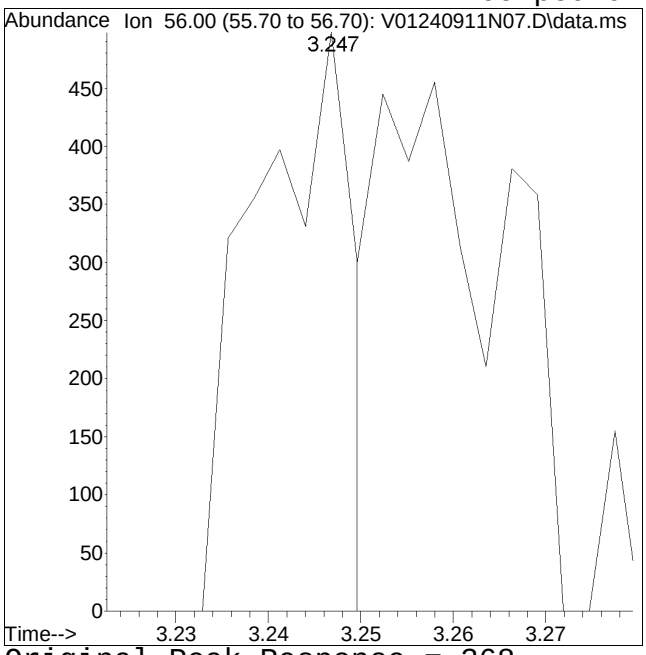


Manual Integration Report

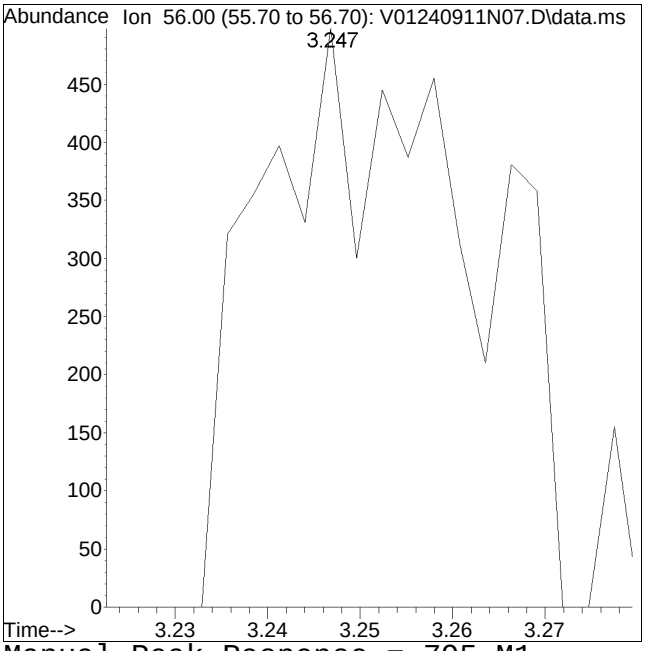
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N07.D
Date Inj'd : 9/12/2024 1:27 am
Sample : I8260STD2PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:27 pm

Compound #14: Acrolein



Original Peak Response = 368



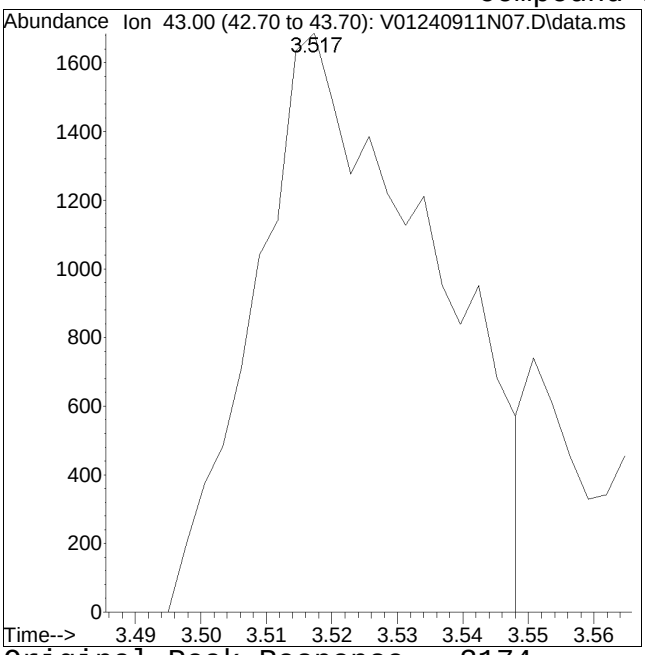
Manual Peak Response = 795 M1

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

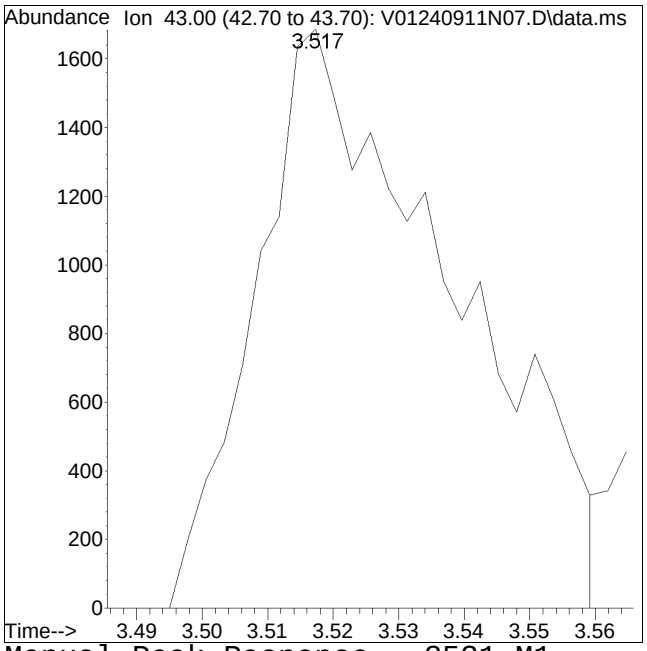
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #17: Acetone



Original Peak Response = 3174



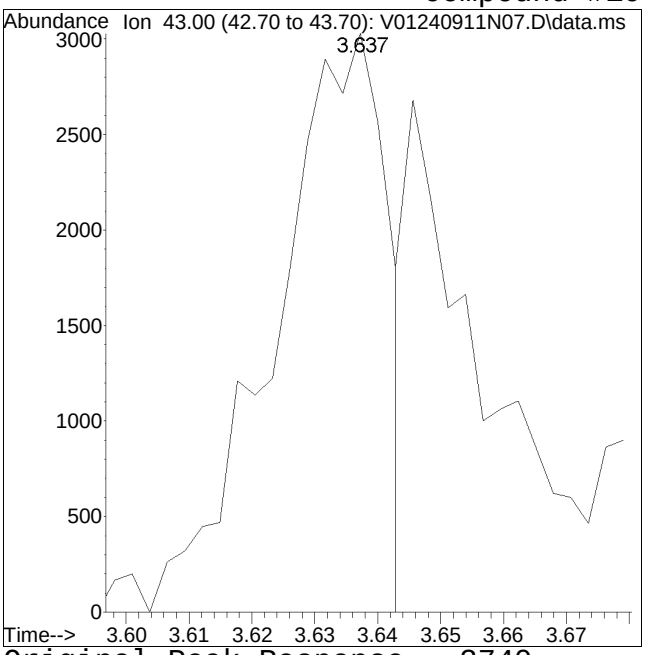
Manual Peak Response = 3531 M1

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

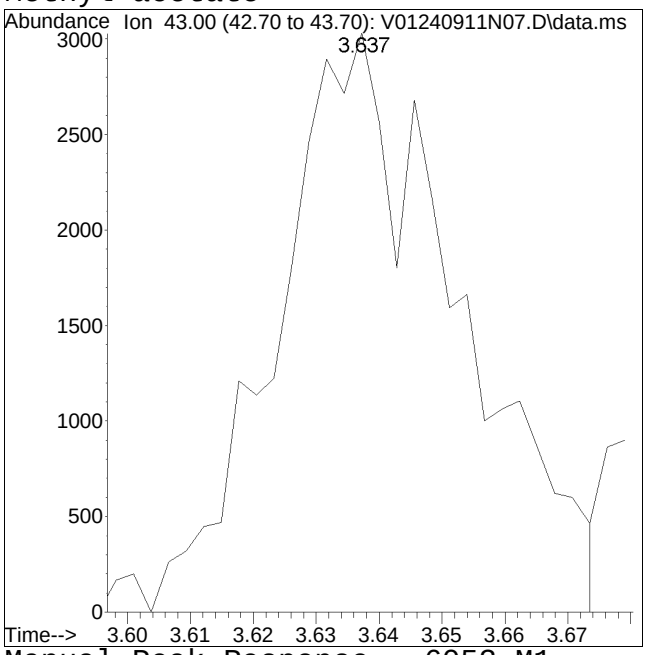
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #19: Methyl acetate



Original Peak Response = 3740



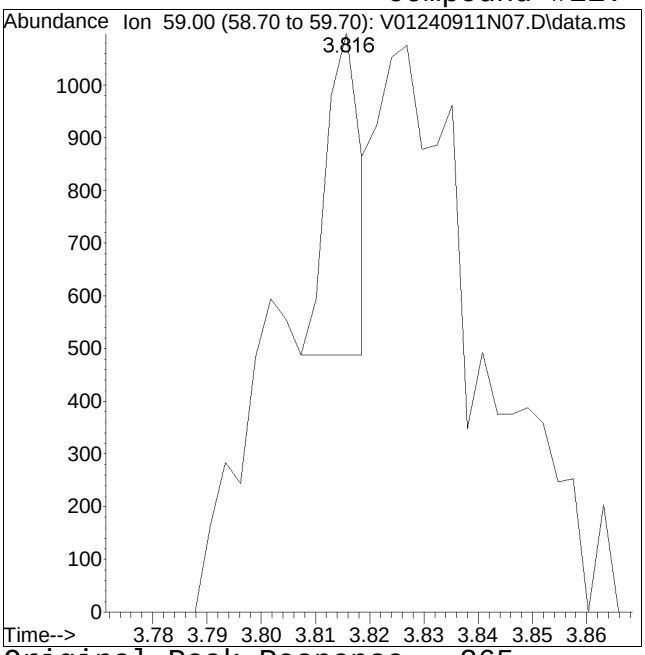
Manual Peak Response = 6053 M1

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

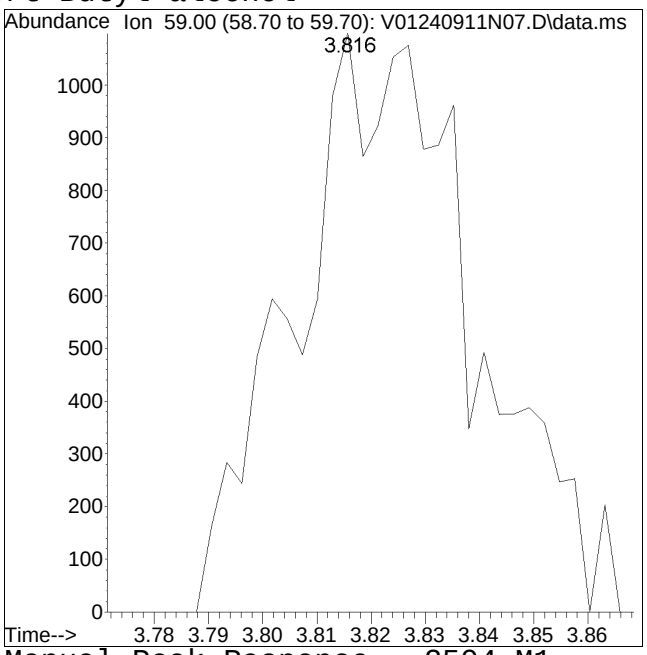
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #21: tert-Butyl alcohol



Original Peak Response = 265



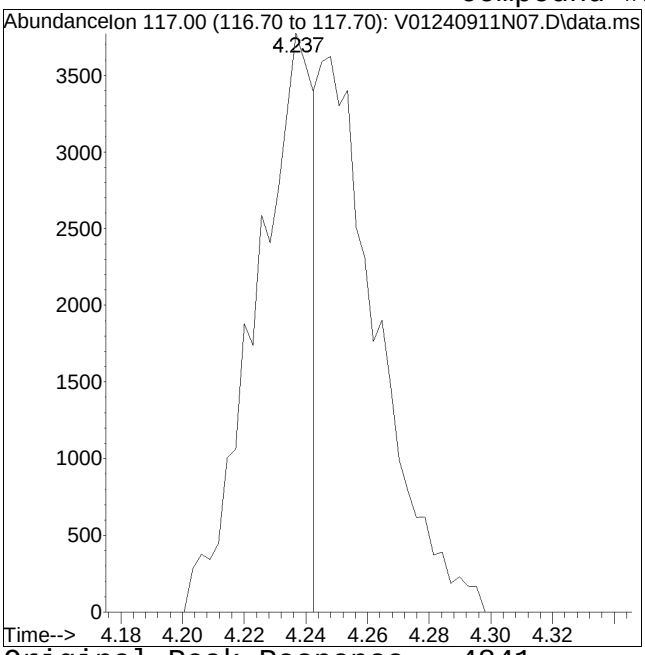
Manual Peak Response = 2504 M1

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

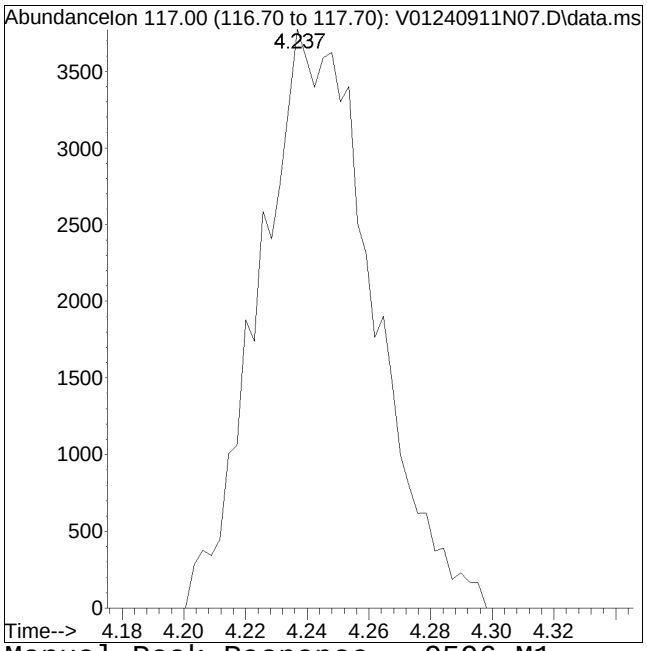
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #24: Halothane



Original Peak Response = 4841



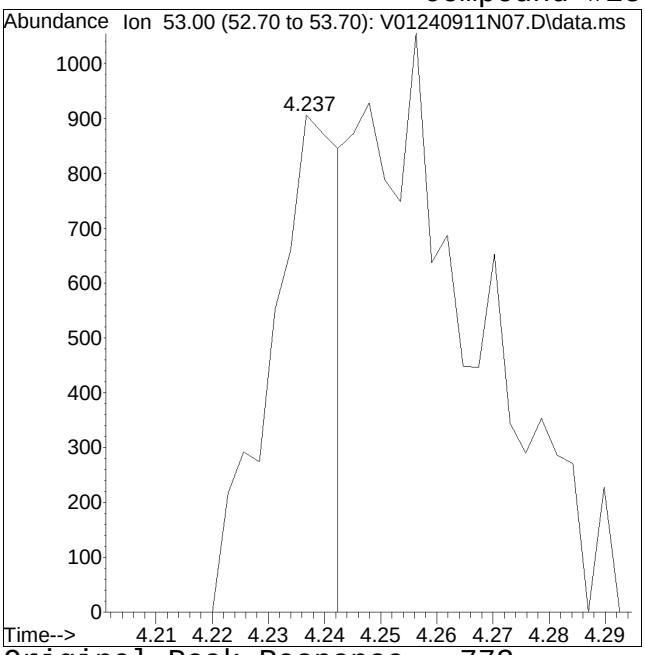
Manual Peak Response = 9596 M1

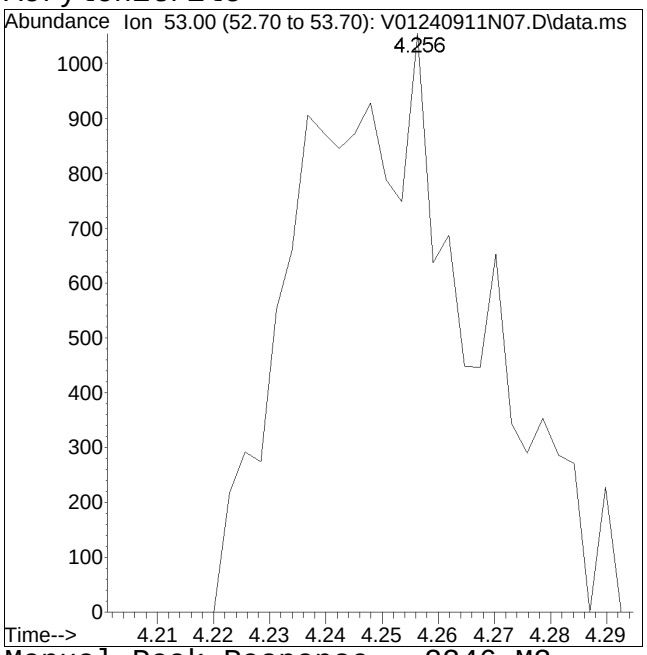
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #25: Acrylonitrile





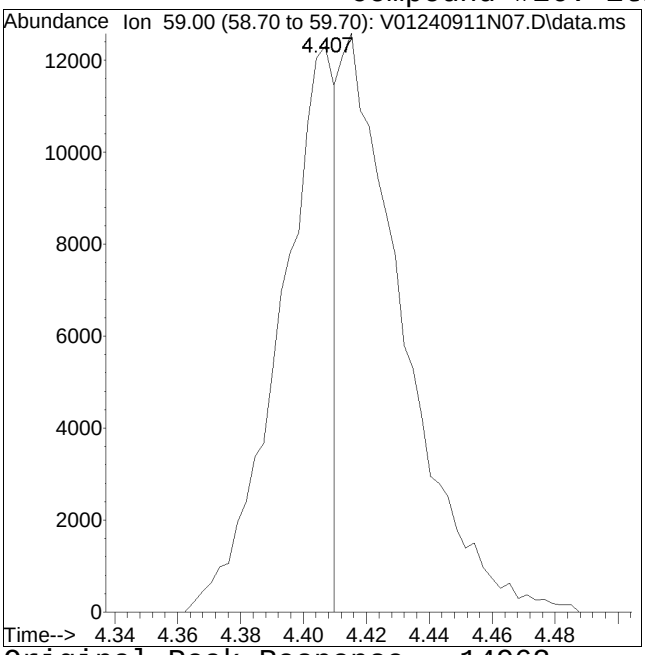
Original Peak Response = 773 Manual Peak Response = 2246 M3

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

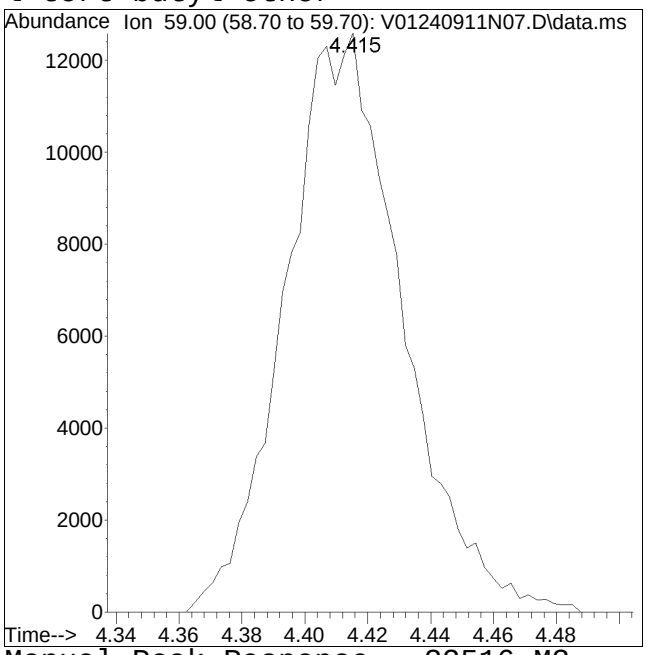
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 14962



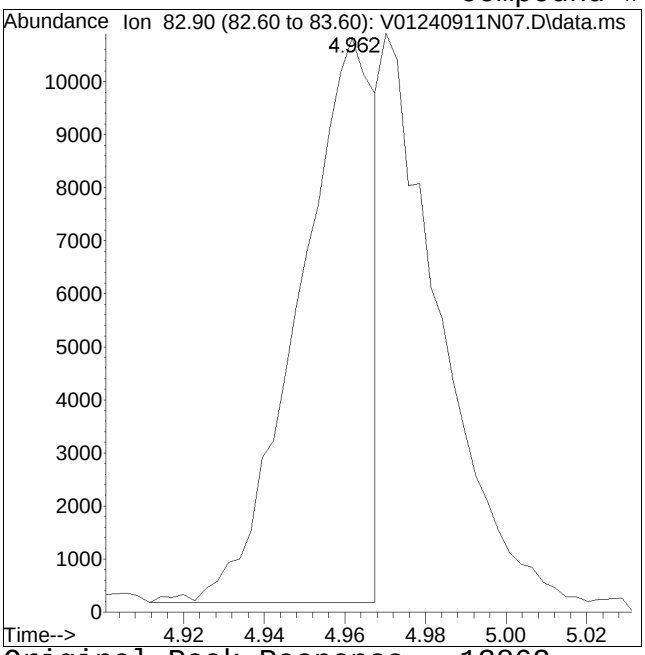
Manual Peak Response = 32516 M3

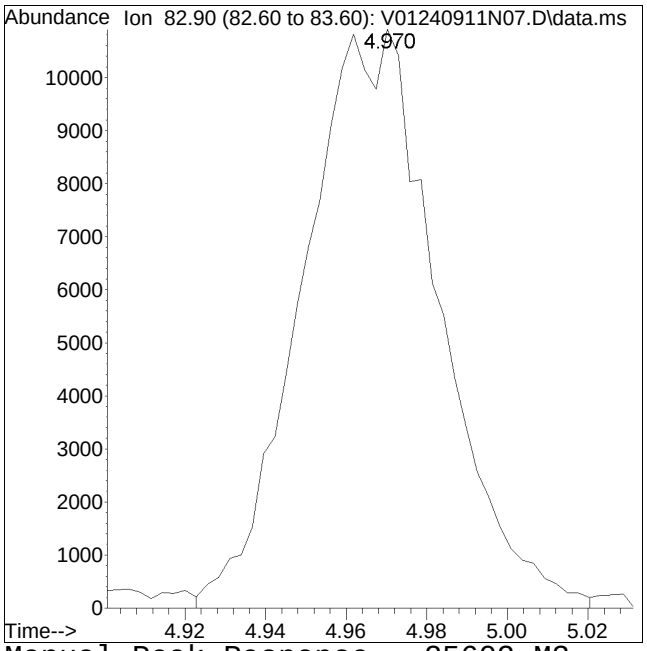
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #32: Chloroform





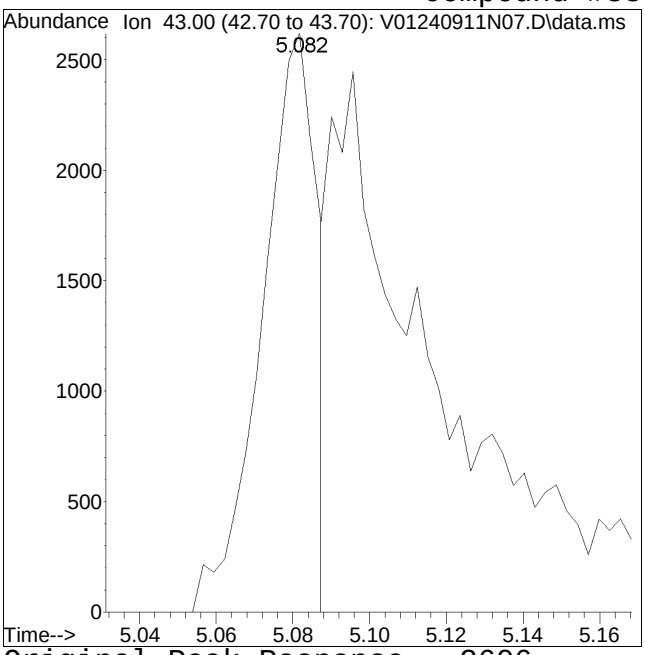
Original Peak Response = 13862 Manual Peak Response = 25602 M3

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

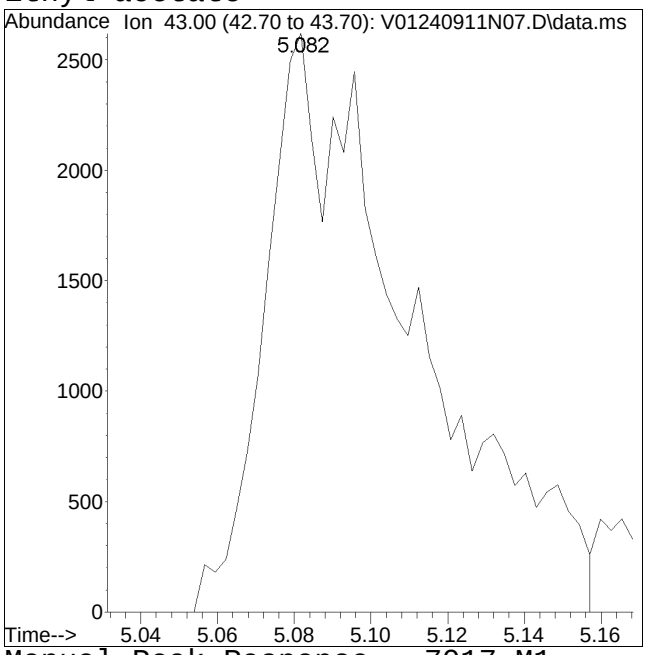
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #33: Ethyl acetate



Original Peak Response = 2606



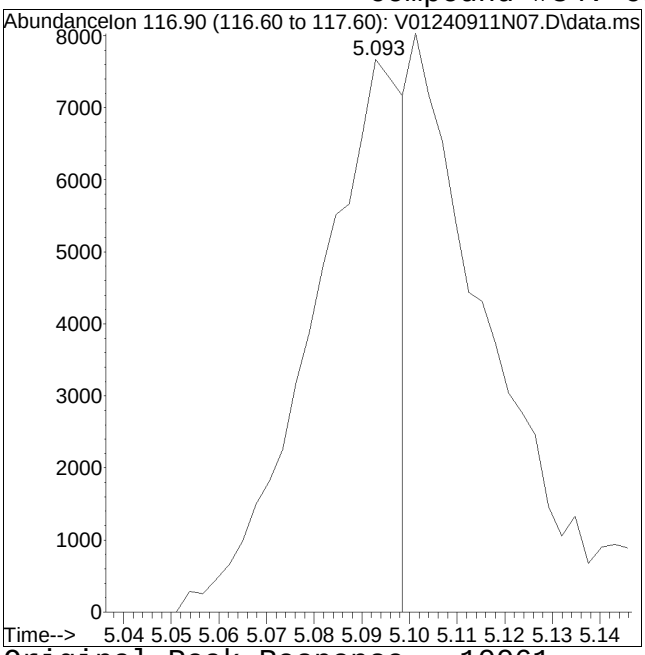
Manual Peak Response = 7017 M1

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

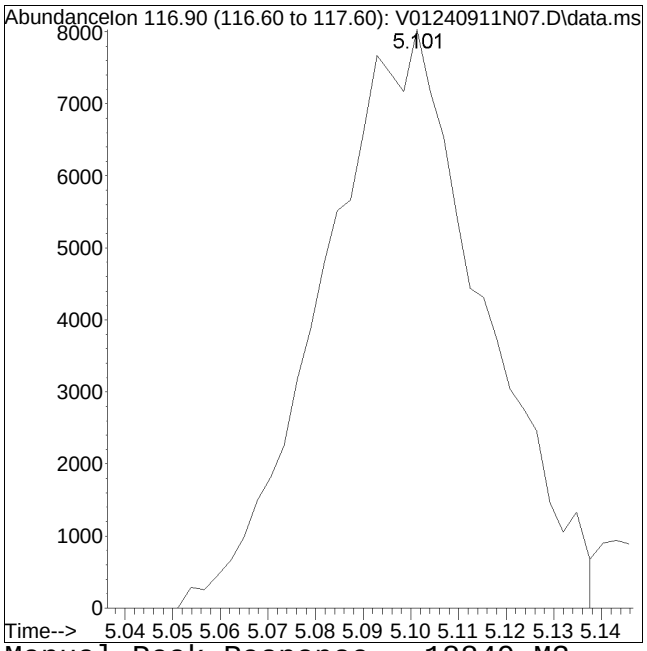
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #34: Carbon tetrachloride



Original Peak Response = 10061

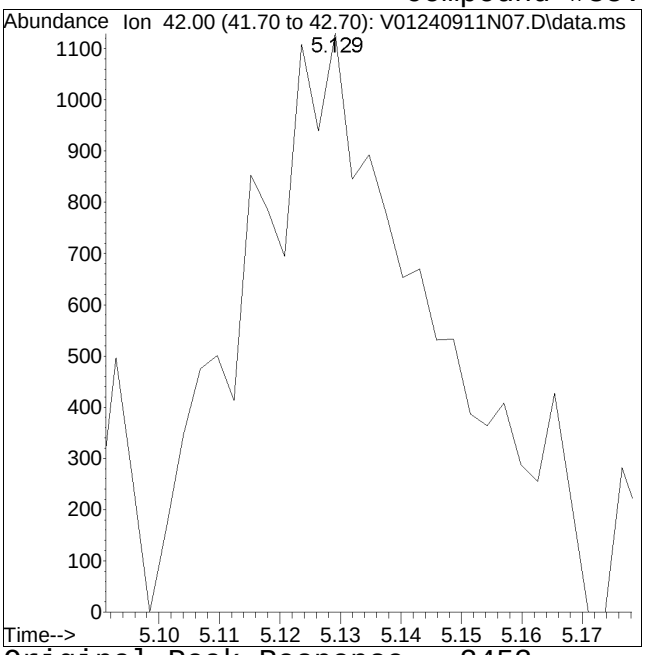


Manual Peak Response = 18840 M3

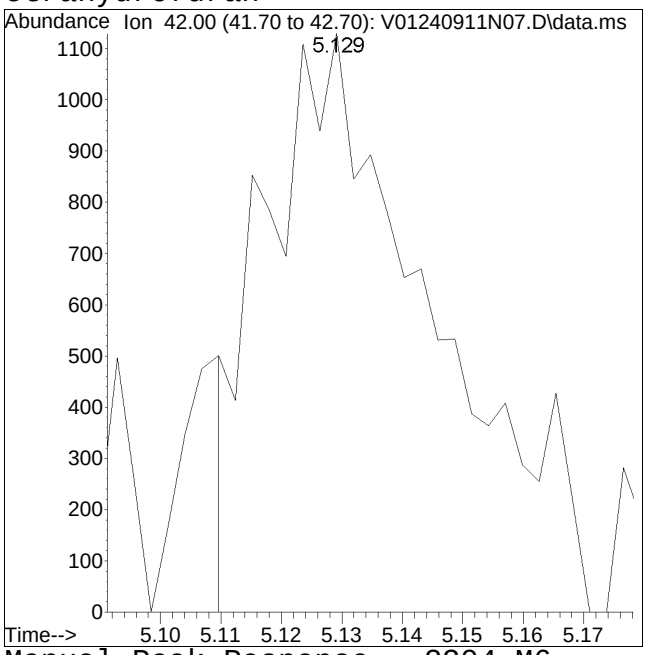
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 2453



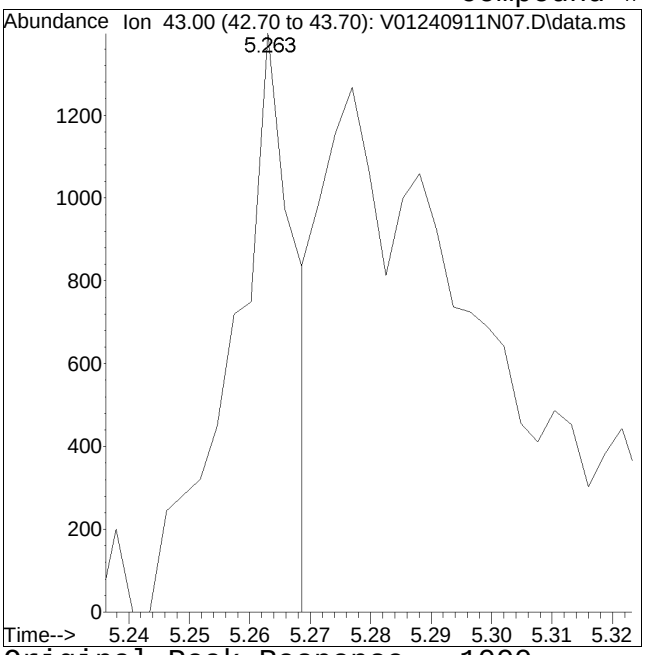
Manual Peak Response = 2204 M6

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

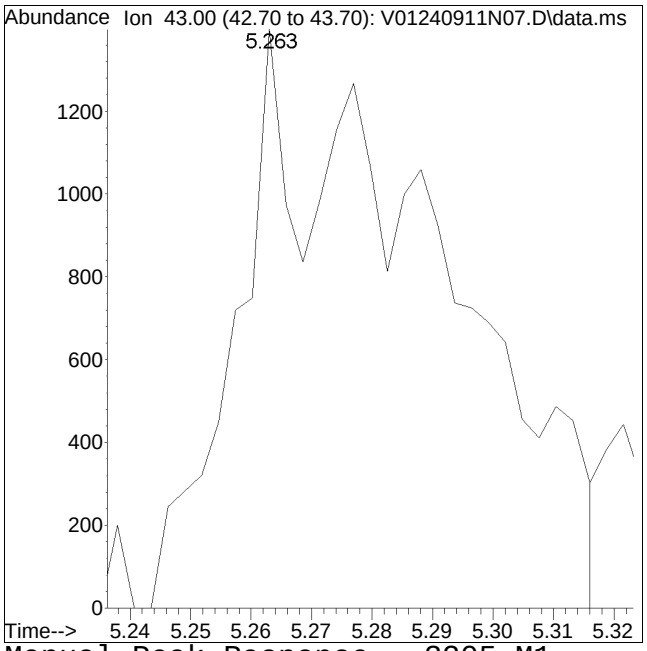
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #39: 2-Butanone



Original Peak Response = 1000



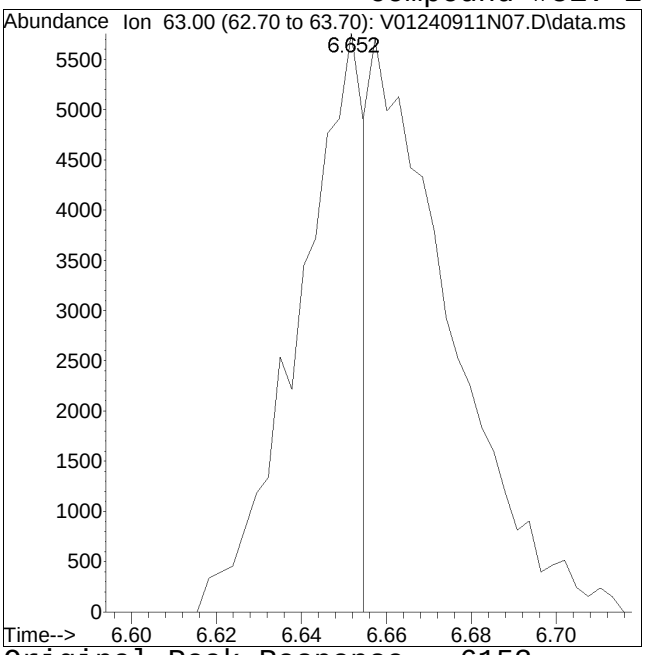
Manual Peak Response = 3205 M1

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

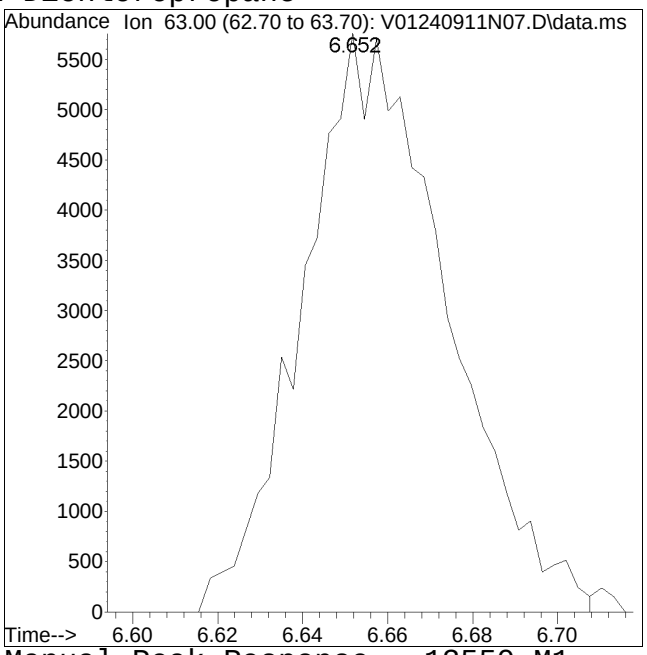
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #51: 1,2-Dichloropropane



Original Peak Response = 6153



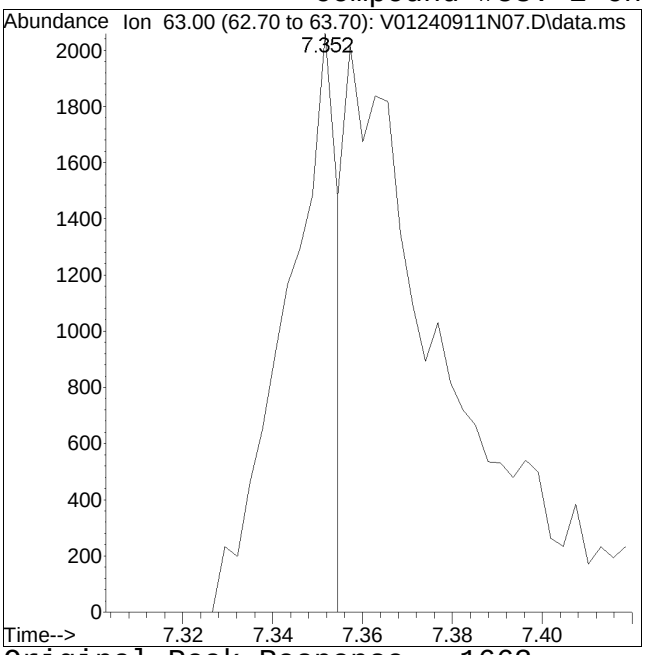
Manual Peak Response = 13550 M1

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

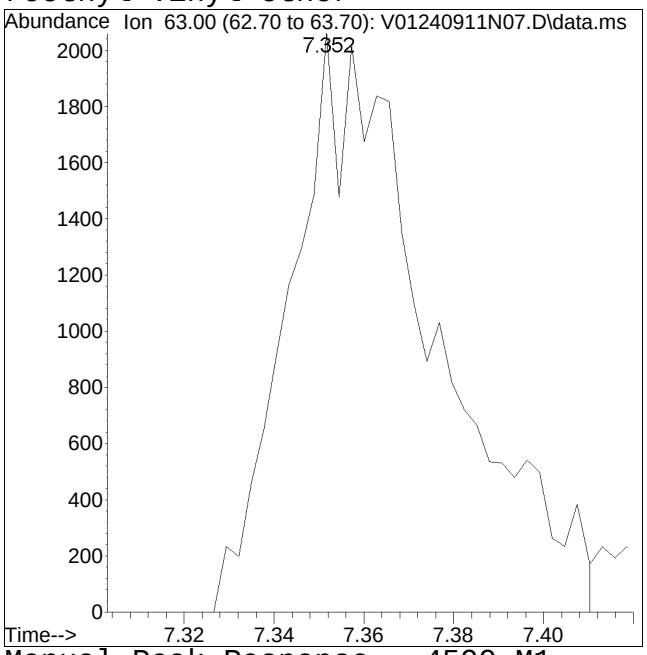
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 1663



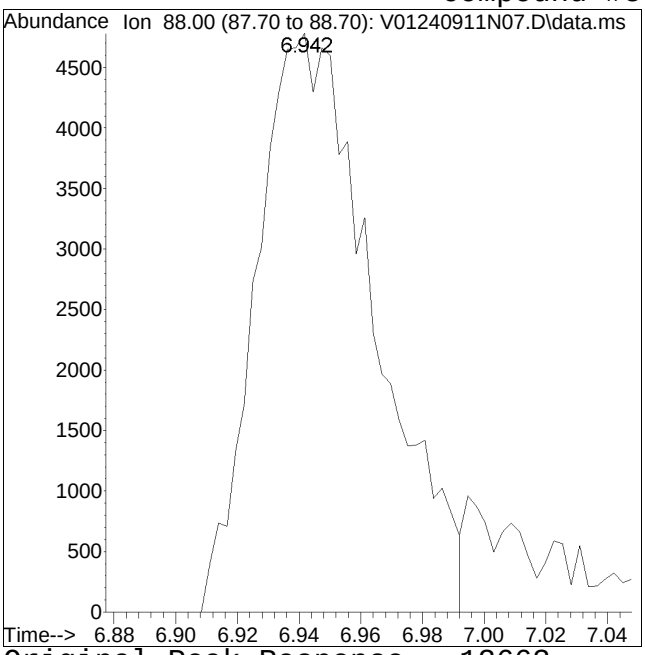
Manual Peak Response = 4599 M1

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

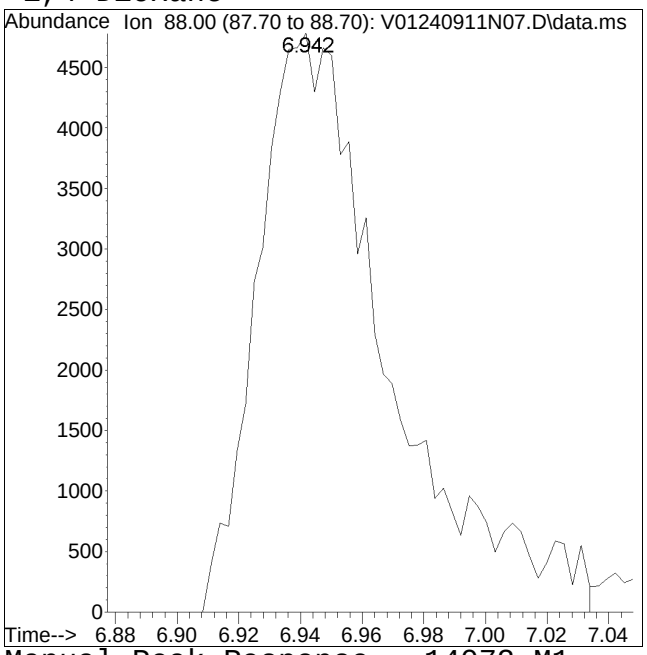
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 12663



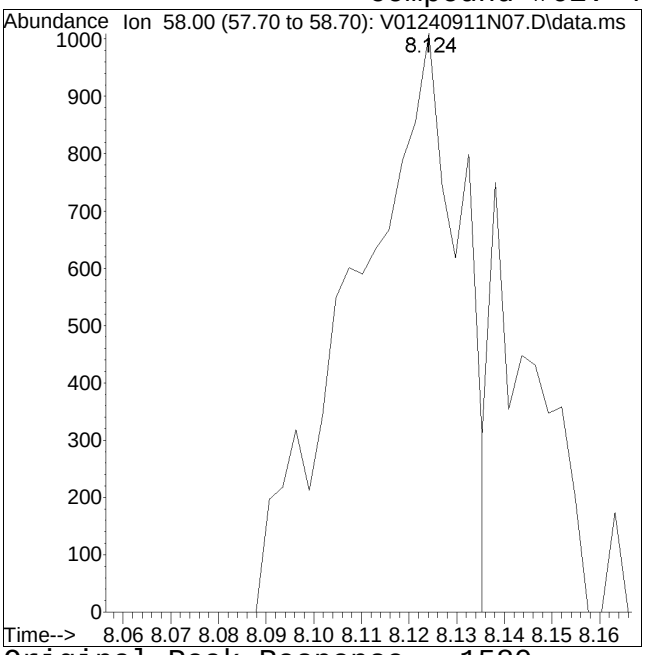
Manual Peak Response = 14072 M1

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

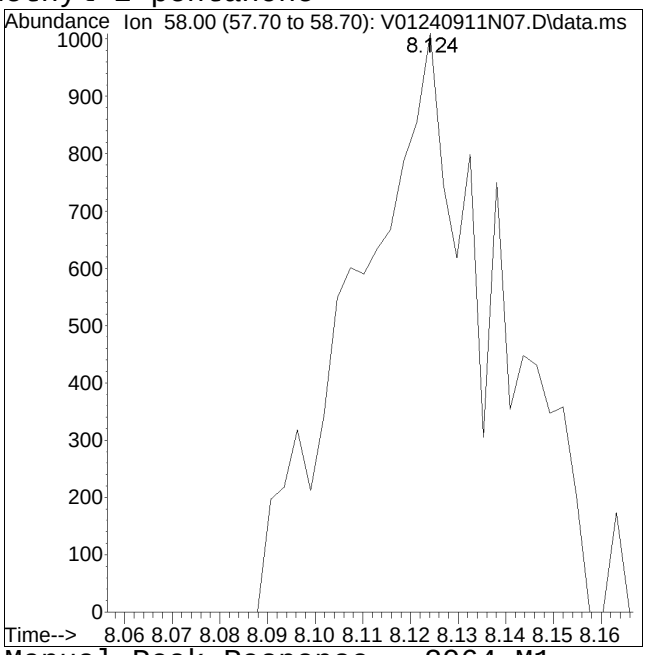
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 1580



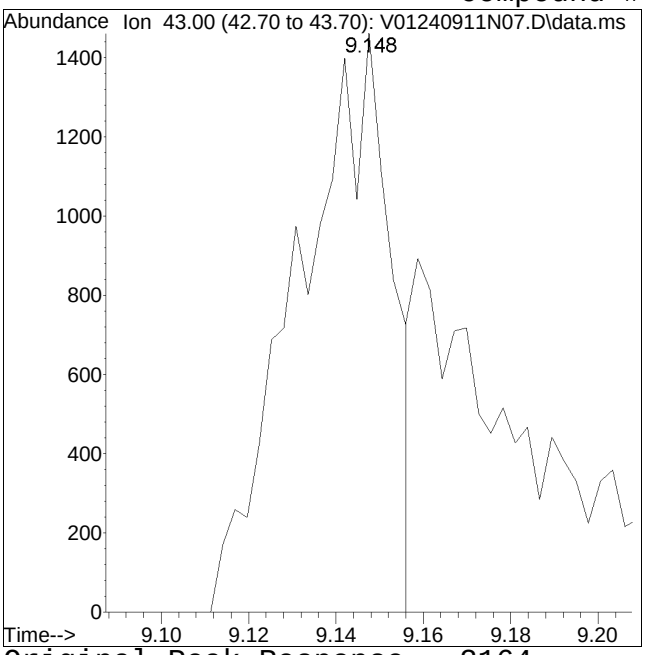
Manual Peak Response = 2064 M1

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

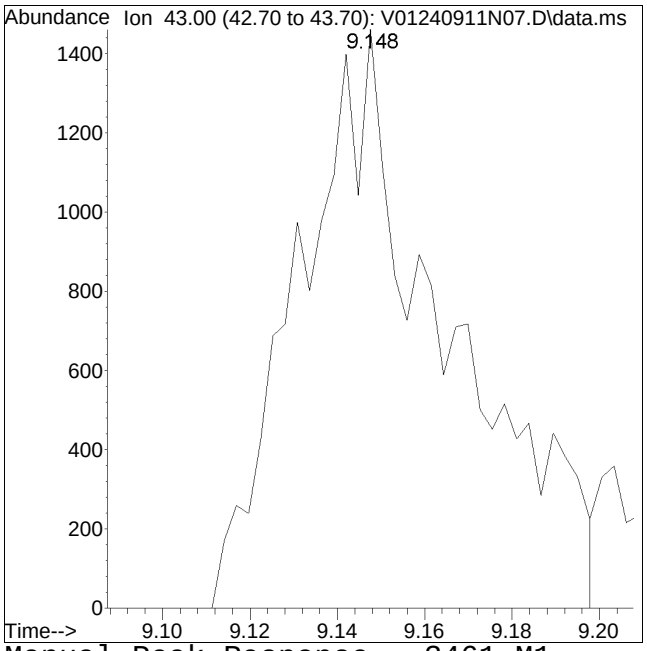
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #72: 2-Hexanone



Original Peak Response = 2164



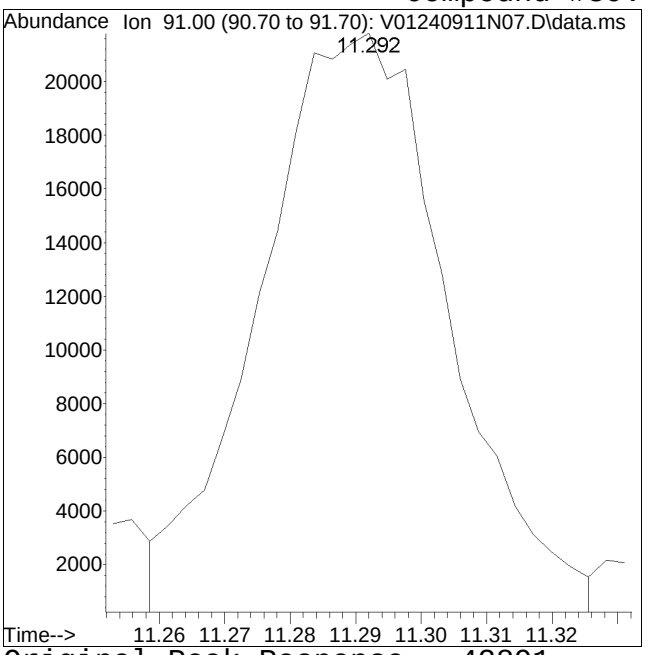
Manual Peak Response = 3461 M1

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

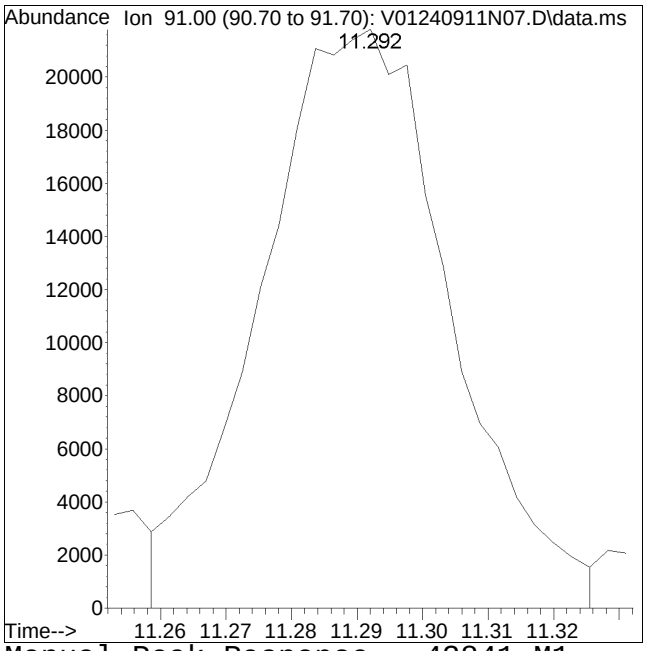
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 42891



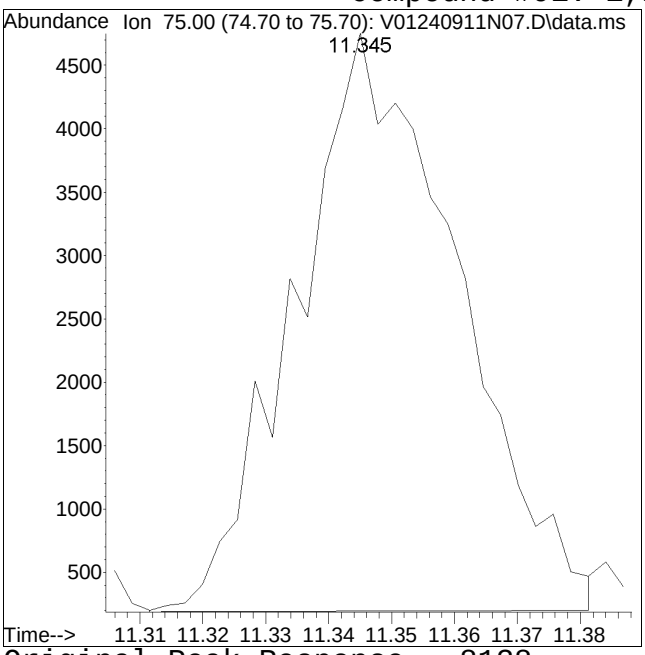
Manual Peak Response = 43841 M1

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

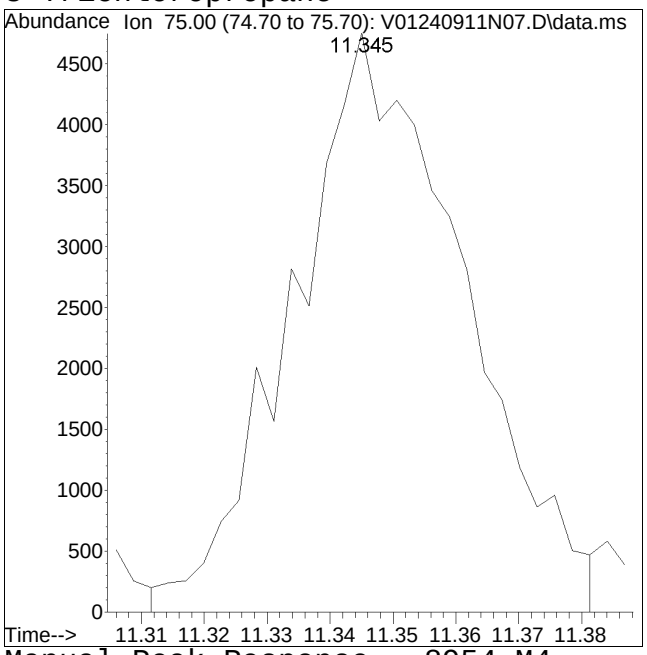
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 8138



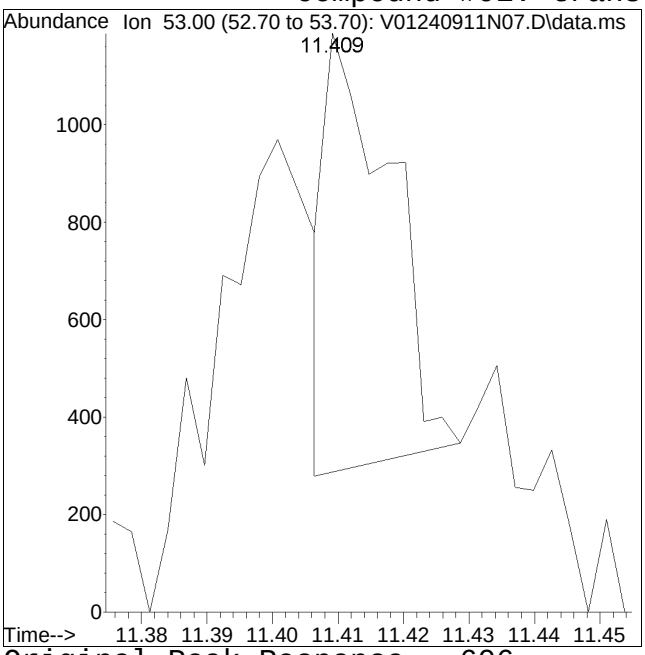
Manual Peak Response = 8954 M4

M4 = Poor automated baseline construction.

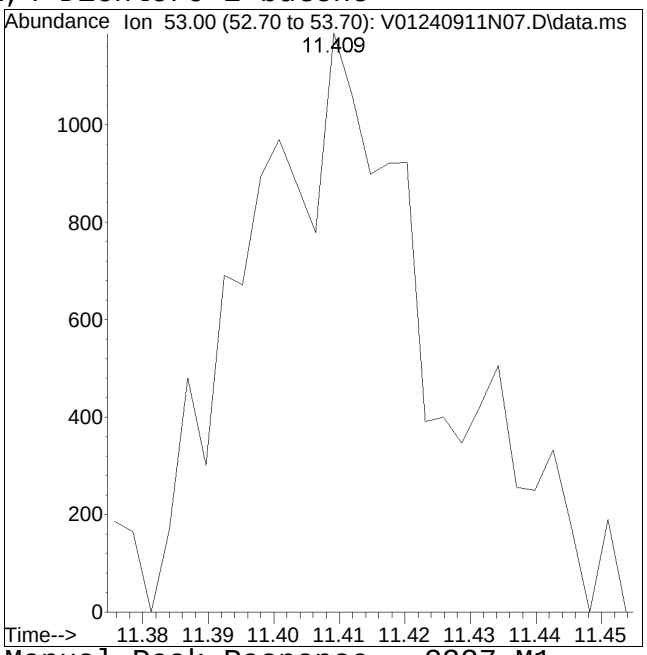
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N07.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:27 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 9/12/2024 12:27 pm

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



Original Peak Response = 606



Manual Peak Response = 2327 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N08.D
Acq On : 12 Sep 2024 1:53 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 12:25:21 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.941	96	290042	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 100.00%			
59) Chlorobenzene-d5	9.457	117	228912	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.176	152	118116	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.140	113	74919	9.848	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.48%			
43) 1,2-Dichloroethane-d4	5.654	65	84995	9.724	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.24%			
60) Toluene-d8	7.620	98	284066	10.348	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.48%			
83) 4-Bromofluorobenzene	10.963	95	104110	10.393	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.93%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.641	85	72430	9.292	ug/L	99
3) Chloromethane	1.830	50	68741	8.740	ug/L	99
4) Vinyl chloride	1.897	62	96614	9.384	ug/L	90
5) Bromomethane	2.198	94	65121M1	8.383	ug/L	
6) Chloroethane	2.304	64	103689	9.063	ug/L	98
7) Trichlorofluoromethane	2.444	101	230261	9.740	ug/L	98
8) Ethyl ether	2.737	74	60538	9.918	ug/L	94
10) 1,1-Dichloroethene	2.921	96	62043	9.089	ug/L	98
11) Carbon disulfide	2.951	76	165244	8.480	ug/L	100
12) Freon-113	2.954	101	60161	8.766	ug/L	85
13) Iodomethane	3.055	142	79593	9.192	ug/L	98
14) Acrolein	3.247	56	5075M3	8.865	ug/L	
15) Methylene chloride	3.467	84	63079	8.970	ug/L	99
17) Acetone	3.520	43	12683	6.889	ug/L #	69
18) trans-1,2-Dichloroethene	3.615	96	62756	9.054	ug/L	94
19) Methyl acetate	3.632	43	24742	8.726	ug/L	95
20) Methyl tert-butyl ether	3.718	73	147632	9.242	ug/L	97
21) tert-Butyl alcohol	3.824	59	13923M3	45.157	ug/L	
22) Diisopropyl ether	4.070	45	196719	9.454	ug/L	97
23) 1,1-Dichloroethane	4.189	63	118016	9.372	ug/L	99
24) Halothane	4.240	117	48431	9.248	ug/L	100

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N08.D
Acq On : 12 Sep 2024 1:53 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 12:25:21 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.240	53	12207	9.067	ug/L		98
26) Ethyl tert-butyl ether	4.410	59	163702	9.263	ug/L		90
27) Vinyl acetate	4.418	43	87423	9.128	ug/L		97
28) cis-1,2-Dichloroethene	4.700	96	73808	9.528	ug/L		95
29) 2,2-Dichloropropane	4.800	77	90083	9.328	ug/L	#	88
30) Bromochloromethane	4.892	128	33725	9.629	ug/L		97
31) Cyclohexane	4.898	56	103812	8.898	ug/L		92
32) Chloroform	4.965	83	122919	9.528	ug/L		99
33) Ethyl acetate	5.076	43	36004	9.012	ug/L	#	88
34) Carbon tetrachloride	5.099	117	91696	9.334	ug/L		97
35) Tetrahydrofuran	5.126	42	12571M4	10.108	ug/L		
37) 1,1,1-Trichloroethane	5.157	97	107279	9.299	ug/L		99
39) 2-Butanone	5.263	43	14802	8.924	ug/L		93
40) 1,1-Dichloropropene	5.280	75	92271	9.432	ug/L		99
41) Benzene	5.522	78	267525	9.509	ug/L		99
42) tert-Amyl methyl ether	5.631	73	146561	9.367	ug/L		96
44) 1,2-Dichloroethane	5.723	62	82491	9.795	ug/L		99
47) Methyl cyclohexane	6.108	83	104531	8.415	ug/L		94
48) Trichloroethene	6.119	95	74265	9.347	ug/L		99
50) Dibromomethane	6.557	93	36931	9.554	ug/L		97
51) 1,2-Dichloropropane	6.652	63	67341	9.809	ug/L		97
53) 2-Chloroethyl vinyl ether	7.343	63	26142	10.099	ug/L		98
54) Bromodichloromethane	6.730	83	90872	9.709	ug/L		100
57) 1,4-Dioxane	6.942	88	18580M1	480.775	ug/L		
58) cis-1,3-Dichloropropene	7.410	75	97513	9.521	ug/L		96
61) Toluene	7.675	92	172275	9.396	ug/L		99
62) 4-Methyl-2-pentanone	8.105	58	11907M1	9.233	ug/L		
63) Tetrachloroethene	8.124	166	70646	9.527	ug/L		95
65) trans-1,3-Dichloropropene	8.163	75	81320	9.882	ug/L		97
67) Ethyl methacrylate	8.350	69	59032	9.271	ug/L		98
68) 1,1,2-Trichloroethane	8.339	83	42616	10.092	ug/L		99
69) Chlorodibromomethane	8.556	129	59928	9.851	ug/L		98
70) 1,3-Dichloropropane	8.662	76	87558	10.272	ug/L		99
71) 1,2-Dibromoethane	8.833	107	47729	10.114	ug/L		100
72) 2-Hexanone	9.123	43	21630	9.337	ug/L	#	91
73) Chlorobenzene	9.480	112	191247	9.388	ug/L		99
74) Ethylbenzene	9.516	91	340501	9.318	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.563	131	67162	9.671	ug/L		98
76) p/m Xylene	9.703	106	264960	17.736	ug/L		97
77) o Xylene	10.244	106	251799	17.692	ug/L		100

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N08.D
Acq On : 12 Sep 2024 1:53 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 12:25:21 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.313	104	404914	17.685	ug/L		98
80) Bromoform	10.344	173	29952	8.682	ug/L		99
82) Isopropylbenzene	10.631	105	329772	9.286	ug/L		98
84) Bromobenzene	11.075	156	75872	9.638	ug/L		100
85) n-Propylbenzene	11.119	91	392138	9.290	ug/L		98
86) 1,4-Dichlorobutane	11.136	55	79401	9.620	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.208	83	55707	10.003	ug/L		100
88) 4-Ethyltoluene	11.245	105	310837	9.253	ug/L		99
89) 2-Chlorotoluene	11.287	91	226296M1	9.625	ug/L		
90) 1,3,5-Trimethylbenzene	11.345	105	269955	9.250	ug/L		97
91) 1,2,3-Trichloropropane	11.342	75	44379M1	9.216	ug/L		
92) trans-1,4-Dichloro-2-b...	11.404	53	15049	9.937	ug/L	#	79
93) 4-Chlorotoluene	11.471	91	230381	9.770	ug/L		99
94) tert-Butylbenzene	11.683	119	224524	9.299	ug/L		100
97) 1,2,4-Trimethylbenzene	11.766	105	262085	9.420	ug/L		97
98) sec-Butylbenzene	11.878	105	327203	9.173	ug/L		98
99) p-Isopropyltoluene	12.028	119	266660	9.108	ug/L		100
100) 1,3-Dichlorobenzene	12.101	146	144899	9.489	ug/L		99
101) 1,4-Dichlorobenzene	12.193	146	145669	9.364	ug/L		99
102) p-Diethylbenzene	12.405	119	146469	9.149	ug/L		98
103) n-Butylbenzene	12.463	91	227145	9.455	ug/L		97
104) 1,2-Dichlorobenzene	12.617	146	129191	9.656	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.200	119	193836	9.111	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.400	155	5470	9.990	ug/L		91
107) 1,3,5-Trichlorobenzene	13.428	180	71692	9.516	ug/L		97
108) Hexachlorobutadiene	14.005	225	22276	8.910	ug/L		99
109) 1,2,4-Trichlorobenzene	14.028	180	56993	9.604	ug/L		98
110) Naphthalene	14.321	128	115679	9.474	ug/L		100
111) 1,2,3-Trichlorobenzene	14.491	180	44020	9.692	ug/L		99

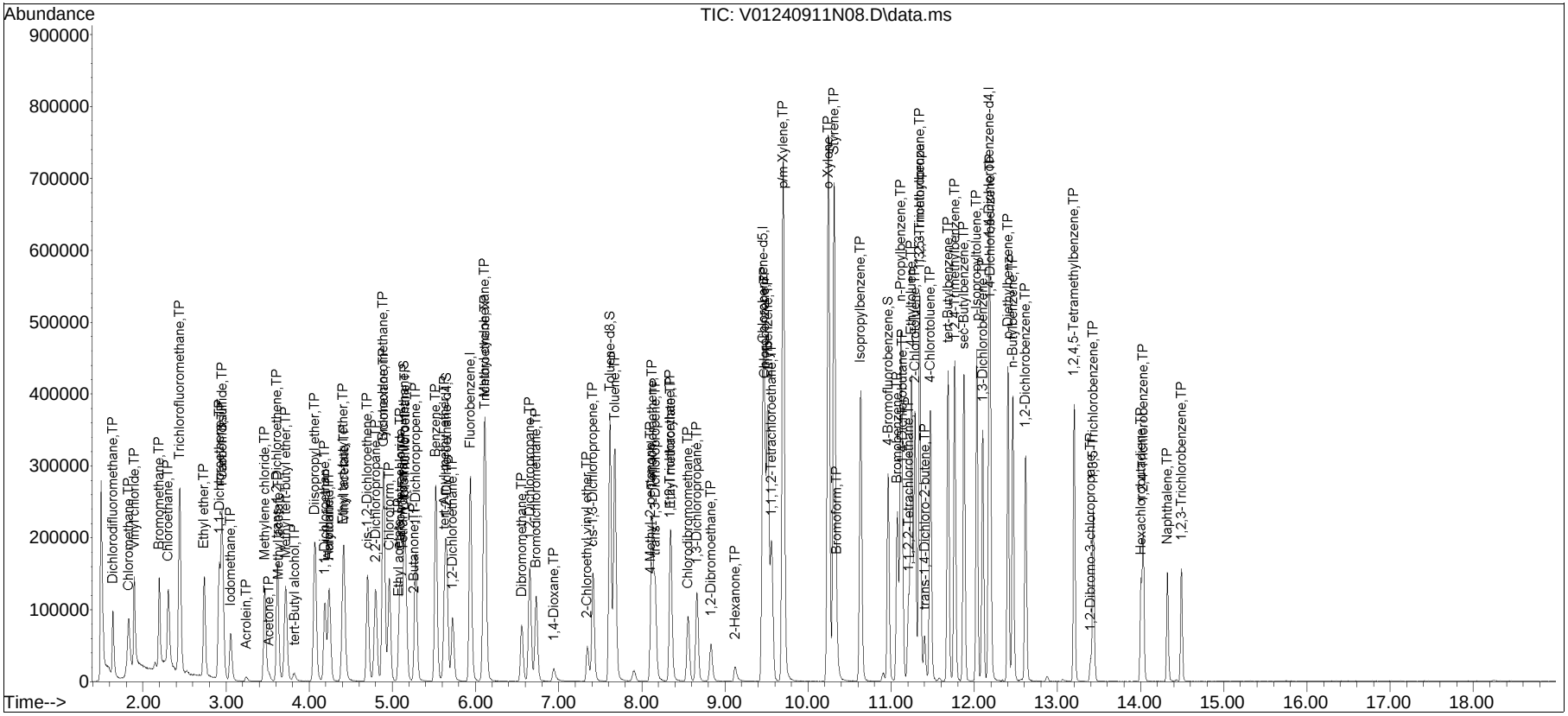
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N08.D
Acq On : 12 Sep 2024 1:53 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 12:25:21 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

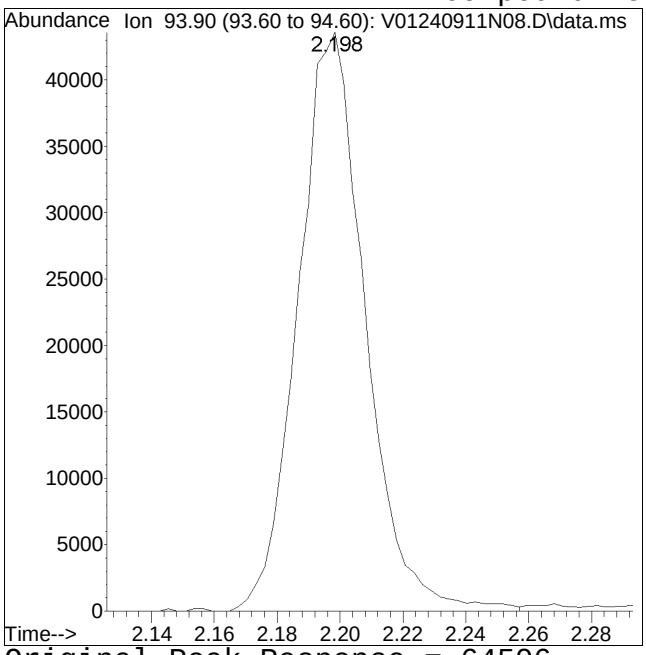


Manual Integration Report

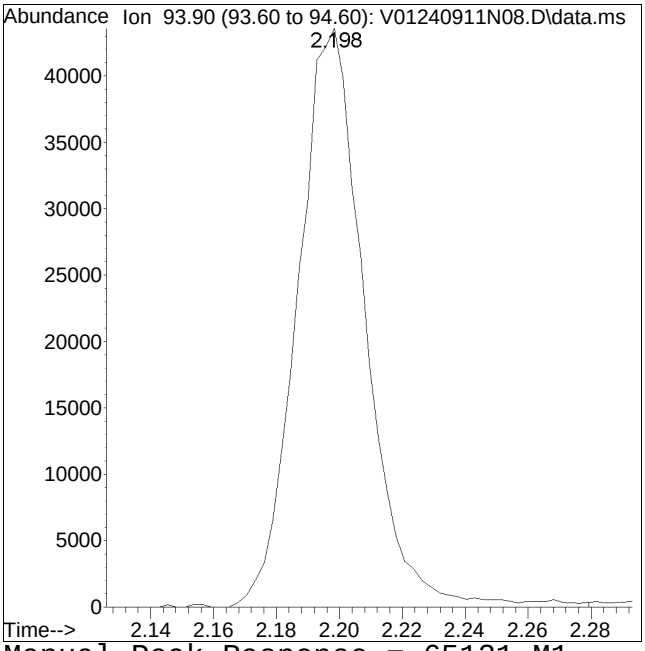
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N08.D
Date Inj'd : 9/12/2024 1:53 am
Sample : I8260STD10PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #5: Bromomethane



Original Peak Response = 64506



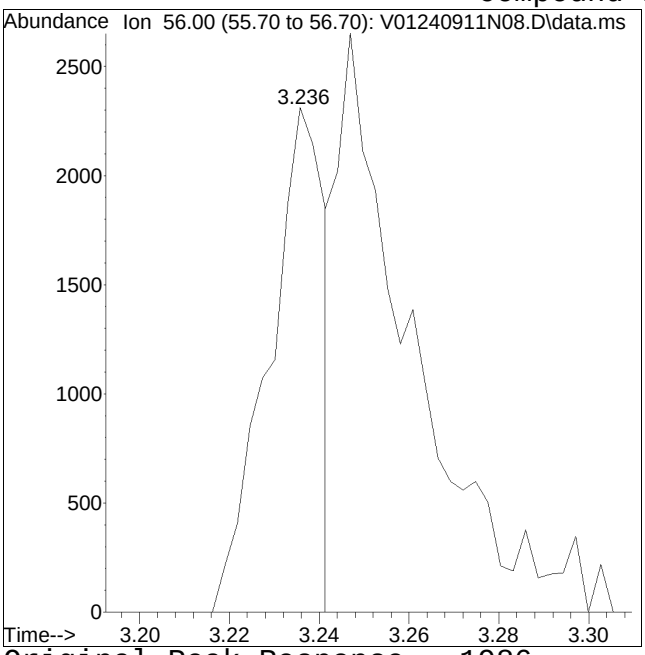
Manual Peak Response = 65121 M1

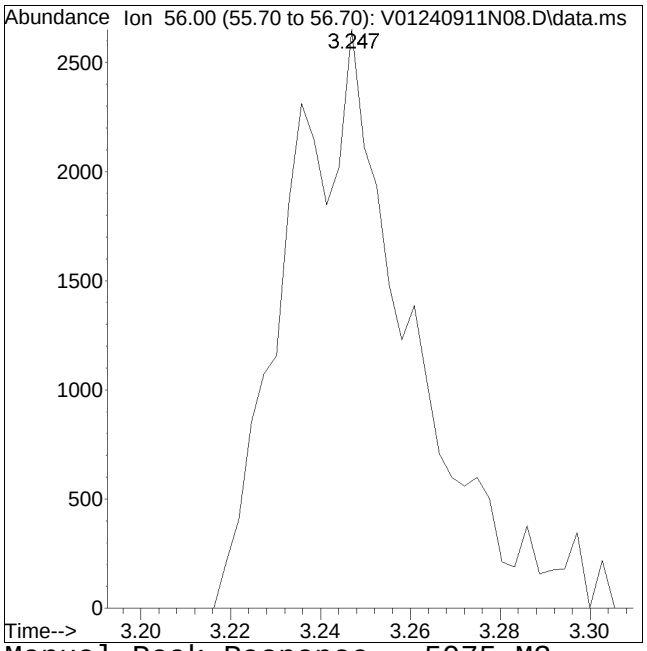
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #14: Acrolein





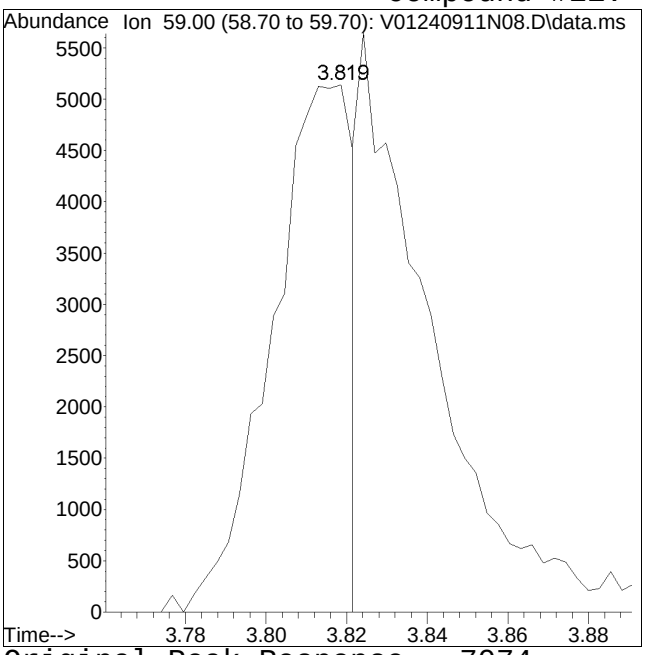
Original Peak Response = 1986 Manual Peak Response = 5075 M3

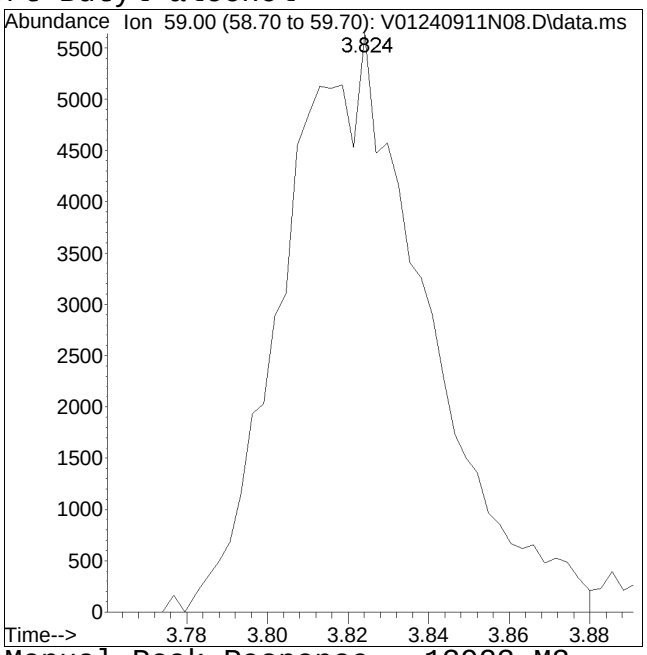
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #21: tert-Butyl alcohol





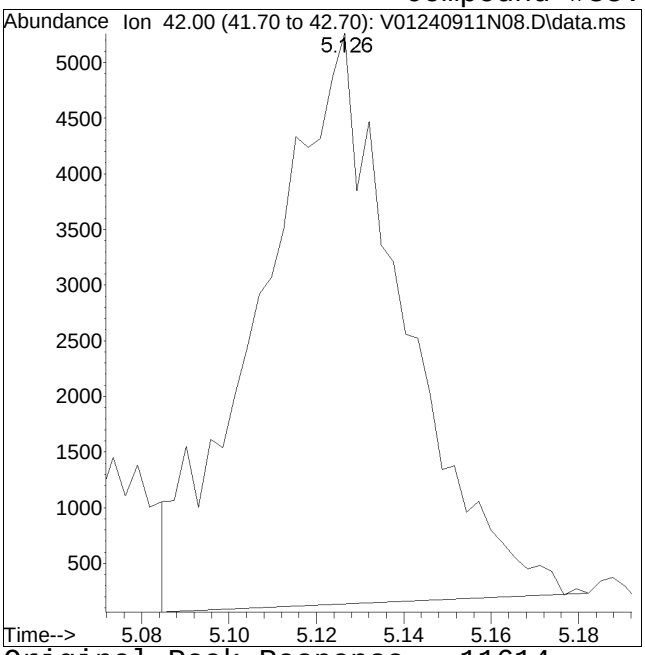
Original Peak Response = 7074 Manual Peak Response = 13923 M3

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

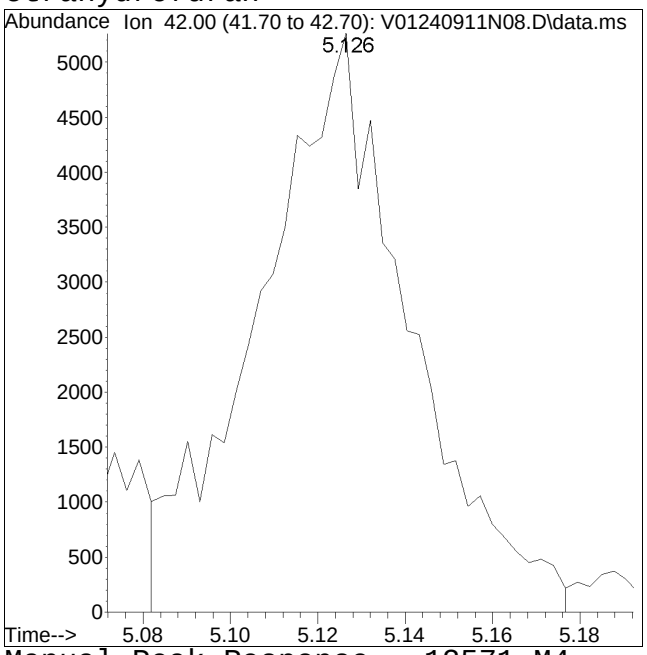
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 11614



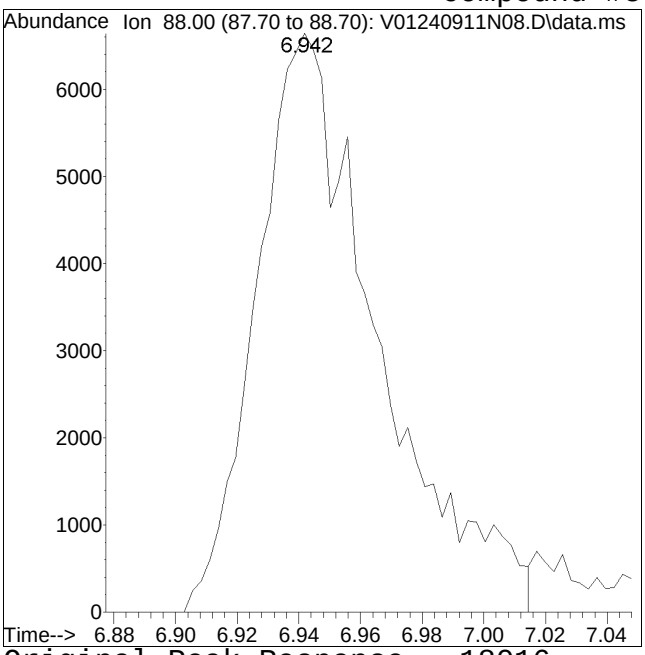
Manual Peak Response = 12571 M4

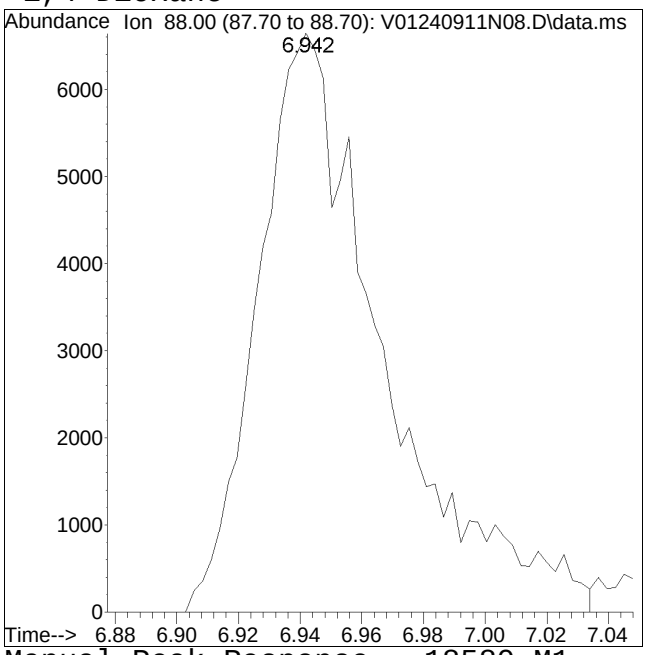
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #57: 1,4-Dioxane



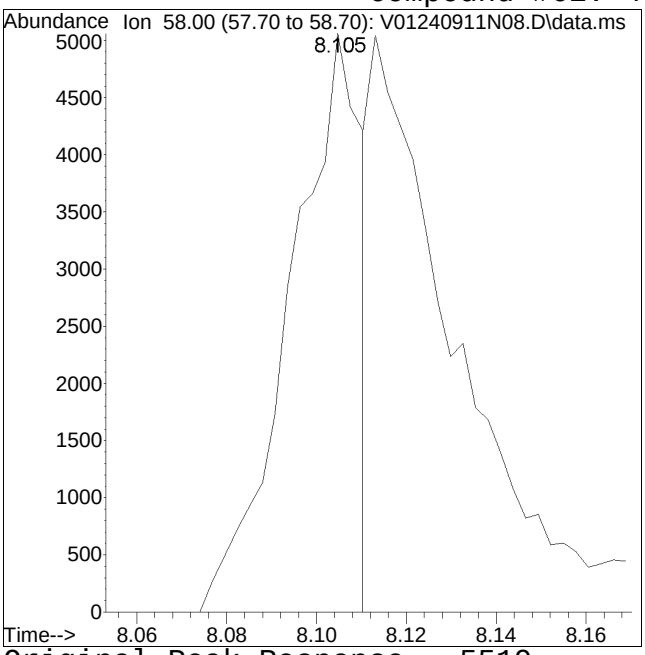


Original Peak Response = 18016 Manual Peak Response = 18580 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

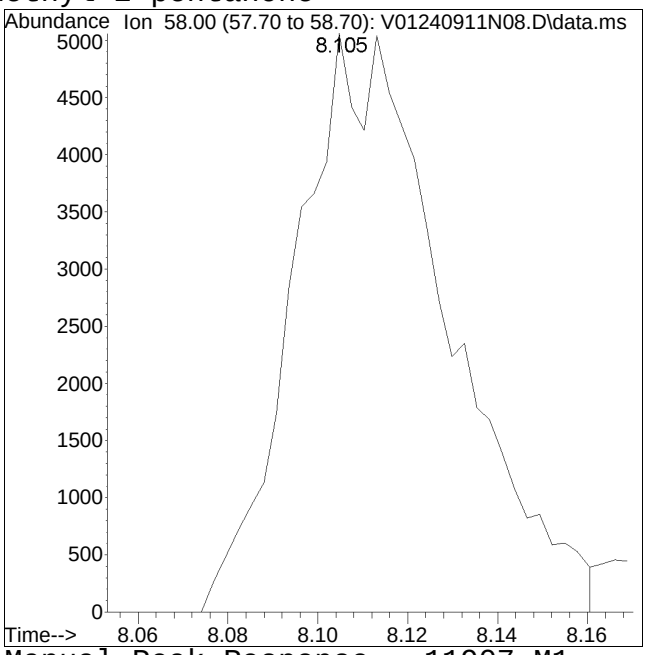
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 5519



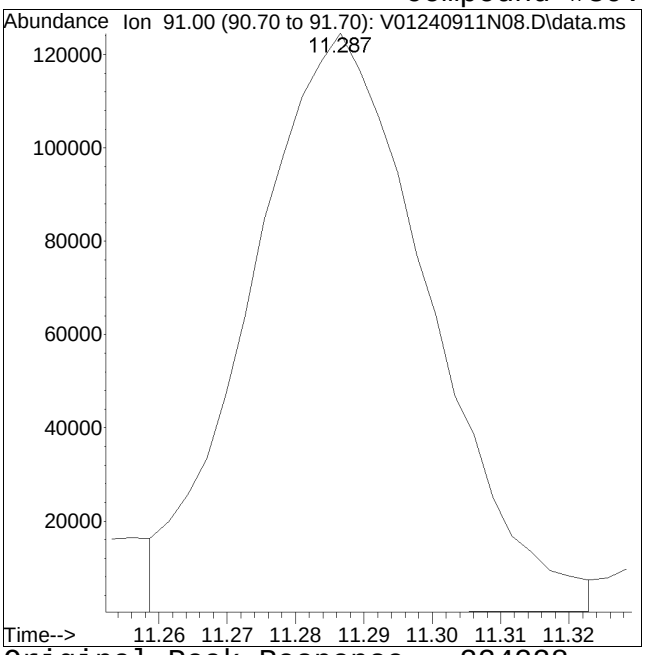
Manual Peak Response = 11907 M1

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

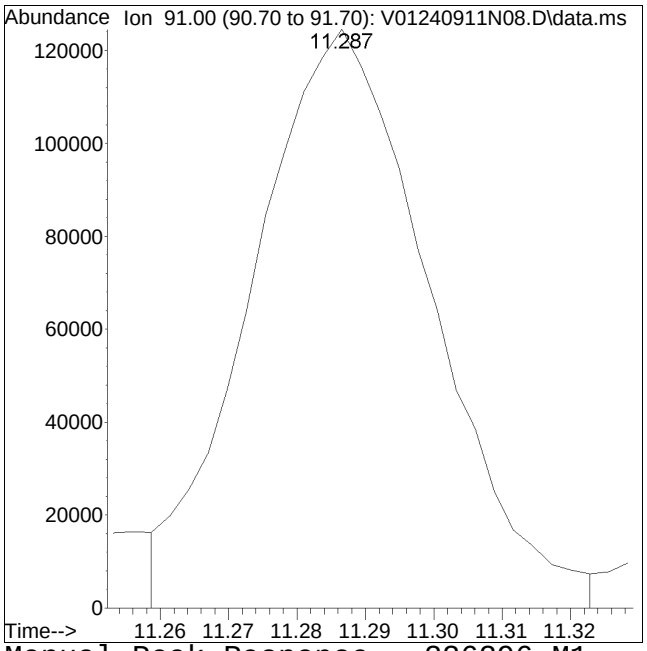
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 224228



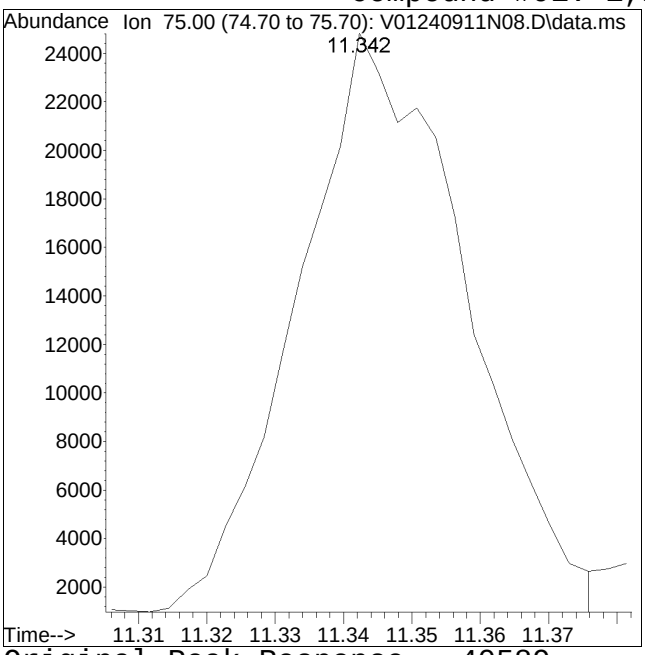
Manual Peak Response = 226296 M1

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

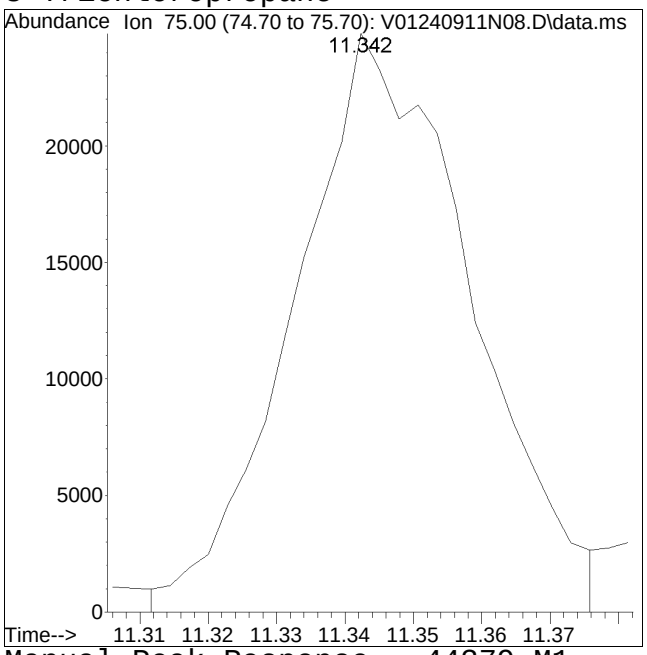
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N08.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 1:53 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 9/12/2024 12:25 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 40589



Manual Peak Response = 44379 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N09.D
Acq On : 12 Sep 2024 2:19 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1970861,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 12:25:28 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	303020	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 104.47%			
59) Chlorobenzene-d5	9.457	117	244634	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 106.87%			
79) 1,4-Dichlorobenzene-d4	12.176	152	130999	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 110.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.135	113	79823	10.044	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.44%			
43) 1,2-Dichloroethane-d4	5.656	65	88851	9.730	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%			
60) Toluene-d8	7.617	98	298375	10.170	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%			
83) 4-Bromofluorobenzene	10.963	95	113945	10.256	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.641	85	247167	30.350	ug/L	100
3) Chloromethane	1.827	50	225596	27.454	ug/L	99
4) Vinyl chloride	1.897	62	321692	29.908	ug/L	88
5) Bromomethane	2.198	94	239743	29.539	ug/L	96
6) Chloroethane	2.307	64	325941	27.269	ug/L	100
7) Trichlorofluoromethane	2.444	101	764067	30.936	ug/L	98
8) Ethyl ether	2.739	74	187705	29.434	ug/L	95
10) 1,1-Dichloroethene	2.921	96	194530	27.279	ug/L	96
11) Carbon disulfide	2.954	76	549070	26.971	ug/L	100
12) Freon-113	2.954	101	206133	28.749	ug/L	89
13) Iodomethane	3.057	142	295353	32.650	ug/L	98
14) Acrolein	3.241	56	17462	29.197	ug/L	97
15) Methylene chloride	3.467	84	208562	28.388	ug/L	99
17) Acetone	3.515	43	34611	17.996	ug/L	88
18) trans-1,2-Dichloroethene	3.615	96	214925	29.678	ug/L	94
19) Methyl acetate	3.623	43	79679	26.896	ug/L	99
20) Methyl tert-butyl ether	3.715	73	490269	29.378	ug/L	97
21) tert-Butyl alcohol	3.821	59	46050	142.960	ug/L #	77
22) Diisopropyl ether	4.070	45	654379	30.103	ug/L	98
23) 1,1-Dichloroethane	4.187	63	398615	30.299	ug/L	98
24) Halothane	4.237	117	167019	30.527	ug/L	99

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N09.D
Acq On : 12 Sep 2024 2:19 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1970861,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 12:25:28 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.234	53	40832	29.030	ug/L	97
26) Ethyl tert-butyl ether	4.413	59	552467	29.923	ug/L	88
27) Vinyl acetate	4.421	43	279490	27.934	ug/L	98
28) cis-1,2-Dichloroethene	4.700	96	247238	30.549	ug/L	95
29) 2,2-Dichloropropane	4.797	77	318656	31.585	ug/L	99
30) Bromochloromethane	4.892	128	111056	30.351	ug/L	96
31) Cyclohexane	4.898	56	378428	31.048	ug/L	91
32) Chloroform	4.962	83	410777	30.477	ug/L	99
33) Ethyl acetate	5.073	43	123786	29.657	ug/L	98
34) Carbon tetrachloride	5.096	117	338905	33.022	ug/L	99
35) Tetrahydrofuran	5.121	42	39347M1	30.282	ug/L	
37) 1,1,1-Trichloroethane	5.157	97	374306	31.056	ug/L	99
39) 2-Butanone	5.252	43	51543	29.743	ug/L	95
40) 1,1-Dichloropropene	5.277	75	320704	31.377	ug/L	99
41) Benzene	5.522	78	908976	30.925	ug/L	99
42) tert-Amyl methyl ether	5.634	73	491514	30.068	ug/L	98
44) 1,2-Dichloroethane	5.726	62	268928	30.566	ug/L	99
47) Methyl cyclohexane	6.108	83	397872	30.656	ug/L	93
48) Trichloroethene	6.116	95	256015	30.844	ug/L	99
50) Dibromomethane	6.554	93	121709	30.137	ug/L	96
51) 1,2-Dichloropropane	6.652	63	222395	31.008	ug/L	98
53) 2-Chloroethyl vinyl ether	7.343	63	89532	33.105	ug/L	98
54) Bromodichloromethane	6.730	83	307714	31.467	ug/L	100
57) 1,4-Dioxane	6.942	88	24944M1	617.805	ug/L	
58) cis-1,3-Dichloropropene	7.410	75	340788	31.848	ug/L	97
61) Toluene	7.675	92	599753	30.609	ug/L	99
62) 4-Methyl-2-pentanone	8.105	58	41506	30.115	ug/L	88
63) Tetrachloroethene	8.124	166	246742	31.137	ug/L	95
65) trans-1,3-Dichloropropene	8.155	75	285964	32.519	ug/L	97
67) Ethyl methacrylate	8.345	69	206818	30.393	ug/L	95
68) 1,1,2-Trichloroethane	8.342	83	138202	30.625	ug/L	98
69) Chlorodibromomethane	8.554	129	207931	31.983	ug/L	97
70) 1,3-Dichloropropane	8.660	76	283706	31.144	ug/L	100
71) 1,2-Dibromoethane	8.827	107	160614	31.847	ug/L	99
72) 2-Hexanone	9.114	43	76148	30.758	ug/L	97
73) Chlorobenzene	9.477	112	659034	30.273	ug/L	98
74) Ethylbenzene	9.513	91	1221774	31.287	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.558	131	236093	31.810	ug/L	99
76) p/m Xylene	9.700	106	968011	60.632	ug/L	98
77) o Xylene	10.244	106	919088	60.426	ug/L	100

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N09.D
Acq On : 12 Sep 2024 2:19 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1970861,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 12:25:28 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.313	104	1569590	64.149	ug/L	97
80) Bromoform	10.341	173	121216	31.682	ug/L	99
82) Isopropylbenzene	10.631	105	1254735	31.857	ug/L	98
84) Bromobenzene	11.072	156	265935	30.459	ug/L	100
85) n-Propylbenzene	11.116	91	1480229	31.618	ug/L	98
86) 1,4-Dichlorobutane	11.133	55	274460	29.984	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.206	83	187306	30.326	ug/L	99
88) 4-Ethyltoluene	11.242	105	1174583	31.526	ug/L	98
89) 2-Chlorotoluene	11.284	91	827167M4	31.722	ug/L	
90) 1,3,5-Trimethylbenzene	11.342	105	1019512	31.499	ug/L	98
91) 1,2,3-Trichloropropane	11.342	75	157057M1	29.407	ug/L	
92) trans-1,4-Dichloro-2-b...	11.398	53	52757	31.409	ug/L	89
93) 4-Chlorotoluene	11.471	91	836466	31.985	ug/L	99
94) tert-Butylbenzene	11.683	119	844931	31.553	ug/L	99
97) 1,2,4-Trimethylbenzene	11.763	105	977115	31.665	ug/L	98
98) sec-Butylbenzene	11.875	105	1268287	32.058	ug/L	98
99) p-Isopropyltoluene	12.028	119	1040156	32.033	ug/L	100
100) 1,3-Dichlorobenzene	12.098	146	532082	31.417	ug/L	99
101) 1,4-Dichlorobenzene	12.190	146	525535	30.462	ug/L	99
102) p-Diethylbenzene	12.405	119	568541	32.020	ug/L	98
103) n-Butylbenzene	12.463	91	869639	32.639	ug/L	97
104) 1,2-Dichlorobenzene	12.614	146	455738	30.712	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.200	119	728502	30.874	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.398	155	19995	32.926	ug/L	93
107) 1,3,5-Trichlorobenzene	13.431	180	252437	30.211	ug/L	96
108) Hexachlorobutadiene	14.005	225	84870	30.608	ug/L	100
109) 1,2,4-Trichlorobenzene	14.028	180	198632	30.181	ug/L	97
110) Naphthalene	14.323	128	402579	29.728	ug/L	100
111) 1,2,3-Trichlorobenzene	14.491	180	150493	29.877	ug/L	97

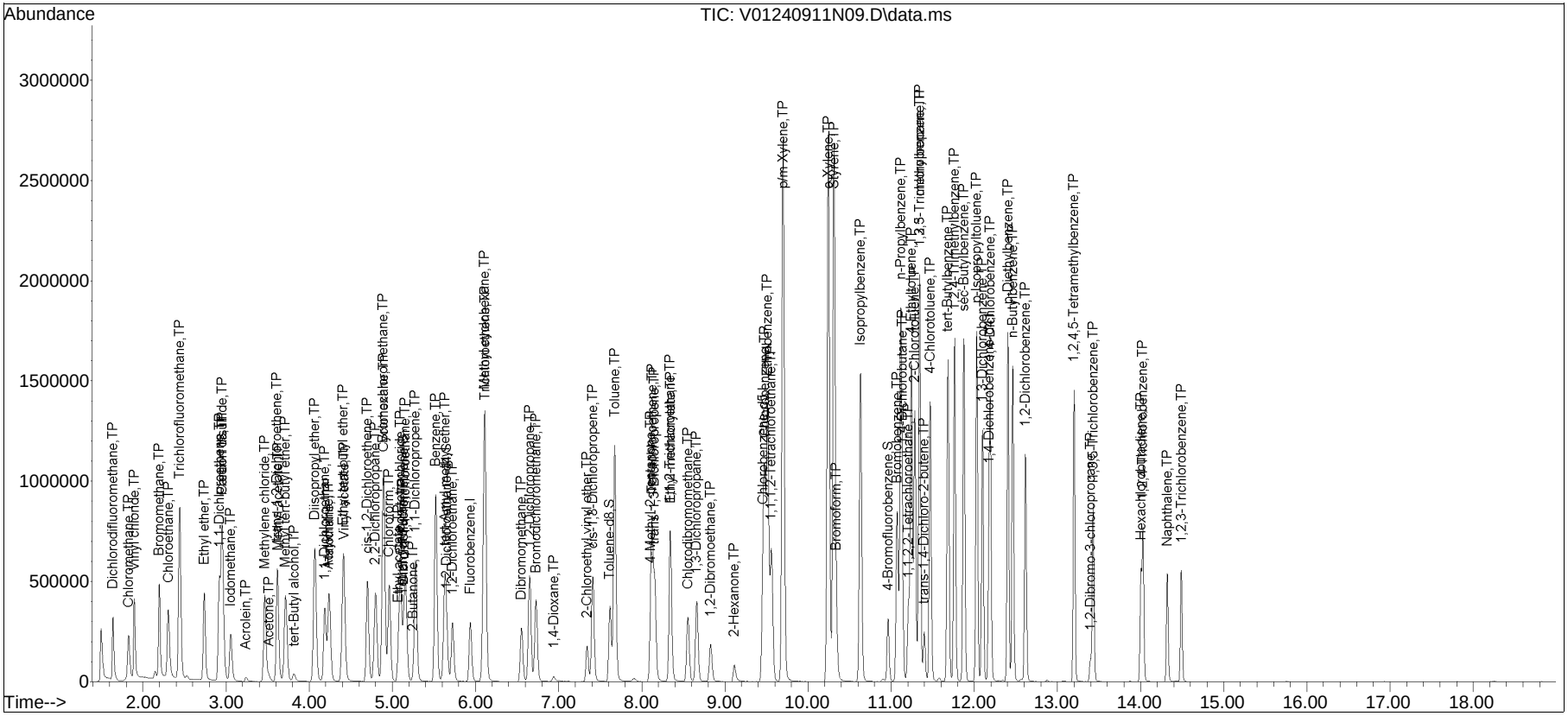
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N09.D
Acq On : 12 Sep 2024 2:19 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1970861,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 12:25:28 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

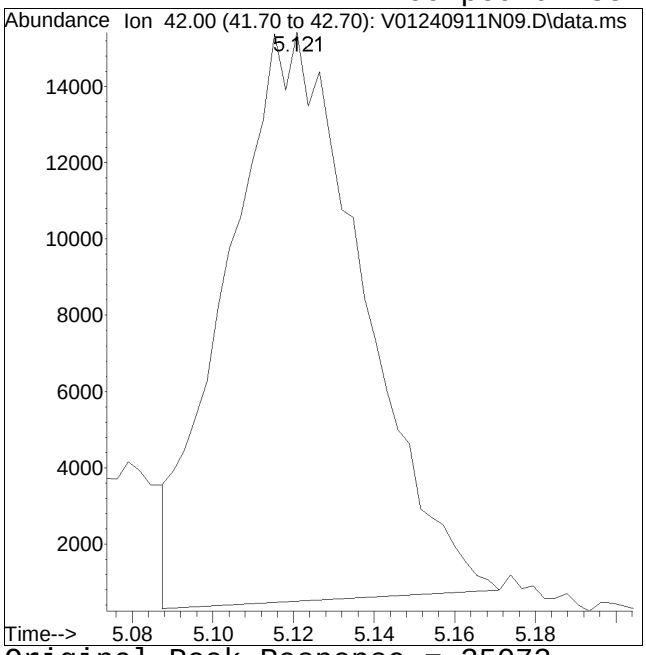


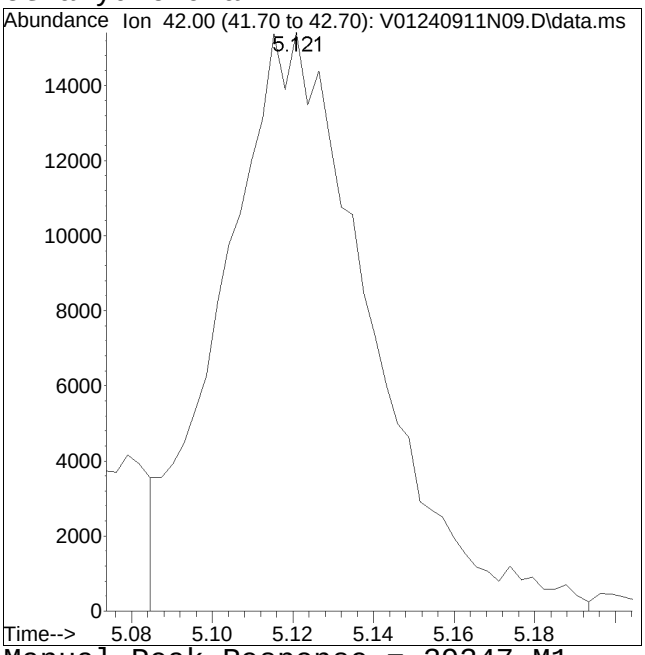
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N09.D
Date Inj'd : 9/12/2024 2:19 am
Sample : I8260STD30PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #35: Tetrahydrofuran





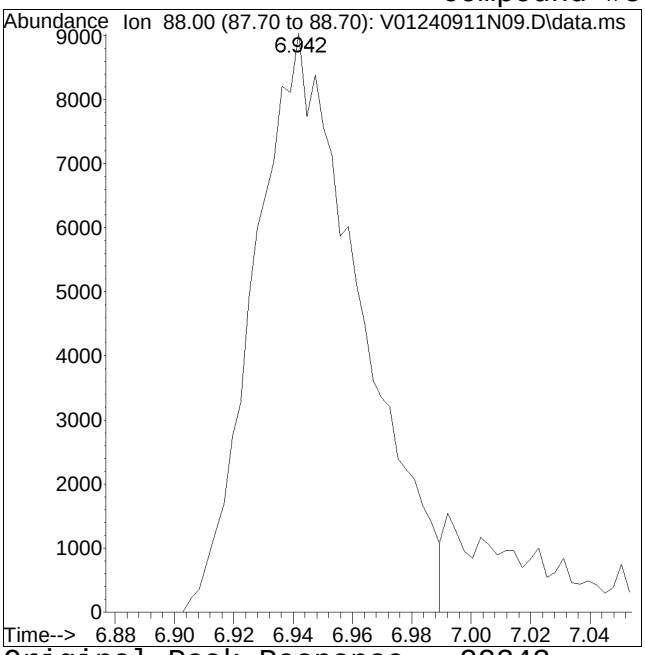
Original Peak Response = 35072 Manual Peak Response = 39347 M1

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

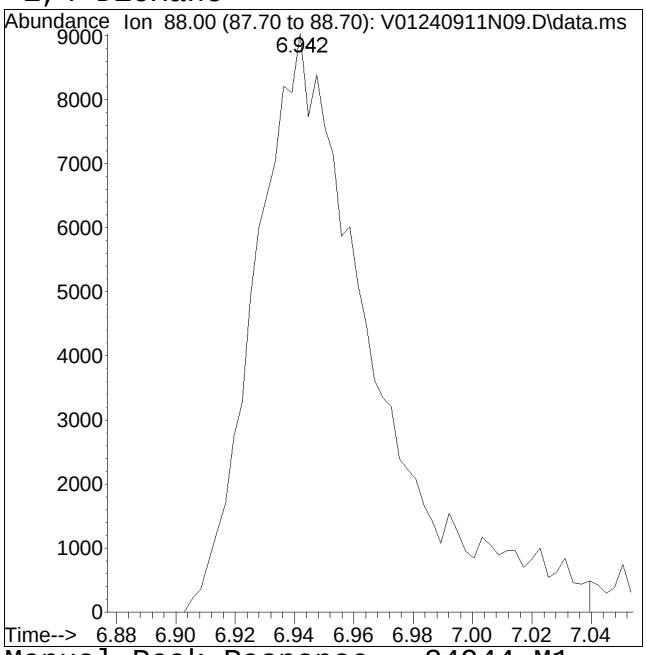
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N09.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 2:19 am Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 9/12/2024 12:25 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 22343



Manual Peak Response = 24944 M1

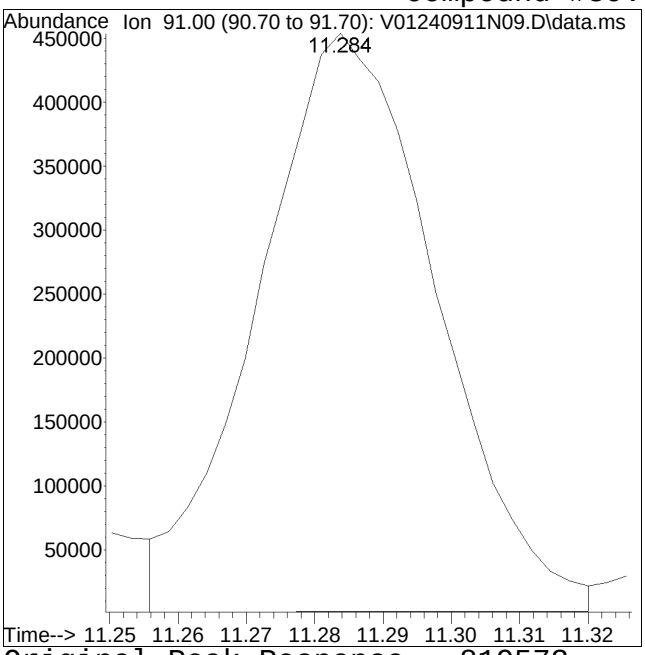
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

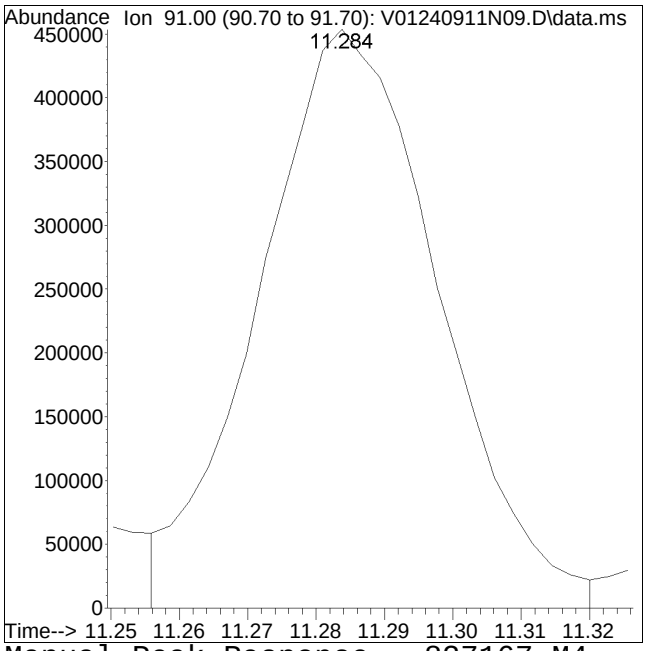
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N09.D
Date Inj'd : 9/12/2024 2:19 am
Sample : I8260STD30PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 819573



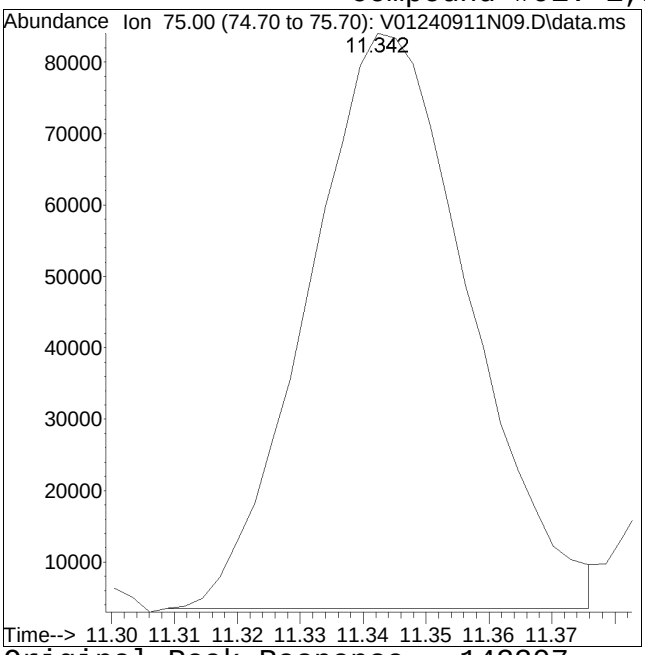
Manual Peak Response = 827167 M4

M4 = Poor automated baseline construction.

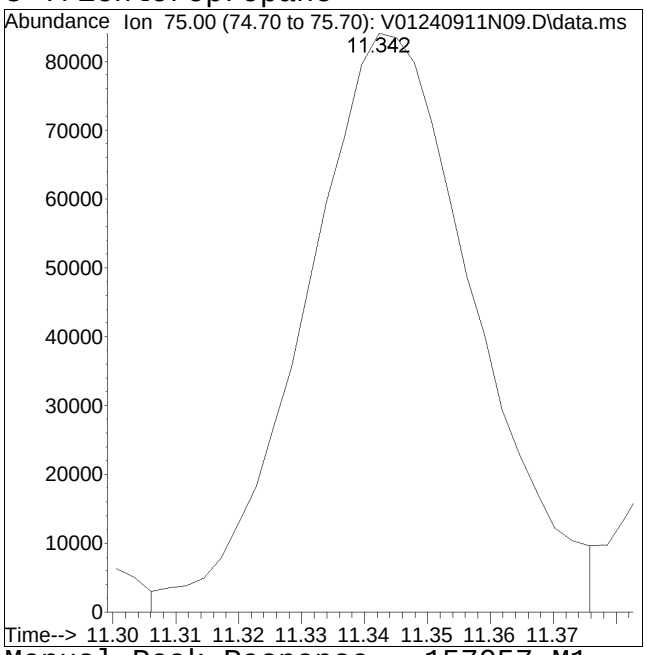
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N09.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 2:19 am Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 9/12/2024 12:25 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 142307



Manual Peak Response = 157057 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N10.D
Acq On : 12 Sep 2024 2:45 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1970861,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 12:25:35 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.941	96	316687	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 109.19%			
59) Chlorobenzene-d5	9.457	117	268658	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 117.36%			
79) 1,4-Dichlorobenzene-d4	12.176	152	149067	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 126.20%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.135	113	83397	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%			
43) 1,2-Dichloroethane-d4	5.659	65	97793	10.247	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.47%			
60) Toluene-d8	7.617	98	310109	9.625	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.25%			
83) 4-Bromofluorobenzene	10.960	95	121350	9.599	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	716993	84.241	ug/L	99
3) Chloromethane	1.827	50	647924	75.446	ug/L	99
4) Vinyl chloride	1.894	62	893821	79.513	ug/L	94
5) Bromomethane	2.198	94	758607	89.435	ug/L	97
6) Chloroethane	2.301	64	893196	71.501	ug/L	100
7) Trichlorofluoromethane	2.441	101	2109482	81.725	ug/L	98
8) Ethyl ether	2.737	74	530412	79.585	ug/L	95
10) 1,1-Dichloroethene	2.915	96	642149	86.162	ug/L	95
11) Carbon disulfide	2.951	76	1702220	80.006	ug/L	100
12) Freon-113	2.954	101	624617	83.356	ug/L	86
13) Iodomethane	3.054	142	888582	93.989	ug/L	97
14) Acrolein	3.236	56	55759	89.208	ug/L	97
15) Methylene chloride	3.467	84	610622	79.526	ug/L	97
17) Acetone	3.512	43	96325	47.922	ug/L	93
18) trans-1,2-Dichloroethene	3.615	96	631644	83.458	ug/L	94
19) Methyl acetate	3.623	43	256935	82.988	ug/L	98
20) Methyl tert-butyl ether	3.715	73	1495621	85.754	ug/L	98
21) tert-Butyl alcohol	3.819	59	148945	442.439	ug/L	95
22) Diisopropyl ether	4.067	45	1934970	85.172	ug/L	98
23) 1,1-Dichloroethane	4.189	63	1163635	84.631	ug/L	99
24) Halothane	4.242	117	492410	86.116	ug/L	100

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N10.D
Acq On : 12 Sep 2024 2:45 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1970861,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 12:25:35 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.231	53	127676	86.855	ug/L		97
26) Ethyl tert-butyl ether	4.407	59	1662777	86.174	ug/L		90
27) Vinyl acetate	4.415	43	911507	87.169	ug/L		99
28) cis-1,2-Dichloroethene	4.700	96	716020	84.655	ug/L		95
29) 2,2-Dichloropropane	4.797	77	923850	87.619	ug/L		99
30) Bromochloromethane	4.892	128	316469	82.756	ug/L		94
31) Cyclohexane	4.895	56	1105877	86.815	ug/L		91
32) Chloroform	4.962	83	1183092	83.990	ug/L		99
33) Ethyl acetate	5.068	43	377495	86.537	ug/L		99
34) Carbon tetrachloride	5.096	117	994578	92.727	ug/L		100
35) Tetrahydrofuran	5.118	42	109757M1	80.825	ug/L		
37) 1,1,1-Trichloroethane	5.160	97	1059621	84.123	ug/L		99
39) 2-Butanone	5.252	43	153341	84.667	ug/L	#	64
40) 1,1-Dichloropropene	5.280	75	914854	85.645	ug/L		99
41) Benzene	5.522	78	2620716	85.314	ug/L		99
42) tert-Amyl methyl ether	5.631	73	1485465	86.950	ug/L		99
44) 1,2-Dichloroethane	5.723	62	765094	83.207	ug/L		99
47) Methyl cyclohexane	6.105	83	1175823	86.688	ug/L		92
48) Trichloroethene	6.116	95	760617	87.681	ug/L		99
50) Dibromomethane	6.554	93	362375	85.858	ug/L		96
51) 1,2-Dichloropropane	6.652	63	633376	84.499	ug/L		98
53) 2-Chloroethyl vinyl ether	7.341	63	256013	90.578	ug/L		96
54) Bromodichloromethane	6.730	83	895091	87.583	ug/L		100
57) 1,4-Dioxane	6.945	88	36499M1	864.983	ug/L		
58) cis-1,3-Dichloropropene	7.407	75	1019126	91.130	ug/L		98
61) Toluene	7.675	92	1765404	82.043	ug/L		99
62) 4-Methyl-2-pentanone	8.105	58	133241	88.030	ug/L		92
63) Tetrachloroethene	8.124	166	724829	83.289	ug/L		96
65) trans-1,3-Dichloropropene	8.155	75	878797	90.997	ug/L		98
67) Ethyl methacrylate	8.342	69	670042	89.662	ug/L		92
68) 1,1,2-Trichloroethane	8.342	83	419195	84.586	ug/L		98
69) Chlorodibromomethane	8.554	129	640846	89.757	ug/L		97
70) 1,3-Dichloropropane	8.662	76	837258	83.691	ug/L		100
71) 1,2-Dibromoethane	8.827	107	488754	88.247	ug/L		98
72) 2-Hexanone	9.109	43	244181	89.810	ug/L		98
73) Chlorobenzene	9.477	112	2014001	84.240	ug/L		97
74) Ethylbenzene	9.516	91	3717829	86.693	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.560	131	719295	88.248	ug/L		99
76) p/m Xylene	9.703	106	3063020	174.697	ug/L		97
77) o Xylene	10.246	106	2944131	176.256	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N10.D
Acq On : 12 Sep 2024 2:45 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1970861,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 12:25:35 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.313	104	5040337	187.576	ug/L	97
80) Bromoform	10.341	173	412955	94.852	ug/L	100
82) Isopropylbenzene	10.631	105	3851187	85.929	ug/L	98
84) Bromobenzene	11.072	156	821662	82.703	ug/L	100
85) n-Propylbenzene	11.116	91	4599736	86.342	ug/L	99
86) 1,4-Dichlorobutane	11.133	55	859013	82.470	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.208	83	591244	84.123	ug/L	99
88) 4-Ethyltoluene	11.245	105	3628496	85.584	ug/L	98
89) 2-Chlorotoluene	11.287	91	2504864M1	84.419	ug/L	
90) 1,3,5-Trimethylbenzene	11.342	105	3206698	87.067	ug/L	97
91) 1,2,3-Trichloropropane	11.342	75	502384M1	82.663	ug/L	
92) trans-1,4-Dichloro-2-b...	11.395	53	166322	87.017	ug/L	97
93) 4-Chlorotoluene	11.471	91	2551317	85.733	ug/L	99
94) tert-Butylbenzene	11.685	119	2636273	86.516	ug/L	100
97) 1,2,4-Trimethylbenzene	11.763	105	3055445	87.014	ug/L	98
98) sec-Butylbenzene	11.875	105	3928402	87.260	ug/L	98
99) p-Isopropyltoluene	12.031	119	3303342	89.400	ug/L	99
100) 1,3-Dichlorobenzene	12.098	146	1656872	85.972	ug/L	99
101) 1,4-Dichlorobenzene	12.190	146	1631795	83.121	ug/L	99
102) p-Diethylbenzene	12.405	119	1805833	89.377	ug/L	98
103) n-Butylbenzene	12.463	91	2687418	88.637	ug/L	98
104) 1,2-Dichlorobenzene	12.614	146	1431430	84.771	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.200	119	2380583	88.660	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.395	155	68898	99.702	ug/L	94
107) 1,3,5-Trichlorobenzene	13.431	180	803951	84.552	ug/L	98
108) Hexachlorobutadiene	14.005	225	257606	81.643	ug/L	100
109) 1,2,4-Trichlorobenzene	14.028	180	634650	84.744	ug/L	97
110) Naphthalene	14.321	128	1326910	86.107	ug/L	100
111) 1,2,3-Trichlorobenzene	14.491	180	486599	84.895	ug/L	97

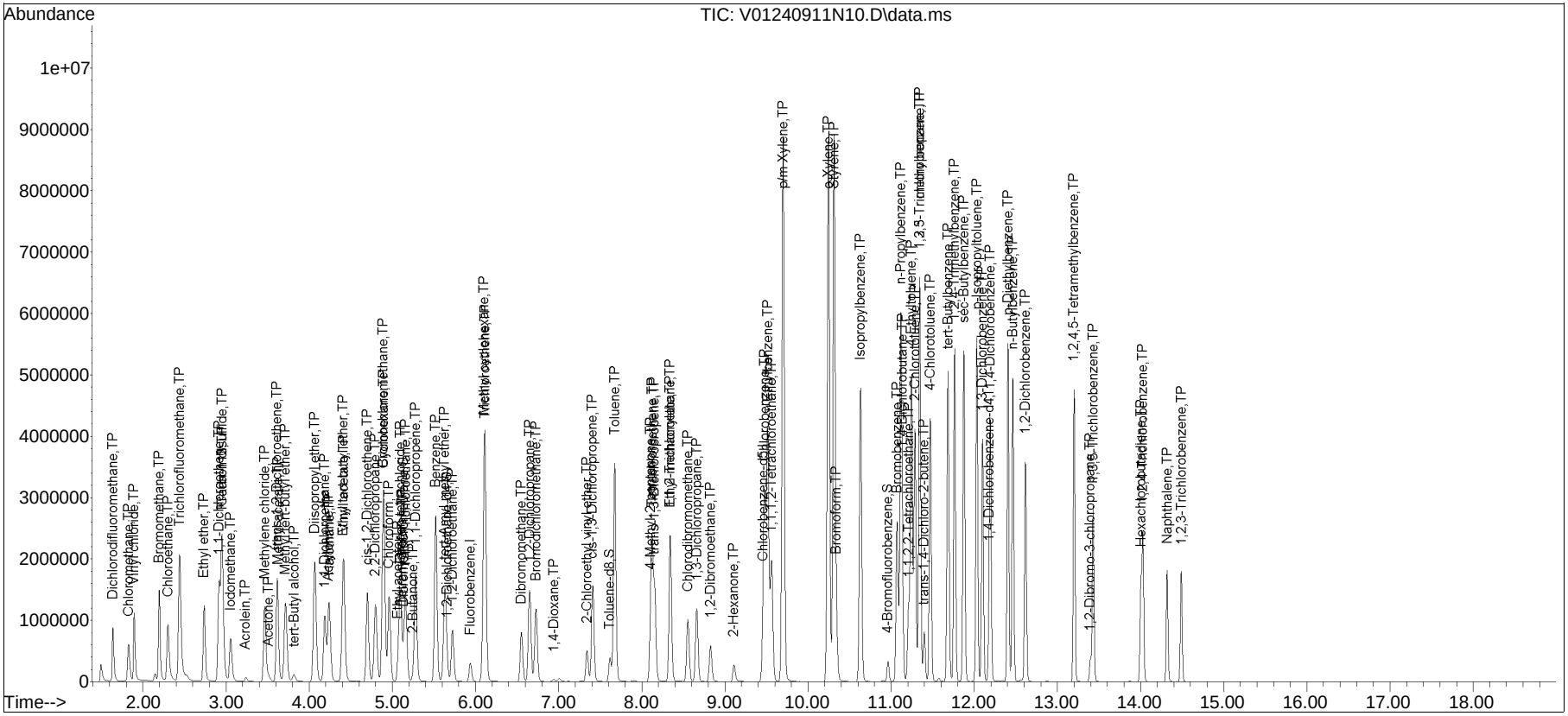
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N10.D
Acq On : 12 Sep 2024 2:45 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1970861,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 12:25:35 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

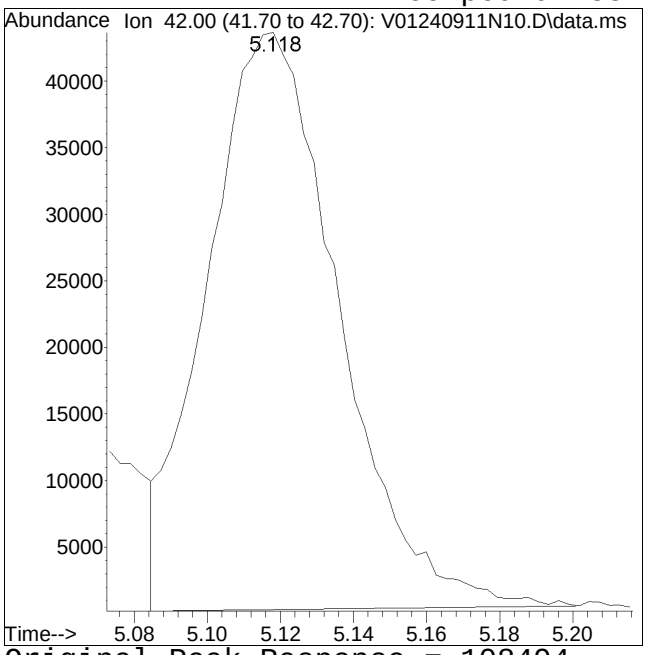


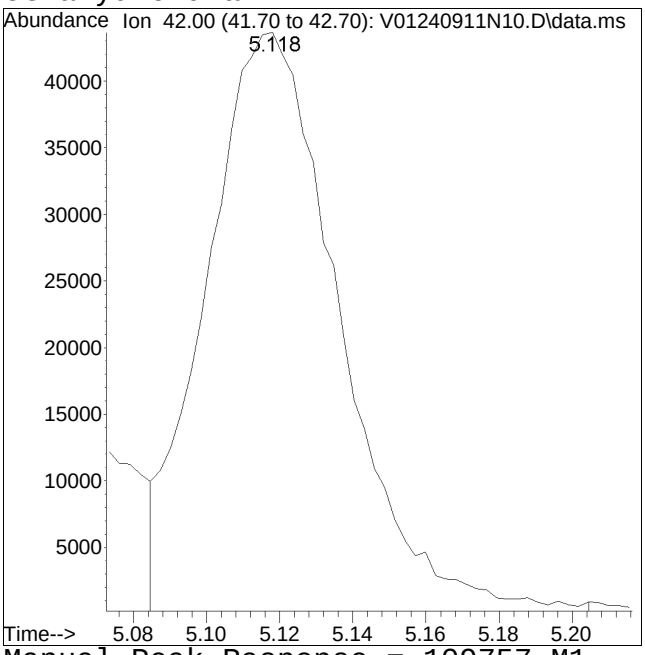
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N10.D
Date Inj'd : 9/12/2024 2:45 am
Sample : I8260STD80PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #35: Tetrahydrofuran





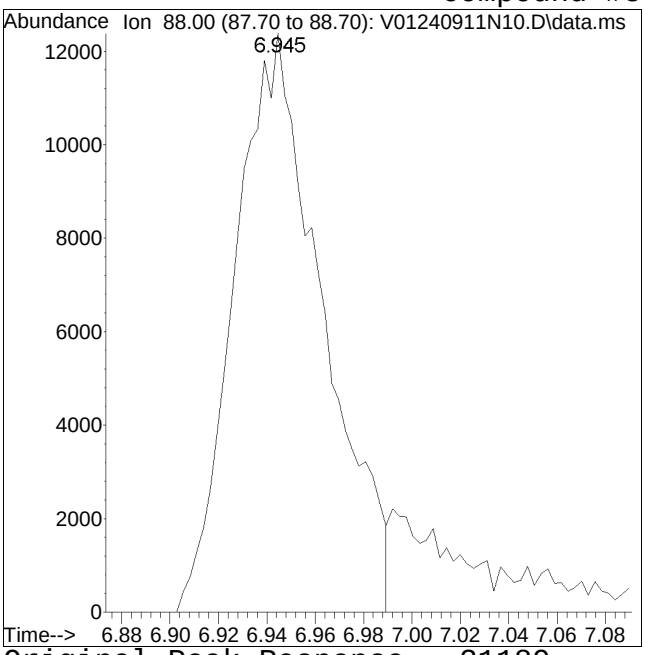
Original Peak Response = 108494 Manual Peak Response = 109757 M1

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

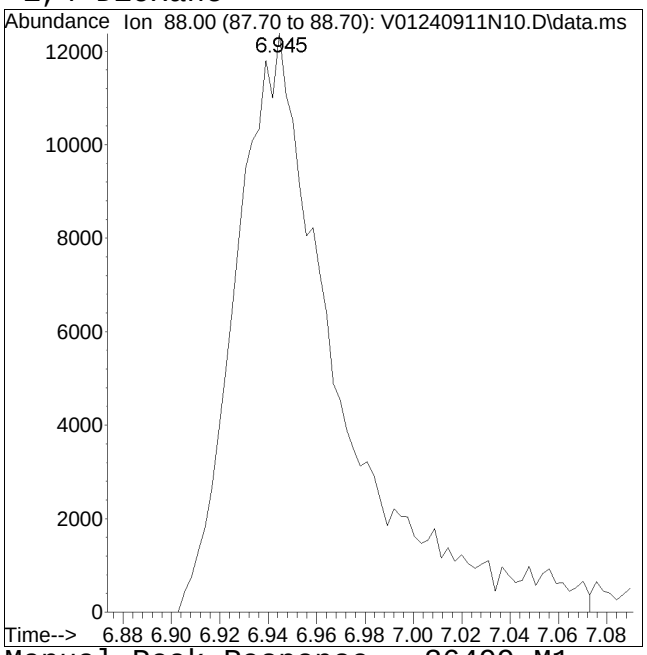
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N10.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 2:45 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 9/12/2024 12:25 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 31189



Manual Peak Response = 36499 M1

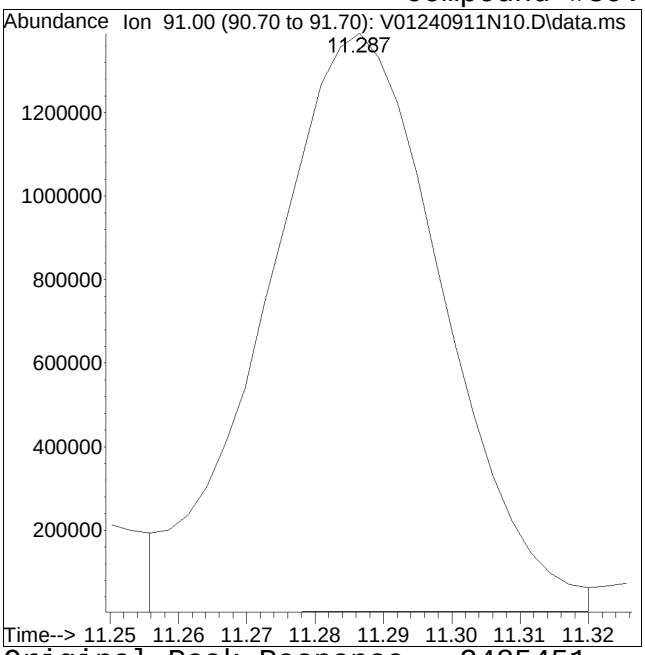
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

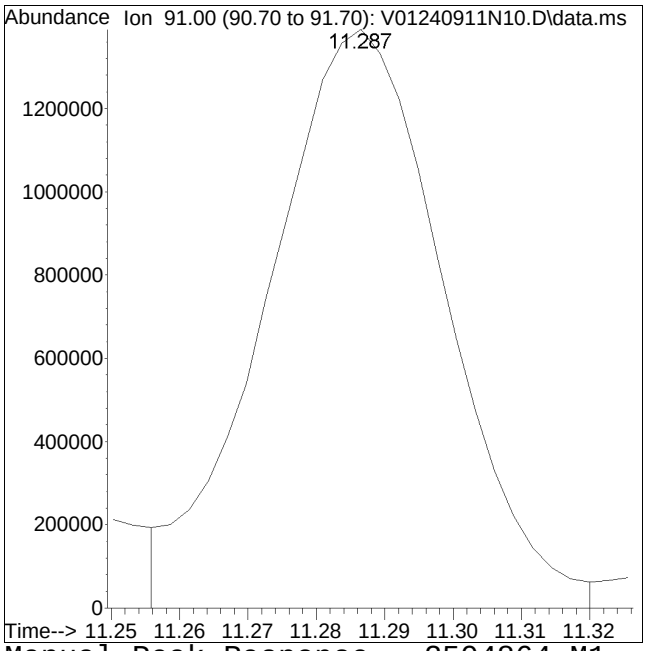
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N10.D
Date Inj'd : 9/12/2024 2:45 am
Sample : I8260STD80PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 2485451



Manual Peak Response = 2504864 M1

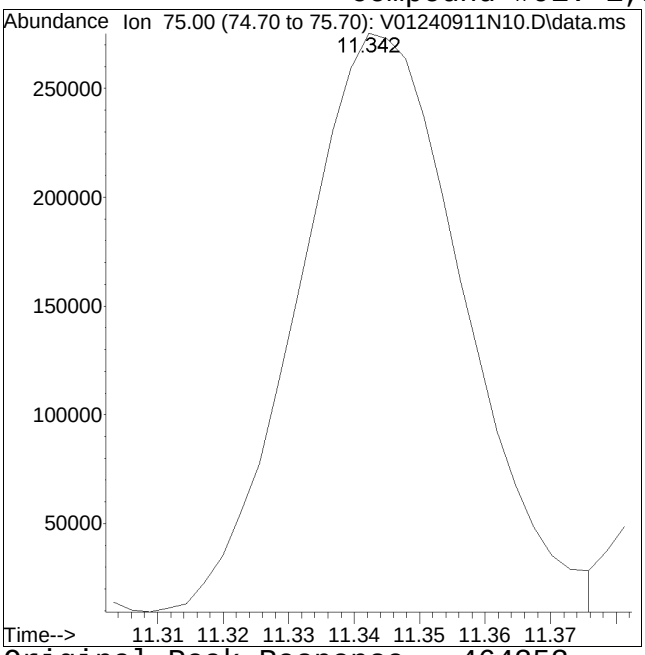
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

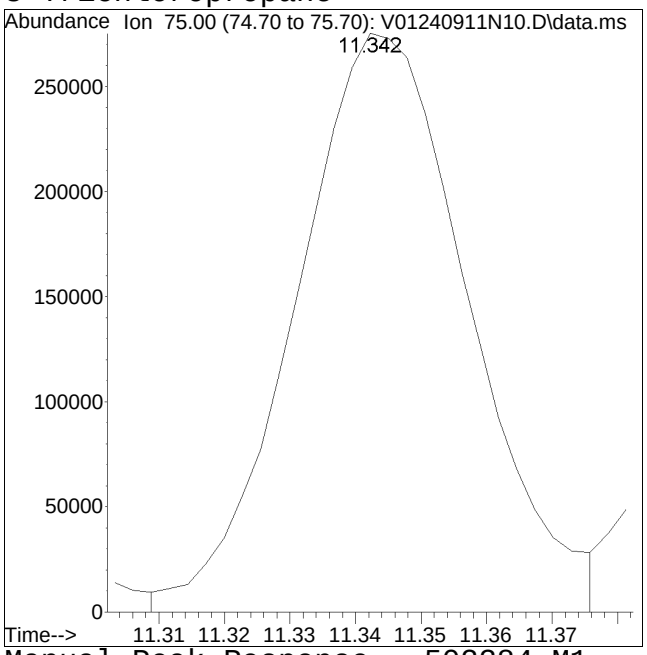
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N10.D
Date Inj'd : 9/12/2024 2:45 am
Sample : I8260STD80PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 464353



Manual Peak Response = 502384 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N11.D
Acq On : 12 Sep 2024 3:11 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1970861,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 12:25:42 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.941	96	336369	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 115.97%			
59) Chlorobenzene-d5	9.457	117	292322	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 127.70%			
79) 1,4-Dichlorobenzene-d4	12.179	152	161545	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 136.77%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.135	113	92661	10.503	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.03%			
43) 1,2-Dichloroethane-d4	5.656	65	105176	10.376	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.76%			
60) Toluene-d8	7.619	98	331171	9.447	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.47%			
83) 4-Bromofluorobenzene	10.963	95	129195	9.430	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	1119407	123.826	ug/L	99
3) Chloromethane	1.827	50	997944	109.404	ug/L	99
4) Vinyl chloride	1.894	62	1375159	115.174	ug/L	98
5) Bromomethane	2.195	94	1215807	134.950	ug/L	96
6) Chloroethane	2.299	64	1302124	98.137	ug/L	100
7) Trichlorofluoromethane	2.441	101	3179828	115.984	ug/L	98
8) Ethyl ether	2.736	74	809702	114.382	ug/L	94
10) 1,1-Dichloroethene	2.918	96	918718	116.058	ug/L	96
11) Carbon disulfide	2.951	76	2833538	125.386	ug/L	100
12) Freon-113	2.951	101	1027727	129.126	ug/L	85
13) Iodomethane	3.054	142	1415557	140.968	ug/L	96
14) Acrolein	3.238	56	90743	136.683	ug/L	97
15) Methylene chloride	3.464	84	952993	116.853	ug/L	96
17) Acetone	3.512	43	152601	71.477	ug/L	96
18) trans-1,2-Dichloroethene	3.615	96	1007877	125.376	ug/L	93
19) Methyl acetate	3.623	43	395622	120.306	ug/L	98
20) Methyl tert-butyl ether	3.715	73	2376209	128.271	ug/L	98
21) tert-Butyl alcohol	3.816	59	238218	666.218	ug/L	96
22) Diisopropyl ether	4.064	45	3011948	124.820	ug/L	98
23) 1,1-Dichloroethane	4.187	63	1804770	123.580	ug/L	98
24) Halothane	4.242	117	776694	127.885	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N11.D
Acq On : 12 Sep 2024 3:11 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1970861,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 12:25:42 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.231	53	201430	129.011	ug/L		95
26) Ethyl tert-butyl ether	4.410	59	2615784	127.632	ug/L		89
27) Vinyl acetate	4.415	43	1421810	128.014	ug/L		100
28) cis-1,2-Dichloroethene	4.700	96	1114588	124.067	ug/L		95
29) 2,2-Dichloropropane	4.797	77	1413198	126.187	ug/L		98
30) Bromochloromethane	4.892	128	500301	123.173	ug/L		91
31) Cyclohexane	4.895	56	1754338	129.663	ug/L		90
32) Chloroform	4.962	83	1827420	122.141	ug/L		98
33) Ethyl acetate	5.068	43	585427	126.351	ug/L		99
34) Carbon tetrachloride	5.093	117	1560847	137.007	ug/L		100
35) Tetrahydrofuran	5.115	42	164797	114.255	ug/L	#	82
37) 1,1,1-Trichloroethane	5.160	97	1648365	123.206	ug/L		99
39) 2-Butanone	5.252	43	237425	123.423	ug/L	#	47
40) 1,1-Dichloropropene	5.280	75	1430524	126.084	ug/L		99
41) Benzene	5.519	78	4102160	125.727	ug/L		99
42) tert-Amyl methyl ether	5.634	73	2354953	129.779	ug/L		98
44) 1,2-Dichloroethane	5.726	62	1190642	121.910	ug/L		99
47) Methyl cyclohexane	6.105	83	1915832	132.980	ug/L		91
48) Trichloroethene	6.113	95	1236064	134.152	ug/L		98
50) Dibromomethane	6.551	93	567969	126.695	ug/L		96
51) 1,2-Dichloropropane	6.649	63	974489	122.400	ug/L		98
53) 2-Chloroethyl vinyl ether	7.340	63	388680	129.469	ug/L		97
54) Bromodichloromethane	6.727	83	1391704	128.208	ug/L		100
57) 1,4-Dioxane	6.942	88	57705M1	1287.521	ug/L		
58) cis-1,3-Dichloropropene	7.413	75	1583675	133.325	ug/L		98
61) Toluene	7.672	92	2770998	118.351	ug/L		99
62) 4-Methyl-2-pentanone	8.105	58	212007	128.730	ug/L		94
63) Tetrachloroethene	8.124	166	1157915	122.283	ug/L		96
65) trans-1,3-Dichloropropene	8.155	75	1385039	131.807	ug/L		99
67) Ethyl methacrylate	8.344	69	1079969	132.818	ug/L		92
68) 1,1,2-Trichloroethane	8.342	83	660969	122.575	ug/L		97
69) Chlorodibromomethane	8.554	129	1007134	129.641	ug/L		96
70) 1,3-Dichloropropane	8.662	76	1293051	118.788	ug/L		99
71) 1,2-Dibromoethane	8.827	107	760598	126.212	ug/L		99
72) 2-Hexanone	9.108	43	388149	131.205	ug/L		97
73) Chlorobenzene	9.477	112	3201713	123.078	ug/L		96
74) Ethylbenzene	9.513	91	5845839	125.279	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.563	131	1139140	128.444	ug/L		98
76) p/m Xylene	9.702	106	5082885	266.431	ug/L		96
77) o Xylene	10.246	106	4862468	267.535	ug/L		97

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N11.D
Acq On : 12 Sep 2024 3:11 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1970861,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 12:25:42 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.316	104	8274398	283.004	ug/L	97
80) Bromoform	10.341	173	674487	142.956	ug/L	100
82) Isopropylbenzene	10.634	105	6065450	124.881	ug/L	98
84) Bromobenzene	11.072	156	1309320	121.608	ug/L	99
85) n-Propylbenzene	11.119	91	7304375	126.520	ug/L	100
86) 1,4-Dichlorobutane	11.133	55	1348385	119.454	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.208	83	908804	119.318	ug/L	99
88) 4-Ethyltoluene	11.245	105	5750922	125.168	ug/L	98
89) 2-Chlorotoluene	11.286	91	3891620M1	121.025	ug/L	
90) 1,3,5-Trimethylbenzene	11.345	105	5201434	130.319	ug/L	98
91) 1,2,3-Trichloropropane	11.345	75	808772M1	122.798	ug/L	
92) trans-1,4-Dichloro-2-b...	11.398	53	258928	125.003	ug/L	100
93) 4-Chlorotoluene	11.473	91	4009041	124.312	ug/L	98
94) tert-Butylbenzene	11.685	119	4235711	128.268	ug/L	100
97) 1,2,4-Trimethylbenzene	11.763	105	4853548	127.544	ug/L	98
98) sec-Butylbenzene	11.878	105	6304536	129.223	ug/L	98
99) p-Isopropyltoluene	12.031	119	5309122	132.586	ug/L	99
100) 1,3-Dichlorobenzene	12.101	146	2599107	124.446	ug/L	99
101) 1,4-Dichlorobenzene	12.195	146	2583764	121.446	ug/L	98
102) p-Diethylbenzene	12.407	119	2895678	132.247	ug/L	98
103) n-Butylbenzene	12.466	91	4221415	128.477	ug/L	98
104) 1,2-Dichlorobenzene	12.617	146	2236651	122.225	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.202	119	3837989	131.897	ug/L	100
106) 1,2-Dibromo-3-chloropr...	13.397	155	112927	150.794	ug/L	97
107) 1,3,5-Trichlorobenzene	13.431	180	1297294	125.898	ug/L	98
108) Hexachlorobutadiene	14.003	225	438068	128.113	ug/L	99
109) 1,2,4-Trichlorobenzene	14.028	180	1032462	127.215	ug/L	96
110) Naphthalene	14.320	128	2175889	130.293	ug/L	100
111) 1,2,3-Trichlorobenzene	14.491	180	794019	127.829	ug/L	97

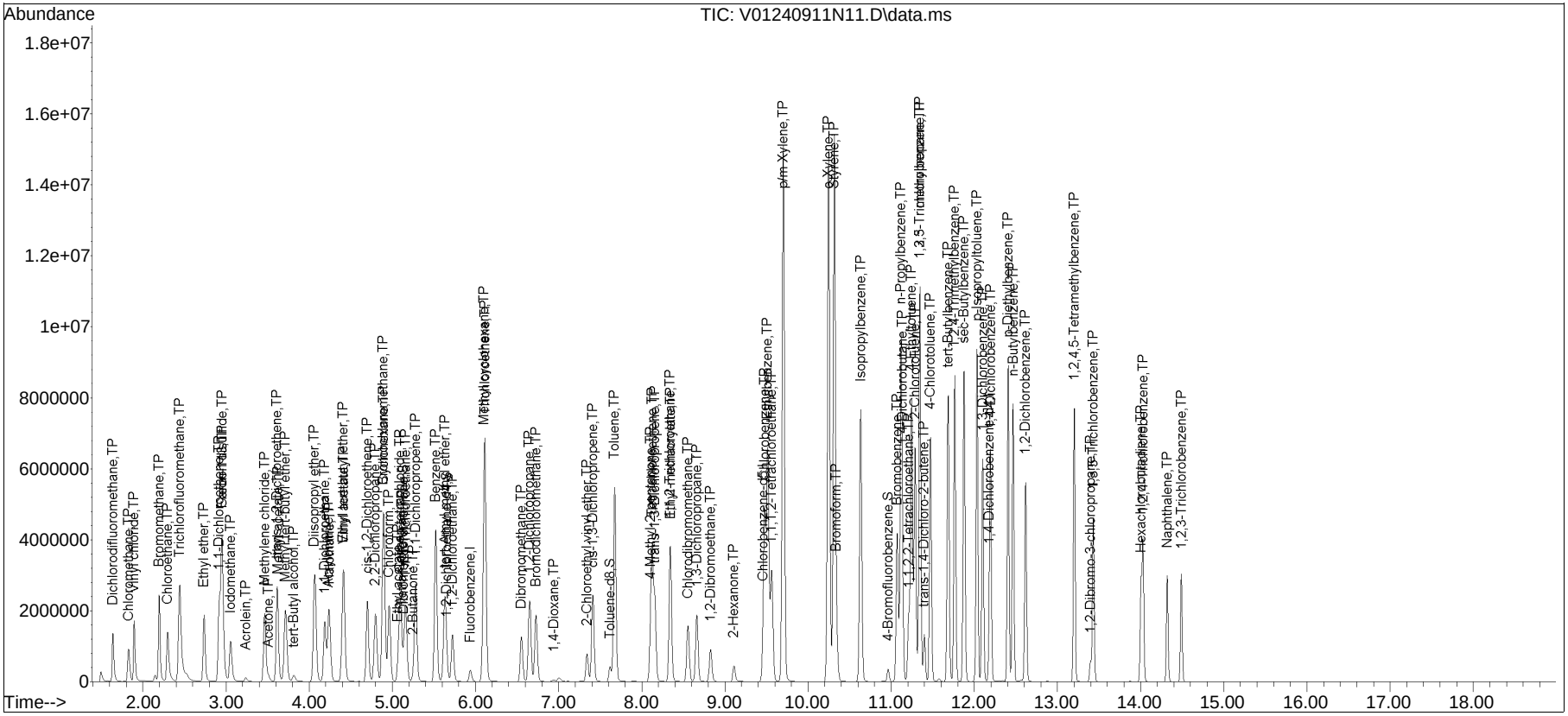
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N11.D
Acq On : 12 Sep 2024 3:11 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1970861,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 12:25:42 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

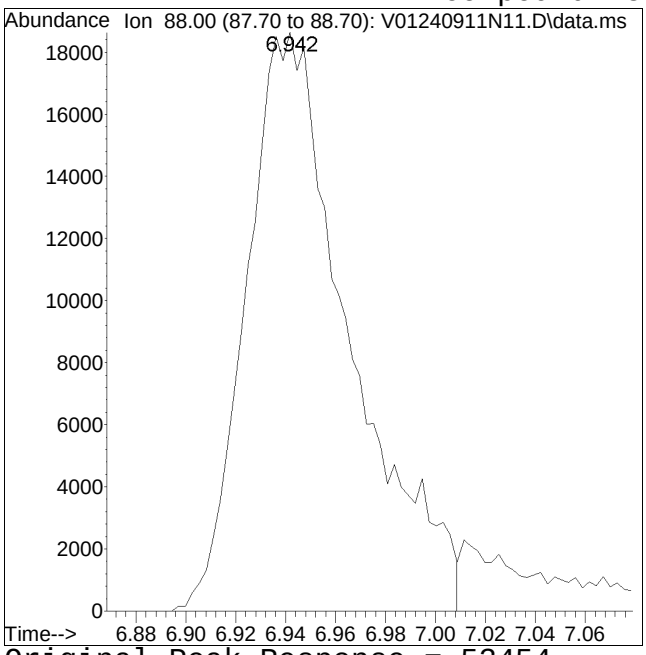
Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

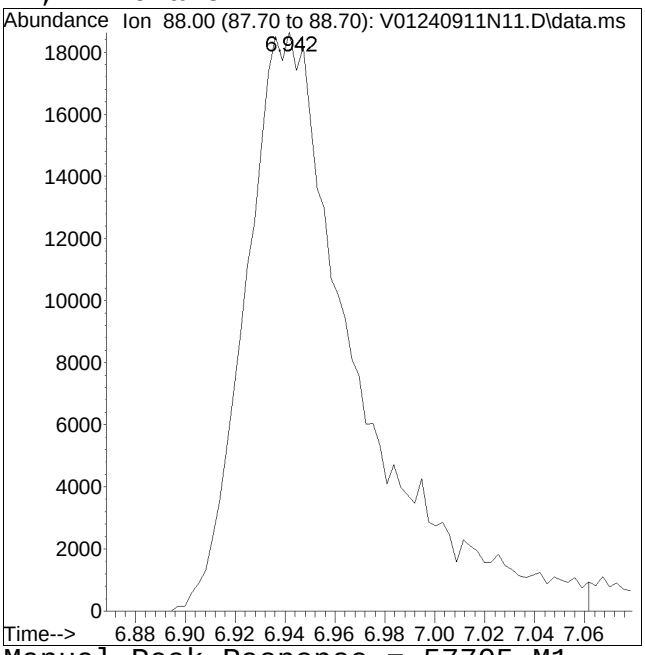


Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N11.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 3:11 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 9/12/2024 12:25 pm

Compound #57: 1,4-Dioxane





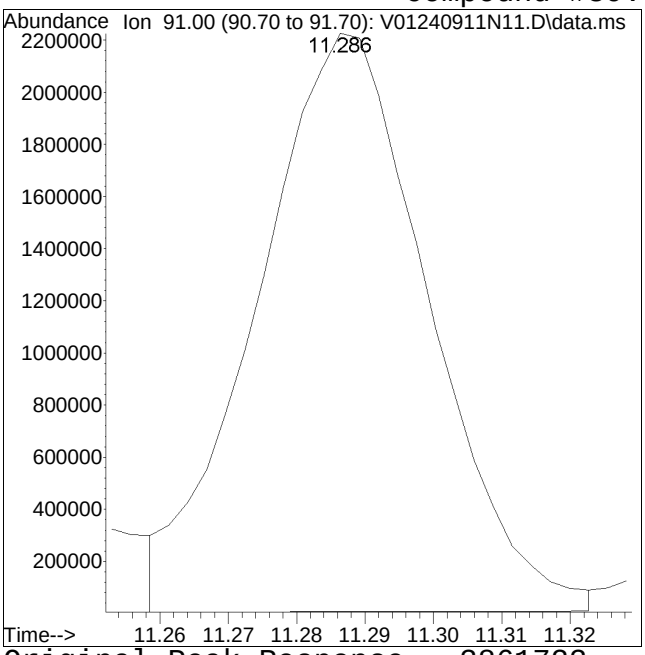
Original Peak Response = 53454 Manual Peak Response = 57705 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

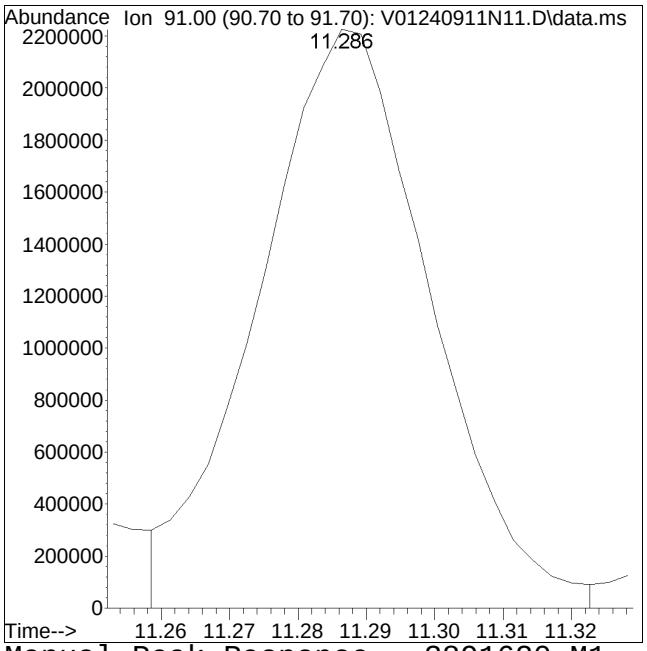
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N11.D
Date Inj'd : 9/12/2024 3:11 am
Sample : I8260STD120PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 3861723



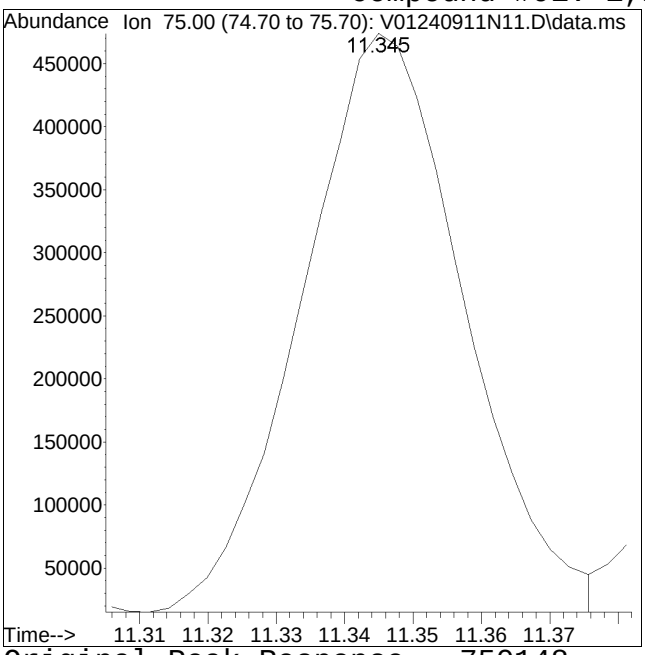
Manual Peak Response = 3891620 M1

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

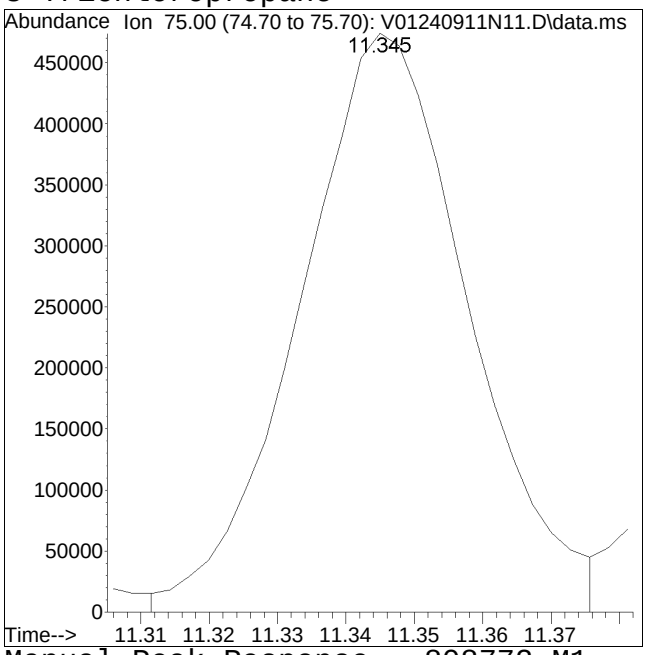
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N11.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 3:11 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 9/12/2024 12:25 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 750148



Manual Peak Response = 808772 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N12.D
Acq On : 12 Sep 2024 3:37 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1970861,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 12:25:49 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	344795	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 118.88%			
59) Chlorobenzene-d5	9.460	117	314863	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 137.55%			
79) 1,4-Dichlorobenzene-d4	12.182	152	170932	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 144.72%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.138	113	96674	10.690	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.90%			
43) 1,2-Dichloroethane-d4	5.653	65	111023	10.685	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.85%			
60) Toluene-d8	7.619	98	337808	8.946	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.46%			
83) 4-Bromofluorobenzene	10.960	95	133574	9.214	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	2002629	216.111	ug/L	99
3) Chloromethane	1.827	50	1798351	192.334	ug/L	99
4) Vinyl chloride	1.894	62	2524416	206.261	ug/L	98
5) Bromomethane	2.196	94	2288939	247.854	ug/L	97
6) Chloroethane	2.293	64	2108807	155.051	ug/L	100
7) Trichlorofluoromethane	2.441	101	5526523	196.653	ug/L	98
8) Ethyl ether	2.737	74	1366649	188.340	ug/L	94
10) 1,1-Dichloroethene	2.915	96	2308607	284.510	ug/L	92
11) Carbon disulfide	2.949	76	5865787	253.222	ug/L	100
12) Freon-113	2.949	101	2154564	264.089	ug/L	87
13) Iodomethane	3.054	142	2585891	251.223	ug/L	96
14) Acrolein	3.236	56	158853	233.428	ug/L	95
15) Methylene chloride	3.464	84	1731606	207.135	ug/L	95
17) Acetone	3.509	43	252069	115.181	ug/L	97
18) trans-1,2-Dichloroethene	3.615	96	1893511	229.789	ug/L	92
19) Methyl acetate	3.623	43	666950	197.859	ug/L	99
20) Methyl tert-butyl ether	3.713	73	4202814	221.330	ug/L	98
21) tert-Butyl alcohol	3.816	59	398203	1086.429	ug/L	97
22) Diisopropyl ether	4.067	45	5411679	218.787	ug/L	98
23) 1,1-Dichloroethane	4.187	63	3234928	216.096	ug/L	98
24) Halothane	4.237	117	1450442	232.984	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N12.D
Acq On : 12 Sep 2024 3:37 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1970861,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 12:25:49 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.234	53	352477	220.236	ug/L		97
26) Ethyl tert-butyl ether	4.410	59	4759887	226.574	ug/L		90
27) Vinyl acetate	4.418	43	2612696	229.488	ug/L		100
28) cis-1,2-Dichloroethene	4.700	96	2047057	222.294	ug/L		94
29) 2,2-Dichloropropane	4.795	77	2561168	223.103	ug/L		97
30) Bromochloromethane	4.892	128	929327	223.207	ug/L		89
31) Cyclohexane	4.895	56	3269963	235.777	ug/L		89
32) Chloroform	4.962	83	3344778	218.095	ug/L		98
33) Ethyl acetate	5.068	43	1012895	213.268	ug/L		98
34) Carbon tetrachloride	5.096	117	2925724	250.536	ug/L		100
35) Tetrahydrofuran	5.112	42	294615M1	199.267	ug/L		
37) 1,1,1-Trichloroethane	5.157	97	3049054	222.331	ug/L		98
39) 2-Butanone	5.249	43	405828	205.810	ug/L		96
40) 1,1-Dichloropropene	5.280	75	2641502	227.128	ug/L		99
41) Benzene	5.522	78	7577686	226.572	ug/L		99
42) tert-Amyl methyl ether	5.631	73	4237060	227.793	ug/L		97
44) 1,2-Dichloroethane	5.723	62	2096663	209.431	ug/L		99
47) Methyl cyclohexane	6.105	83	3719933	251.895	ug/L		90
48) Trichloroethene	6.116	95	2455826	260.021	ug/L		97
50) Dibromomethane	6.551	93	1013728	220.603	ug/L		97
51) 1,2-Dichloropropane	6.649	63	1763410	216.079	ug/L		98
53) 2-Chloroethyl vinyl ether	7.341	63	672821	218.640	ug/L		95
54) Bromodichloromethane	6.727	83	2520255	226.500	ug/L		100
57) 1,4-Dioxane	6.945	88	98021M1	2133.610	ug/L		
58) cis-1,3-Dichloropropene	7.410	75	2897866	238.002	ug/L		100
61) Toluene	7.675	92	5254251	208.346	ug/L		99
62) 4-Methyl-2-pentanone	8.105	58	375746	211.819	ug/L		94
63) Tetrachloroethene	8.124	166	2288798	224.407	ug/L		97
65) trans-1,3-Dichloropropene	8.158	75	2578102	227.780	ug/L		100
67) Ethyl methacrylate	8.342	69	1960973	223.902	ug/L		93
68) 1,1,2-Trichloroethane	8.342	83	1212111	208.691	ug/L		97
69) Chlorodibromomethane	8.556	129	1850202	221.112	ug/L		97
70) 1,3-Dichloropropane	8.662	76	2306567	196.727	ug/L		100
71) 1,2-Dibromoethane	8.827	107	1360357	209.575	ug/L		99
72) 2-Hexanone	9.109	43	662949	208.053	ug/L		99
73) Chlorobenzene	9.477	112	6127497	218.685	ug/L		96
74) Ethylbenzene	9.516	91	11343315	225.689	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.566	131	2164531	226.590	ug/L		98
76) p/m Xylene	9.705	106	10660943	518.812	ug/L	#	1
77) o Xylene	10.249	106	9986720	510.138	ug/L	#	1

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N12.D
Acq On : 12 Sep 2024 3:37 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1970861,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 12:25:49 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.316	104	16275637	516.815	ug/L	99
80) Bromoform	10.344	173	1301396	260.681	ug/L	100
82) Isopropylbenzene	10.634	105	11763648	228.900	ug/L	99
84) Bromobenzene	11.072	156	2452160	215.246	ug/L	99
85) n-Propylbenzene	11.119	91	14116171	231.080	ug/L	99
86) 1,4-Dichlorobutane	11.133	55	2523156	211.252	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.208	83	1587040	196.921	ug/L	99
88) 4-Ethyltoluene	11.247	105	11192416	230.223	ug/L	99
89) 2-Chlorotoluene	11.289	91	7304302M1	214.681	ug/L	
90) 1,3,5-Trimethylbenzene	11.348	105	10169541	240.799	ug/L	98
91) 1,2,3-Trichloropropane	11.345	75	1537173M1	220.575	ug/L	
92) trans-1,4-Dichloro-2-b...	11.401	53	441432	201.408	ug/L	96
93) 4-Chlorotoluene	11.473	91	7575997	222.015	ug/L	97
94) tert-Butylbenzene	11.685	119	8137628	232.895	ug/L	99
97) 1,2,4-Trimethylbenzene	11.763	105	9196744	228.405	ug/L	98
98) sec-Butylbenzene	11.878	105	11818443	228.938	ug/L	99
99) p-Isopropyltoluene	12.034	119	10134564	239.193	ug/L	99
100) 1,3-Dichlorobenzene	12.101	146	4904998	221.955	ug/L	99
101) 1,4-Dichlorobenzene	12.196	146	4878786	216.727	ug/L	98
102) p-Diethylbenzene	12.408	119	5627272	242.886	ug/L	99
103) n-Butylbenzene	12.466	91	7920288	227.812	ug/L	98
104) 1,2-Dichlorobenzene	12.617	146	4179049	215.829	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.202	119	7688706	249.721	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.398	155	203467	256.773	ug/L	98
107) 1,3,5-Trichlorobenzene	13.431	180	2618691	240.179	ug/L	98
108) Hexachlorobutadiene	14.005	225	901135	249.065	ug/L	100
109) 1,2,4-Trichlorobenzene	14.028	180	2125912	247.559	ug/L	97
110) Naphthalene	14.318	128	3903070	220.881	ug/L	100
111) 1,2,3-Trichlorobenzene	14.488	180	1505677	229.086	ug/L	97

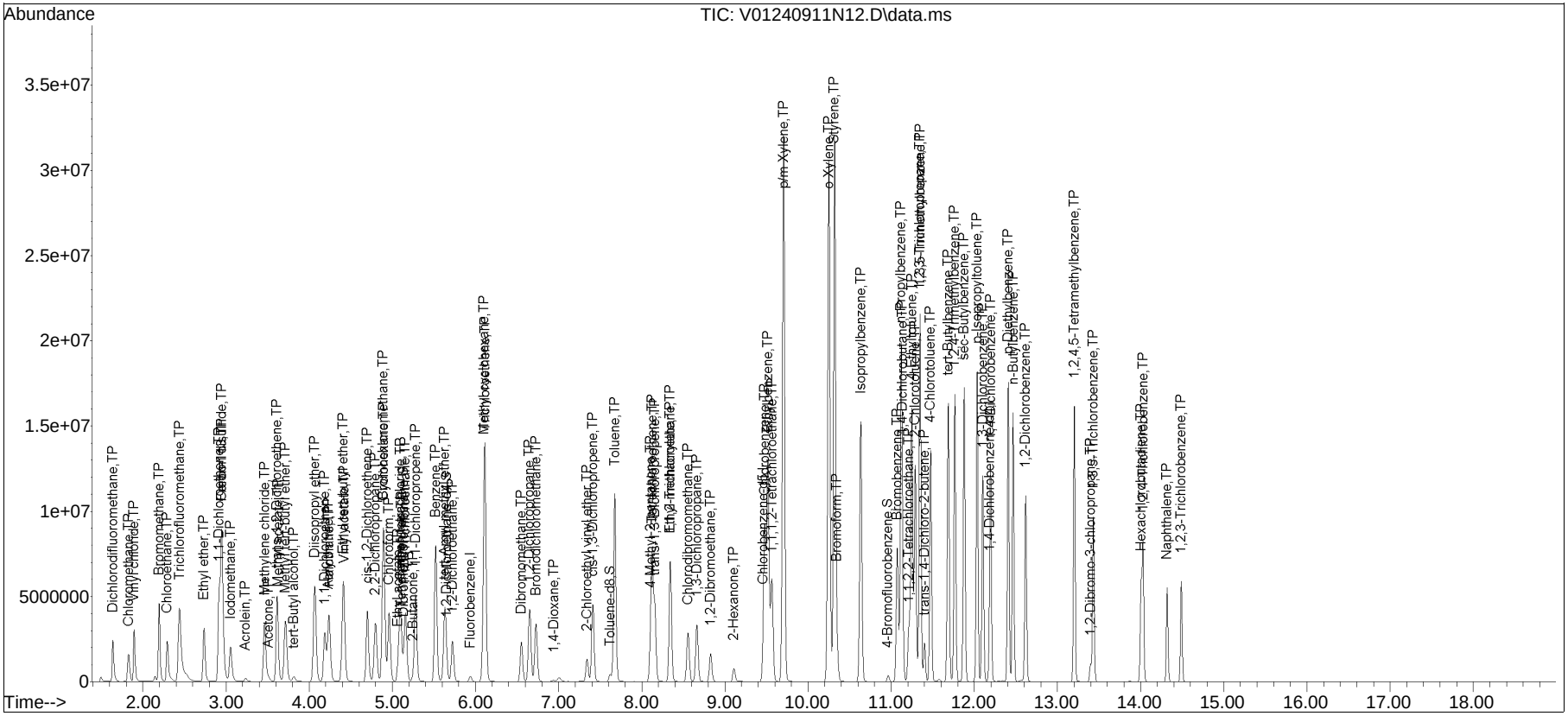
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N12.D
Acq On : 12 Sep 2024 3:37 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1970861,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 12:25:49 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:24:29 2024
Response via : Initial Calibration

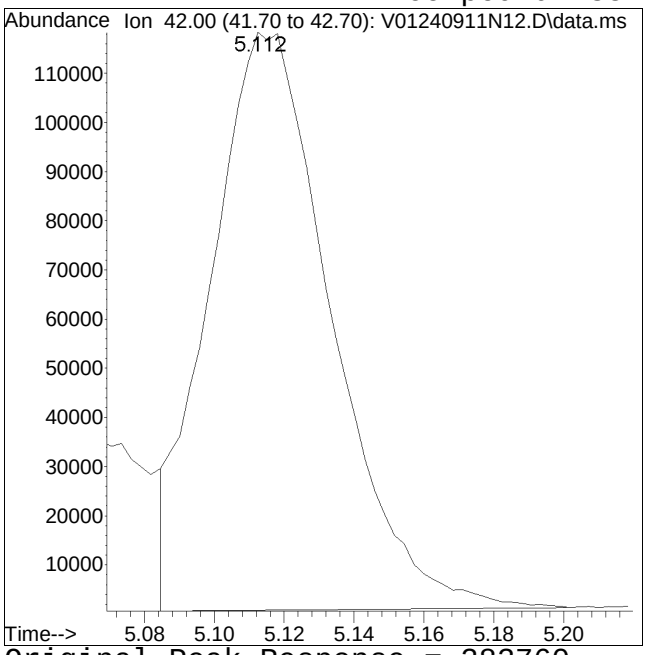
Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

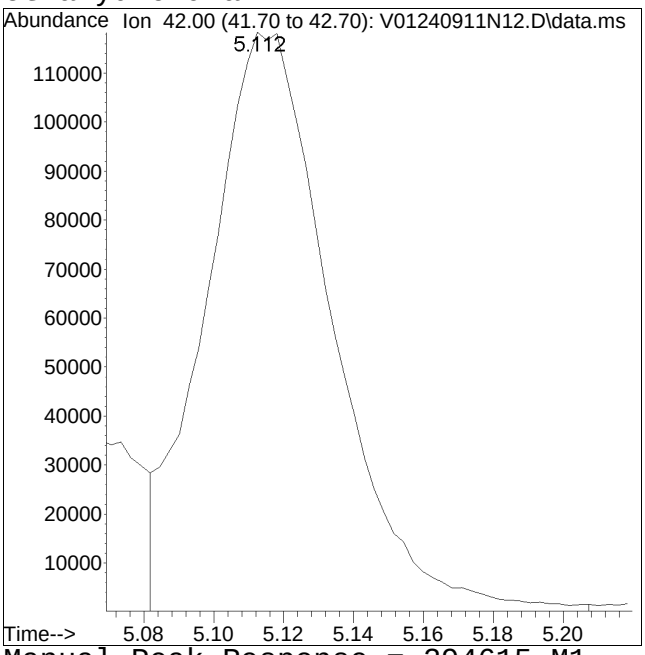


Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N12.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 3:37 am Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 9/12/2024 12:25 pm

Compound #35: Tetrahydrofuran



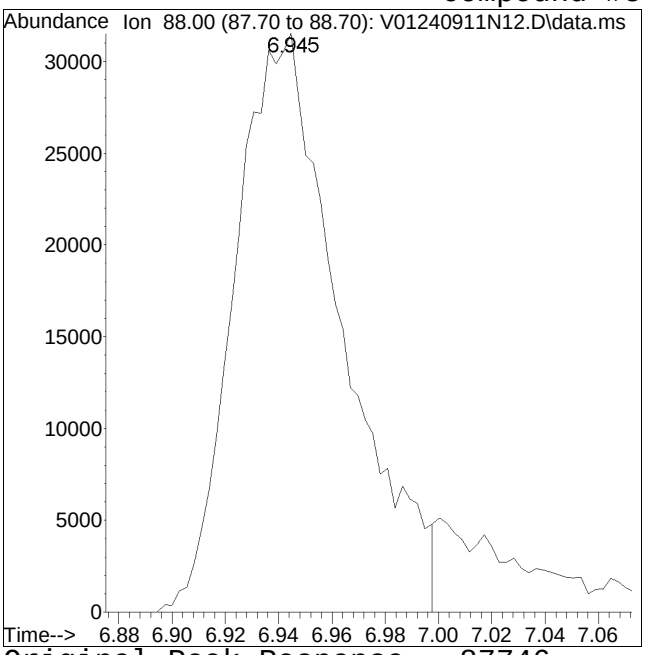


Original Peak Response = 283760 Manual Peak Response = 294615 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

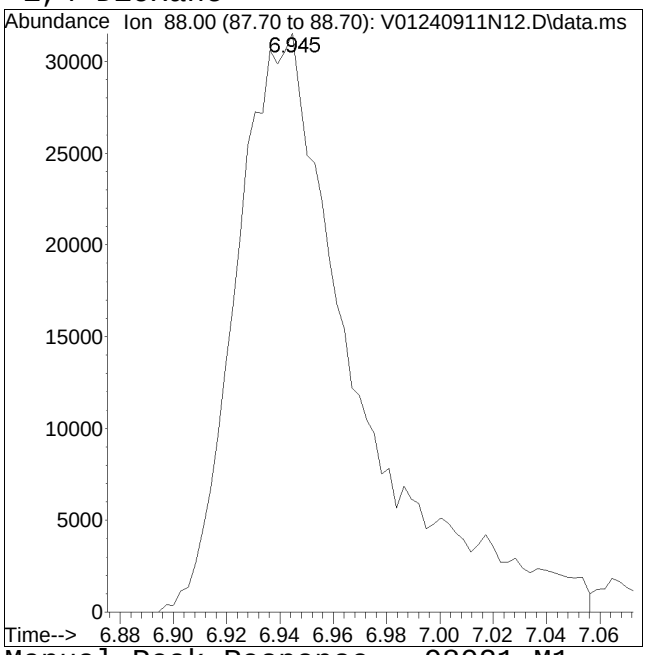
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N12.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 3:37 am Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 9/12/2024 12:25 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 87746



Manual Peak Response = 98021 M1

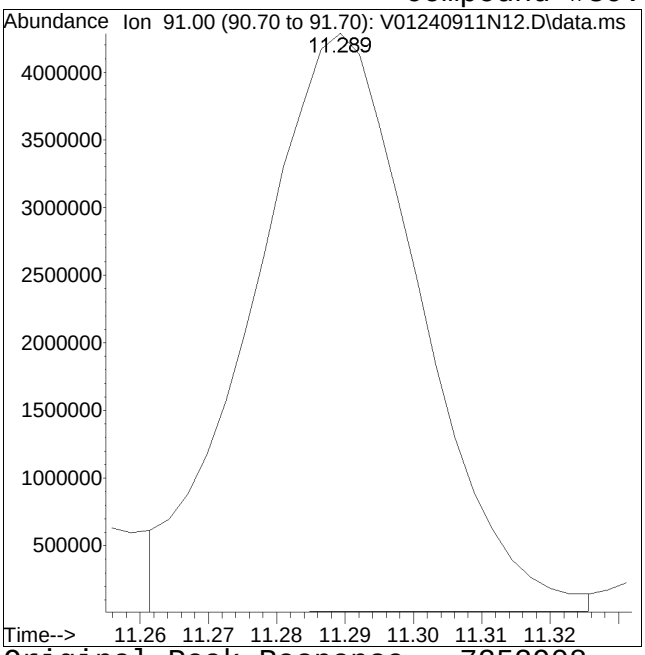
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

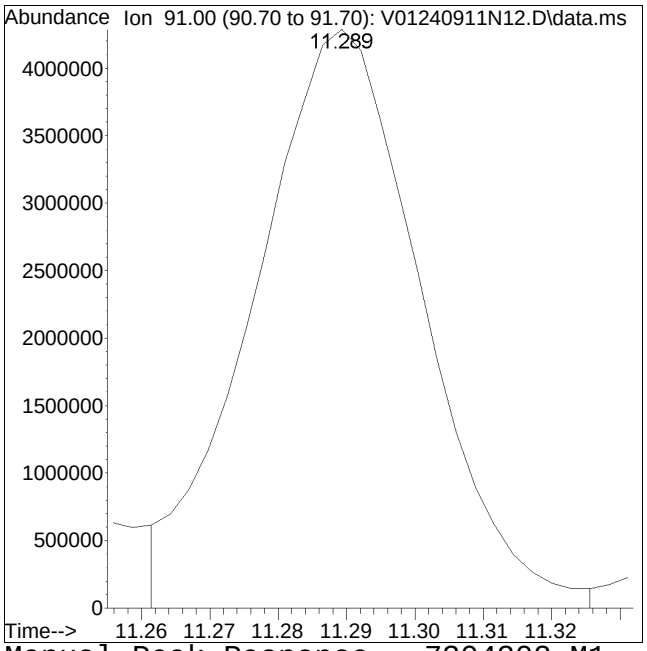
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N12.D
Date Inj'd : 9/12/2024 3:37 am
Sample : I8260STD200PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:25 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 7252908



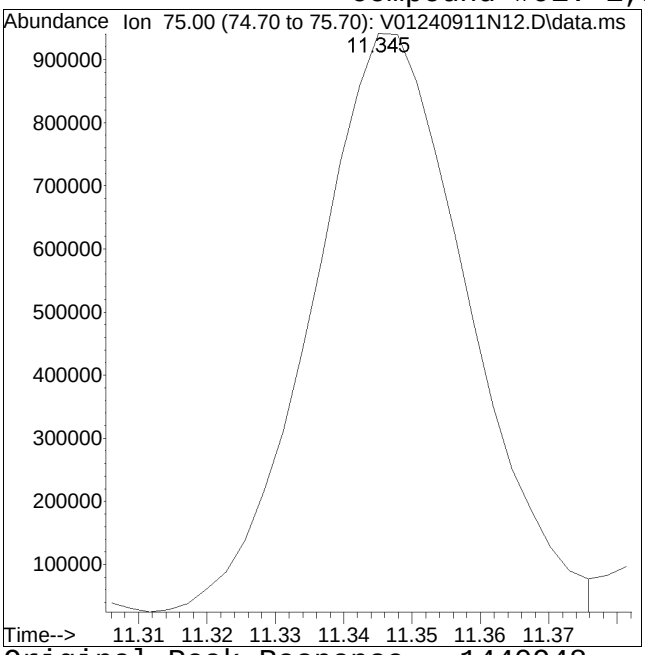
Manual Peak Response = 7304302 M1

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

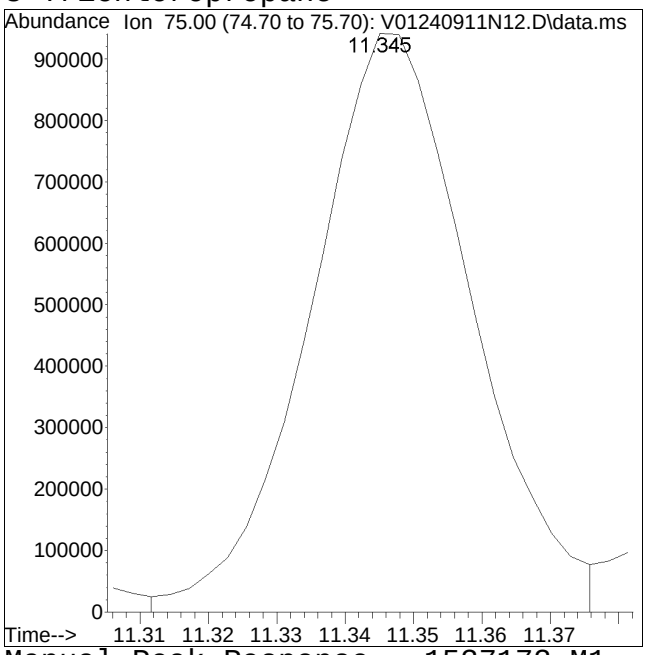
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N12.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 3:37 am Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 9/12/2024 12:25 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1440948



Manual Peak Response = 1537173 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2	TP	Dichlorodifluoromethane	0.269	0.238	11.5	95	0.00
3	TP	Chloromethane	0.271	0.284	-4.8	120	0.00
4	TP	Vinyl chloride	0.355	0.352	0.8	106	0.00
5	TP	Bromomethane	0.268	0.275	-2.6	123	0.00
6	TP	Chloroethane	* 10.000	9.926	0.7	98	0.00
7	TP	Trichlorofluoromethane	0.815	0.796	2.3	101	0.00
8	TP	Ethyl ether	0.210	0.205	2.4	99	0.00
10	TP	1,1-Dichloroethene	0.219	0.388	-77.2#	182	0.00
11	TP	Carbon disulfide	0.672	0.818	-21.7#	144	0.00
12	TP	Freon-113	0.237	0.317	-33.8#	153	0.00
13	TP	Iodomethane	0.320	0.236	26.3#	86	0.00
14	TP	Acrolein	0.020	0.014	30.0#	82	0.00
15	TP	Methylene chloride	0.242	0.218	9.9	101	0.00
17	TP	Acetone	* 10.000	9.289	7.1	91	0.00
18	TP	trans-1,2-Dichloroethene	0.239	0.218	8.8	101	0.00
19	TP	Methyl acetate	0.098	0.088	10.2	103	0.00
20	TP	Methyl tert-butyl ether	0.551	0.452	18.0	89	0.00
21	TP	tert-Butyl alcohol	0.011	0.010	9.1	106	0.00
22	TP	Diisopropyl ether	0.717	0.666	7.1	99	0.00
23	TP	1,1-Dichloroethane	0.434	0.404	6.9	99	0.00
24	TP	Halothane	0.181	0.156	13.8	93	0.00
25	TP	Acrylonitrile	0.046	0.041	10.9	98	0.00
26	TP	Ethyl tert-butyl ether	0.609	0.557	8.5	99	0.00
27	TP	Vinyl acetate	0.330	0.330	0.0	110	0.00
28	TP	cis-1,2-Dichloroethene	0.267	0.242	9.4	96	0.00
29	TP	2,2-Dichloropropane	0.333	0.278	16.5	90	0.00
30	TP	Bromochloromethane	0.121	0.108	10.7	94	0.00
31	TP	Cyclohexane	0.402	0.336	16.4	94	0.00
32	TP	Chloroform	0.445	0.425	4.5	100	0.00
33	TP	Ethyl acetate	0.138	0.138	0.0	111	0.00
34	TP	Carbon tetrachloride	0.355	0.324	8.7	103	0.00
35	TP	Tetrahydrofuran	0.042	0.041	2.4	96	0.00
36	S	Dibromofluoromethane	0.262	0.253	3.4	98	0.00
37	TP	1,1,1-Trichloroethane	0.398	0.381	4.3	103	0.00
39	TP	2-Butanone	0.057	0.049	14.0	97	0.00
40	TP	1,1-Dichloropropene	0.337	0.327	3.0	103	0.00
41	TP	Benzene	0.970	0.909	6.3	99	0.00
42	TP	tert-Amyl methyl ether	0.539	0.498	7.6	99	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4		0.301	0.294	2.3	101	0.00
44	TP	1,2-Dichloroethane		0.290	0.284	2.1	100	0.00
47	TP	Methyl cyclohexane		0.428	0.349	18.5	97	0.00
48	TP	Trichloroethene		0.274	0.258	5.8	101	0.00
50	TP	Dibromomethane		0.133	0.126	5.3	99	0.00
51	TP	1,2-Dichloropropane		0.237	0.227	4.2	98	0.00
53	TP	2-Chloroethyl vinyl ether		0.089	0.081	9.0	90	0.00
54	TP	Bromodichloromethane		0.323	0.293#	9.3	94	0.00
57	TP	1,4-Dioxane		0.00133	0.00123#	7.5	96	0.00
58	TP	cis-1,3-Dichloropropene		0.353	0.338	4.2	101	0.00
59	I	Chlorobenzene-d5		1.000	1.000	0.0	102	0.00
60	S	Toluene-d8		1.199	1.215	-1.3	99	0.00
61	TP	Toluene		0.801	0.764	4.6	103	0.00
62	TP	4-Methyl-2-pentanone		0.056	0.053	5.4	104	0.00
63	TP	Tetrachloroethene		0.324	0.318	1.9	105	0.00
65	TP	trans-1,3-Dichloropropene		0.359	0.353	1.7	101	0.00
67	TP	Ethyl methacrylate		0.278	0.258	7.2	102	0.00
68	TP	1,1,2-Trichloroethane		0.184	0.184#	0.0	100	0.00
69	TP	Chlorodibromomethane		0.266	0.259	2.6	100	0.00
70	TP	1,3-Dichloropropane		0.372	0.373	-0.3	99	0.00
71	TP	1,2-Dibromoethane		0.206	0.212	-2.9	103	0.00
72	TP	2-Hexanone		0.101	0.090	10.9	97	0.00
73	TP	Chlorobenzene		0.890	0.860	3.4	105	0.00
74	TP	Ethylbenzene		1.596	1.454	8.9	99	0.00
75	TP	1,1,1,2-Tetrachloroethane		0.303	0.282	6.9	98	0.00
76	TP	p/m Xylene		0.653	0.567	13.2	99	0.00
77	TP	o Xylene		0.622	0.543	12.7	100	0.00
78	TP	Styrene	*	20.000	17.340	13.3	100	0.00
79	I	1,4-Dichlorobenzene-d4		1.000	1.000	0.0	104	0.00
80	TP	Bromoform	*	10.000	8.886	11.1	108	0.00
82	TP	Isopropylbenzene		3.007	2.412	19.8	90	0.00
83	S	4-Bromofluorobenzene		0.848	0.862	-1.7	102	0.00
84	TP	Bromobenzene		0.666	0.616	7.5	100	0.00
85	TP	n-Propylbenzene		3.574	3.274	8.4	103	0.00
86	TP	1,4-Dichlorobutane		0.699	0.648	7.3	101	0.00
87	TP	1,1,2,2-Tetrachloroethane		0.473	0.466	1.5	103	0.00
88	TP	4-Ethyltoluene		2.844	2.718	4.4	108	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.990	1.832	7.9	100	0.00
90 TP	1,3,5-Trimethylbenzene	2.471	2.160	12.6	99	0.00
91 TP	1,2,3-Trichloropropane	0.408	0.368	9.8	102	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.128	0.117	8.6	95	0.00
93 TP	4-Chlorotoluene	1.996	1.905	4.6	102	0.00
94 TP	tert-Butylbenzene	2.044	1.879	8.1	103	0.00
97 TP	1,2,4-Trimethylbenzene	2.356	2.207	6.3	104	0.00
98 TP	sec-Butylbenzene	3.020	2.737	9.4	103	0.00
99 TP	p-Isopropyltoluene	2.479	2.257	9.0	104	0.00
100 TP	1,3-Dichlorobenzene	1.293	1.251	3.2	106	0.00
101 TP	1,4-Dichlorobenzene	1.317	1.254	4.8	106	0.00
102 TP	p-Diethylbenzene	1.355	1.237	8.7	104	0.00
103 TP	n-Butylbenzene	2.034	1.973	3.0	107	0.00
104 TP	1,2-Dichlorobenzene	1.133	1.129	0.4	108	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.801	1.708	5.2	109	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	9.807	1.9	122	0.00
107 TP	1,3,5-Trichlorobenzene	0.638	0.600	6.0	103	0.00
108 TP	Hexachlorobutadiene	0.212	0.222	-4.7	123	0.00
109 TP	1,2,4-Trichlorobenzene	0.502	0.506	-0.8	109	0.00
110 TP	Naphthalene	1.034	1.048	-1.4	112	0.00
111 TP	1,2,3-Trichlorobenzene	0.385	0.395#	-2.6	111	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.941	96	290859	10.000	ug/L	0.00
Standard Area 1 = 290042			Recovery = 100.28%			
59) Chlorobenzene-d5	9.454	117	232367	10.000	ug/L	0.00
Standard Area 1 = 228912			Recovery = 101.51%			
79) 1,4-Dichlorobenzene-d4	12.176	152	123170	10.000	ug/L	0.00
Standard Area 1 = 118116			Recovery = 104.28%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.135	113	73570	9.644	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.44%			
43) 1,2-Dichloroethane-d4	5.659	65	85632	9.770	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.70%			
60) Toluene-d8	7.617	98	282411	10.134	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.34%			
83) 4-Bromofluorobenzene	10.963	95	106184	10.165	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.65%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	69110	8.841	ug/L	99
3) Chloromethane	1.827	50	82617	10.474	ug/L	98
4) Vinyl chloride	1.897	62	102245	9.903	ug/L	91
5) Bromomethane	2.193	94	79978	10.266	ug/L	96
6) Chloroethane	2.304	64	101874	9.926	ug/L	100
7) Trichlorofluoromethane	2.441	101	231473	9.764	ug/L	98
8) Ethyl ether	2.742	74	59743	9.760	ug/L	95
10) 1,1-Dichloroethene	2.921	96	112871	17.739	ug/L	93
11) Carbon disulfide	2.949	76	237919	12.175	ug/L	100
12) Freon-113	2.954	101	92172	13.393	ug/L	93
13) Iodomethane	3.057	142	68688	7.389	ug/L #	93
14) Acrolein	3.241	56	4137	7.206	ug/L	92
15) Methylene chloride	3.464	84	63550	9.012	ug/L	99
17) Acetone	3.517	43	11549	9.289	ug/L #	62
18) trans-1,2-Dichloroethene	3.615	96	63277	9.103	ug/L	95
19) Methyl acetate	3.626	43	25509	8.971	ug/L #	87
20) Methyl tert-butyl ether	3.721	73	131422	8.204	ug/L	97
21) tert-Butyl alcohol	3.824	59	14777M3	47.793	ug/L	
22) Diisopropyl ether	4.067	45	193781	9.287	ug/L	97
23) 1,1-Dichloroethane	4.192	63	117383	9.295	ug/L	98
24) Halothane	4.240	117	45274	8.621	ug/L	99

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.240	53	12010	8.896	ug/L		90
26) Ethyl tert-butyl ether	4.407	59	162012	9.142	ug/L		93
27) Vinyl acetate	4.421	43	95966	9.992	ug/L		97
28) cis-1,2-Dichloroethene	4.700	96	70494	9.075	ug/L		94
29) 2,2-Dichloropropane	4.800	77	80988	8.363	ug/L		95
30) Bromochloromethane	4.892	128	31548	8.982	ug/L		96
31) Cyclohexane	4.889	56	97623	8.344	ug/L		91
32) Chloroform	4.959	83	123494	9.546	ug/L		99
33) Ethyl acetate	5.073	43	40138	10.018	ug/L		99
34) Carbon tetrachloride	5.096	117	94360	9.131	ug/L	#	94
35) Tetrahydrofuran	5.121	42	12017	9.804	ug/L		92
37) 1,1,1-Trichloroethane	5.157	97	110846	9.581	ug/L		98
39) 2-Butanone	5.263	43	14343	8.623	ug/L		99
40) 1,1-Dichloropropene	5.277	75	95169	9.700	ug/L	#	87
41) Benzene	5.522	78	264469	9.374	ug/L		99
42) tert-Amyl methyl ether	5.631	73	144978	9.240	ug/L		97
44) 1,2-Dichloroethane	5.726	62	82551	9.775	ug/L		99
47) Methyl cyclohexane	6.105	83	101642	8.159	ug/L		95
48) Trichloroethene	6.119	95	75025	9.417	ug/L		99
50) Dibromomethane	6.554	93	36643	9.453	ug/L		94
51) 1,2-Dichloropropane	6.655	63	65911	9.574	ug/L		98
53) 2-Chloroethyl vinyl ether	7.343	63	23572	9.080	ug/L		99
54) Bromodichloromethane	6.730	83	85100	9.066	ug/L		99
57) 1,4-Dioxane	6.945	88	17867M1	461.027	ug/L		
58) cis-1,3-Dichloropropene	7.416	75	98177	9.559	ug/L		96
61) Toluene	7.672	92	177591	9.542	ug/L		99
62) 4-Methyl-2-pentanone	8.110	58	12328	9.417	ug/L		91
63) Tetrachloroethene	8.124	166	73890	9.817	ug/L		95
65) trans-1,3-Dichloropropene	8.160	75	81959	9.812	ug/L		96
67) Ethyl methacrylate	8.347	69	59982	9.280	ug/L		97
68) 1,1,2-Trichloroethane	8.342	83	42772	9.979	ug/L		99
69) Chlorodibromomethane	8.559	129	60080	9.729	ug/L		97
70) 1,3-Dichloropropane	8.660	76	86635	10.012	ug/L		99
71) 1,2-Dibromoethane	8.835	107	49257	10.283	ug/L		99
72) 2-Hexanone	9.128	43	21002	8.931	ug/L	#	87
73) Chlorobenzene	9.477	112	199896	9.667	ug/L		97
74) Ethylbenzene	9.516	91	337762	9.106	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.560	131	65639	9.311	ug/L		99
76) p/m Xylene	9.703	106	263345	17.365	ug/L		98
77) o Xylene	10.244	106	252539	17.480	ug/L		98

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240911NICAL\V01240911N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.311	104	404325	17.340	ug/L		99
80) Bromoform	10.341	173	32381	8.886	ug/L		99
82) Isopropylbenzene	10.634	105	297082	8.022	ug/L		99
84) Bromobenzene	11.072	156	75929	9.249	ug/L		100
85) n-Propylbenzene	11.116	91	403202	9.160	ug/L		98
86) 1,4-Dichlorobutane	11.136	55	79848	9.278	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.208	83	57388	9.857	ug/L		100
88) 4-Ethyltoluene	11.245	105	334772	9.556	ug/L		99
89) 2-Chlorotoluene	11.284	91	225610M6	9.202	ug/L		
90) 1,3,5-Trimethylbenzene	11.342	105	266072	8.743	ug/L		98
91) 1,2,3-Trichloropropane	11.342	75	45380M1	9.037	ug/L		
92) trans-1,4-Dichloro-2-b...	11.401	53	14371	9.099	ug/L	#	74
93) 4-Chlorotoluene	11.471	91	234622	9.542	ug/L		99
94) tert-Butylbenzene	11.683	119	231422	9.191	ug/L		99
97) 1,2,4-Trimethylbenzene	11.763	105	271775	9.367	ug/L		96
98) sec-Butylbenzene	11.875	105	337119	9.063	ug/L		98
99) p-Isopropyltoluene	12.031	119	277945	9.104	ug/L		100
100) 1,3-Dichlorobenzene	12.098	146	154115	9.678	ug/L		99
101) 1,4-Dichlorobenzene	12.193	146	154488	9.524	ug/L		99
102) p-Diethylbenzene	12.405	119	152316	9.124	ug/L		98
103) n-Butylbenzene	12.463	91	243011	9.700	ug/L		97
104) 1,2-Dichlorobenzene	12.617	146	139117	9.971	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.200	119	210343	9.481	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.395	155	6659	9.807	ug/L		100
107) 1,3,5-Trichlorobenzene	13.431	180	73920	9.409	ug/L		97
108) Hexachlorobutadiene	14.005	225	27398	10.509	ug/L		99
109) 1,2,4-Trichlorobenzene	14.031	180	62281	10.065	ug/L		98
110) Naphthalene	14.321	128	129112	10.140	ug/L		100
111) 1,2,3-Trichlorobenzene	14.488	180	48713	10.286	ug/L		98

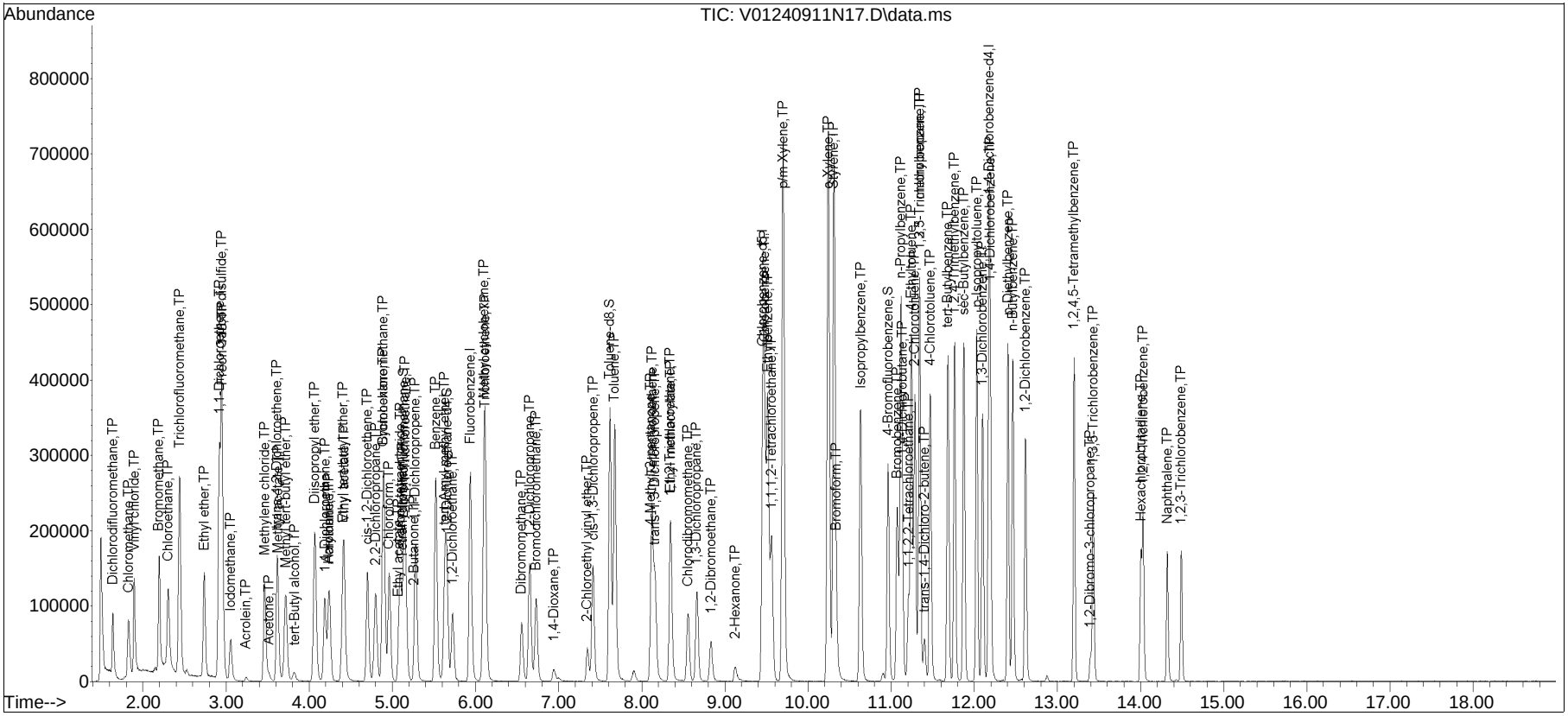
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240911NICAL\
Data File : V01240911N17.D
Acq On : 12 Sep 2024 5:47 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1970861,ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 12:38:32 2024
Quant Method : K:\VOA101\2024\240911NICAL\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01240911N08.D•

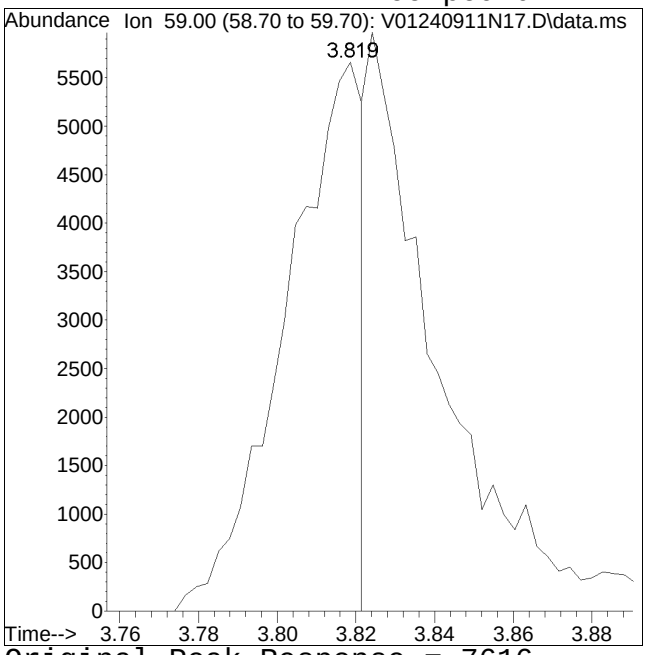


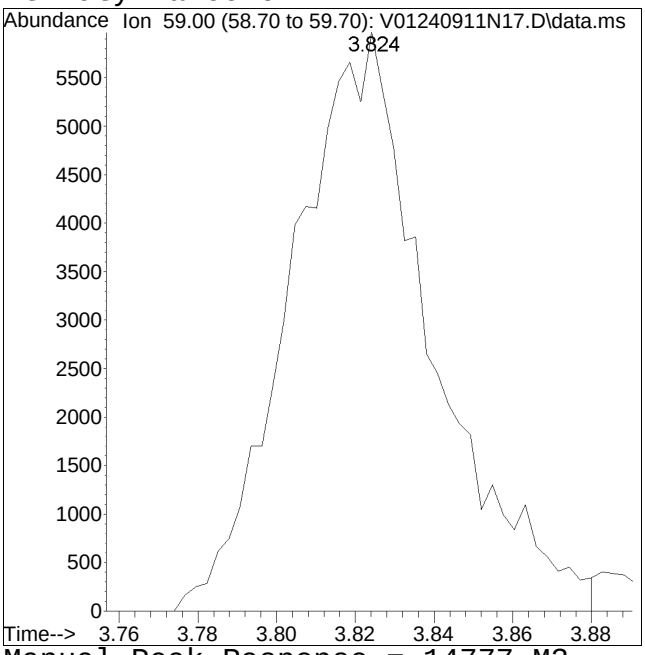
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N17.D
Date Inj'd : 9/12/2024 5:47 am
Sample : C8260STD10PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:36 pm

Compound #21: tert-Butyl alcohol





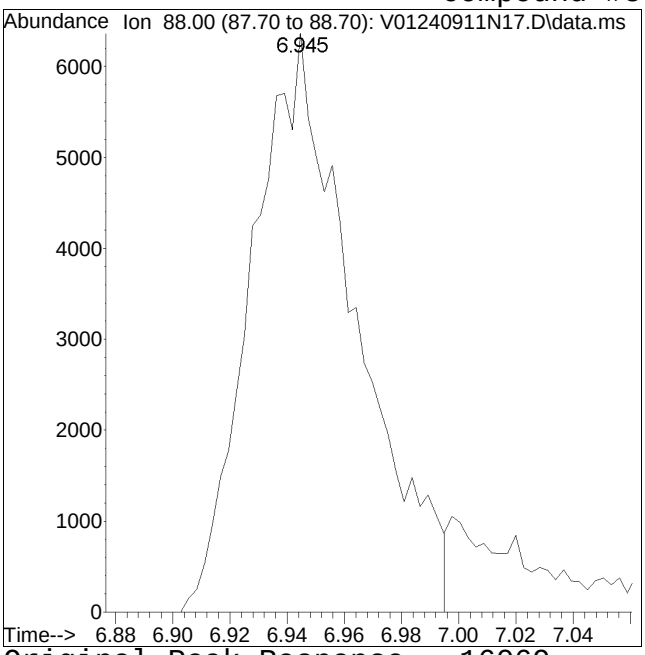
Original Peak Response = 7616 Manual Peak Response = 14777 M3

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

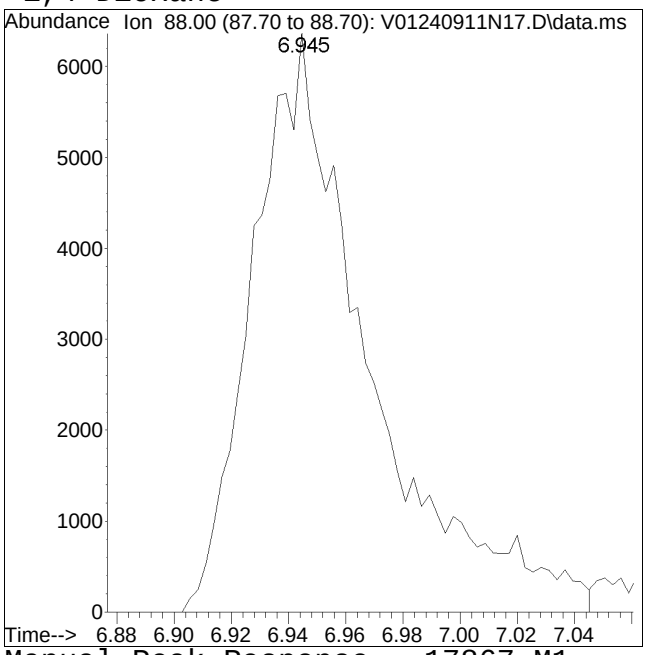
Manual Integration Report

Data Path : K:\VOA101\2024\240911NICALQMethod : V101_240911N_8260.m
Data File : V01240911N17.D Operator : VOA101:PID
Date Inj'd : 9/12/2024 5:47 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 9/12/2024 12:36 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 16069



Manual Peak Response = 17867 M1

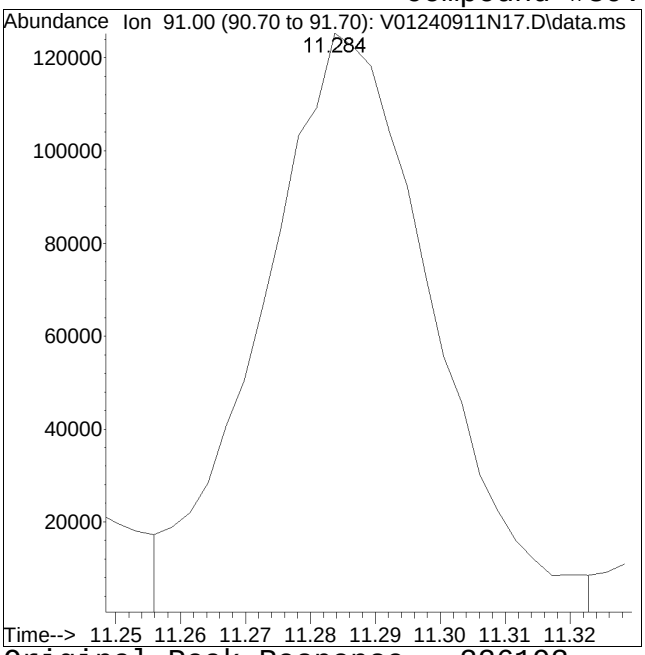
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

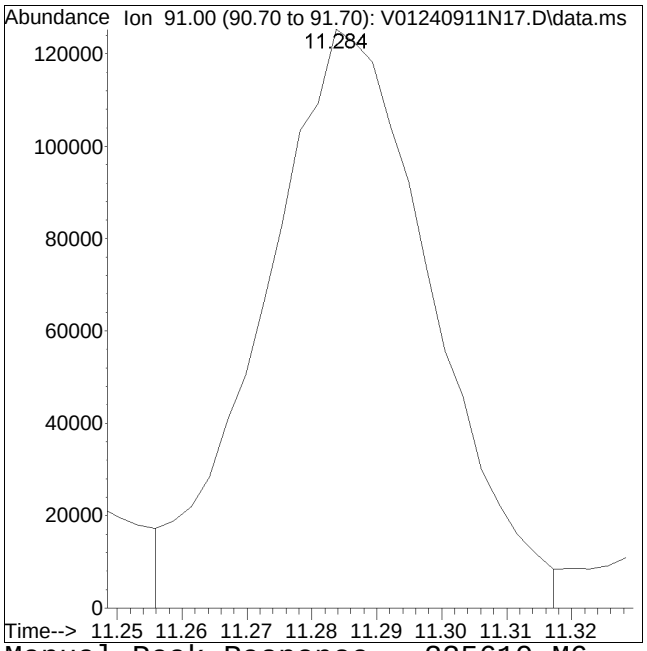
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N17.D
Date Inj'd : 9/12/2024 5:47 am
Sample : C8260STD10PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:36 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 226193



Manual Peak Response = 225610 M6

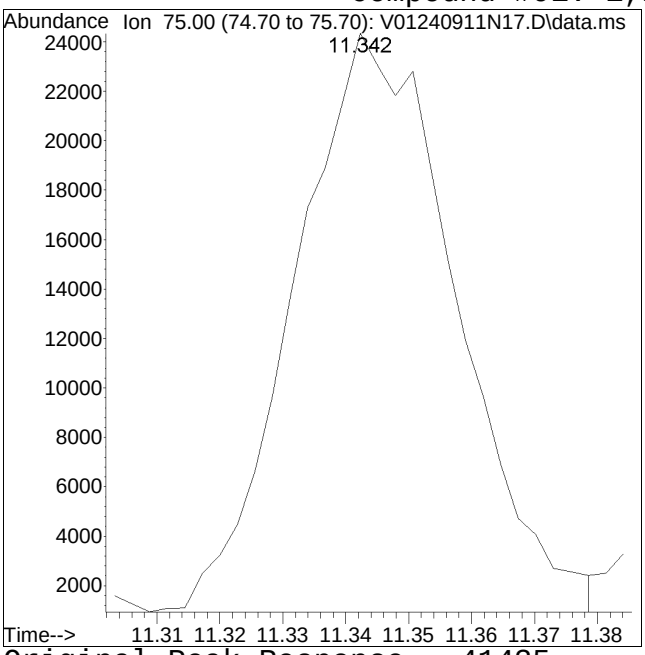
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

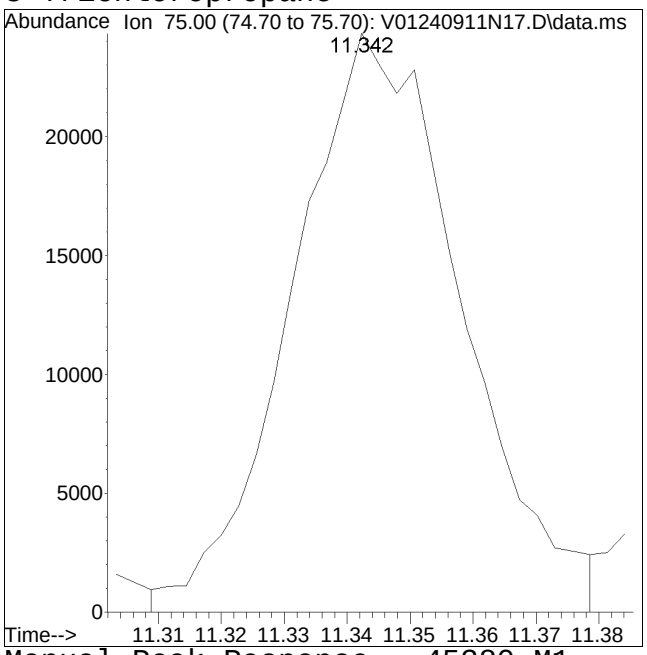
Data Path : K:\VOA101\2024\240911NICALQ
Data File : V01240911N17.D
Date Inj'd : 9/12/2024 5:47 am
Sample : C8260STD10PPB

Method : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/12/2024 12:36 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 41435



Manual Peak Response = 45380 M1

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

Evaluate Relative Error Report VOA 101

Method Path : K:\VOA101\2024\240911NICAL\
Method File : V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
6	TP Chloroethane	L	ug/L	10.0	10.142	1.4	0.50	0.352	-29.6
17	TP Acetone	L	ug/L	10.0	10.382	3.8	2.00	1.923	-3.8
78	TP Styrene	Q	ug/L	20.0	17.615	-11.9	1.00	1.159	15.9
80	TP Bromoform	Q	ug/L	10.0	8.585	-14.1	0.50	0.604	20.8
106	TP 1,2-Dibromo-3-chloropropane	L	ug/L	10.0	8.478	-15.2	0.50	0.611	22.2

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
6	TP Chloroethane	Linear	0.997331	0.000000	0.336225	0.0165047
17	TP Acetone	Linear	0.999721	0.000000	0.0367938	0.00552883
78	TP Styrene	Quadratic	0.998970	0.007178	1.02541	-0.0596493
80	TP Bromoform	Quadratic	0.999337	0.003965	0.303016	-0.00948214
106	TP 1,2-Dibromo-3-chloropropane	Linear	0.998293	0.000000	0.0583445	-0.00315543

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 09/22/24 16:26		
Lab File ID	: V01240922A01	**Init. Calib. Date(s)**	: 09/11/24	09/12/24	
Sample No	: WG1975156-2	**Init. Calib. Times**	: 23:43	03:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	150	0
Dichlorodifluoromethane	0.269	0.321	-	-19.3	20	192	0
Chloromethane	0.271	0.285	-	-5.2	20	180	0
Vinyl chloride	0.355	0.317	-	10.7	20	143	0
Bromomethane	0.268	0.118	-	56*	20	79	0
Chloroethane	10	7.125	-	28.7*	20	107	0
Trichlorofluoromethane	0.815	0.454	-	44.3*	20	86	0
Ethyl ether	0.21	0.127	-	39.5*	20	91	0
1,1-Dichloroethene	0.219	0.222	-	-1.4	20	156	0
Carbon disulfide	0.672	0.665	-	1	20	175	0
Freon-113	0.237	0.242	-	-2.1	20	175	0
Acrolein	0.02	0.025	-	-25*	20	213	0
Methylene chloride	0.242	0.232	-	4.1	20	160	0
Acetone	10	9.812	-	1.9	20	143	0
trans-1,2-Dichloroethene	0.239	0.239	-	0	20	166	0
Methyl acetate	0.098	0.087	-	11.2	20	153	0
Methyl tert-butyl ether	0.551	0.497	-	9.8	20	146	0
tert-Butyl alcohol	0.011	0.01	-	9.1	20	161	0
Diisopropyl ether	0.717	0.753	-	-5	20	166	0
1,1-Dichloroethane	0.434	0.462	-	-6.5	20	170	0
Halothane	0.181	0.184	-	-1.7	20	165	0
Acrylonitrile	0.046	0.05	-	-8.7	20	179	0
Ethyl tert-butyl ether	0.609	0.636	-	-4.4	20	169	0
Vinyl acetate	0.33	0.463	-	-40.3*	20	230	0
cis-1,2-Dichloroethene	0.267	0.263	-	1.5	20	155	0
2,2-Dichloropropane	0.333	0.355	-	-6.6	20	171	0
Bromochloromethane	0.121	0.118	-	2.5	20	152	0
Cyclohexane	0.402	0.451	-	-12.2	20	189	0
Chloroform	0.445	0.415	-	6.7	20	147	0
Ethyl acetate	0.138	0.129	-	6.5	20	156	0
Carbon tetrachloride	0.355	0.335	-	5.6	20	159	0
Tetrahydrofuran	0.042	0.043	-	-2.4	20	147	0
Dibromofluoromethane	0.262	0.264	-	-0.8	20	153	0
1,1,1-Trichloroethane	0.398	0.369	-	7.3	20	149	0
2-Butanone	0.057	0.049	-	14	20	143	0
1,1-Dichloropropene	0.337	0.324	-	3.9	20	153	0
Benzene	0.97	0.933	-	3.8	20	152	0
tert-Amyl methyl ether	0.539	0.475	-	11.9	20	141	0
1,2-Dichloroethane-d4	0.301	0.28	-	7	20	143	0
1,2-Dichloroethane	0.29	0.282	-	2.8	20	149	0
Methyl cyclohexane	0.428	0.401	-	6.3	20	167	0
Trichloroethene	0.274	0.256	-	6.6	20	150	0
Dibromomethane	0.133	0.118	-	11.3	20	139	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 09/22/24 16:26		
Lab File ID	: V01240922A01	**Init. Calib. Date(s)**	: 09/11/24	09/12/24	
Sample No	: WG1975156-2	**Init. Calib. Times**	: 23:43	03:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.237	0.248	-	-4.6	20	160	0
Bromodichloromethane	0.323	0.295*	-	8.7	20	141	0
1,4-Dioxane	0.00133	0.00104*	-	21.8*	20	122	0
cis-1,3-Dichloropropene	0.353	0.334	-	5.4	20	149	0
Chlorobenzene-d5	1	1	-	0	20	151	0
Toluene-d8	1.199	1.232	-	-2.8	20	150	0
Toluene	0.801	0.76	-	5.1	20	153	0
4-Methyl-2-pentanone	0.056	0.054	-	3.6	20	158	0
Tetrachloroethene	0.324	0.345	-	-6.5	20	169	0
trans-1,3-Dichloropropene	0.359	0.341	-	5	20	145	0
Ethyl methacrylate	0.278	0.231	-	16.9	20	135	0
1,1,2-Trichloroethane	0.184	0.173*	-	6	20	141	0
Chlorodibromomethane	0.266	0.251	-	5.6	20	145	0
1,3-Dichloropropane	0.372	0.351	-	5.6	20	139	0
1,2-Dibromoethane	0.206	0.206	-	0	20	149	0
2-Hexanone	0.101	0.088	-	12.9	20	141	0
Chlorobenzene	0.89	0.851	-	4.4	20	154	0
Ethylbenzene	1.596	1.49	-	6.6	20	151	0
1,1,1,2-Tetrachloroethane	0.303	0.292	-	3.6	20	150	0
p/m Xylene	0.653	0.583	-	10.7	20	152	0
o Xylene	0.622	0.543	-	12.7	20	149	0
Styrene	20	17.724	-	11.4	20	152	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	160	0
Bromoform	10	8.373	-	16.3	20	156	0
Isopropylbenzene	3.007	2.696	-	10.3	20	155	0
4-Bromofluorobenzene	0.848	0.851	-	-0.4	20	155	0
Bromobenzene	0.666	0.638	-	4.2	20	159	0
n-Propylbenzene	3.574	3.165	-	11.4	20	153	0
1,4-Dichlorobutane	0.699	0.698	-	0.1	20	166	0
1,1,2,2-Tetrachloroethane	0.473	0.423	-	10.6	20	144	0
4-Ethyltoluene	2.844	2.571	-	9.6	20	156	0
2-Chlorotoluene	1.99	1.821	-	8.5	20	152	0
1,3,5-Trimethylbenzene	2.471	2.156	-	12.7	20	151	0
1,2,3-Trichloropropane	0.408	0.331	-	18.9	20	141	0
trans-1,4-Dichloro-2-buten	0.128	0.128	-	0	20	161	0
4-Chlorotoluene	1.996	1.843	-	7.7	20	151	0
tert-Butylbenzene	2.044	1.831	-	10.4	20	154	0
1,2,4-Trimethylbenzene	2.356	2.098	-	11	20	151	0
sec-Butylbenzene	3.02	2.697	-	10.7	20	156	0
p-Isopropyltoluene	2.479	2.233	-	9.9	20	158	0
1,3-Dichlorobenzene	1.293	1.198	-	7.3	20	156	0
1,4-Dichlorobenzene	1.317	1.187	-	9.9	20	154	0
p-Diethylbenzene	1.355	1.245	-	8.1	20	161	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 09/22/24 16:26		
Lab File ID	: V01240922A01	**Init. Calib. Date(s)**	: 09/11/24	09/12/24	
Sample No	: WG1975156-2	**Init. Calib. Times**	: 23:43	03:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.034	1.87	-	8.1	20	156	0
1,2-Dichlorobenzene	1.133	1.051	-	7.2	20	154	0
1,2,4,5-Tetramethylbenzene	1.801	1.645	-	8.7	20	161	0
1,2-Dibromo-3-chloropropan	10	8.49	-	15.1	20	160	0
1,3,5-Trichlorobenzene	0.638	0.67	-	-5	20	177	0
Hexachlorobutadiene	0.212	0.252	-	-18.9	20	214	0
1,2,4-Trichlorobenzene	0.502	0.515	-	-2.6	20	171	0
Naphthalene	1.034	0.876	-	15.3	20	143	0
1,2,3-Trichlorobenzene	0.385	0.38*	-	1.3	20	163	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/24/24 07:13		
Lab File ID	: V08240924A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1975613-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	87	0
Dichlorodifluoromethane	0.206	0.272	-	-32*	20	117	0
Chloromethane	0.216	0.241	-	-11.6	20	91	0
Vinyl chloride	0.306	0.359	-	-17.3	20	99	0
Bromomethane	0.269	0.204	-	24.2*	20	64	0
Chloroethane	0.278	0.3	-	-7.9	20	89	0
Trichlorofluoromethane	0.48	0.539	-	-12.3	20	102	0
Ethyl ether	0.194	0.184	-	5.2	20	79	0
1,1-Dichloroethene	0.185	0.207	-	-11.9	20	99	0
Carbon disulfide	0.632	0.701	-	-10.9	20	98	0
Freon-113	0.182	0.207	-	-13.7	20	106	0
Iodomethane	0.4	0.139	-	65.3*	20	29	0
Acrolein	0.029	0.029	-	0	20	91	0
Methylene chloride	0.243	0.249	-	-2.5	20	85	0
Acetone	0.044	0.043	-	2.3	20	84	0
trans-1,2-Dichloroethene	0.225	0.238	-	-5.8	20	91	0
Methyl acetate	0.106	0.112	-	-5.7	20	91	0
Methyl tert-butyl ether	0.618	0.608	-	1.6	20	84	0
tert-Butyl alcohol	0.016	0.015	-	6.3	20	81	-.01
Diisopropyl ether	0.614	0.696	-	-13.4	20	95	0
1,1-Dichloroethane	0.392	0.44	-	-12.2	20	92	0
Halothane	0.18	0.184	-	-2.2	20	88	0
Acrylonitrile	0.057	0.063	-	-10.5	20	91	0
Ethyl tert-butyl ether	0.639	0.666	-	-4.2	20	90	-.01
Vinyl acetate	0.443	0.479	-	-8.1	20	92	0
cis-1,2-Dichloroethene	0.259	0.265	-	-2.3	20	85	-.01
2,2-Dichloropropane	0.292	0.344	-	-17.8	20	101	0
Bromochloromethane	0.148	0.141	-	4.7	20	80	0
Cyclohexane	10	17.076	-	-70.8*	20	126	0
Chloroform	0.418	0.442	-	-5.7	20	86	0
Ethyl acetate	0.152	0.159	-	-4.6	20	93	0
Carbon tetrachloride	0.326	0.354	-	-8.6	20	93	0
Tetrahydrofuran	0.047	0.047	-	0	20	89	0
Dibromofluoromethane	0.304	0.293	-	3.6	20	83	-.01
1,1,1-Trichloroethane	0.348	0.378	-	-8.6	20	93	0
2-Butanone	0.063	0.07	-	-11.1	20	91	-.01
1,1-Dichloropropene	0.254	0.291	-	-14.6	20	101	0
Benzene	0.876	0.924	-	-5.5	20	86	0
tert-Amyl methyl ether	0.557	0.54	-	3.1	20	84	0
1,2-Dichloroethane-d4	0.28	0.285	-	-1.8	20	88	-.01
1,2-Dichloroethane	0.284	0.294	-	-3.5	20	85	-.01
Methyl cyclohexane	10	16.736	-	-67.4*	20	118	-.01
Trichloroethene	0.24	0.249	-	-3.8	20	88	-.01

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/24/24 07:13		
Lab File ID	: V08240924A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1975613-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.148	0.145	-	2	20	80	-.01
1,2-Dichloropropane	0.218	0.242	-	-11	20	92	0
Bromodichloromethane	0.327	0.334	-	-2.1	20	84	-.01
1,4-Dioxane	0.00165	0.00126*	-	23.6*	20	64	-.01
cis-1,3-Dichloropropene	0.347	0.353	-	-1.7	20	84	-.01
Chlorobenzene-d5	1	1	-	0	20	86	-.01
Toluene-d8	1.184	1.225	-	-3.5	20	85	-.01
Toluene	0.692	0.766	-	-10.7	20	88	-.01
4-Methyl-2-pentanone	0.071	0.066	-	7	20	87	-.02
Tetrachloroethene	0.324	0.348	-	-7.4	20	88	-.01
trans-1,3-Dichloropropene	0.365	0.388	-	-6.3	20	84	-.01
Ethyl methacrylate	0.304	0.278	-	8.6	20	83	-.01
1,1,2-Trichloroethane	0.197	0.215	-	-9.1	20	85	-.01
Chlorodibromomethane	0.35	0.327	-	6.6	20	74	-.01
1,3-Dichloropropane	0.38	0.41	-	-7.9	20	85	-.01
1,2-Dibromoethane	0.24	0.251	-	-4.6	20	80	-.02
2-Hexanone	0.106	0.099	-	6.6	20	85	-.01
Chlorobenzene	0.858	0.91	-	-6.1	20	84	-.01
Ethylbenzene	1.259	1.426	-	-13.3	20	92	-.01
1,1,1,2-Tetrachloroethane	0.339	0.34	-	-0.3	20	77	-.01
p/m Xylene	0.529	0.57	-	-7.8	20	86	-.01
o Xylene	0.524	0.553	-	-5.5	20	84	0
Styrene	20	19.82	-	0.9	20	84	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
Bromoform	0.395	0.332	-	15.9	20	69	-.01
Isopropylbenzene	2.093	2.377	-	-13.6	20	93	-.01
4-Bromofluorobenzene	0.709	0.751	-	-5.9	20	92	-.01
Bromobenzene	0.692	0.698	-	-0.9	20	79	0
n-Propylbenzene	2.441	2.838	-	-16.3	20	98	0
1,4-Dichlorobutane	0.658	0.697	-	-5.9	20	86	-.01
1,1,2,2-Tetrachloroethane	0.494	0.522	-	-5.7	20	83	-.01
4-Ethyltoluene	2.075	2.335	-	-12.5	20	91	-.01
2-Chlorotoluene	1.542	1.76	-	-14.1	20	89	-.01
1,3,5-Trimethylbenzene	1.887	2.083	-	-10.4	20	89	-.01
1,2,3-Trichloropropane	0.397	0.393	-	1	20	81	-.01
trans-1,4-Dichloro-2-buten	0.131	0.118	-	9.9	20	70	0
4-Chlorotoluene	1.572	1.769	-	-12.5	20	88	0
tert-Butylbenzene	1.564	1.741	-	-11.3	20	91	0
1,2,4-Trimethylbenzene	1.854	2.055	-	-10.8	20	87	-.01
sec-Butylbenzene	2.154	2.557	-	-18.7	20	98	0
p-Isopropyltoluene	1.981	2.232	-	-12.7	20	93	-.01
1,3-Dichlorobenzene	1.321	1.366	-	-3.4	20	80	0
1,4-Dichlorobenzene	1.357	1.388	-	-2.3	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/24/24 07:13		
Lab File ID	: V08240924A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1975613-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.232	1.297	-	-5.3	20	92	0
n-Butylbenzene	1.574	1.973	-	-25.3*	20	105	-.01
1,2-Dichlorobenzene	1.283	1.276	-	0.5	20	77	0
1,2,4,5-Tetramethylbenzene	2.065	2.013	-	2.5	20	83	0
1,2-Dibromo-3-chloropropan	0.088	0.076	-	13.6	20	69	0
1,3,5-Trichlorobenzene	0.998	1.023	-	-2.5	20	82	0
Hexachlorobutadiene	0.39	0.418	-	-7.2	20	95	0
1,2,4-Trichlorobenzene	0.892	0.889	-	0.3	20	80	0
Naphthalene	1.616	1.614	-	0.1	20	80	0
1,2,3-Trichlorobenzene	0.829	0.81	-	2.3	20	76	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	150	0.00
2	TP	Dichlorodifluoromethane	0.269	0.321	-19.3	192	0.00
3	TP	Chloromethane	0.271	0.285	-5.2	180	0.00
4	TP	Vinyl chloride	0.355	0.317	10.7	143	0.00
5	TP	Bromomethane	0.268	0.118	56.0#	79	0.00
6	TP	Chloroethane	* 10.000	7.125	28.7#	107	0.00
7	TP	Trichlorofluoromethane	0.815	0.454	44.3#	86	0.00
8	TP	Ethyl ether	0.210	0.127	39.5#	91	0.00
10	TP	1,1-Dichloroethene	0.219	0.222	-1.4	156	0.00
11	TP	Carbon disulfide	0.672	0.665	1.0	175	0.00
12	TP	Freon-113	0.237	0.242	-2.1	175	0.00
14	TP	Acrolein	0.020	0.025	-25.0#	213#	0.00
15	TP	Methylene chloride	0.242	0.232	4.1	160	0.00
17	TP	Acetone	* 10.000	9.812	1.9	143	0.00
18	TP	trans-1,2-Dichloroethene	0.239	0.239	0.0	166	0.00
19	TP	Methyl acetate	0.098	0.087	11.2	153	0.00
20	TP	Methyl tert-butyl ether	0.551	0.497	9.8	146	0.00
21	TP	tert-Butyl alcohol	0.011	0.010	9.1	161	0.00
22	TP	Diisopropyl ether	0.717	0.753	-5.0	166	0.00
23	TP	1,1-Dichloroethane	0.434	0.462	-6.5	170	0.00
24	TP	Halothane	0.181	0.184	-1.7	165	0.00
25	TP	Acrylonitrile	0.046	0.050	-8.7	179	0.00
26	TP	Ethyl tert-butyl ether	0.609	0.636	-4.4	169	0.00
27	TP	Vinyl acetate	0.330	0.463	-40.3#	230#	0.00
28	TP	cis-1,2-Dichloroethene	0.267	0.263	1.5	155	0.00
29	TP	2,2-Dichloropropane	0.333	0.355	-6.6	171	0.00
30	TP	Bromochloromethane	0.121	0.118	2.5	152	0.00
31	TP	Cyclohexane	0.402	0.451	-12.2	189	0.00
32	TP	Chloroform	0.445	0.415	6.7	147	0.00
33	TP	Ethyl acetate	0.138	0.129	6.5	156	0.00
34	TP	Carbon tetrachloride	0.355	0.335	5.6	159	0.00
35	TP	Tetrahydrofuran	0.042	0.043	-2.4	147	0.00
36	S	Dibromofluoromethane	0.262	0.264	-0.8	153	0.00
37	TP	1,1,1-Trichloroethane	0.398	0.369	7.3	149	0.00
39	TP	2-Butanone	0.057	0.049	14.0	143	0.00
40	TP	1,1-Dichloropropene	0.337	0.324	3.9	153	0.00
41	TP	Benzene	0.970	0.933	3.8	152	0.00
42	TP	tert-Amyl methyl ether	0.539	0.475	11.9	141	0.00
43	S	1,2-Dichloroethane-d4	0.301	0.280	7.0	143	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.290	0.282	2.8	149	0.00
47	TP	Methyl cyclohexane	0.428	0.401	6.3	167	0.00
48	TP	Trichloroethene	0.274	0.256	6.6	150	0.00
50	TP	Dibromomethane	0.133	0.118	11.3	139	0.00
51	TP	1,2-Dichloropropane	0.237	0.248	-4.6	160	0.00
54	TP	Bromodichloromethane	0.323	0.295#	8.7	141	0.00
57	TP	1,4-Dioxane	0.00133	0.00104#	21.8#	122	0.00
58	TP	cis-1,3-Dichloropropene	0.353	0.334	5.4	149	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	151	0.00
60	S	Toluene-d8	1.199	1.232	-2.8	150	0.00
61	TP	Toluene	0.801	0.760	5.1	153	0.00
62	TP	4-Methyl-2-pentanone	0.056	0.054	3.6	158	0.00
63	TP	Tetrachloroethene	0.324	0.345	-6.5	169	0.00
65	TP	trans-1,3-Dichloropropene	0.359	0.341	5.0	145	0.00
67	TP	Ethyl methacrylate	0.278	0.231	16.9	135	0.00
68	TP	1,1,2-Trichloroethane	0.184	0.173#	6.0	141	0.00
69	TP	Chlorodibromomethane	0.266	0.251	5.6	145	0.00
70	TP	1,3-Dichloropropane	0.372	0.351	5.6	139	0.00
71	TP	1,2-Dibromoethane	0.206	0.206	0.0	149	0.00
72	TP	2-Hexanone	0.101	0.088	12.9	141	0.00
73	TP	Chlorobenzene	0.890	0.851	4.4	154	0.00
74	TP	Ethylbenzene	1.596	1.490	6.6	151	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.303	0.292	3.6	150	0.00
76	TP	p/m Xylene	0.653	0.583	10.7	152	0.00
77	TP	o Xylene	0.622	0.543	12.7	149	0.00
78	TP	Styrene	* 20.000	17.724	11.4	152	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	160	0.00
80	TP	Bromoform	* 10.000	8.373	16.3	156	0.00
82	TP	Isopropylbenzene	3.007	2.696	10.3	155	0.00
83	S	4-Bromofluorobenzene	0.848	0.851	-0.4	155	0.00
84	TP	Bromobenzene	0.666	0.638	4.2	159	0.00
85	TP	n-Propylbenzene	3.574	3.165	11.4	153	0.00
86	TP	1,4-Dichlorobutane	0.699	0.698	0.1	166	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.473	0.423	10.6	144	0.00
88	TP	4-Ethyltoluene	2.844	2.571	9.6	156	0.00
89	TP	2-Chlorotoluene	1.990	1.821	8.5	152	0.00
90	TP	1,3,5-Trimethylbenzene	2.471	2.156	12.7	151	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.408	0.331	18.9	141	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.128	0.128	0.0	161	0.00
93 TP	4-Chlorotoluene	1.996	1.843	7.7	151	0.00
94 TP	tert-Butylbenzene	2.044	1.831	10.4	154	0.00
97 TP	1,2,4-Trimethylbenzene	2.356	2.098	11.0	151	0.00
98 TP	sec-Butylbenzene	3.020	2.697	10.7	156	0.00
99 TP	p-Isopropyltoluene	2.479	2.233	9.9	158	0.00
100 TP	1,3-Dichlorobenzene	1.293	1.198	7.3	156	0.00
101 TP	1,4-Dichlorobenzene	1.317	1.187	9.9	154	0.00
102 TP	p-Diethylbenzene	1.355	1.245	8.1	161	0.00
103 TP	n-Butylbenzene	2.034	1.870	8.1	156	0.00
104 TP	1,2-Dichlorobenzene	1.133	1.051	7.2	154	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.801	1.645	8.7	161	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	8.490	15.1	160	0.00
107 TP	1,3,5-Trichlorobenzene	0.638	0.670	-5.0	177	0.00
108 TP	Hexachlorobutadiene	0.212	0.252	-18.9	214#	0.00
109 TP	1,2,4-Trichlorobenzene	0.502	0.515	-2.6	171	0.00
110 TP	Naphthalene	1.034	0.876	15.3	143	0.00
111 TP	1,2,3-Trichlorobenzene	0.385	0.380#	1.3	163	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	434730	10.000	ug/L	0.00
Standard Area 1 = 434730			Recovery = 100.00%			
59) Chlorobenzene-d5	9.457	117	346077	10.000	ug/L	0.00
Standard Area 1 = 346077			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.176	152	189151	10.000	ug/L	0.00
Standard Area 1 = 189151			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.137	113	114812	10.069	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%			
43) 1,2-Dichloroethane-d4	5.656	65	121581	9.281	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.81%			
60) Toluene-d8	7.617	98	426402	10.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.74%			
83) 4-Bromofluorobenzene	10.963	95	161041	10.039	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.39%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	139364	11.928	ug/L	99
3) Chloromethane	1.827	50	123687	10.492	ug/L	99
4) Vinyl chloride	1.897	62	137905	8.937	ug/L	98
5) Bromomethane	2.195	94	51397	4.414	ug/L	99
6) Chloroethane	2.310	64	111318	7.125	ug/L	97
7) Trichlorofluoromethane	2.444	101	197196	5.565	ug/L	98
8) Ethyl ether	2.739	74	55320	6.047	ug/L #	77
10) 1,1-Dichloroethene	2.920	96	96478	10.145	ug/L	99
11) Carbon disulfide	2.951	76	288887	9.891	ug/L	100
12) Freon-113	2.957	101	105070	10.214	ug/L	86
14) Acrolein	3.247	56	10815	12.605	ug/L	100
15) Methylene chloride	3.464	84	100832	9.566	ug/L	93
17) Acetone	3.514	43	18099	9.812	ug/L #	60
18) trans-1,2-Dichloroethene	3.618	96	104116	10.021	ug/L	99
19) Methyl acetate	3.629	43	37790	8.892	ug/L	98
20) Methyl tert-butyl ether	3.718	73	216049	9.024	ug/L	93
21) tert-Butyl alcohol	3.818	59	22367	48.400	ug/L #	83
22) Diisopropyl ether	4.067	45	327141	10.490	ug/L	98
23) 1,1-Dichloroethane	4.189	63	200813	10.639	ug/L	99
24) Halothane	4.237	117	79804	10.167	ug/L	98
25) Acrylonitrile	4.239	53	21825	10.816	ug/L	95

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.410	59	276300	10.431	ug/L		96
27) Vinyl acetate	4.418	43	201314	14.024	ug/L		99
28) cis-1,2-Dichloroethene	4.702	96	114173	9.833	ug/L		99
29) 2,2-Dichloropropane	4.800	77	154301	10.660	ug/L		93
30) Bromochloromethane	4.889	128	51160	9.746	ug/L		98
31) Cyclohexane	4.895	56	196073	11.213	ug/L		95
32) Chloroform	4.965	83	180503	9.335	ug/L		98
33) Ethyl acetate	5.076	43	56248	9.393	ug/L		98
34) Carbon tetrachloride	5.096	117	145457	9.418	ug/L		99
35) Tetrahydrofuran	5.121	42	18513M1	10.106	ug/L		
37) 1,1,1-Trichloroethane	5.160	97	160322	9.272	ug/L		98
39) 2-Butanone	5.260	43	21187	8.522	ug/L	#	52
40) 1,1-Dichloropropene	5.282	75	140732	9.597	ug/L		98
41) Benzene	5.522	78	405447	9.615	ug/L		97
42) tert-Amyl methyl ether	5.634	73	206284	8.796	ug/L		91
44) 1,2-Dichloroethane	5.723	62	122742	9.724	ug/L		100
47) Methyl cyclohexane	6.105	83	174456	9.369	ug/L		92
48) Trichloroethene	6.119	95	111253	9.343	ug/L		98
50) Dibromomethane	6.557	93	51333	8.860	ug/L		96
51) 1,2-Dichloropropane	6.654	63	107742	10.471	ug/L		97
54) Bromodichloromethane	6.730	83	128196	9.138	ug/L		100
57) 1,4-Dioxane	6.942	88	22642	390.888	ug/L		93
58) cis-1,3-Dichloropropene	7.413	75	145105	9.452	ug/L		95
61) Toluene	7.675	92	263131	9.493	ug/L		99
62) 4-Methyl-2-pentanone	8.110	58	18809	9.647	ug/L		97
63) Tetrachloroethene	8.127	166	119532	10.663	ug/L		97
65) trans-1,3-Dichloropropene	8.160	75	117861	9.474	ug/L		94
67) Ethyl methacrylate	8.350	69	79943	8.305	ug/L		96
68) 1,1,2-Trichloroethane	8.344	83	60027	9.403	ug/L		97
69) Chlorodibromomethane	8.556	129	86824	9.440	ug/L		98
70) 1,3-Dichloropropane	8.662	76	121321	9.414	ug/L		100
71) 1,2-Dibromoethane	8.835	107	71184	9.977	ug/L		98
72) 2-Hexanone	9.122	43	30400	8.680	ug/L		99
73) Chlorobenzene	9.477	112	294555	9.564	ug/L		97
74) Ethylbenzene	9.513	91	515652	9.334	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.560	131	100911	9.611	ug/L		100
76) p/m Xylene	9.697	106	403478	17.864	ug/L		96
77) o Xylene	10.246	106	375965	17.473	ug/L		99
78) Styrene	10.313	104	616127	17.724	ug/L		96
80) Bromoform	10.338	173	46723	8.373	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Isopropylbenzene	10.634	105	509924	8.967	ug/L	99
84) Bromobenzene	11.072	156	120771	9.580	ug/L	100
85) n-Propylbenzene	11.116	91	598654	8.856	ug/L	99
86) 1,4-Dichlorobutane	11.133	55	132047	9.991	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.208	83	80013	8.949	ug/L	100
88) 4-Ethyltoluene	11.245	105	486391	9.041	ug/L	98
89) 2-Chlorotoluene	11.286	91	344377M1	9.147	ug/L	
90) 1,3,5-Trimethylbenzene	11.342	105	407797	8.726	ug/L	99
91) 1,2,3-Trichloropropane	11.342	75	62633M4	8.122	ug/L	
92) trans-1,4-Dichloro-2-b...	11.403	53	24284M4	10.013	ug/L	
93) 4-Chlorotoluene	11.470	91	348655	9.233	ug/L	99
94) tert-Butylbenzene	11.685	119	346301	8.956	ug/L	98
97) 1,2,4-Trimethylbenzene	11.763	105	396767	8.905	ug/L	98
98) sec-Butylbenzene	11.875	105	510059	8.929	ug/L	98
99) p-Isopropyltoluene	12.028	119	422402	9.009	ug/L	99
100) 1,3-Dichlorobenzene	12.098	146	226616	9.267	ug/L	99
101) 1,4-Dichlorobenzene	12.193	146	224460	9.011	ug/L	99
102) p-Diethylbenzene	12.405	119	235492	9.185	ug/L	98
103) n-Butylbenzene	12.463	91	353649	9.192	ug/L	99
104) 1,2-Dichlorobenzene	12.617	146	198867	9.281	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.202	119	311233	9.135	ug/L	100
106) 1,2-Dibromo-3-chloropr...	13.400	155	8773	8.490	ug/L	97
107) 1,3,5-Trichlorobenzene	13.428	180	126670	10.499	ug/L	99
108) Hexachlorobutadiene	14.005	225	47733	11.922	ug/L	98
109) 1,2,4-Trichlorobenzene	14.030	180	97450	10.255	ug/L	99
110) Naphthalene	14.323	128	165733	8.476	ug/L	100
111) 1,2,3-Trichlorobenzene	14.490	180	71789	9.871	ug/L	98

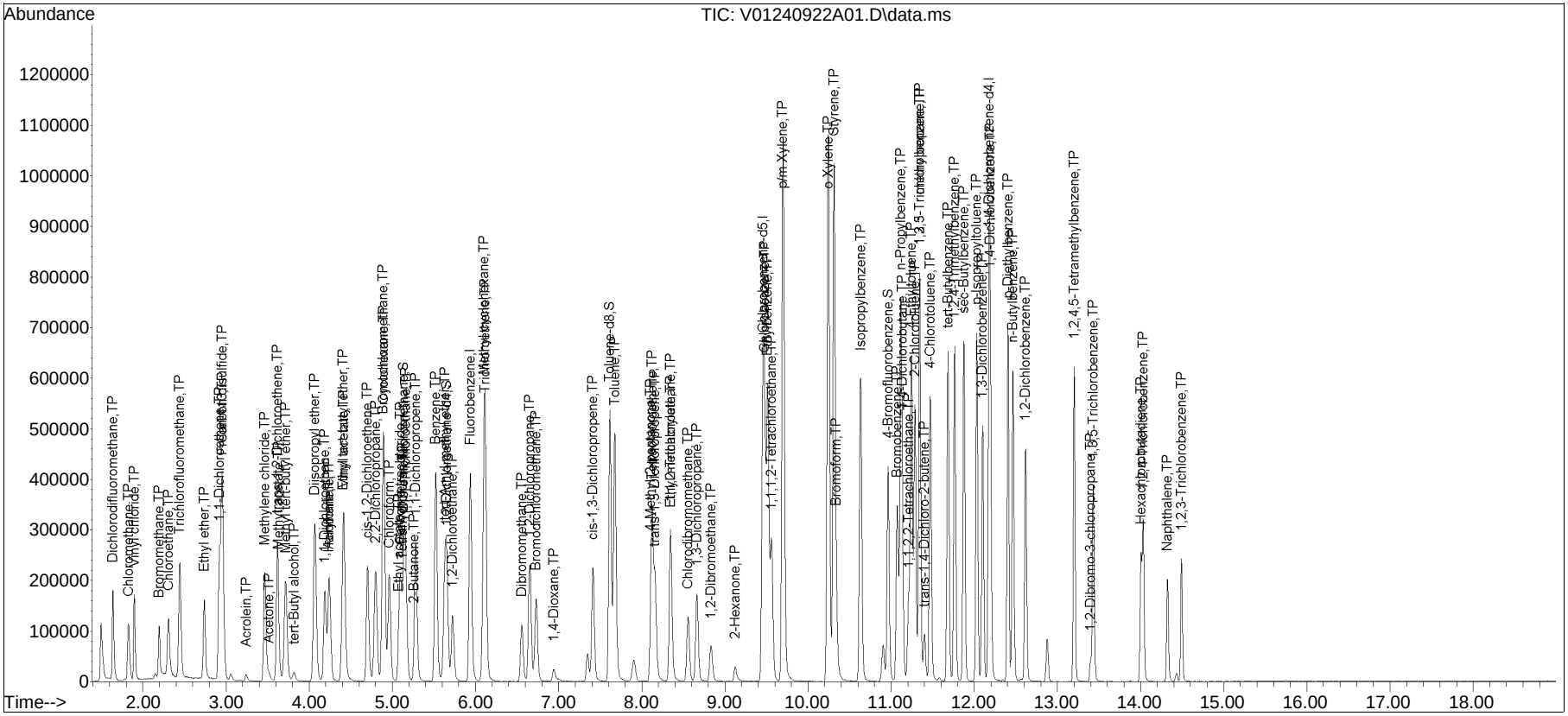
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-2
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

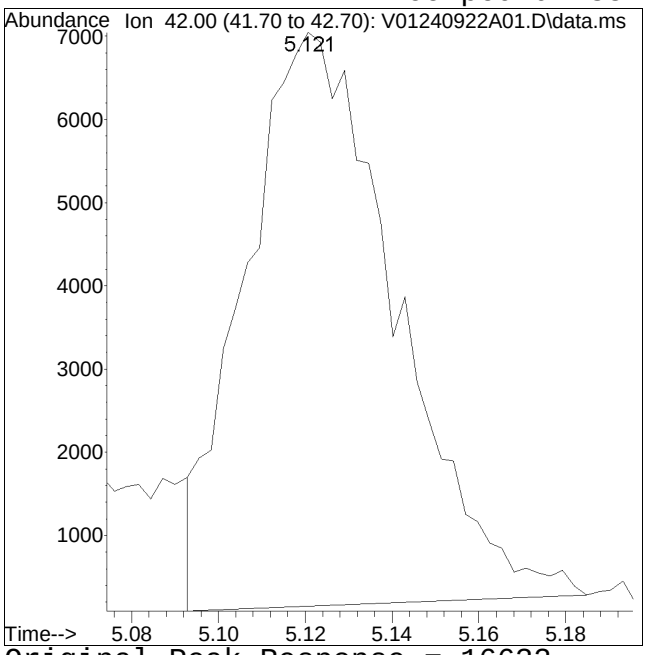
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

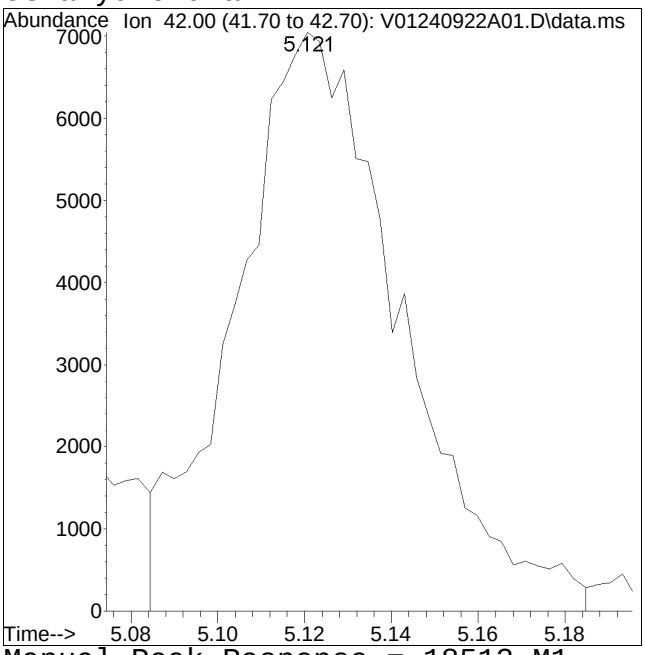


Manual Integration Report

Data Path	: K:\VOA101\2024\240922A\	QMethod	: V101_240911N_8260.m
Data File	: V01240922A01.D	Operator	: VOA101:PID
Date Inj'd	: 9/22/2024 4:26 pm	Instrument	: VOA 101
Sample	: WG1975156-2	Quant Date	: 9/22/2024 4:56 pm

Compound #35: Tetrahydrofuran





Original Peak Response = 16632 Manual Peak Response = 18513 M1

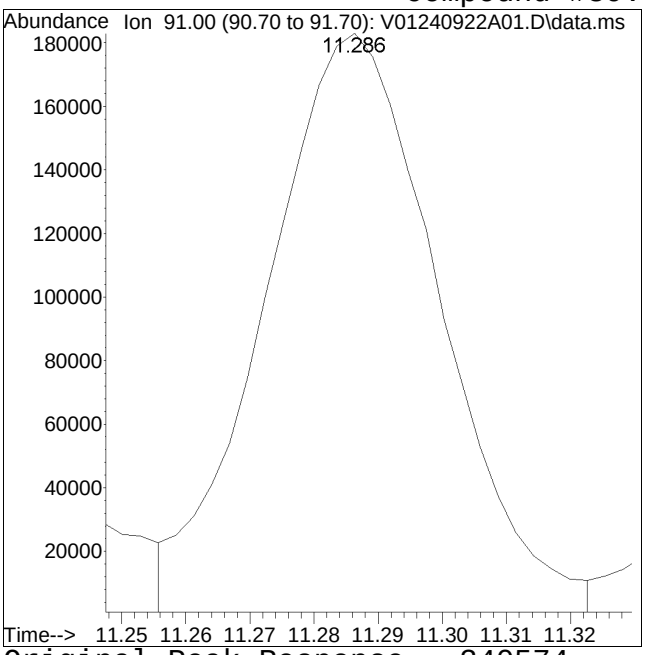
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

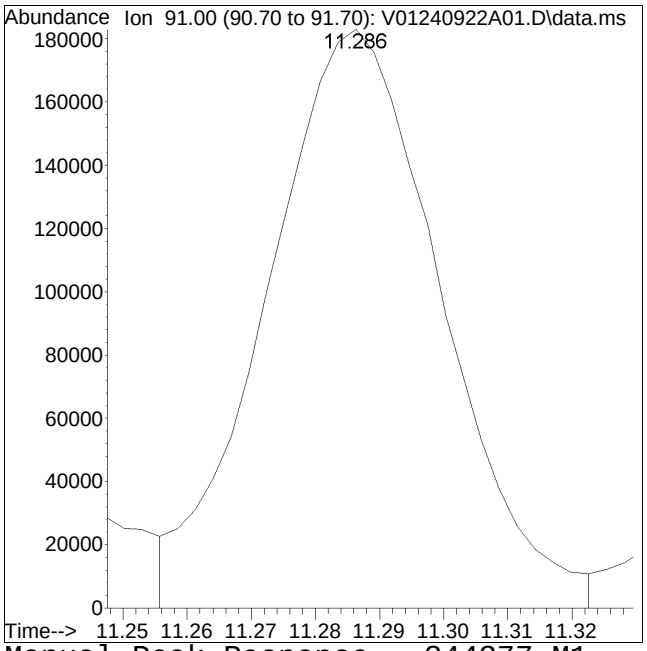
Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Date Inj'd : 9/22/2024 4:26 pm
Sample : WG1975156-2

QMethod : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/22/2024 4:56 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 340574



Manual Peak Response = 344377 M1

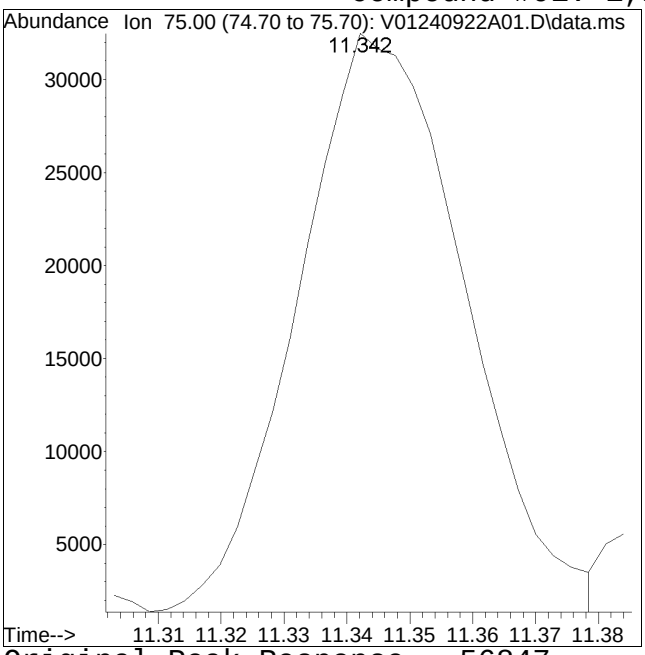
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

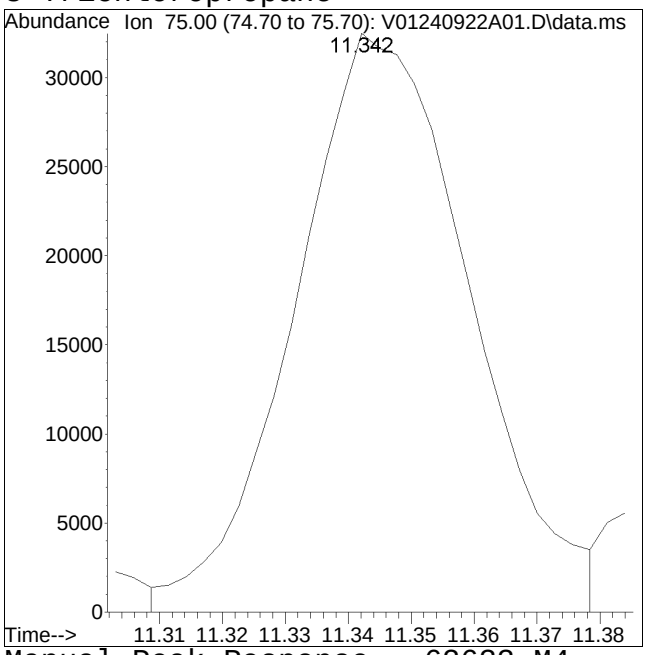
Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Date Inj'd : 9/22/2024 4:26 pm
Sample : WG1975156-2

QMethod : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/22/2024 4:56 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 56847



Manual Peak Response = 62633 M4

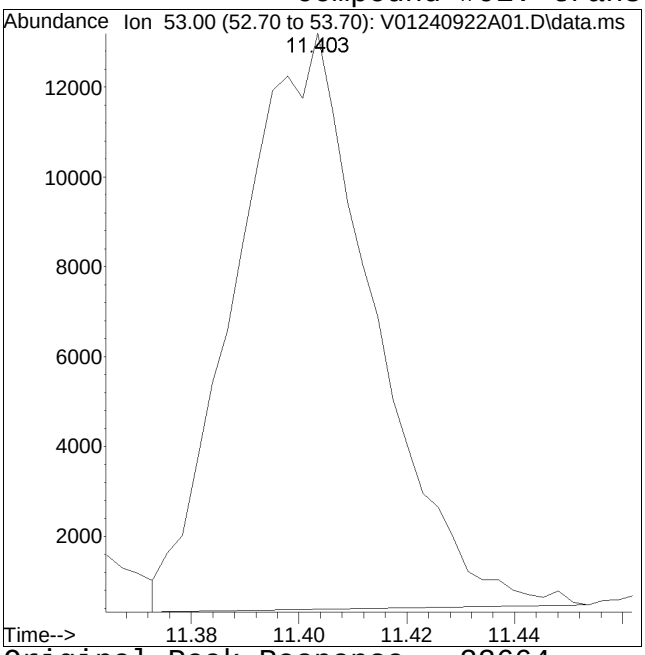
M4 = Poor automated baseline construction.

Manual Integration Report

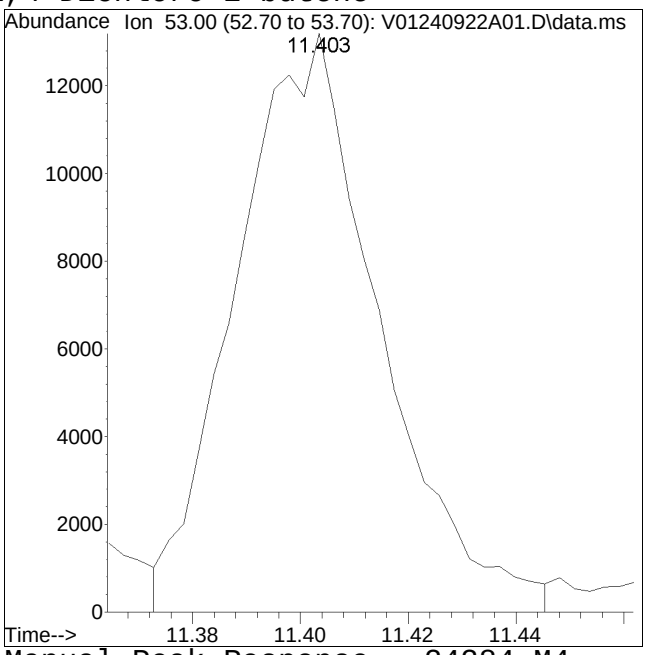
Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Date Inj'd : 9/22/2024 4:26 pm
Sample : WG1975156-2

QMethod : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/22/2024 4:56 pm

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



Original Peak Response = 22664



Manual Peak Response = 24284 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene		1.000	1.000	0.0	87	0.00
2	TP	Dichlorodifluoromethane		0.206	0.272	-32.0#	117	0.00
3	TP	Chloromethane		0.216	0.241	-11.6	91	0.00
4	TP	Vinyl chloride		0.306	0.359	-17.3	99	0.00
5	TP	Bromomethane		0.269	0.204	24.2#	64	0.00
6	TP	Chloroethane		0.278	0.300	-7.9	89	0.00
7	TP	Trichlorofluoromethane		0.480	0.539	-12.3	102	0.00
8	TP	Ethyl ether		0.194	0.184	5.2	79	0.00
10	TP	1,1-Dichloroethene		0.185	0.207	-11.9	99	0.00
11	TP	Carbon disulfide		0.632	0.701	-10.9	98	0.00
12	TP	Freon-113		0.182	0.207	-13.7	106	0.00
13	TP	Iodomethane		0.400	0.139	65.3#	29#	0.00
14	TP	Acrolein		0.029	0.029	0.0	91	0.00
15	TP	Methylene chloride		0.243	0.249	-2.5	85	0.00
17	TP	Acetone		0.044	0.043	2.3	84	0.00
18	TP	trans-1,2-Dichloroethene		0.225	0.238	-5.8	91	0.00
19	TP	Methyl acetate		0.106	0.112	-5.7	91	0.00
20	TP	Methyl tert-butyl ether		0.618	0.608	1.6	84	0.00
21	TP	tert-Butyl alcohol		0.016	0.015	6.3	81	-0.01
22	TP	Diisopropyl ether		0.614	0.696	-13.4	95	0.00
23	TP	1,1-Dichloroethane		0.392	0.440	-12.2	92	0.00
24	TP	Halothane		0.180	0.184	-2.2	88	0.00
25	TP	Acrylonitrile		0.057	0.063	-10.5	91	0.00
26	TP	Ethyl tert-butyl ether		0.639	0.666	-4.2	90	-0.01
27	TP	Vinyl acetate		0.443	0.479	-8.1	92	0.00
28	TP	cis-1,2-Dichloroethene		0.259	0.265	-2.3	85	-0.01
29	TP	2,2-Dichloropropane		0.292	0.344	-17.8	101	0.00
30	TP	Bromochloromethane		0.148	0.141	4.7	80	0.00
31	TP	Cyclohexane	*	10.000	17.076	-70.8#	126	0.00
32	TP	Chloroform		0.418	0.442	-5.7	86	0.00
33	TP	Ethyl acetate		0.152	0.159	-4.6	93	0.00
34	TP	Carbon tetrachloride		0.326	0.354	-8.6	93	0.00
35	TP	Tetrahydrofuran		0.047	0.047	0.0	89	0.00
36	S	Dibromofluoromethane		0.304	0.293	3.6	83	-0.01
37	TP	1,1,1-Trichloroethane		0.348	0.378	-8.6	93	0.00
39	TP	2-Butanone		0.063	0.070	-11.1	91	-0.01
40	TP	1,1-Dichloropropene		0.254	0.291	-14.6	101	0.00
41	TP	Benzene		0.876	0.924	-5.5	86	0.00
42	TP	tert-Amyl methyl ether		0.557	0.540	3.1	84	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.280	0.285	-1.8	88	-0.01
44	TP	1,2-Dichloroethane	0.284	0.294	-3.5	85	-0.01
47	TP	Methyl cyclohexane	* 10.000	16.736	-67.4#	118	-0.01
48	TP	Trichloroethene	0.240	0.249	-3.8	88	-0.01
50	TP	Dibromomethane	0.148	0.145	2.0	80	-0.01
51	TP	1,2-Dichloropropane	0.218	0.242	-11.0	92	0.00
54	TP	Bromodichloromethane	0.327	0.334	-2.1	84	-0.01
57	TP	1,4-Dioxane	0.00165	0.00126#	23.6#	64	-0.01
58	TP	cis-1,3-Dichloropropene	0.347	0.353	-1.7	84	-0.01
59	I	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.01
60	S	Toluene-d8	1.184	1.225	-3.5	85	-0.01
61	TP	Toluene	0.692	0.766	-10.7	88	-0.01
62	TP	4-Methyl-2-pentanone	0.071	0.066	7.0	87	-0.02
63	TP	Tetrachloroethene	0.324	0.348	-7.4	88	-0.01
65	TP	trans-1,3-Dichloropropene	0.365	0.388	-6.3	84	-0.01
67	TP	Ethyl methacrylate	0.304	0.278	8.6	83	-0.01
68	TP	1,1,2-Trichloroethane	0.197	0.215	-9.1	85	-0.01
69	TP	Chlorodibromomethane	0.350	0.327	6.6	74	-0.01
70	TP	1,3-Dichloropropane	0.380	0.410	-7.9	85	-0.01
71	TP	1,2-Dibromoethane	0.240	0.251	-4.6	80	-0.02
72	TP	2-Hexanone	0.106	0.099	6.6	85	-0.01
73	TP	Chlorobenzene	0.858	0.910	-6.1	84	-0.01
74	TP	Ethylbenzene	1.259	1.426	-13.3	92	-0.01
75	TP	1,1,1,2-Tetrachloroethane	0.339	0.340	-0.3	77	-0.01
76	TP	p/m Xylene	0.529	0.570	-7.8	86	-0.01
77	TP	o Xylene	0.524	0.553	-5.5	84	0.00
78	TP	Styrene	* 20.000	19.820	0.9	84	-0.01
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
80	TP	Bromoform	0.395	0.332	15.9	69	-0.01
82	TP	Isopropylbenzene	2.093	2.377	-13.6	93	-0.01
83	S	4-Bromofluorobenzene	0.709	0.751	-5.9	92	-0.01
84	TP	Bromobenzene	0.692	0.698	-0.9	79	0.00
85	TP	n-Propylbenzene	2.441	2.838	-16.3	98	0.00
86	TP	1,4-Dichlorobutane	0.658	0.697	-5.9	86	-0.01
87	TP	1,1,2,2-Tetrachloroethane	0.494	0.522	-5.7	83	-0.01
88	TP	4-Ethyltoluene	2.075	2.335	-12.5	91	-0.01
89	TP	2-Chlorotoluene	1.542	1.760	-14.1	89	-0.01

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	1.887	2.083	-10.4	89	-0.01
91 TP	1,2,3-Trichloropropane	0.397	0.393	1.0	81	-0.01
92 TP	trans-1,4-Dichloro-2-butene	0.131	0.118	9.9	70	0.00
93 TP	4-Chlorotoluene	1.572	1.769	-12.5	88	0.00
94 TP	tert-Butylbenzene	1.564	1.741	-11.3	91	0.00
97 TP	1,2,4-Trimethylbenzene	1.854	2.055	-10.8	87	-0.01
98 TP	sec-Butylbenzene	2.154	2.557	-18.7	98	0.00
99 TP	p-Isopropyltoluene	1.981	2.232	-12.7	93	-0.01
100 TP	1,3-Dichlorobenzene	1.321	1.366	-3.4	80	0.00
101 TP	1,4-Dichlorobenzene	1.357	1.388	-2.3	81	0.00
102 TP	p-Diethylbenzene	1.232	1.297	-5.3	92	0.00
103 TP	n-Butylbenzene	1.574	1.973	-25.3#	105	-0.01
104 TP	1,2-Dichlorobenzene	1.283	1.276	0.5	77	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.065	2.013	2.5	83	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.088	0.076	13.6	69	0.00
107 TP	1,3,5-Trichlorobenzene	0.998	1.023	-2.5	82	0.00
108 TP	Hexachlorobutadiene	0.390	0.418	-7.2	95	0.00
109 TP	1,2,4-Trichlorobenzene	0.892	0.889	0.3	80	0.00
110 TP	Naphthalene	1.616	1.614	0.1	80	0.00
111 TP	1,2,3-Trichlorobenzene	0.829	0.810	2.3	76	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	199865	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.543	117	156281	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.243	152	91792	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.217	113	58584	9.632	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.32%			
43) 1,2-Dichloroethane-d4	5.742	65	56928	10.172	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.72%			
60) Toluene-d8	7.708	98	191428	10.349	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.49%			
83) 4-Bromofluorobenzene	11.032	95	68907	10.589	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.89%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	54442	13.221	ug/L	98
3) Chloromethane	1.867	50	48168	11.140	ug/L	99
4) Vinyl chloride	1.935	62	71716	11.714	ug/L	95
5) Bromomethane	2.245	94	40767	7.571	ug/L	98
6) Chloroethane	2.365	64	59934	10.773	ug/L	97
7) Trichlorofluoromethane	2.501	101	107815	11.243	ug/L	96
8) Ethyl ether	2.800	74	36778	9.482	ug/L	82
10) 1,1-Dichloroethene	2.984	96	41331	11.158	ug/L #	62
11) Carbon disulfide	3.015	76	140153	11.094	ug/L	96
12) Freon-113	3.026	101	41391	11.409	ug/L	93
13) Iodomethane	3.125	142	27686	3.462	ug/L	88
14) Acrolein	3.304	56	5830	10.080	ug/L	97
15) Methylene chloride	3.534	84	49842	10.248	ug/L	71
17) Acetone	3.582	43	8657	9.955	ug/L	98
18) trans-1,2-Dichloroethene	3.692	96	47526	10.557	ug/L	73
19) Methyl acetate	3.697	43	22344	10.519	ug/L #	83
20) Methyl tert-butyl ether	3.791	73	121581	9.837	ug/L	96
21) tert-Butyl alcohol	3.880	59	14667	45.762	ug/L #	58
22) Diisopropyl ether	4.148	45	139084	11.343	ug/L #	91
23) 1,1-Dichloroethane	4.263	63	87960	11.231	ug/L	99
24) Halothane	4.321	117	36837	10.243	ug/L	99
25) Acrylonitrile	4.310	53	12500	10.973	ug/L #	89
26) Ethyl tert-butyl ether	4.489	59	133109	10.424	ug/L	87
27) Vinyl acetate	4.499	43	95672	10.805	ug/L #	92
28) cis-1,2-Dichloroethene	4.777	96	53060	10.238	ug/L #	68

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2,2-Dichloropropane	4.882	77	68839	11.812	ug/L		97
30) Bromochloromethane	4.971	128	28256	9.544	ug/L	#	52
31) Cyclohexane	4.981	56	68380	17.076	ug/L	#	60
32) Chloroform	5.044	83	88412	10.594	ug/L		96
33) Ethyl acetate	5.154	43	31818	10.444	ug/L	#	91
34) Carbon tetrachloride	5.181	117	70814	10.877	ug/L		99
35) Tetrahydrofuran	5.196	42	9407M6	10.066	ug/L		
37) 1,1,1-Trichloroethane	5.244	97	75469	10.843	ug/L	#	91
39) 2-Butanone	5.333	43	14074	11.145	ug/L	#	28
40) 1,1-Dichloropropene	5.364	75	58076	11.446	ug/L		94
41) Benzene	5.611	78	184667	10.552	ug/L		90
42) tert-Amyl methyl ether	5.721	73	107872	9.697	ug/L		93
44) 1,2-Dichloroethane	5.810	62	58835	10.368	ug/L		96
47) Methyl cyclohexane	6.193	83	63862	16.736	ug/L	#	71
48) Trichloroethene	6.198	95	49726	10.350	ug/L		89
50) Dibromomethane	6.638	93	29050	9.819	ug/L	#	89
51) 1,2-Dichloropropane	6.743	63	48446	11.095	ug/L		94
54) Bromodichloromethane	6.811	83	66847	10.220	ug/L	#	97
57) 1,4-Dioxane	7.021	88	12602	381.390	ug/L	#	71
58) cis-1,3-Dichloropropene	7.498	75	70613	10.180	ug/L	#	86
61) Toluene	7.765	92	119665	11.069	ug/L		97
62) 4-Methyl-2-pentanone	8.195	58	10374	9.402	ug/L	#	94
63) Tetrachloroethene	8.211	166	54414	10.740	ug/L		87
65) trans-1,3-Dichloropropene	8.243	75	60687	10.627	ug/L		89
67) Ethyl methacrylate	8.437	69	43463	9.154	ug/L	#	35
68) 1,1,2-Trichloroethane	8.431	83	33626	10.915	ug/L		94
69) Chlorodibromomethane	8.636	129	51176	9.369	ug/L		97
70) 1,3-Dichloropropane	8.751	76	64125	10.806	ug/L		99
71) 1,2-Dibromoethane	8.914	107	39232	10.448	ug/L		100
72) 2-Hexanone	9.202	43	15404	9.304	ug/L		94
73) Chlorobenzene	9.564	112	142198	10.610	ug/L		96
74) Ethylbenzene	9.606	91	222892	11.329	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.648	131	53080	10.021	ug/L		95
76) p/m Xylene	9.795	106	178316	21.552	ug/L		92
77) o Xylene	10.335	106	172721	21.080	ug/L		87
78) Styrene	10.397	104	293812	19.820	ug/L	#	83
80) Bromoform	10.418	173	30432	8.392	ug/L		96
82) Isopropylbenzene	10.712	105	218213	11.358	ug/L		95
84) Bromobenzene	11.147	156	64040	10.083	ug/L		97
85) n-Propylbenzene	11.194	91	260514	11.626	ug/L		95
86) 1,4-Dichlorobutane	11.205	55	63965	10.589	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
87)	1,1,2,2-Tetrachloroethane	11.273	83	47942	10.581	ug/L		99
88)	4-Ethyltoluene	11.320	105	214300	11.252	ug/L		94
89)	2-Chlorotoluene	11.357	91	161560M6	11.418	ug/L		
90)	1,3,5-Trimethylbenzene	11.415	105	191215	11.042	ug/L		89
91)	1,2,3-Trichloropropane	11.415	75	36081	9.910	ug/L		95
92)	trans-1,4-Dichloro-2-b...	11.467	53	10844	9.004	ug/L	#	77
93)	4-Chlorotoluene	11.540	91	162401	11.254	ug/L	#	86
94)	tert-Butylbenzene	11.761	119	159799	11.129	ug/L		97
97)	1,2,4-Trimethylbenzene	11.834	105	188592	11.082	ug/L		90
98)	sec-Butylbenzene	11.949	105	234713	11.873	ug/L		94
99)	p-Isopropyltoluene	12.101	119	204885	11.269	ug/L		93
100)	1,3-Dichlorobenzene	12.164	146	125375	10.336	ug/L		96
101)	1,4-Dichlorobenzene	12.259	146	127392	10.229	ug/L		97
102)	p-Diethylbenzene	12.479	119	119012	10.525	ug/L		93
103)	n-Butylbenzene	12.531	91	181143	12.540	ug/L		97
104)	1,2-Dichlorobenzene	12.683	146	117107	9.945	ug/L		96
105)	1,2,4,5-Tetramethylben...	13.271	119	184748	9.748	ug/L		94
106)	1,2-Dibromo-3-chloropr...	13.459	155	6948	8.624	ug/L		89
107)	1,3,5-Trichlorobenzene	13.491	180	93944	10.256	ug/L		92
108)	Hexachlorobutadiene	14.068	225	38402	10.732	ug/L		97
109)	1,2,4-Trichlorobenzene	14.089	180	81623	9.973	ug/L		98
110)	Naphthalene	14.382	128	148153	9.987	ug/L		100
111)	1,2,3-Trichlorobenzene	14.550	180	74344	9.775	ug/L		99

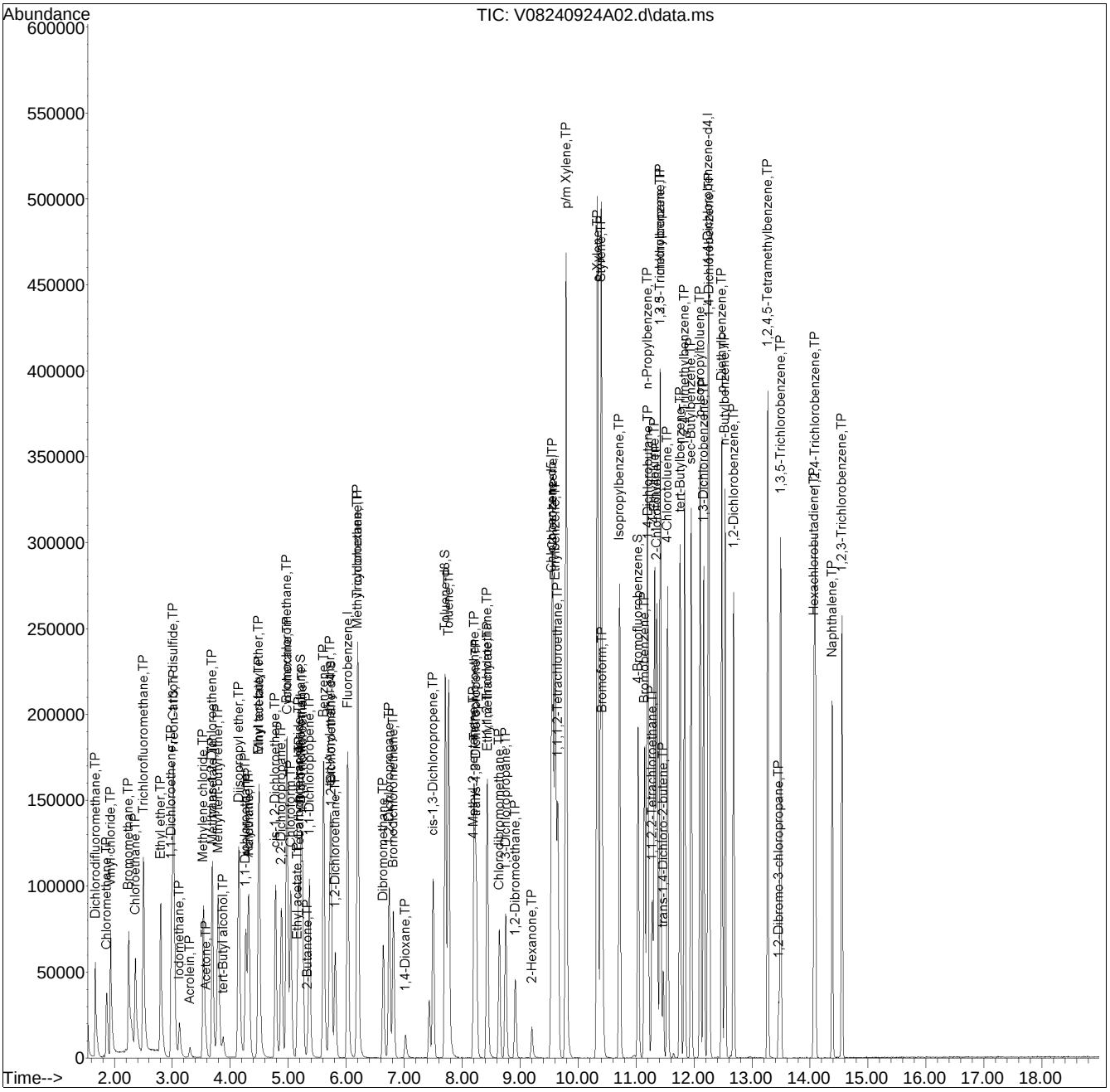
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-2
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

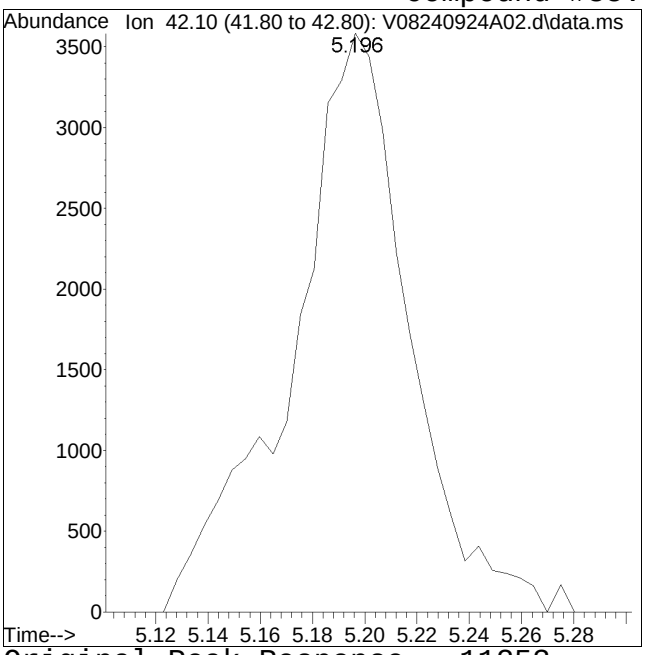
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE



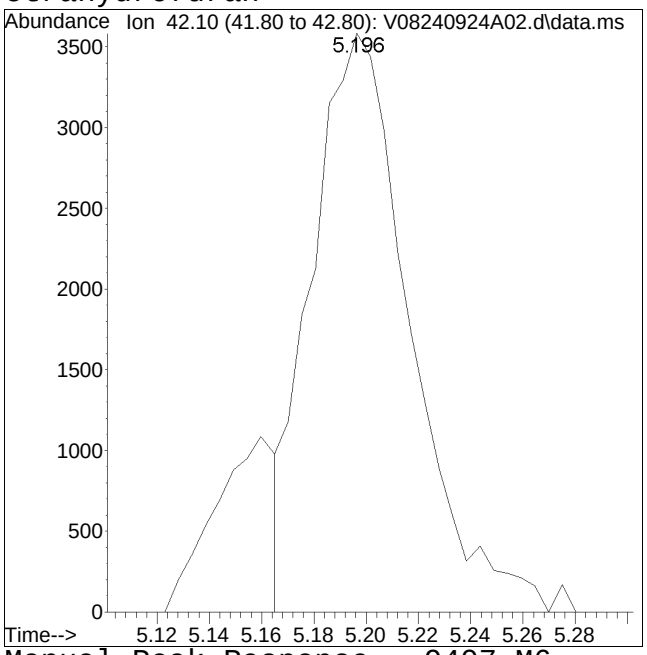
Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A02.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 7:13 am	Instrument	: VOA 108
Sample	: WG1975613-2	Quant Date	: 9/24/2024 7:36 am

Compound #35: Tetrahydrofuran



Original Peak Response = 11253



Manual Peak Response = 9407 M6

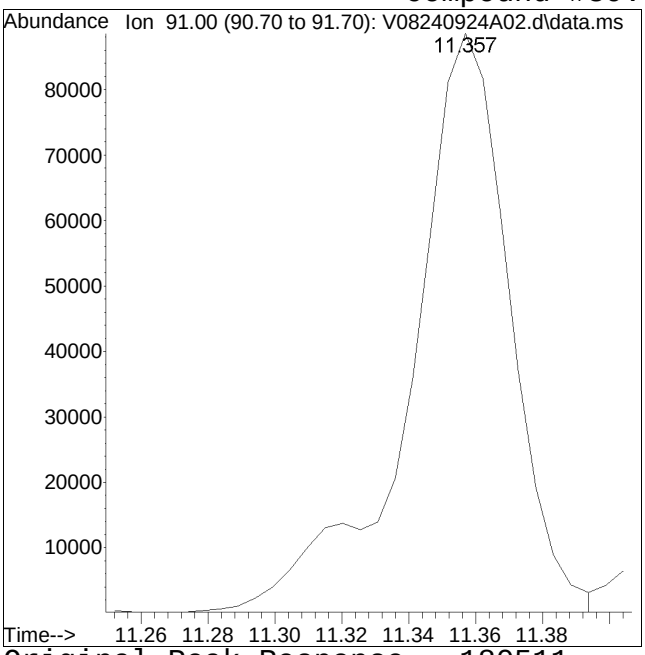
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

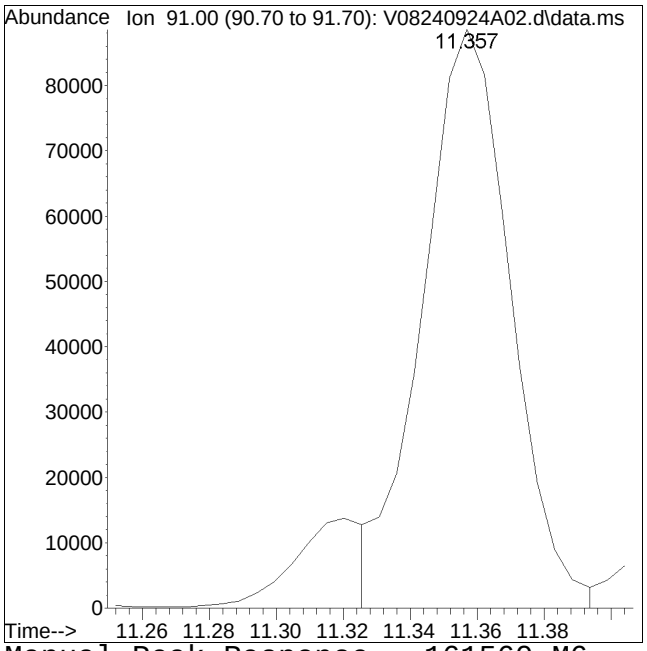
Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Date Inj'd : 9/24/2024 7:13 am
Sample : WG1975613-2

QMethod : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/24/2024 7:36 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 180511



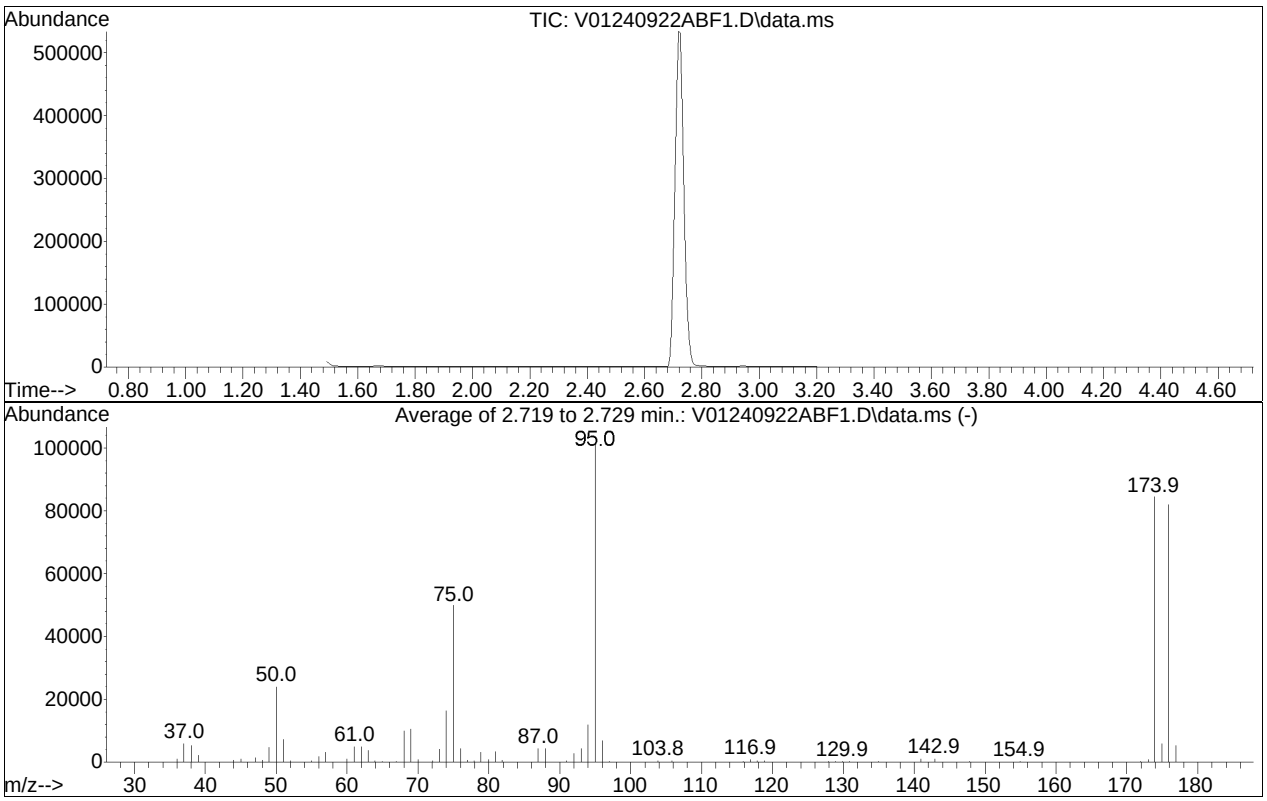
Manual Peak Response = 161560 M6

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

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922ABF1.D
Acq On : 22 Sep 2024 4:14 pm
Operator : VOA101:PID
Sample : WG1975156-1
Misc : WG1975156
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Sep 12 12:36:16 2024



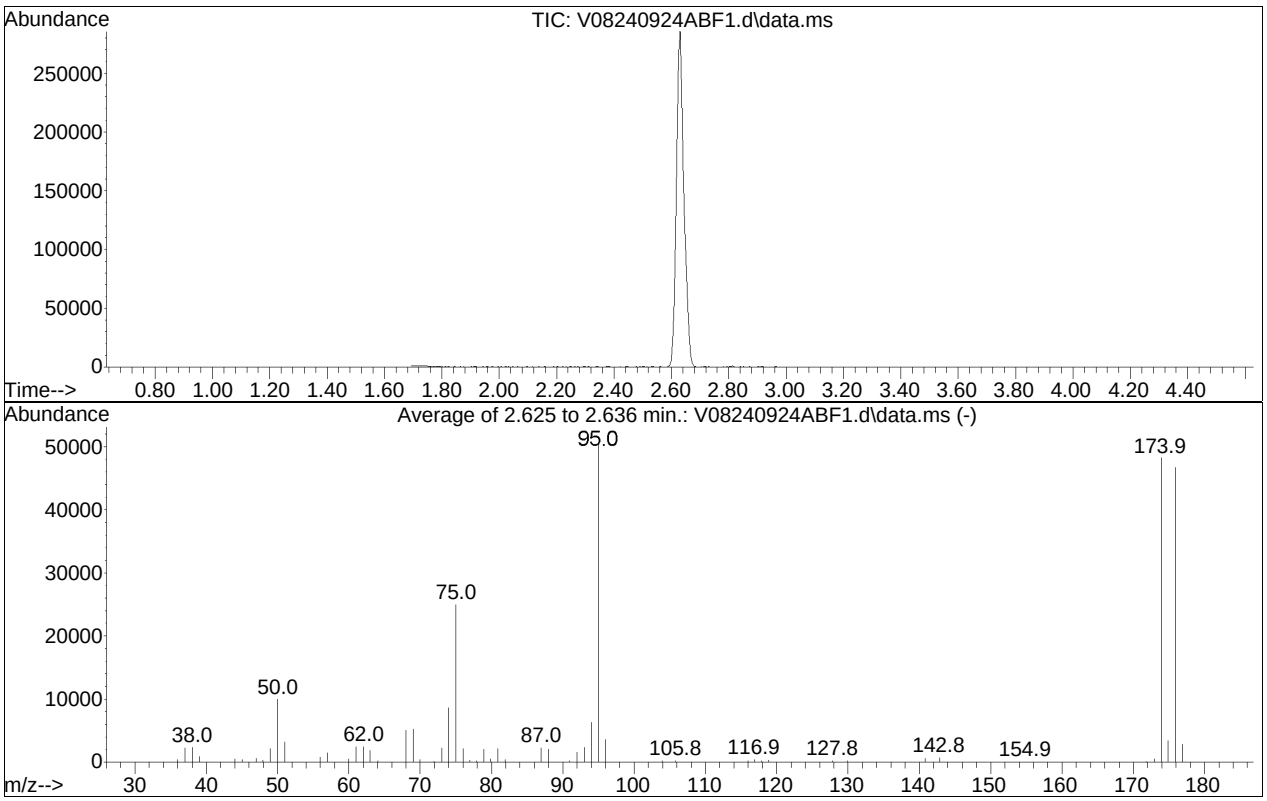
AutoFind: Scans 235, 236, 237; Background Corrected with Scan 225

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	23915	PASS
75	95	30	60	49.1	49885	PASS
95	95	100	100	100.0	101699	PASS
96	95	5	9	6.7	6811	PASS
173	174	0.00	2	1.0	814	PASS
174	95	50	100	83.0	84384	PASS
175	174	5	9	6.9	5860	PASS
176	174	95	101	97.1	81957	PASS
177	176	5	9	6.4	5213	PASS

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924ABF1.d
Acq On : 24 Sep 2024 6:37 am
Operator : VOA108:PID
Sample : WG1975613-1
Misc : WG1975613
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024



AutoFind: Scans 179, 180, 181; Background Corrected with Scan 170

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	9971	PASS
75	95	30	60	49.3	24965	PASS
95	95	100	100	100.0	50651	PASS
96	95	5	9	7.0	3556	PASS
173	174	0.00	2	1.1	509	PASS
174	95	50	100	95.3	48269	PASS
175	174	5	9	7.2	3458	PASS
176	174	95	101	96.8	46717	PASS
177	176	5	9	6.1	2850	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A05.D
Acq On : 22 Sep 2024 6:10 pm
Operator : VOA101:PID
Sample : WG1975156-5,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 22 18:35:38 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.941	96	415717	10.000	ug/L	0.00
Standard Area 1 = 434730			Recovery = 95.63%			
59) Chlorobenzene-d5	9.457	117	322003	10.000	ug/L	0.00
Standard Area 1 = 346077			Recovery = 93.04%			
79) 1,4-Dichlorobenzene-d4	12.179	152	167318	10.000	ug/L	0.00
Standard Area 1 = 189151			Recovery = 88.46%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.140	113	107288	9.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
43) 1,2-Dichloroethane-d4	5.656	65	117118	9.349	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.49%			
60) Toluene-d8	7.619	98	395655	10.246	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.46%			
83) 4-Bromofluorobenzene	10.960	95	142385	10.034	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.827	50	181	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.201	94	1144	0.103	ug/L	91
6) Chloroethane	2.288	64	149	Below Cal		78
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.946	76	900	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.467	84	414	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.660	43	26	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.761	96	63	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	4.898	56	26	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A05.D
Acq On : 22 Sep 2024 6:10 pm
Operator : VOA101:PID
Sample : WG1975156-5,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 22 18:35:38 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	6.100	83	27	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.468	112	54	N.D.		
74)	Ethylbenzene	9.541	91	25	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	10.667	105	134	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.115	146	272	N.D.		
101)	1,4-Dichlorobenzene	12.198	146	768	N.D.		
104)	1,2-Dichlorobenzene	12.639	146	233	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	14.064	180	1076M3	0.128	ug/L	
111)	1,2,3-Trichlorobenzene	14.505	180	1345	0.209	ug/L #	89

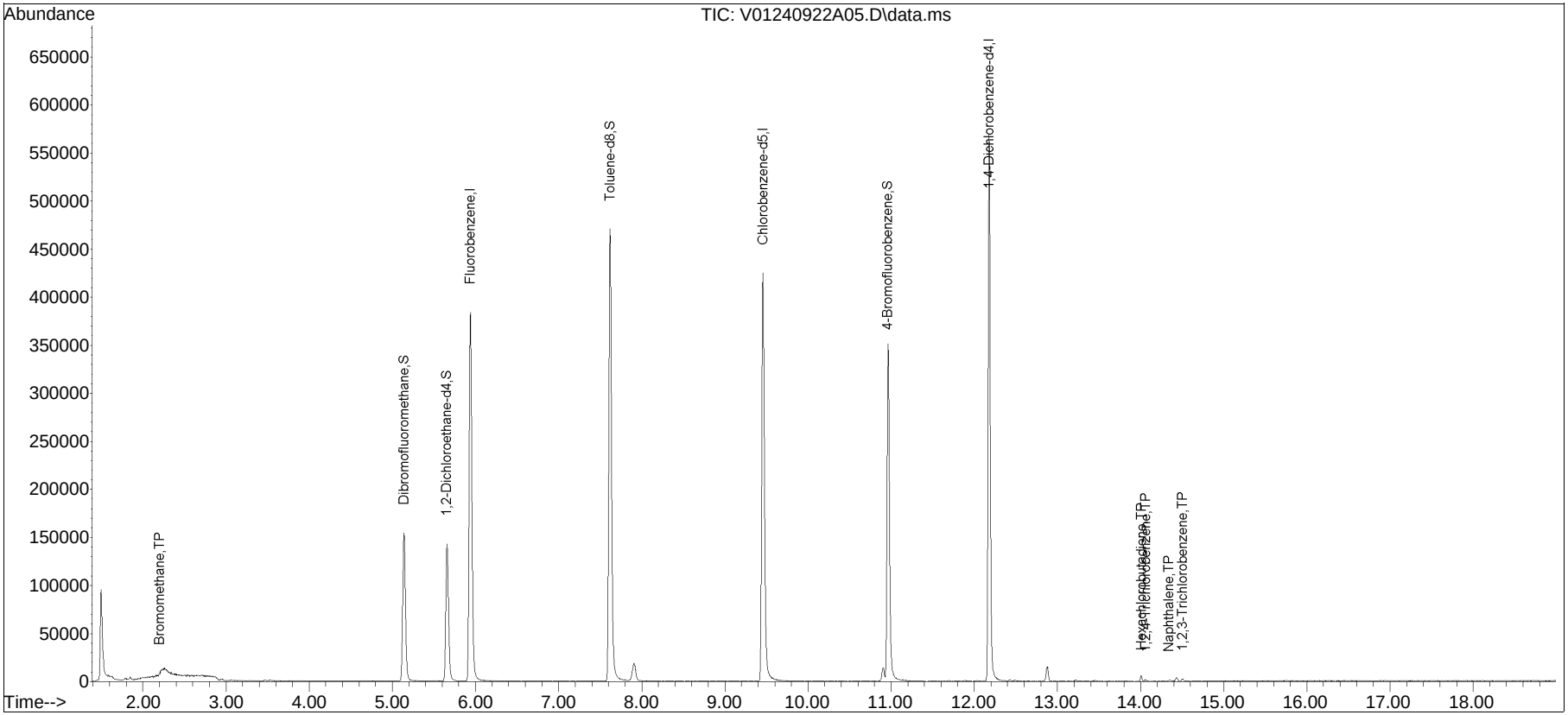
(#) = qualifier out of range (m) = manual integration (+) = signals summed

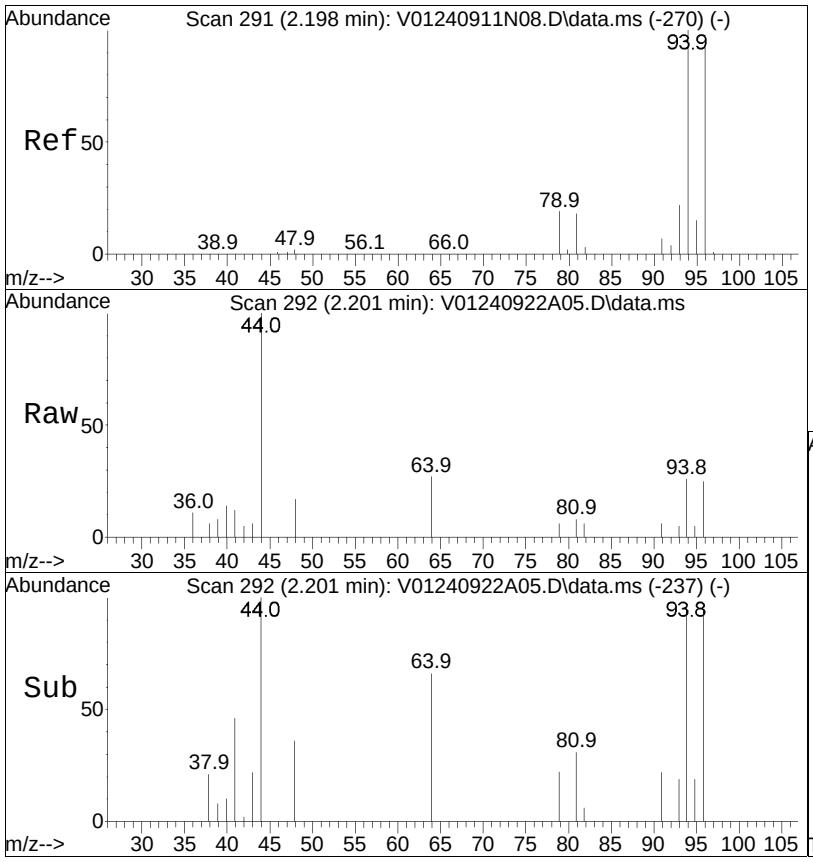
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A05.D
Acq On : 22 Sep 2024 6:10 pm
Operator : VOA101:PID
Sample : WG1975156-5,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 22 18:35:38 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

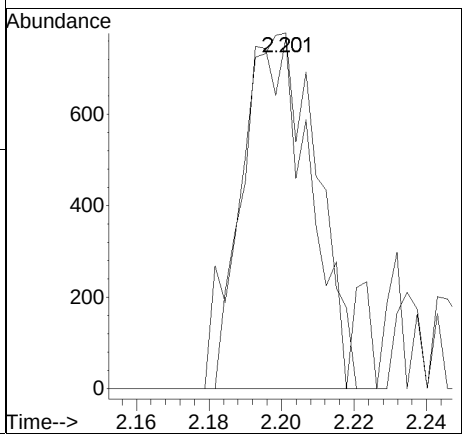


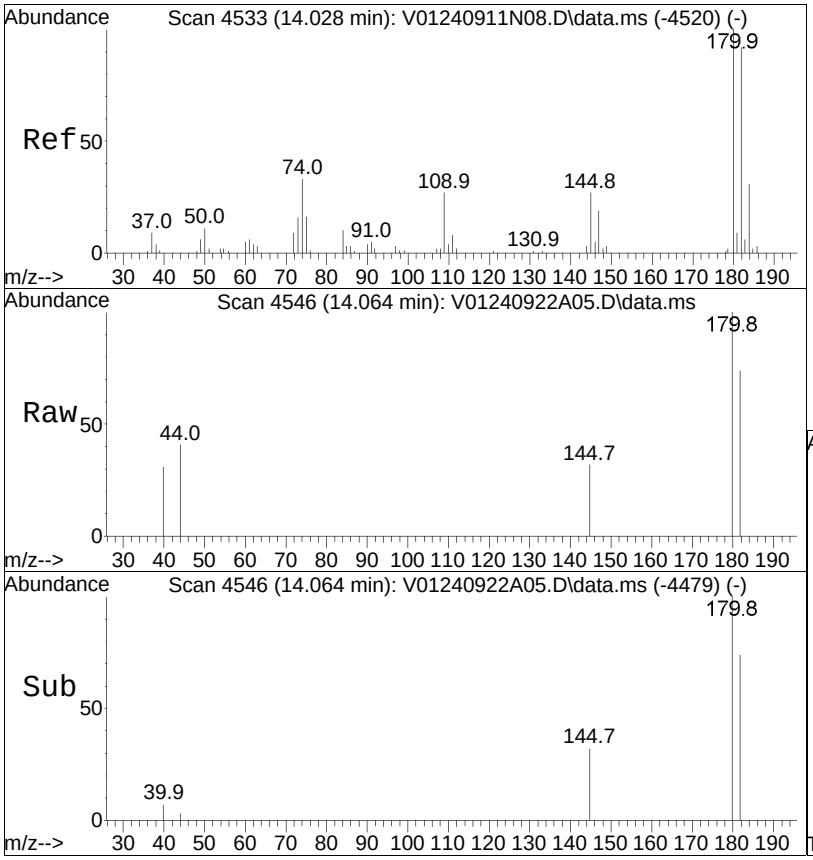


#5
Bromomethane
Concen: 0.10 ug/L
RT: 2.201 min Scan# 292
Delta R.T. 0.003 min
Lab File: V01240922A05.D
Acq: 22 Sep 2024 6:10 pm

Tgt Ion: 94 Resp: 1144

Ion	Ratio	Lower	Upper
94	100		
96	85.1	73.6	113.6

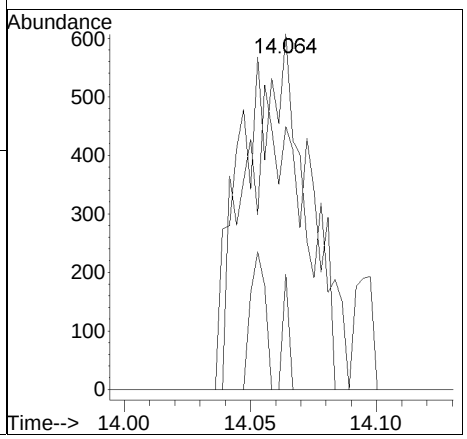


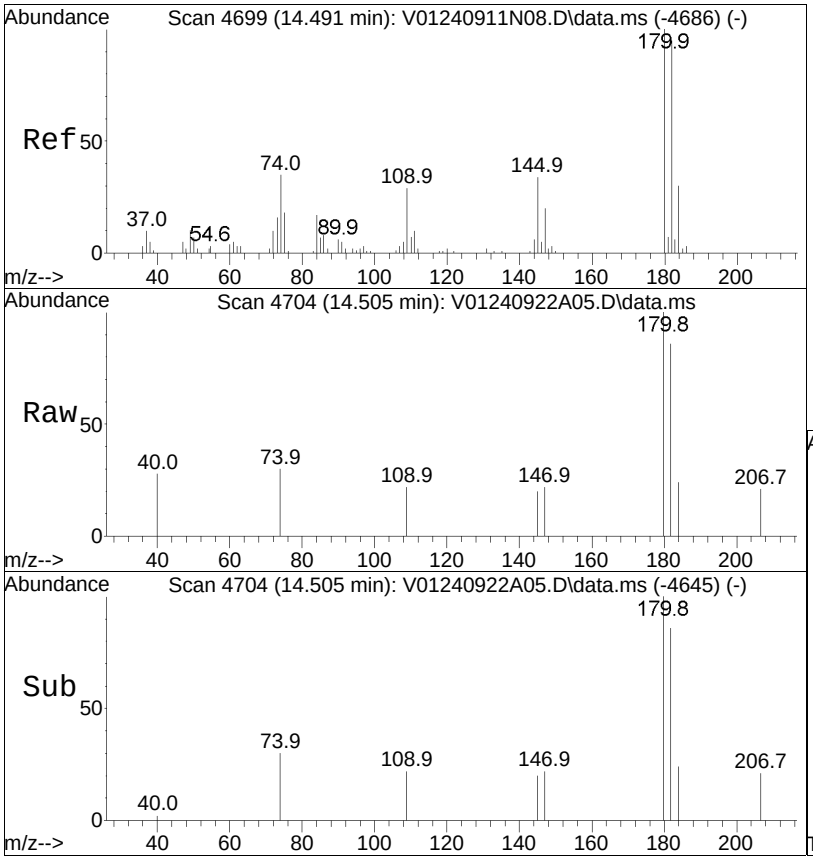


#109
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L M3
RT: 14.064 min Scan# 4546
Delta R.T. 0.036 min
Lab File: V01240922A05.D
Acq: 22 Sep 2024 6:10 pm

Tgt Ion:180 Resp: 1076

Ion	Ratio	Lower	Upper
180	100		
182	47.3	75.8	113.8#
145	8.9	26.1	39.1#

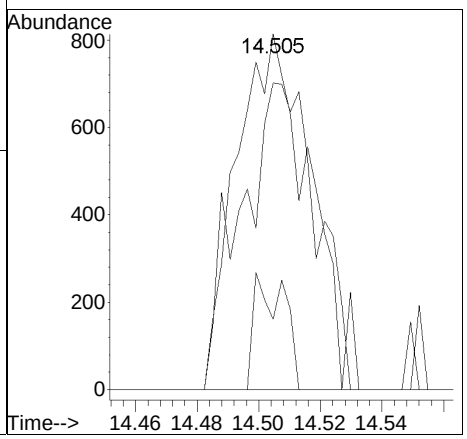




#111
1,2,3-Trichlorobenzene
Concen: 0.21 ug/L
RT: 14.505 min Scan# 4704
Delta R.T. 0.014 min
Lab File: V01240922A05.D
Acq: 22 Sep 2024 6:10 pm

Tgt Ion:180 Resp: 1345

Ion	Ratio	Lower	Upper
180	100		
182	89.9	75.4	113.0
145	13.3	25.0	37.6#

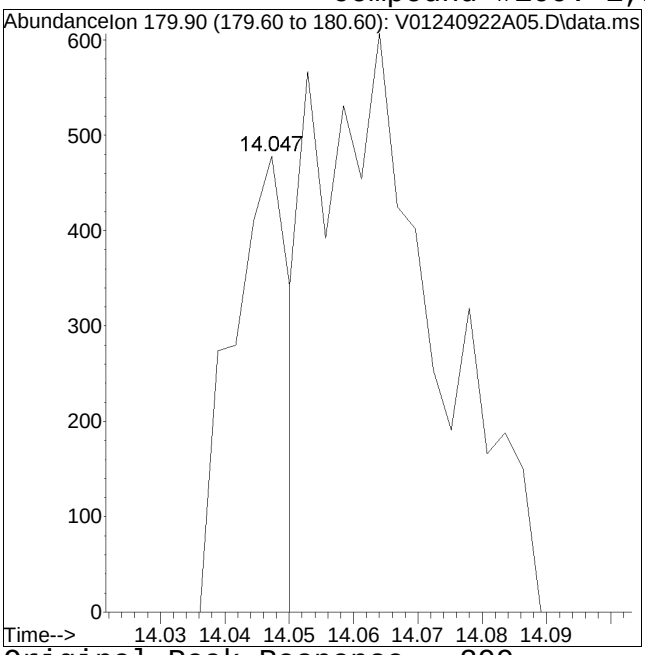


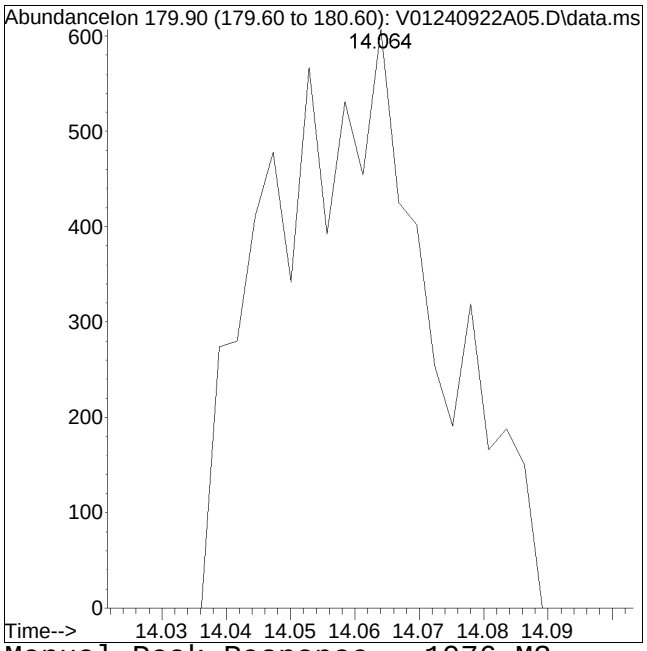
Manual Integration Report

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A05.D
Date Inj'd : 9/22/2024 6:10 pm
Sample : WG1975156-5,31,10,10

QMethod : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/22/2024 6:35 pm

Compound #109: 1,2,4-Trichlorobenzene





Original Peak Response = 299 Manual Peak Response = 1076 M3

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

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A05.d
Acq On : 24 Sep 2024 8:20 am
Operator : VOA108:PID
Sample : WG1975613-5,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 09:06:34 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	190990	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 95.56%			
59) Chlorobenzene-d5	9.548	117	150804	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 96.50%			
79) 1,4-Dichlorobenzene-d4	12.243	152	82194	10.000	ug/L	-0.01
Standard Area 1 = 91792			Recovery = 89.54%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	57089	9.822	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.22%			
43) 1,2-Dichloroethane-d4	5.747	65	55369	10.353	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.53%			
60) Toluene-d8	7.708	98	179250	10.043	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.43%			
83) 4-Bromofluorobenzene	11.037	95	62433	10.714	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.244	94	101	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.010	76	397	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.534	84	50	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.592	43	98	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A05.d
Acq On : 24 Sep 2024 8:20 am
Operator : VOA108:PID
Sample : WG1975613-5,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 09:06:34 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	9.569	112	161	N.D.		
74) Ethylbenzene	9.606	91	315	N.D.		
76) p/m Xylene	9.805	106	161	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.	d	
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.722	105	48	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.170	146	398	N.D.		
101) 1,4-Dichlorobenzene	12.264	146	683	N.D.		
104) 1,2-Dichlorobenzene	12.683	146	241	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	14.089	180	487	N.D.		
111) 1,2,3-Trichlorobenzene	14.555	180	425	N.D.		

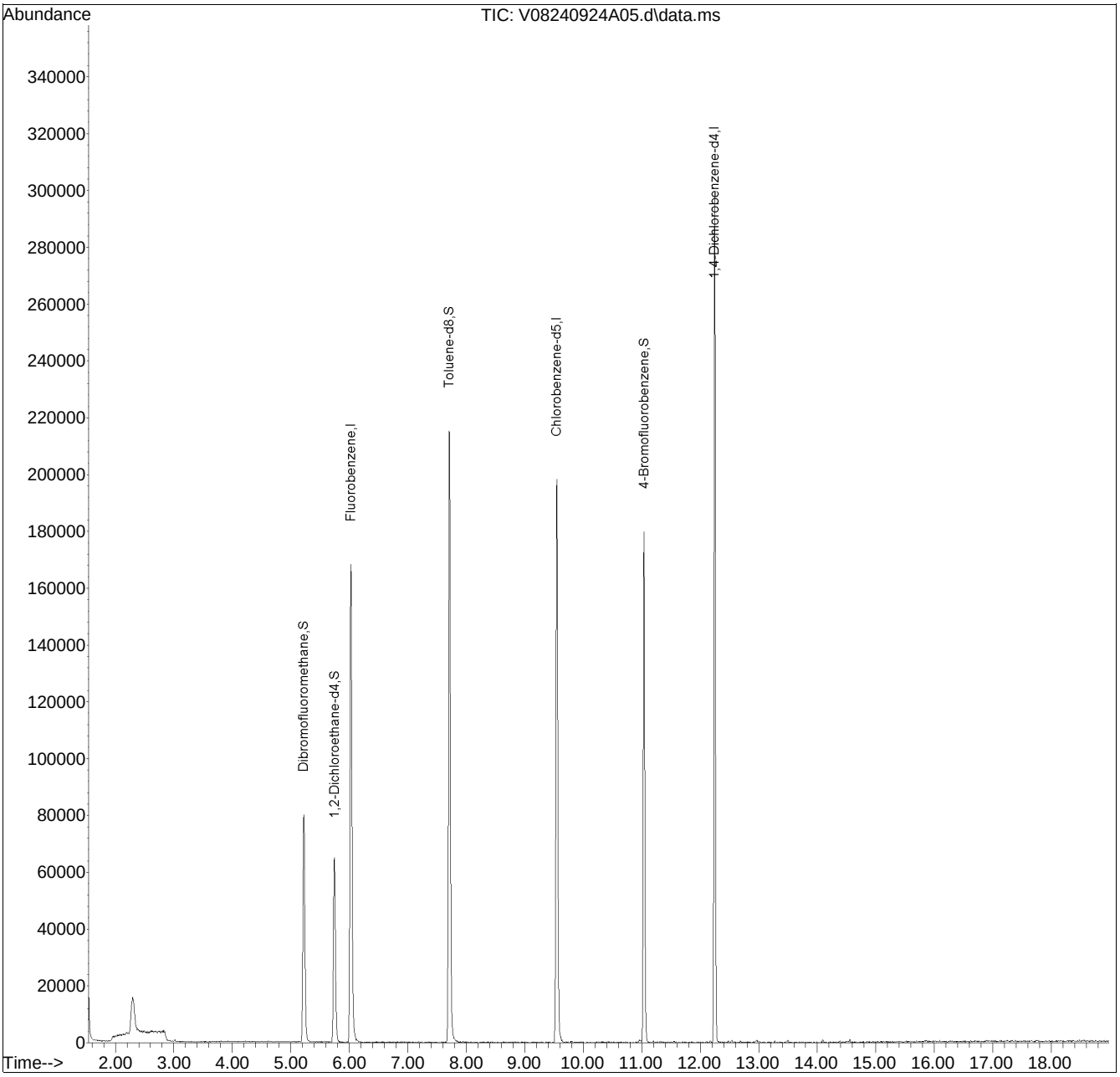
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A05.d
Acq On : 24 Sep 2024 8:20 am
Operator : VOA108:PID
Sample : WG1975613-5,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 09:06:34 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE02.d•



Manual Integration Report

Data Path	: K:\VOA108\2024\240924A\	QMethod	: V108_240829N_8260.m
Data File	: V08240924A05.d	Operator	: VOA108:PID
Date Inj'd	: 9/24/2024 8:20 am	Instrument	: VOA 108
Sample	: WG1975613-5,31,10,10	Quant Date	: 9/24/2024 9:06 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-3,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	434730	10.000	ug/L	0.00
Standard Area 1 = 434730			Recovery = 100.00%			
59) Chlorobenzene-d5	9.457	117	346077	10.000	ug/L	0.00
Standard Area 1 = 346077			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.176	152	189151	10.000	ug/L	0.00
Standard Area 1 = 189151			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.137	113	114812	10.069	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%			
43) 1,2-Dichloroethane-d4	5.656	65	121581	9.281	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.81%			
60) Toluene-d8	7.617	98	426402	10.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.74%			
83) 4-Bromofluorobenzene	10.963	95	161041	10.039	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.39%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	139364	11.928	ug/L	99
3) Chloromethane	1.827	50	123687	10.492	ug/L	99
4) Vinyl chloride	1.897	62	137905	8.937	ug/L	98
5) Bromomethane	2.195	94	51397	4.414	ug/L	99
6) Chloroethane	2.310	64	111318	7.125	ug/L	97
7) Trichlorofluoromethane	2.444	101	197196	5.565	ug/L	98
10) 1,1-Dichloroethene	2.920	96	96478	10.145	ug/L	99
11) Carbon disulfide	2.951	76	288887	9.891	ug/L	100
12) Freon-113	2.957	101	105070	10.214	ug/L	86
15) Methylene chloride	3.464	84	100832	9.566	ug/L	93
17) Acetone	3.514	43	18099	9.812	ug/L #	60
18) trans-1,2-Dichloroethene	3.618	96	104116	10.021	ug/L	99
19) Methyl acetate	3.629	43	37790	8.892	ug/L	98
20) Methyl tert-butyl ether	3.718	73	216049	9.024	ug/L	93
23) 1,1-Dichloroethane	4.189	63	200813	10.639	ug/L	99
28) cis-1,2-Dichloroethene	4.702	96	114173	9.833	ug/L	99
30) Bromochloromethane	4.889	128	51160	9.746	ug/L	98
31) Cyclohexane	4.895	56	196073	11.213	ug/L	95
32) Chloroform	4.965	83	180503	9.335	ug/L	98
34) Carbon tetrachloride	5.096	117	145457	9.418	ug/L	99

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-3,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.160	97	160322	9.272	ug/L		98
39) 2-Butanone	5.260	43	21187	8.522	ug/L	#	52
41) Benzene	5.522	78	405447	9.615	ug/L		97
44) 1,2-Dichloroethane	5.723	62	122742	9.724	ug/L		100
47) Methyl cyclohexane	6.105	83	174456	9.369	ug/L		92
48) Trichloroethene	6.119	95	111253	9.343	ug/L		98
51) 1,2-Dichloropropane	6.654	63	107742	10.471	ug/L		97
54) Bromodichloromethane	6.730	83	128196	9.138	ug/L		100
58) cis-1,3-Dichloropropene	7.413	75	145105	9.452	ug/L		95
61) Toluene	7.675	92	263131	9.493	ug/L		99
62) 4-Methyl-2-pentanone	8.110	58	18809	9.647	ug/L		97
63) Tetrachloroethene	8.127	166	119532	10.663	ug/L		97
65) trans-1,3-Dichloropropene	8.160	75	117861	9.474	ug/L		94
68) 1,1,2-Trichloroethane	8.344	83	60027	9.403	ug/L		97
69) Chlorodibromomethane	8.556	129	86824	9.440	ug/L		98
71) 1,2-Dibromoethane	8.835	107	71184	9.977	ug/L		98
72) 2-Hexanone	9.122	43	30400	8.680	ug/L		99
73) Chlorobenzene	9.477	112	294555	9.564	ug/L		97
74) Ethylbenzene	9.513	91	515652	9.334	ug/L		99
76) p/m Xylene	9.697	106	403478	17.864	ug/L		96
77) o Xylene	10.246	106	375965	17.473	ug/L		99
78) Styrene	10.313	104	616127	17.724	ug/L		96
80) Bromoform	10.338	173	46723	8.373	ug/L		100
82) Isopropylbenzene	10.634	105	509924	8.967	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.208	83	80013	8.949	ug/L		100
100) 1,3-Dichlorobenzene	12.098	146	226616	9.267	ug/L		99
101) 1,4-Dichlorobenzene	12.193	146	224460	9.011	ug/L		99
104) 1,2-Dichlorobenzene	12.617	146	198867	9.281	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.400	155	8773	8.490	ug/L		97
109) 1,2,4-Trichlorobenzene	14.030	180	97450	10.255	ug/L		99
111) 1,2,3-Trichlorobenzene	14.490	180	71789	9.871	ug/L		98

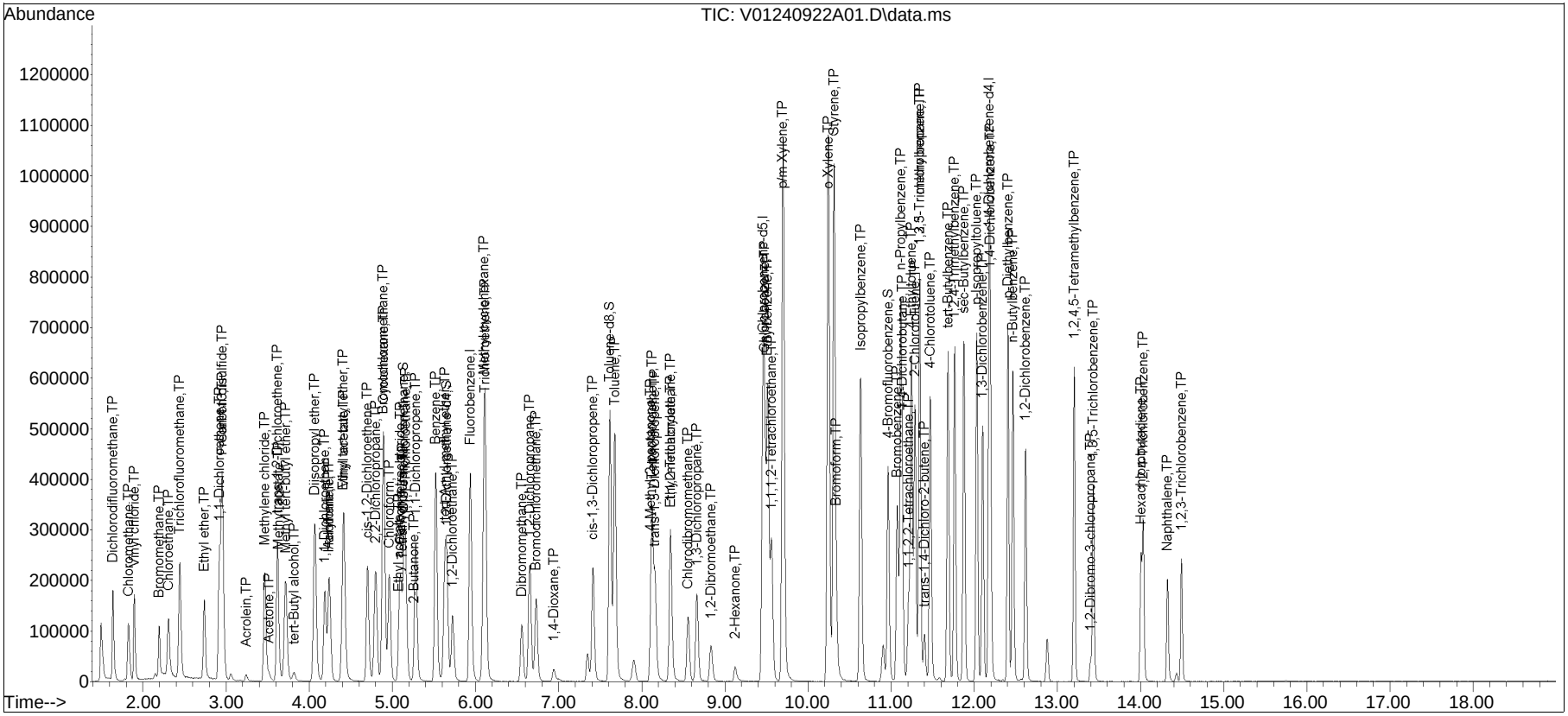
(#) = qualifier out of range (m) = manual integration (+) = signals summed

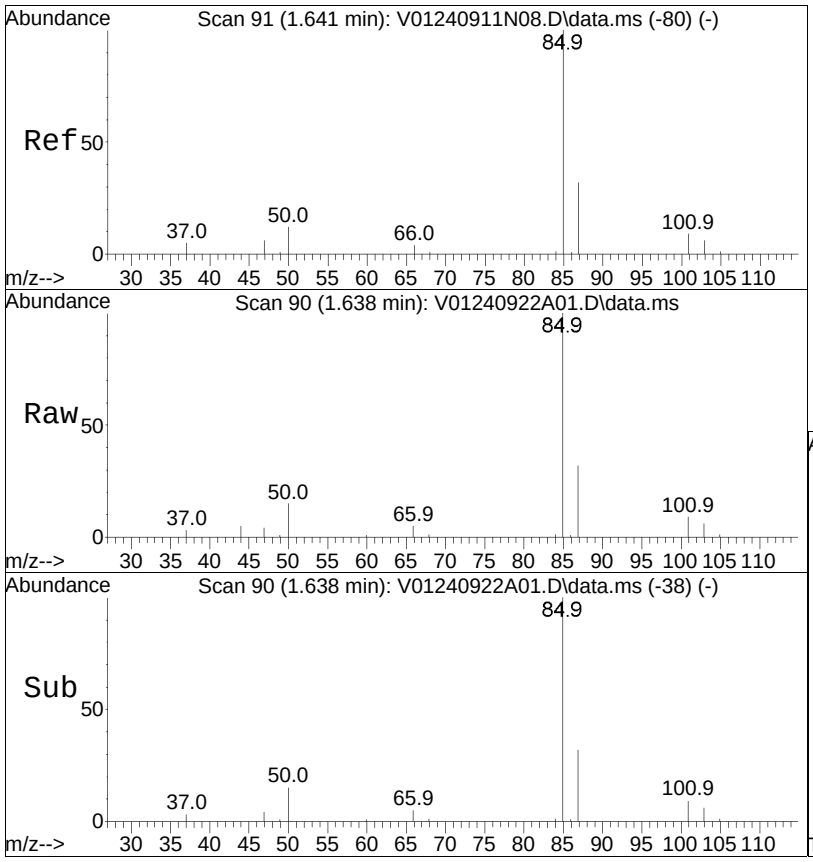
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A01.D
Acq On : 22 Sep 2024 4:26 pm
Operator : VOA101:PID
Sample : WG1975156-3,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 16:57:49 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

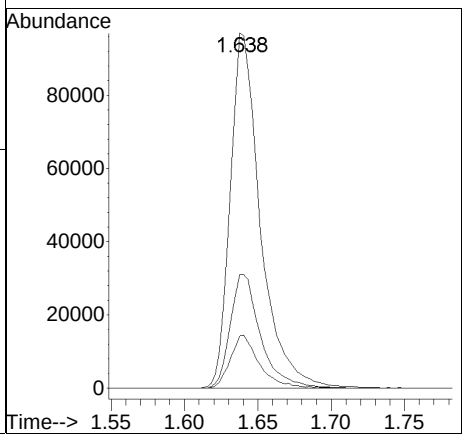


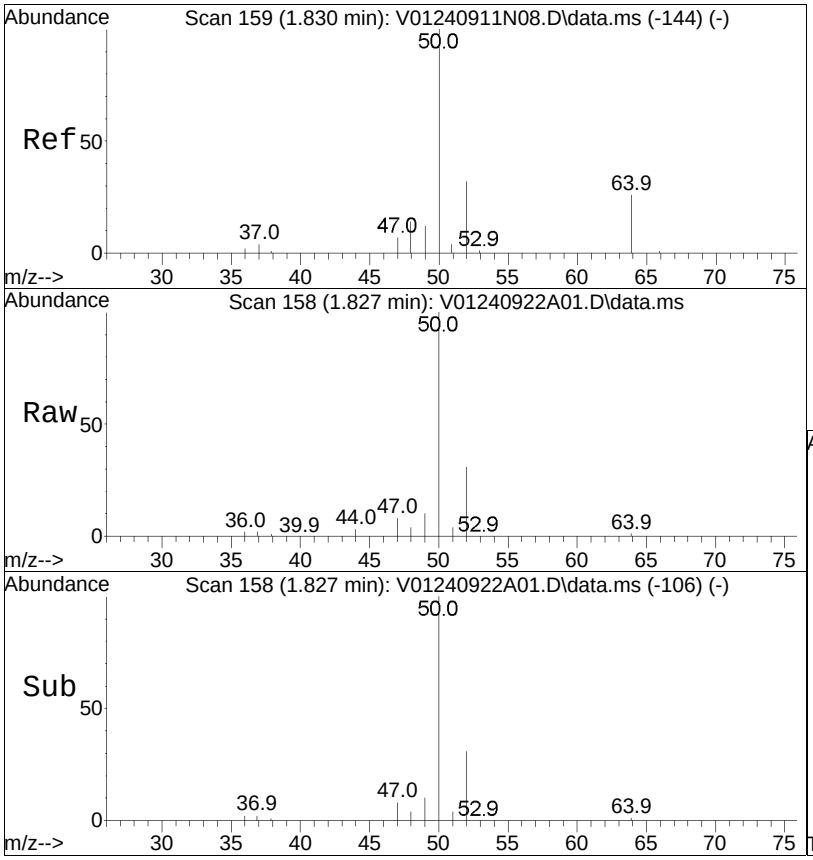


#2
Dichlorodifluoromethane
Concen: 11.93 ug/L
RT: 1.638 min Scan# 90
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 85 Resp: 139364

Ion	Ratio	Lower	Upper
85	100		
87	32.3	20.9	43.5
50	14.6	9.1	18.9

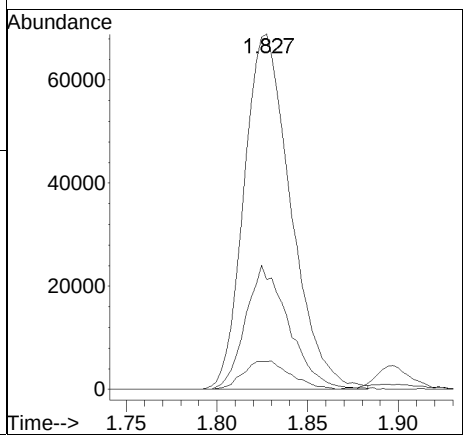


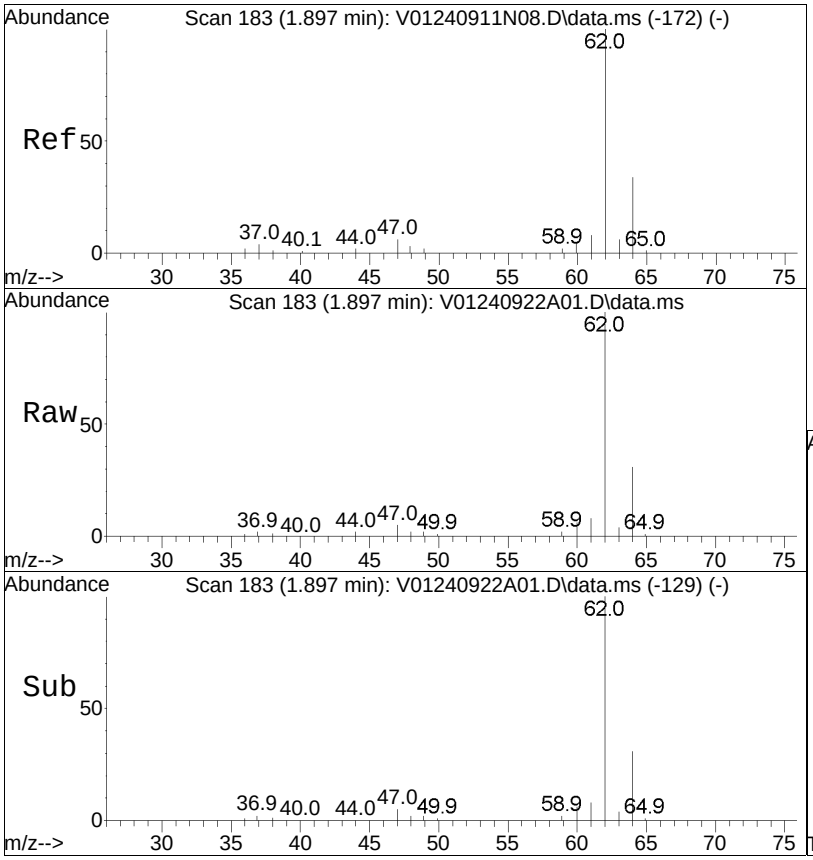


#3
Chloromethane
Concen: 10.49 ug/L
RT: 1.827 min Scan# 158
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 50 Resp: 123687

Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.8	52.8
47	8.1	0.0	28.3

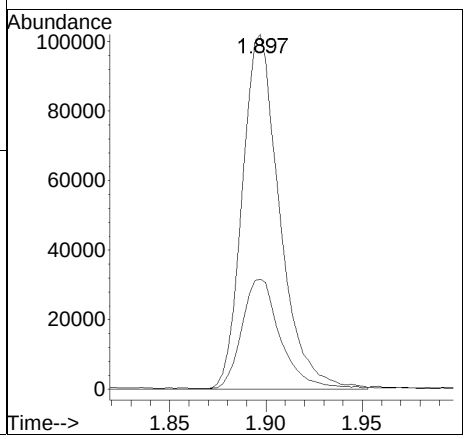


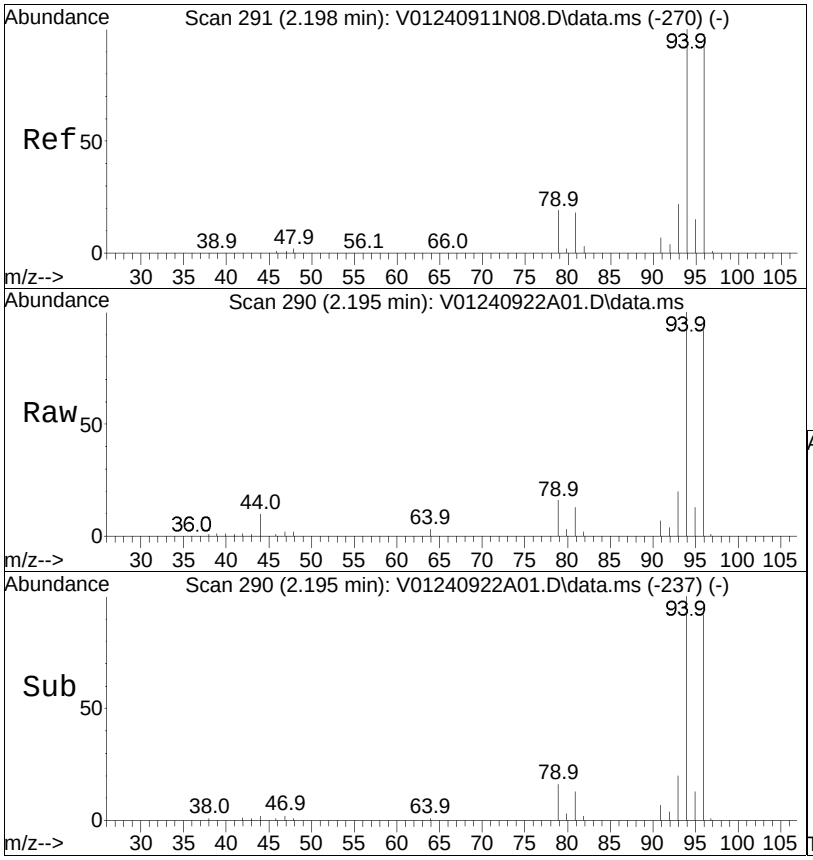


#4
Vinyl chloride
Concen: 8.94 ug/L
RT: 1.897 min Scan# 183
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 62 Resp: 137905

Ion	Ratio	Lower	Upper
62	100		
64	31.9	10.8	50.8

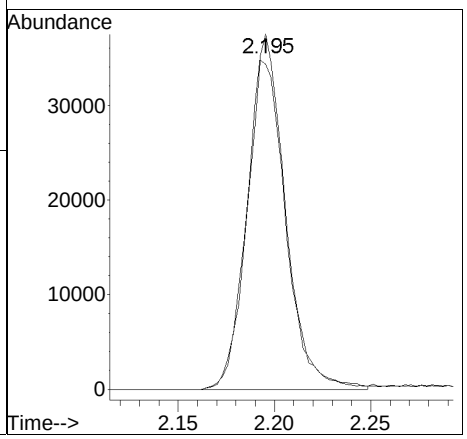


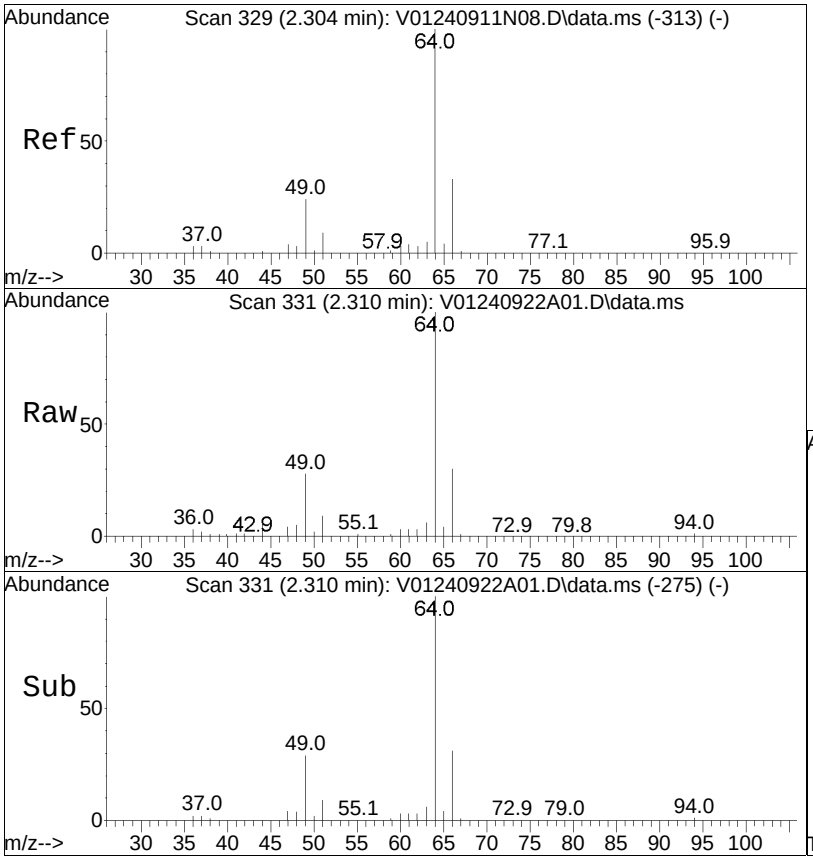


#5
Bromomethane
Concen: 4.41 ug/L
RT: 2.195 min Scan# 290
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 94 Resp: 51397

Ion	Ratio	Lower	Upper
94	100		
96	94.8	73.6	113.6

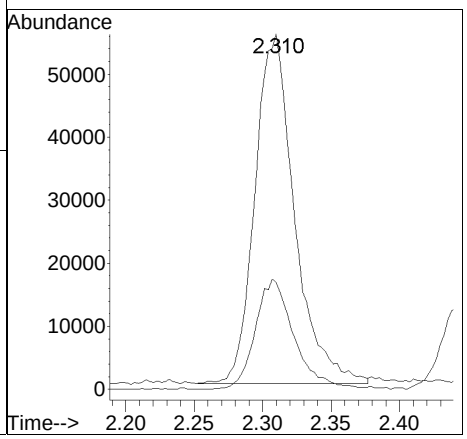


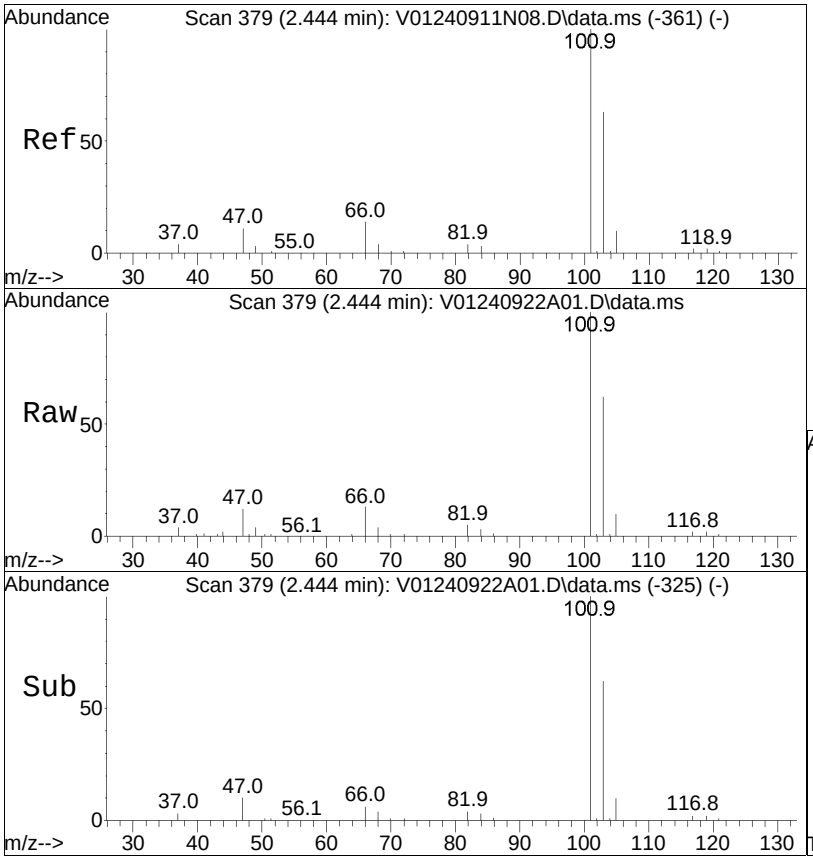


#6
Chloroethane
Concen: 7.12 ug/L
RT: 2.310 min Scan# 331
Delta R.T. 0.006 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 64 Resp: 111318

Ion	Ratio	Lower	Upper
64	100		
66	31.0	12.7	52.7

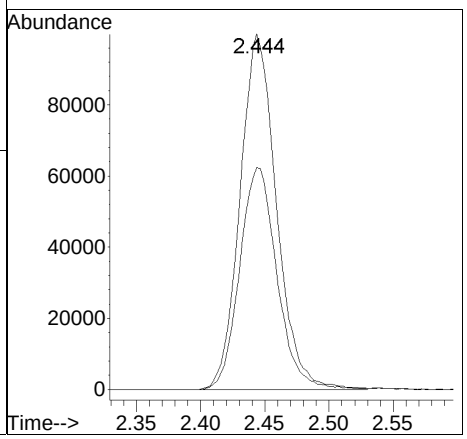


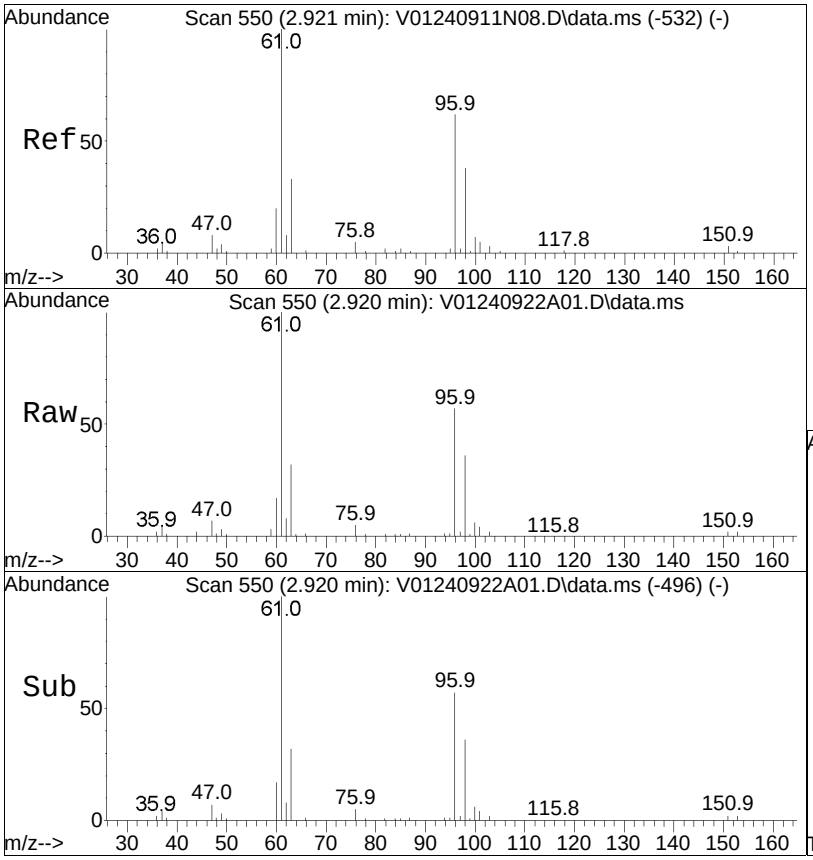


#7
Trichlorofluoromethane
Concen: 5.57 ug/L
RT: 2.444 min Scan# 379
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:101 Resp: 197196

Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.3	78.5

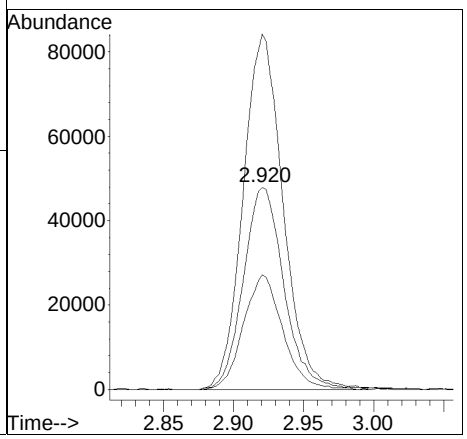


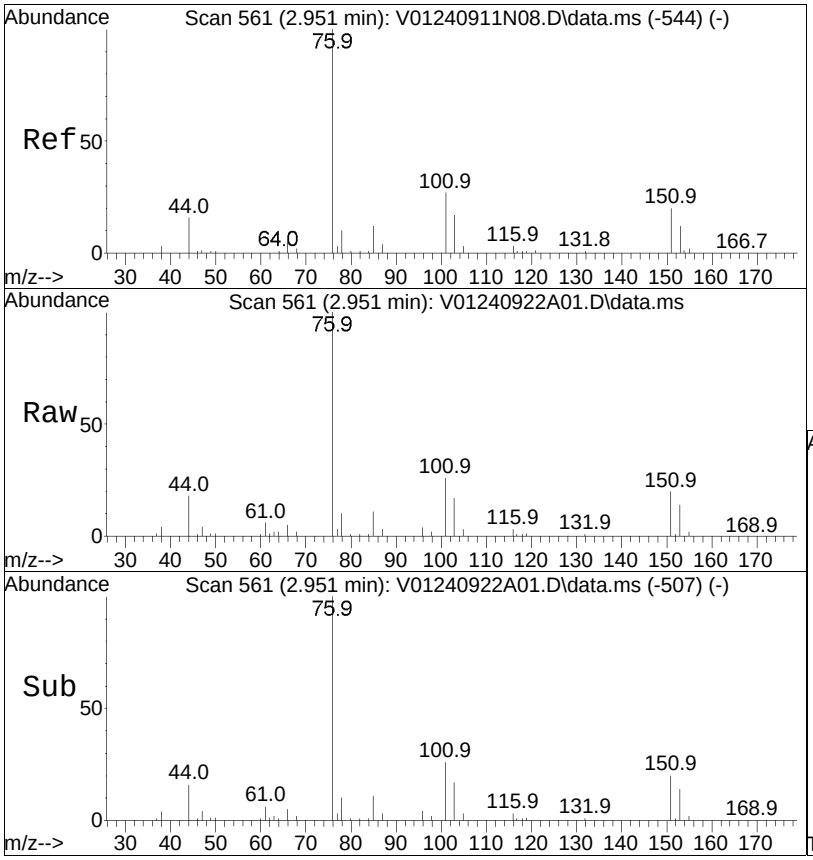


#10
1,1-Dichloroethene
Concen: 10.14 ug/L
RT: 2.920 min Scan# 550
Delta R.T. -0.001 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 96 Resp: 96478

Ion	Ratio	Lower	Upper
96	100		
61	173.4	136.8	205.2
63	54.9	43.6	65.4

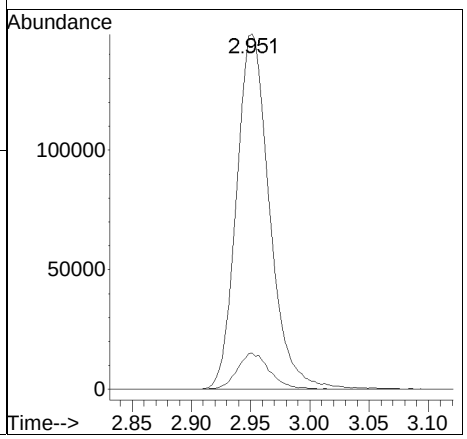


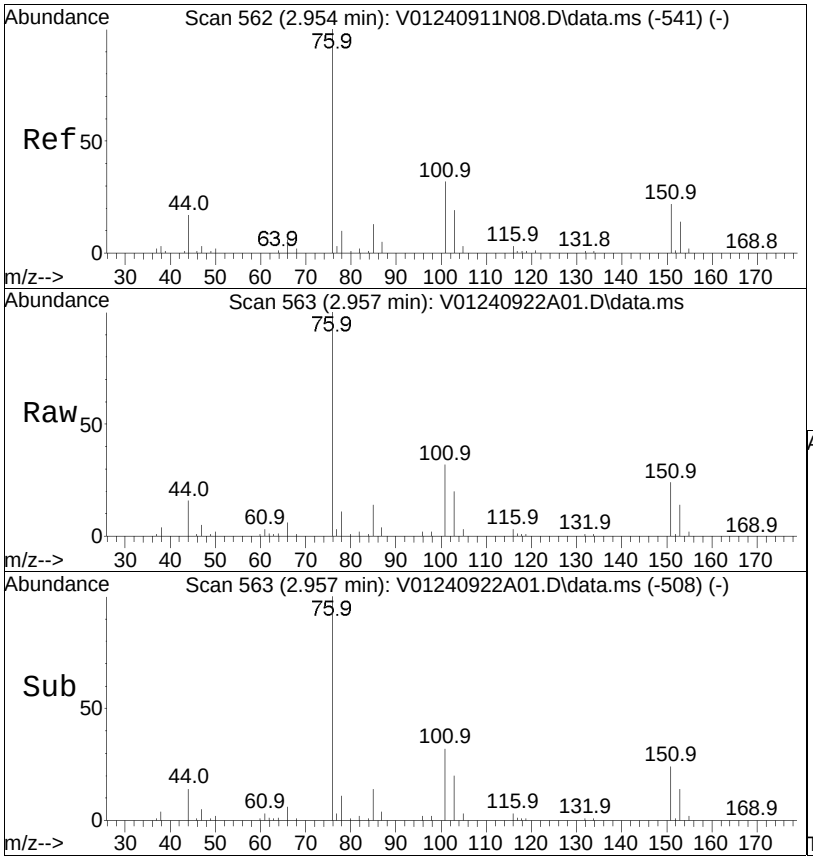


#11
Carbon disulfide
Concen: 9.89 ug/L
RT: 2.951 min Scan# 561
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 76 Resp: 288887

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.6	13.8

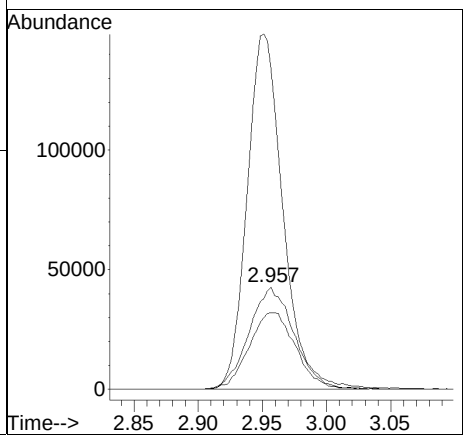


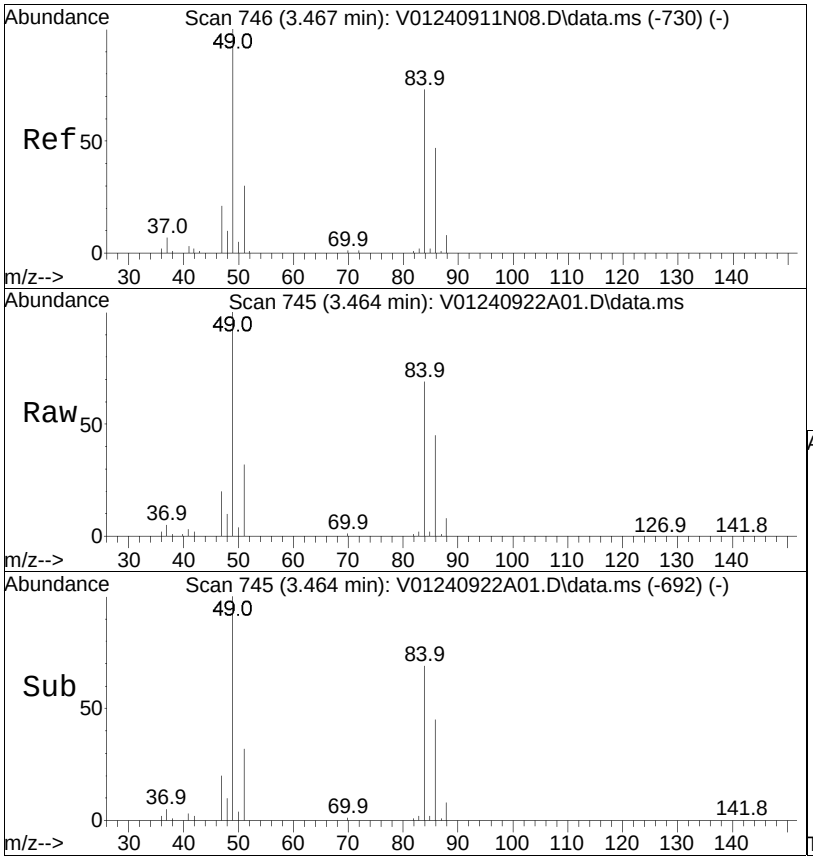


#12
Freon-113
Concen: 10.21 ug/L
RT: 2.957 min Scan# 563
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:101 Resp: 105070

Ion	Ratio	Lower	Upper
101	100		
151	77.3	61.2	91.8
76	274.9	194.8	292.2

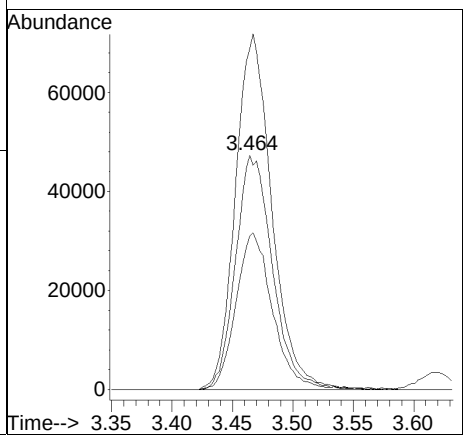


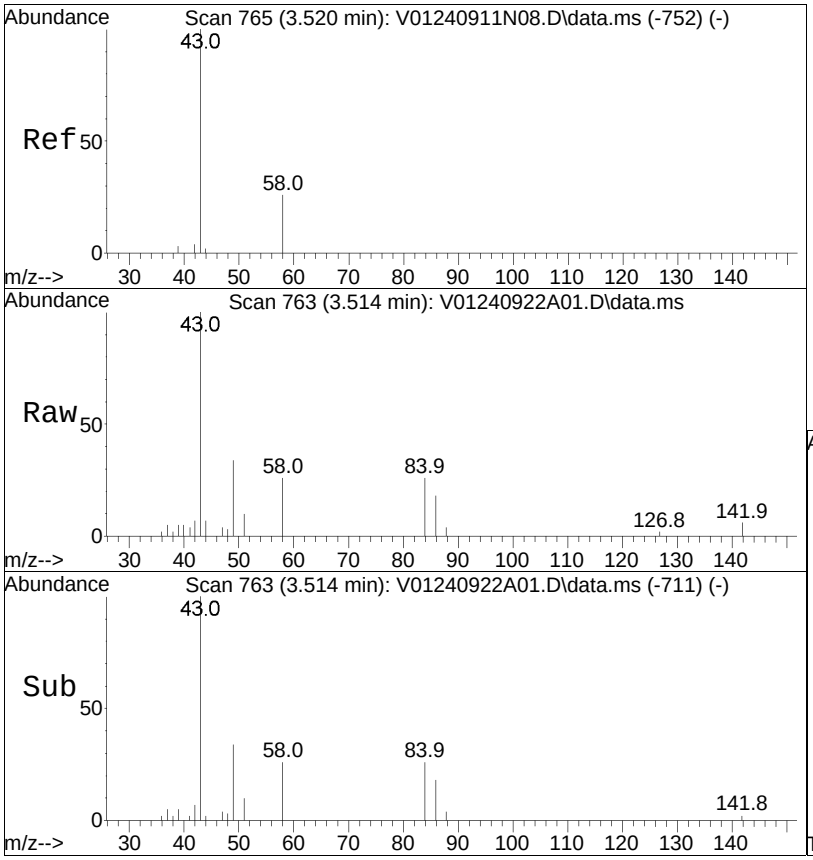


#15
Methylene chloride
Concen: 9.57 ug/L
RT: 3.464 min Scan# 745
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 84 Resp: 100832

Ion	Ratio	Lower	Upper
84	100		
86	65.8	41.7	86.7
49	149.1	89.1	185.1

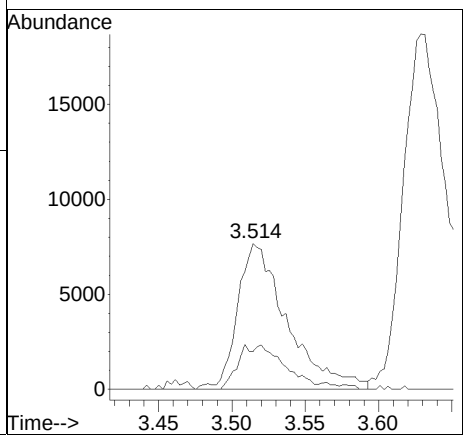


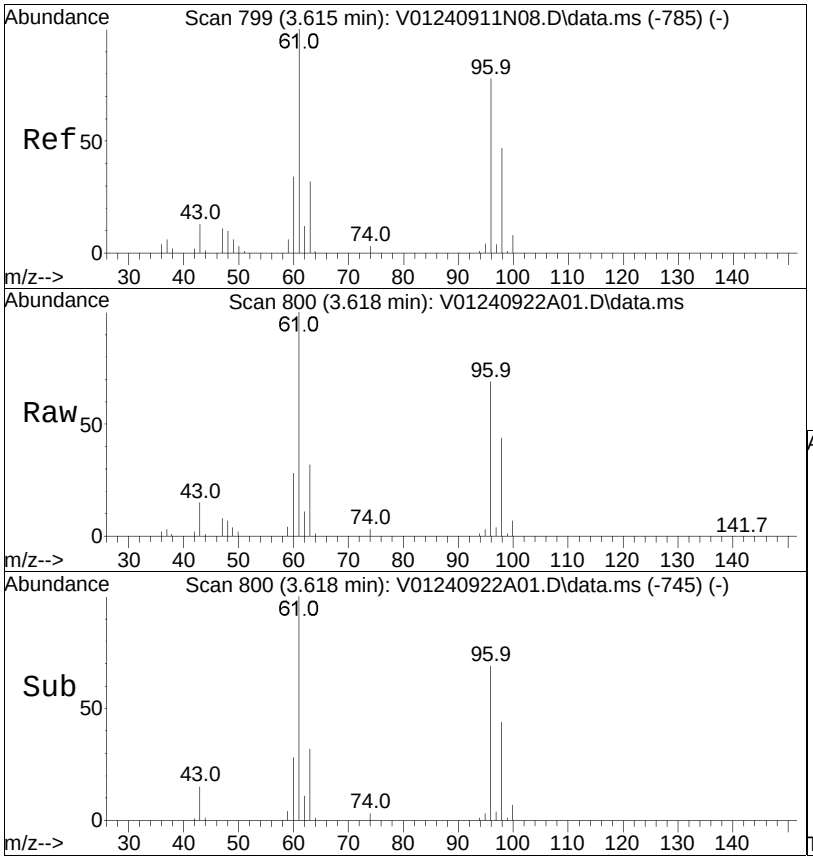


#17
Acetone
Concen: 9.81 ug/L
RT: 3.514 min Scan# 763
Delta R.T. -0.006 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 43 Resp: 18099

Ion	Ratio	Lower	Upper
43	100		
58	10.1	25.9	38.9#

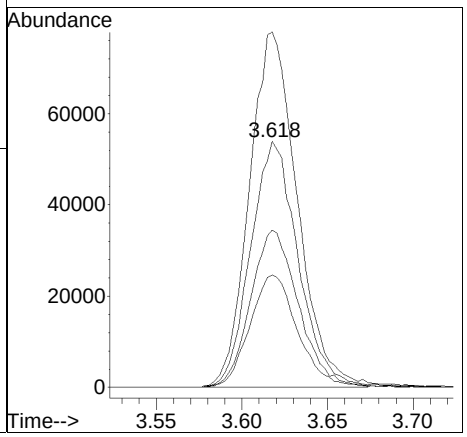


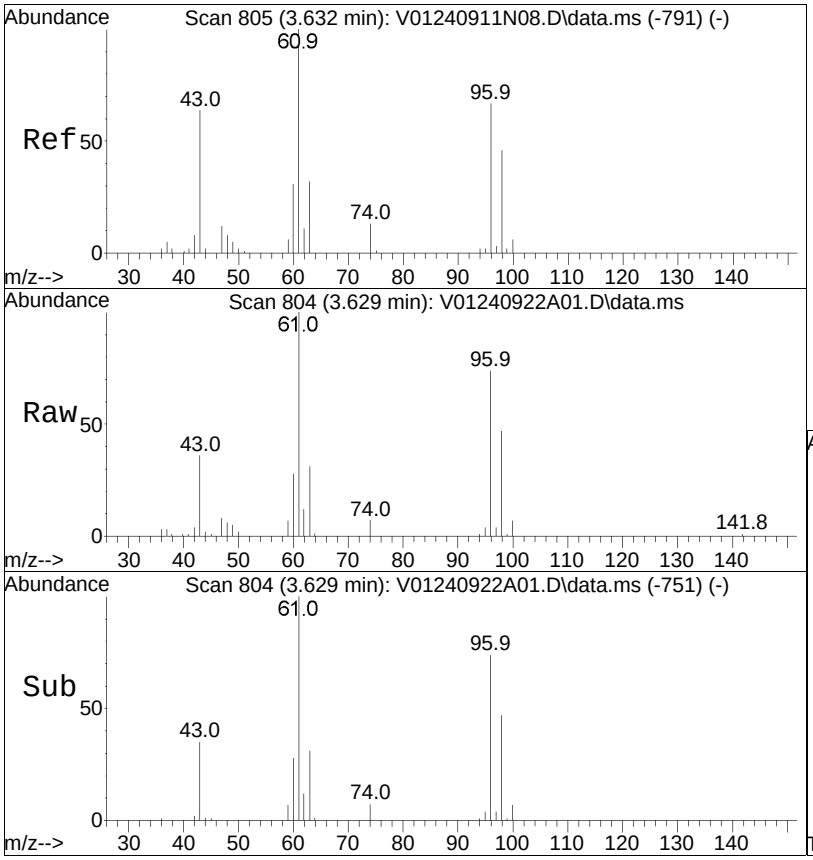


#18
trans-1,2-Dichloroethene
Concen: 10.02 ug/L
RT: 3.618 min Scan# 800
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 96 Resp: 104116

Ion	Ratio	Lower	Upper
96	100		
61	147.1	95.3	197.9
98	64.5	41.0	85.2
63	46.1	30.2	62.6

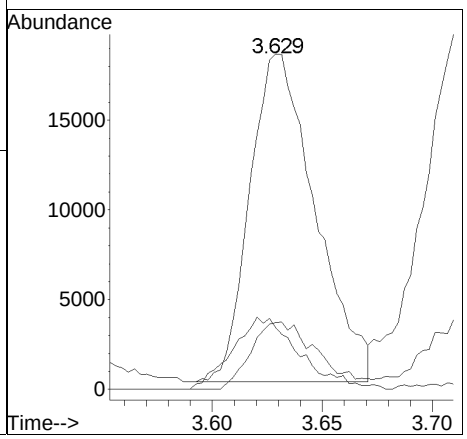


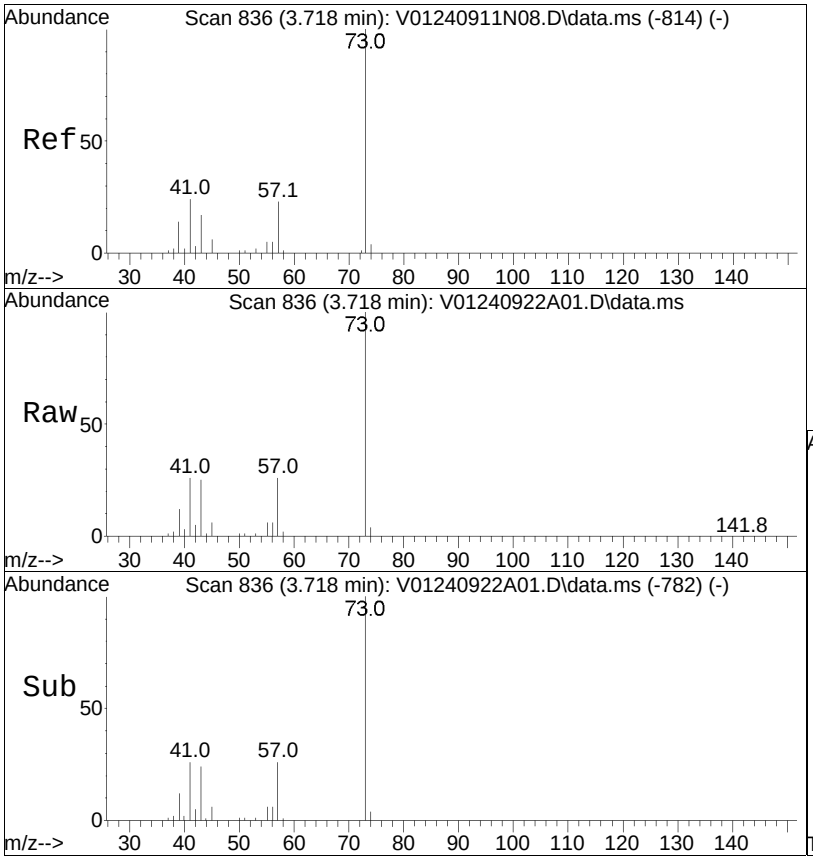


#19
Methyl acetate
Concen: 8.89 ug/L
RT: 3.629 min Scan# 804
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 43 Resp: 37790

Ion	Ratio	Lower	Upper
43	100		
74	21.2	18.2	27.2
59	22.6	18.2	27.2

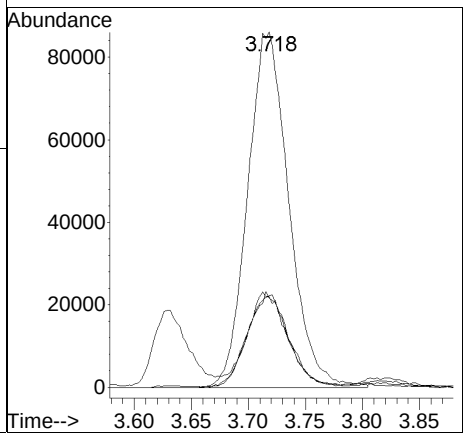


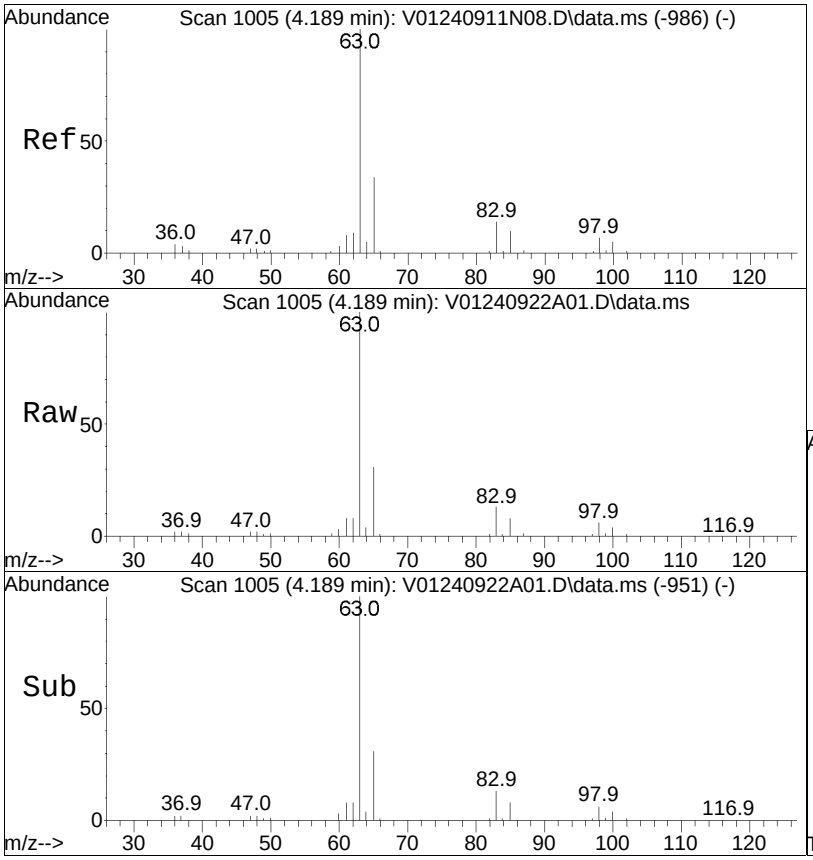


#20
Methyl tert-butyl ether
Concen: 9.02 ug/L
RT: 3.718 min Scan# 836
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 73 Resp: 216049

Ion	Ratio	Lower	Upper
73	100		
57	26.2	14.8	30.6
43	25.4	15.5	32.3
41	27.4	14.1	29.3

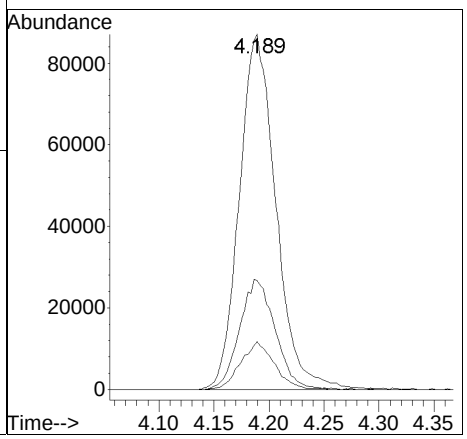


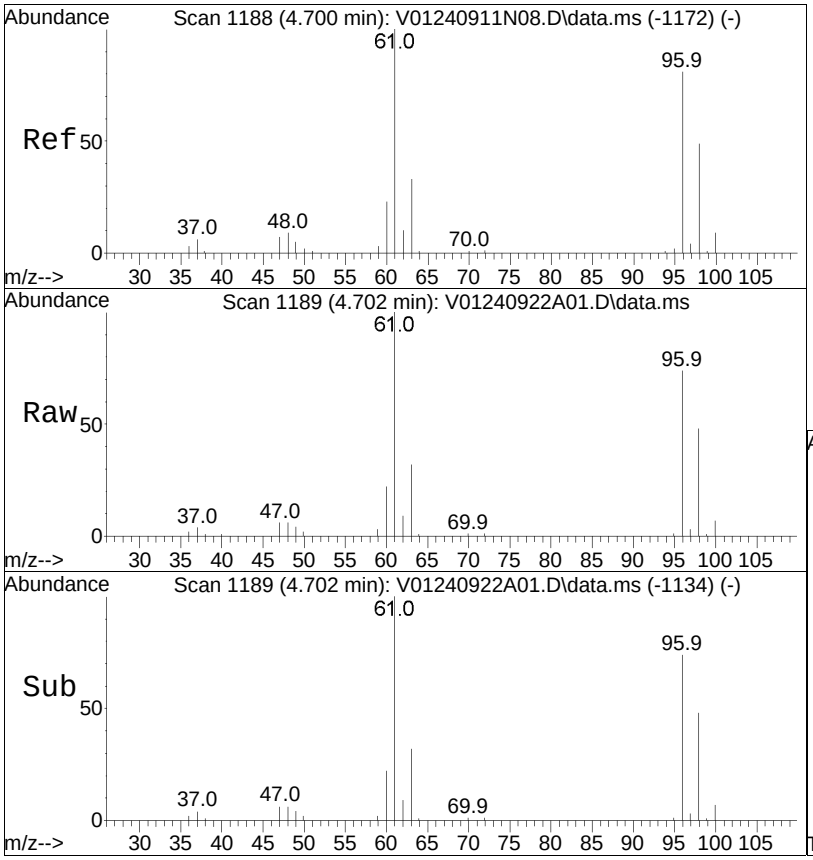


#23
1,1-Dichloroethane
Concen: 10.64 ug/L
RT: 4.189 min Scan# 1005
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 63 Resp: 200813

Ion	Ratio	Lower	Upper
63	100		
65	30.2	10.9	50.9
83	12.3	0.0	33.0

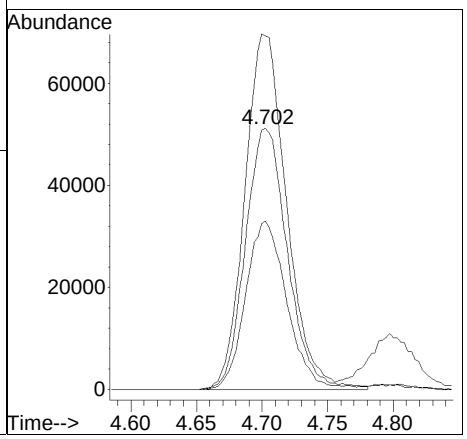


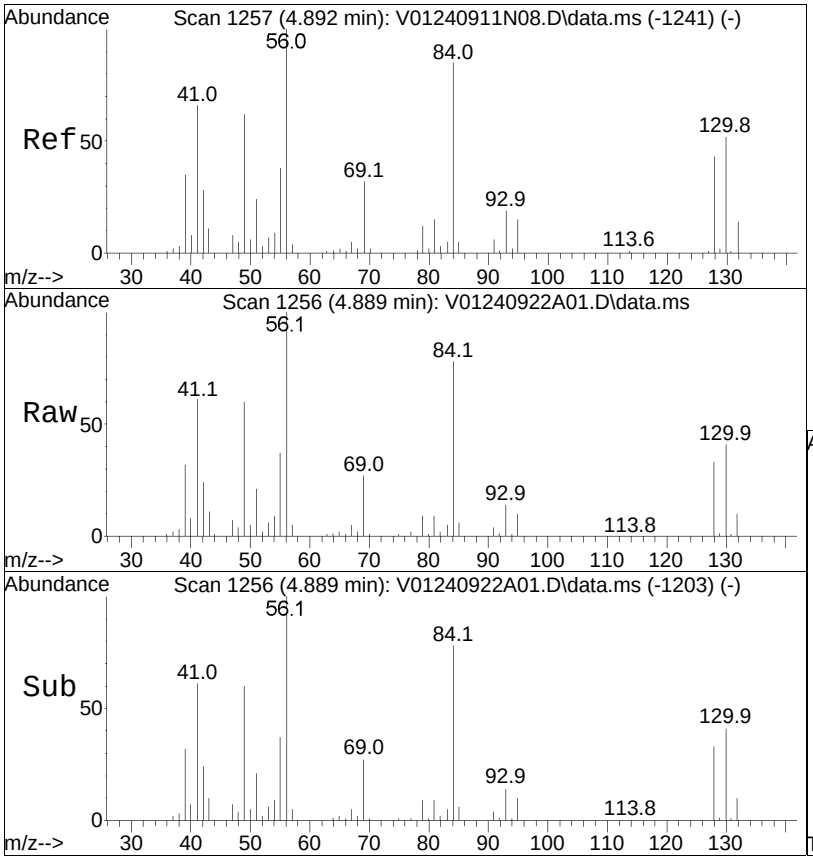


#28
cis-1,2-Dichloroethene
Concen: 9.83 ug/L
RT: 4.702 min Scan# 1189
Delta R.T. 0.002 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 96 Resp: 114173

Ion	Ratio	Lower	Upper
96	100		
61	133.8	105.8	158.6
98	62.8	51.1	76.7

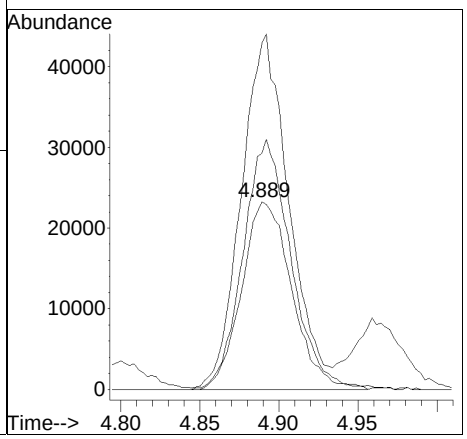


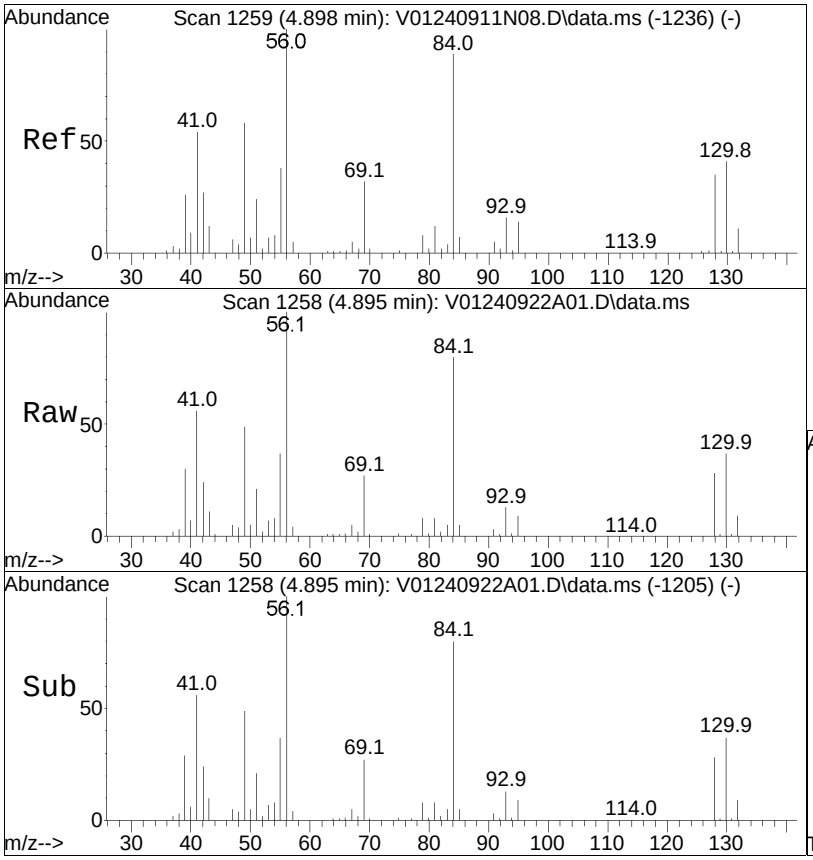


#30
Bromochloromethane
Concen: 9.75 ug/L
RT: 4.889 min Scan# 1256
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:128 Resp: 51160

Ion	Ratio	Lower	Upper
128	100		
49	178.6	140.4	210.6
130	128.2	103.1	154.7

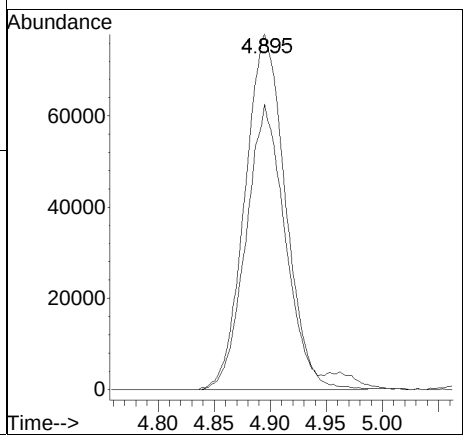


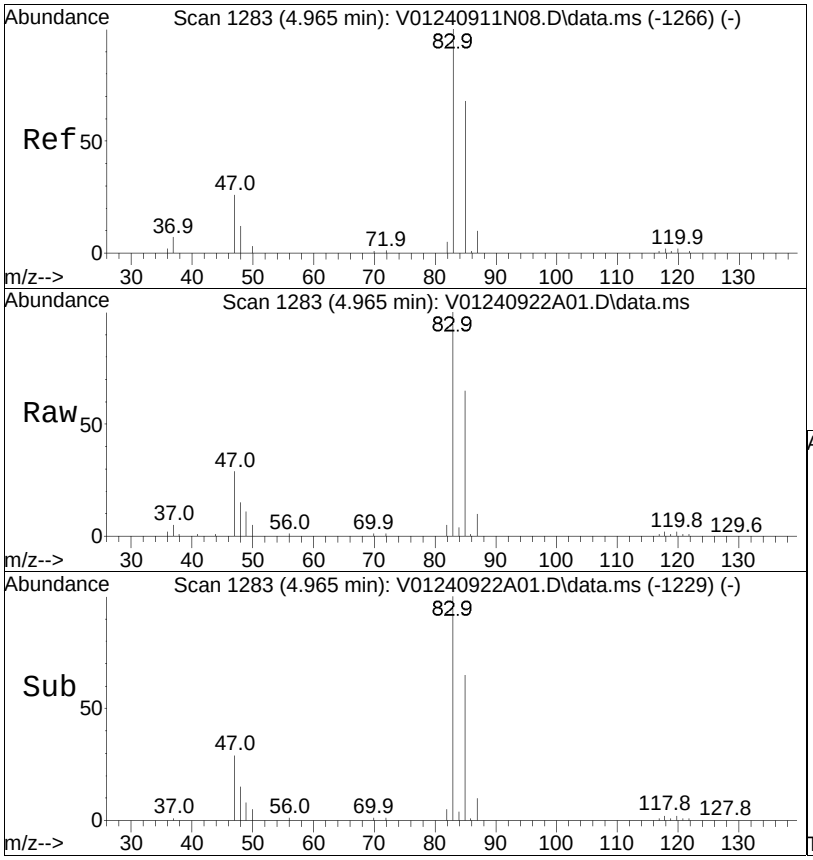


#31
Cyclohexane
Concen: 11.21 ug/L
RT: 4.895 min Scan# 1258
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 56 Resp: 196073

Ion	Ratio	Lower	Upper
56	100		
84	77.6	53.6	111.4

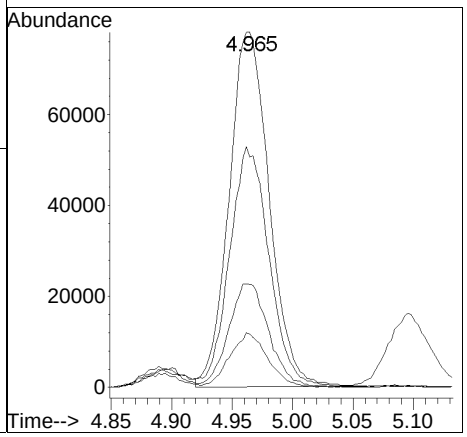


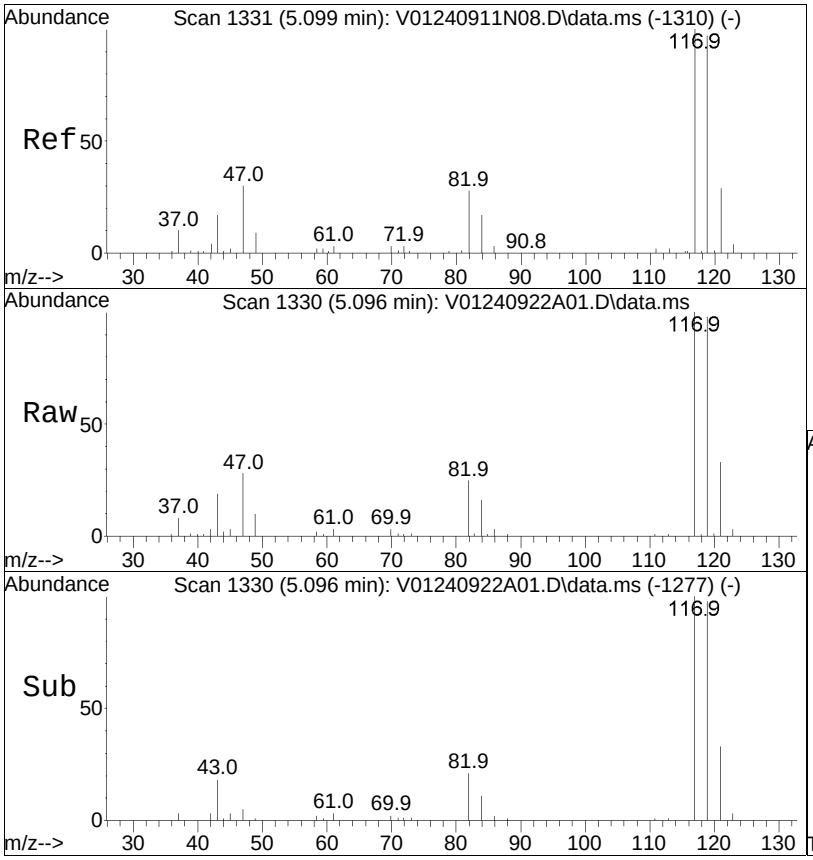


#32
Chloroform
Concen: 9.33 ug/L
RT: 4.965 min Scan# 1283
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 83 Resp: 180503

Ion	Ratio	Lower	Upper
83	100		
85	66.7	42.3	87.8
47	29.4	17.8	37.0
48	14.6	9.3	19.3

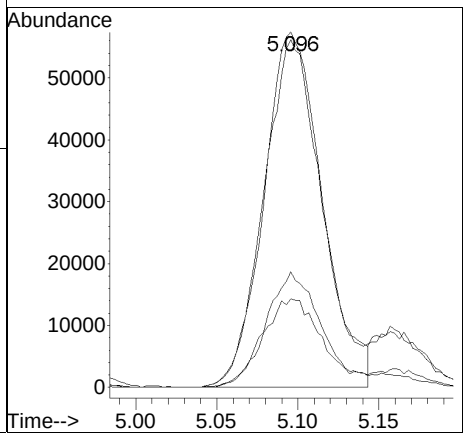


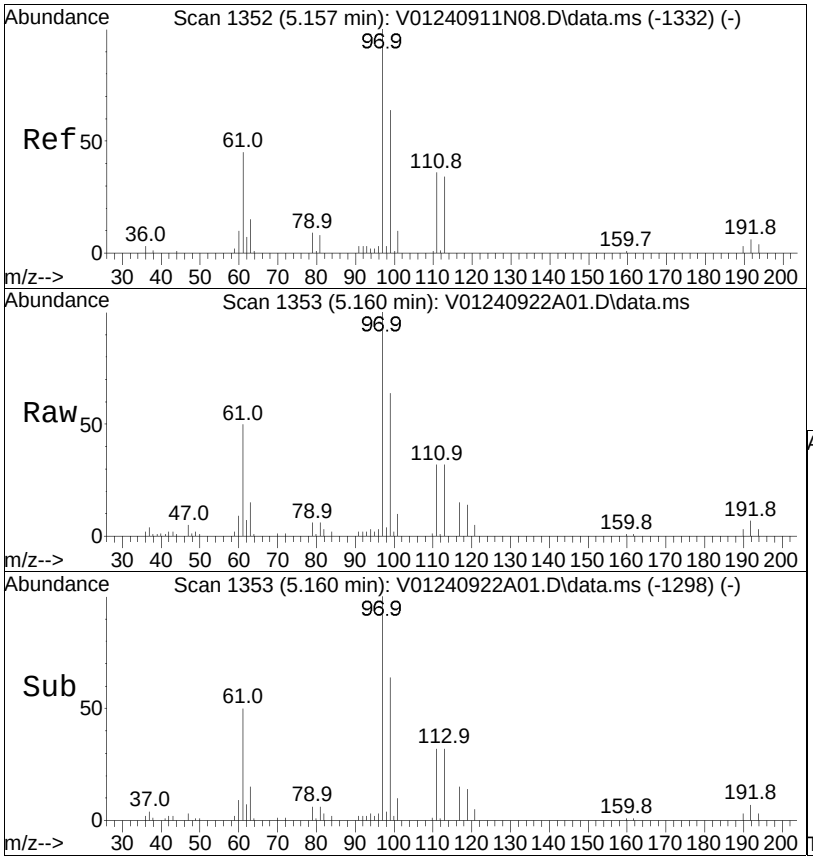


#34
Carbon tetrachloride
Concen: 9.42 ug/L
RT: 5.096 min Scan# 1330
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:117 Resp: 145457

Ion	Ratio	Lower	Upper
117	100		
119	95.1	62.1	128.9
121	31.0	19.8	41.0
82	25.5	17.1	35.5

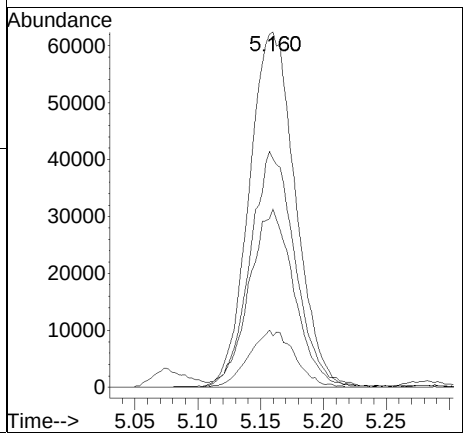


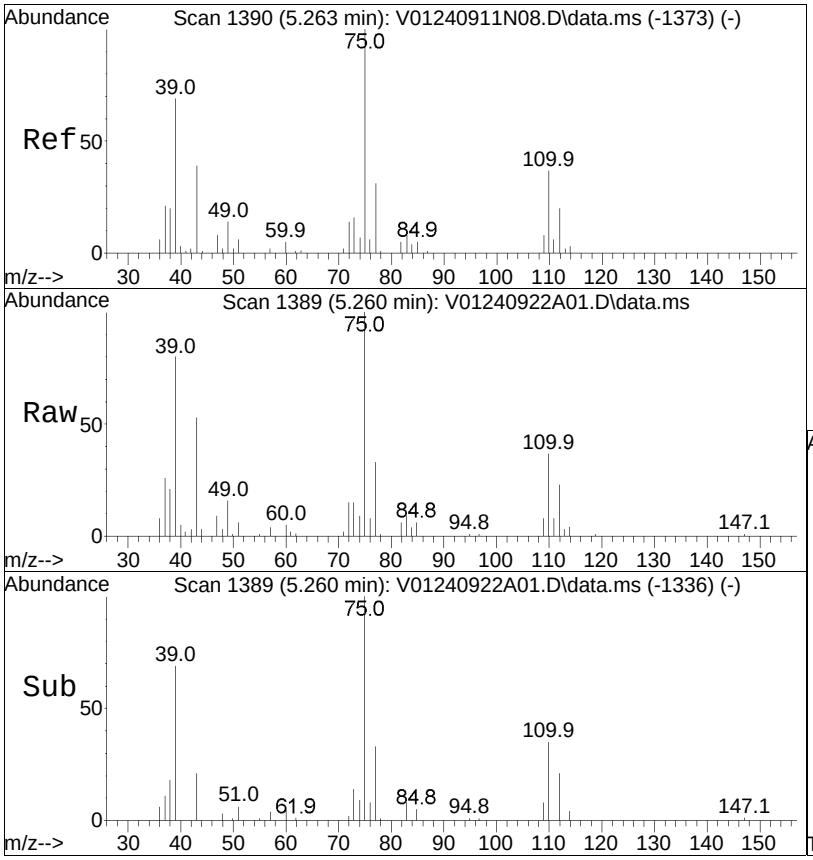


#37
1,1,1-Trichloroethane
Concen: 9.27 ug/L
RT: 5.160 min Scan# 1353
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 97 Resp: 160322

Ion	Ratio	Lower	Upper
97	100		
99	64.3	41.7	86.7
61	48.3	29.4	61.2
63	15.9	9.4	19.4

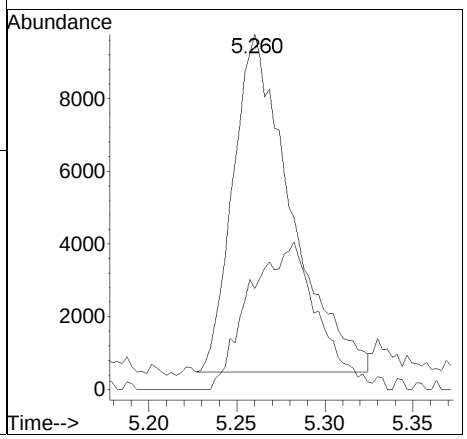


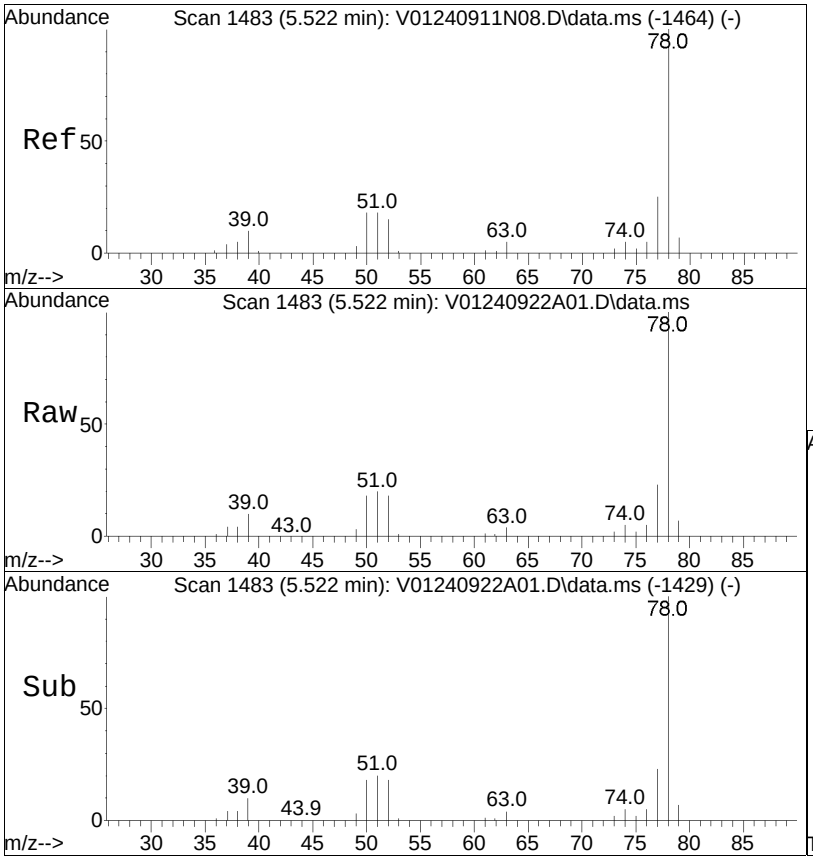


#39
2-Butanone
Concen: 8.52 ug/L
RT: 5.260 min Scan# 1389
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 43 Resp: 21187

Ion	Ratio	Lower	Upper
43	100		
72	21.7	45.8	68.6#

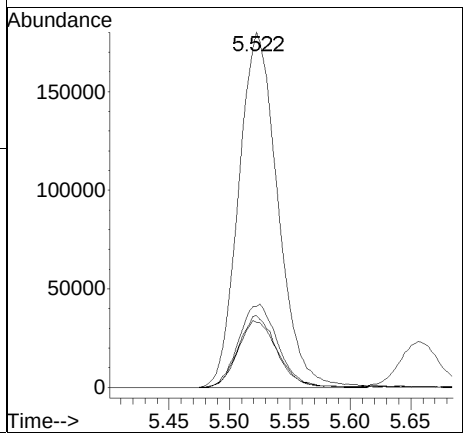


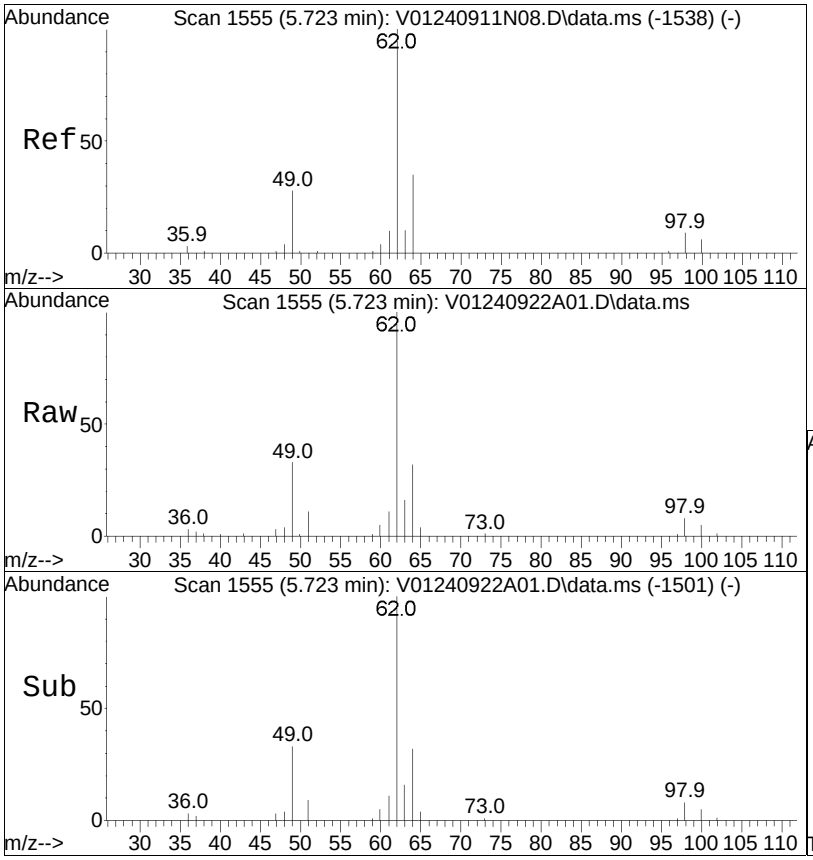


#41
Benzene
Concen: 9.61 ug/L
RT: 5.522 min Scan# 1483
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 78 Resp: 405447

Ion	Ratio	Lower	Upper
78	100		
77	23.4	15.7	32.5
51	19.9	11.6	24.2
52	18.8	10.9	22.5

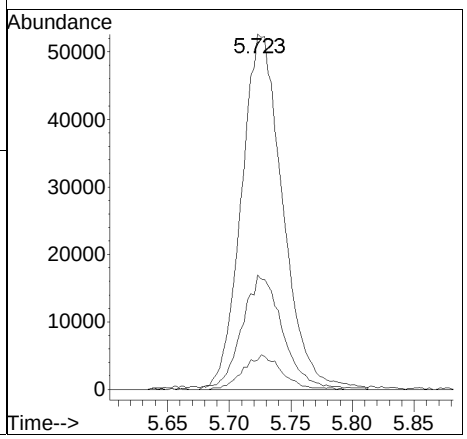


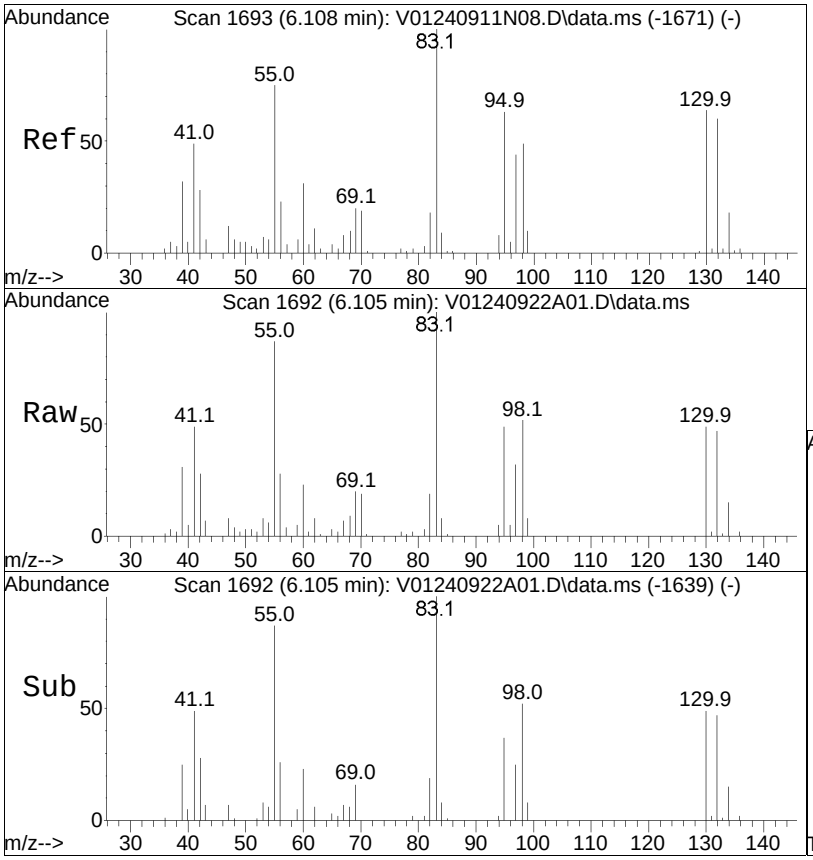


#44
1,2-Dichloroethane
Concen: 9.72 ug/L
RT: 5.723 min Scan# 1555
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 62 Resp: 122742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	12.1	52.1
98	9.1	0.0	28.8

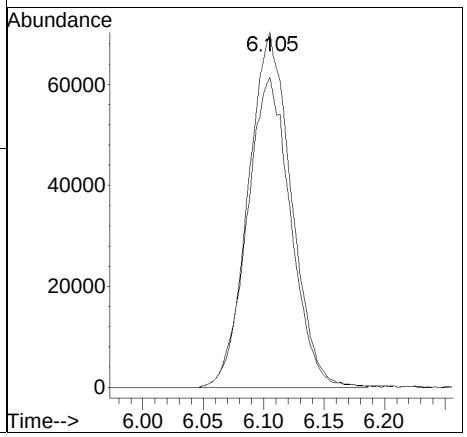


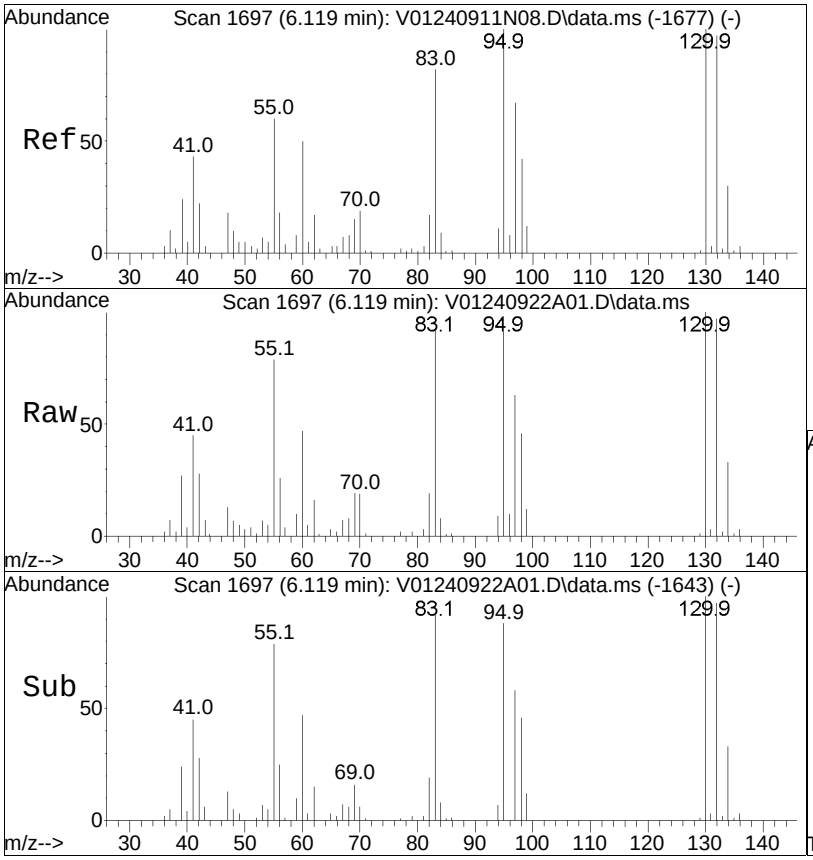


#47
Methyl cyclohexane
Concen: 9.37 ug/L
RT: 6.105 min Scan# 1692
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 83 Resp: 174456

Ion	Ratio	Lower	Upper
83	100		
55	88.1	64.6	96.8

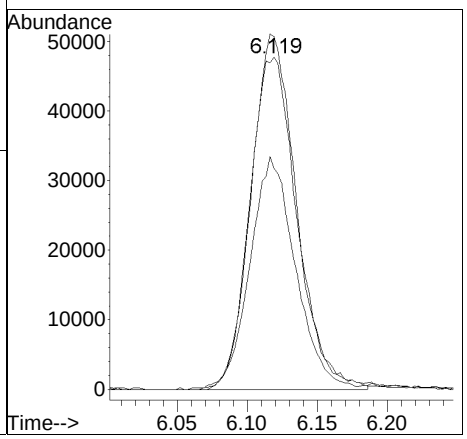


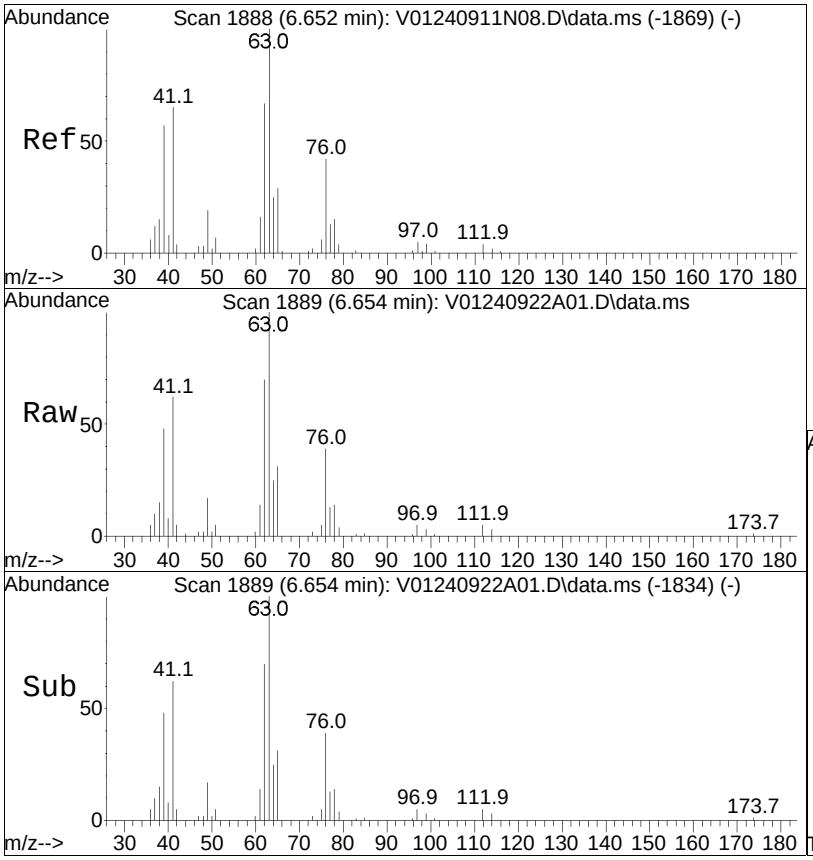


#48
Trichloroethene
Concen: 9.34 ug/L
RT: 6.119 min Scan# 1697
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 95 Resp: 111253

Ion	Ratio	Lower	Upper
95	100		
97	68.0	54.4	81.6
130	104.2	80.6	120.8

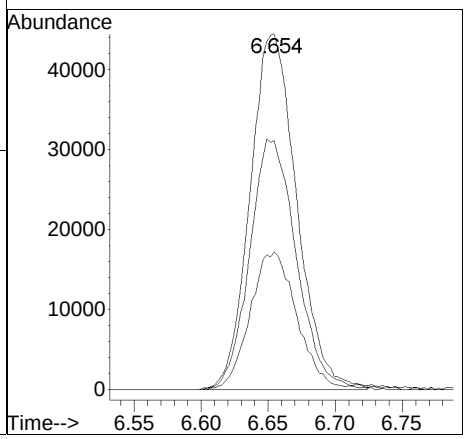


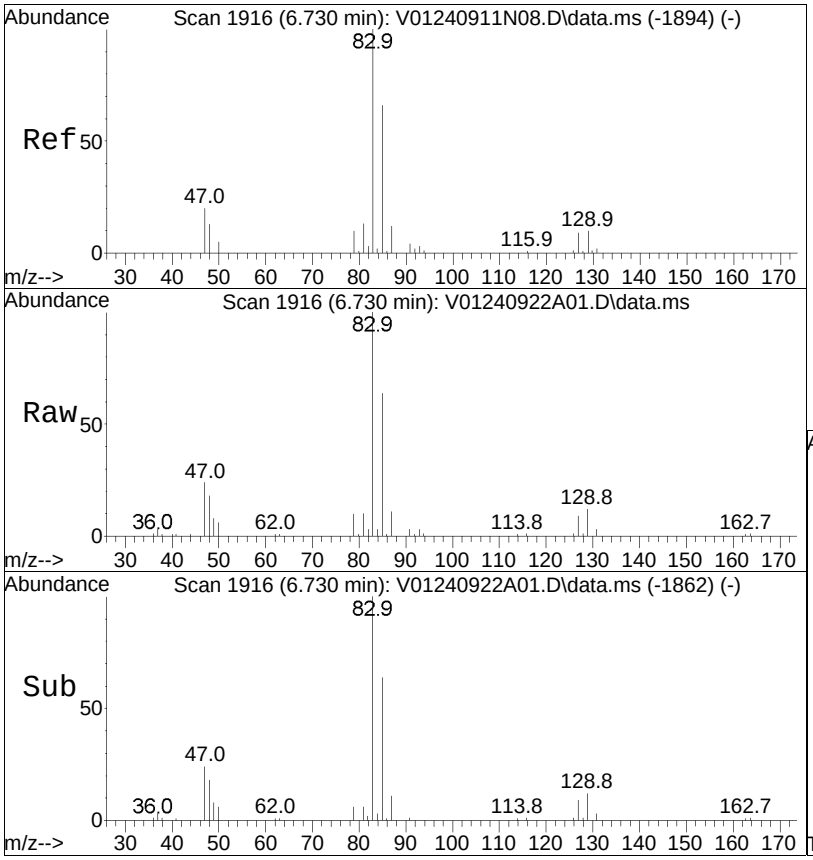


#51
1,2-Dichloropropane
Concen: 10.47 ug/L
RT: 6.654 min Scan# 1889
Delta R.T. 0.002 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 63 Resp: 107742

Ion	Ratio	Lower	Upper
63	100		
62	70.1	57.2	85.8
76	38.6	33.6	50.4

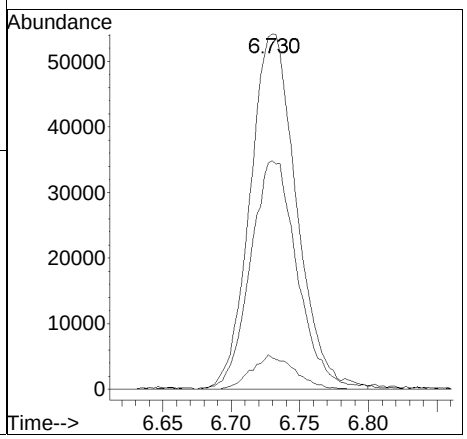


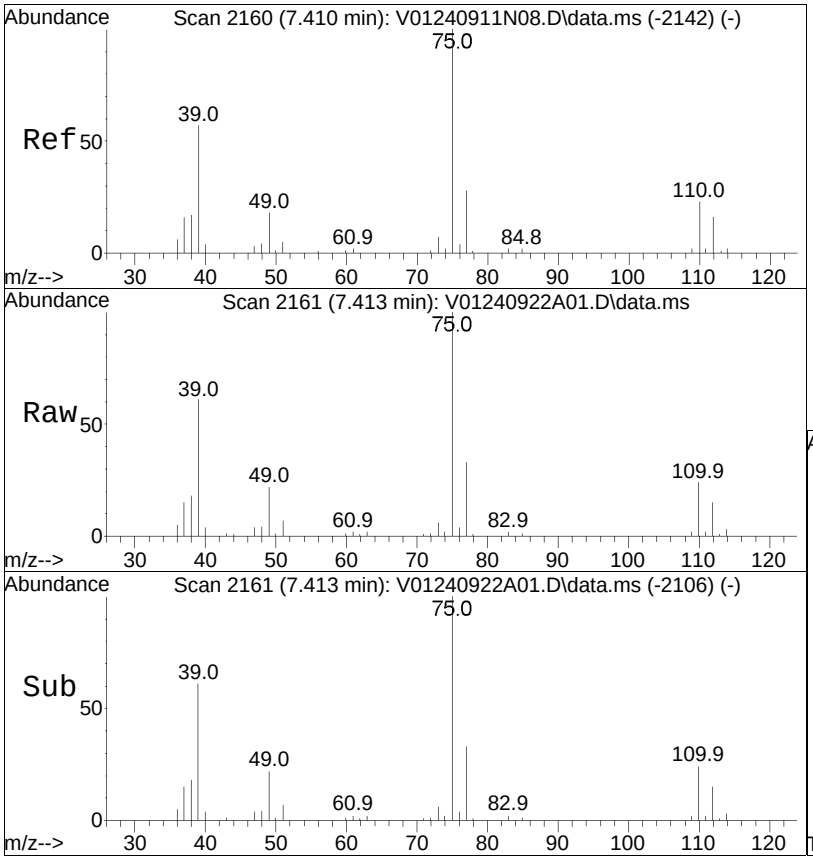


#54
Bromodichloromethane
Concen: 9.14 ug/L
RT: 6.730 min Scan# 1916
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 83 Resp: 128196

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4
127	9.0	6.9	10.3

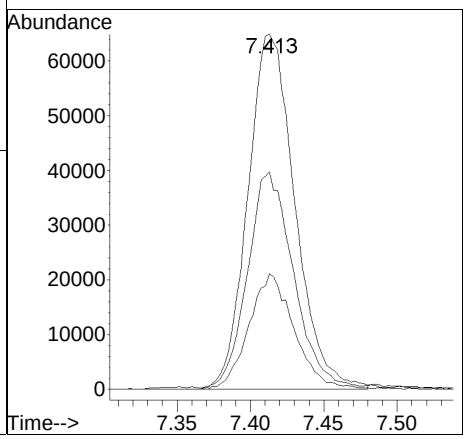


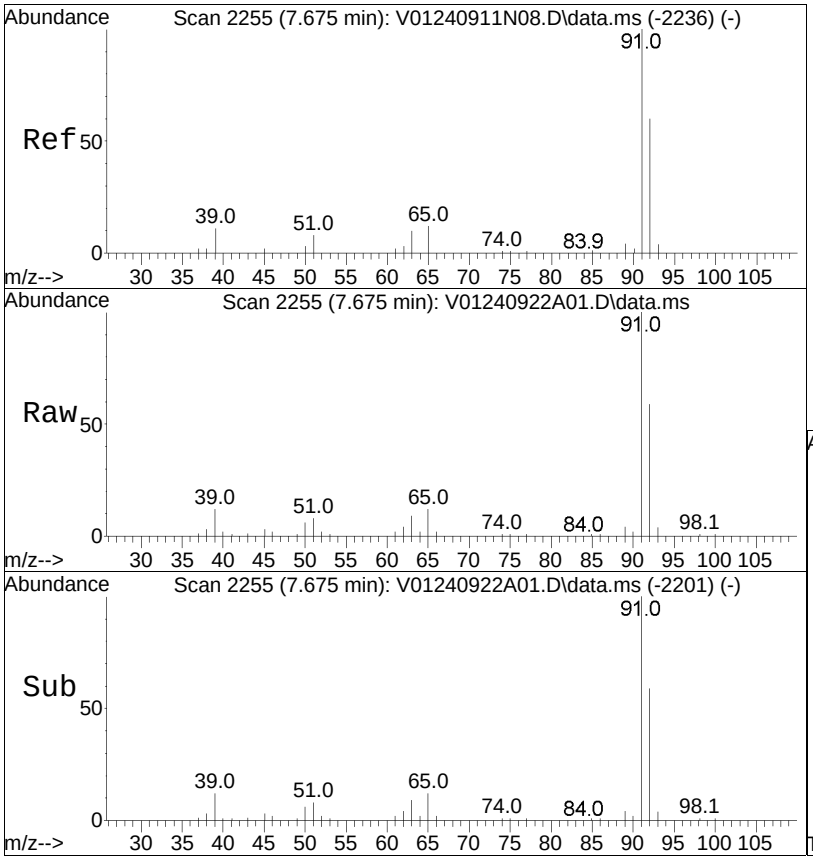


#58
cis-1,3-Dichloropropene
Concen: 9.45 ug/L
RT: 7.413 min Scan# 2161
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 75 Resp: 145105

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.1	37.7
39	59.1	42.6	63.8

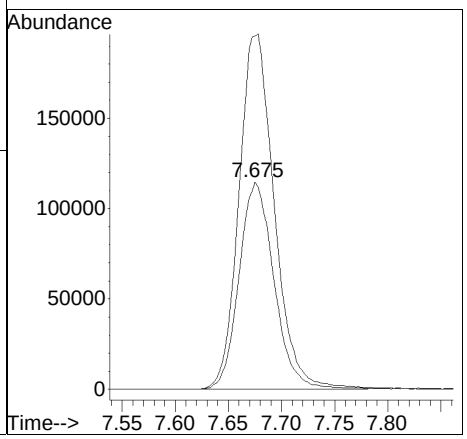


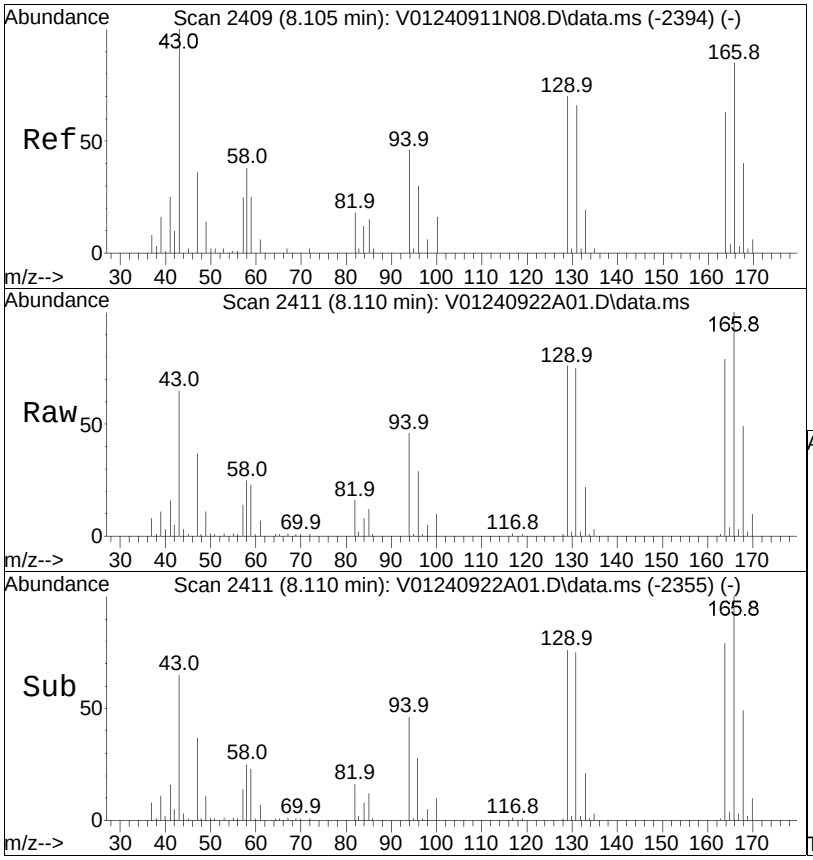


#61
Toluene
Concen: 9.49 ug/L
RT: 7.675 min Scan# 2255
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 92 Resp: 263131

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.5	206.3

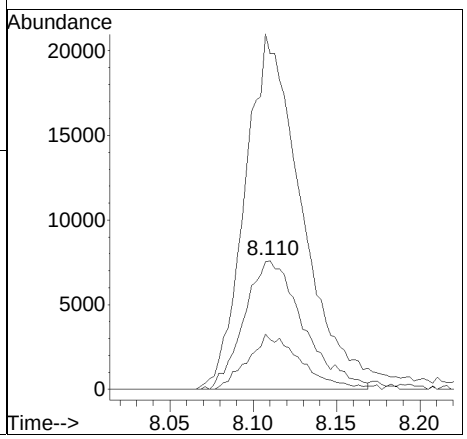


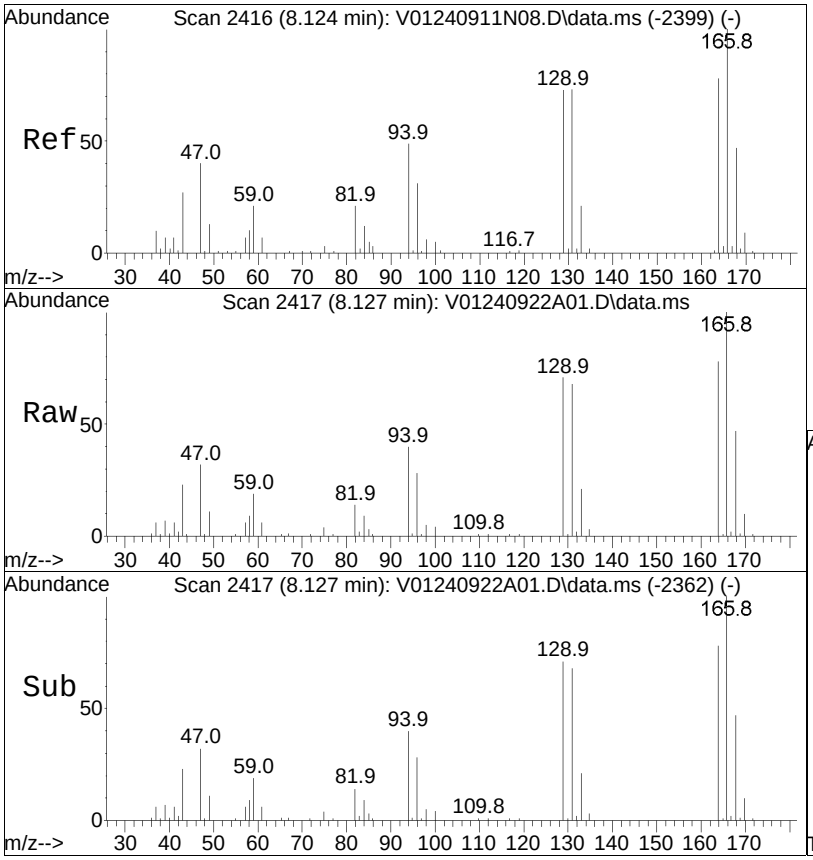


#62
4-Methyl-2-pentanone
Concen: 9.65 ug/L
RT: 8.110 min Scan# 2411
Delta R.T. 0.005 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 58 Resp: 18809

Ion	Ratio	Lower	Upper
58	100		
100	38.8	31.8	47.6
43	272.3	212.5	318.7

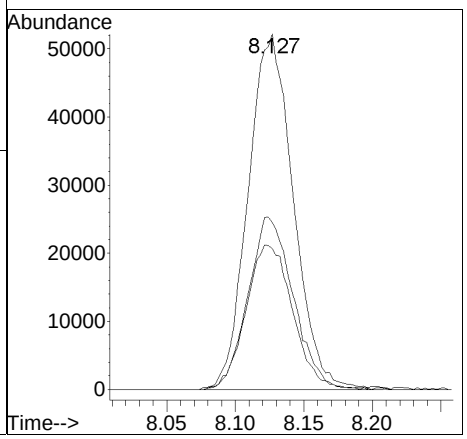


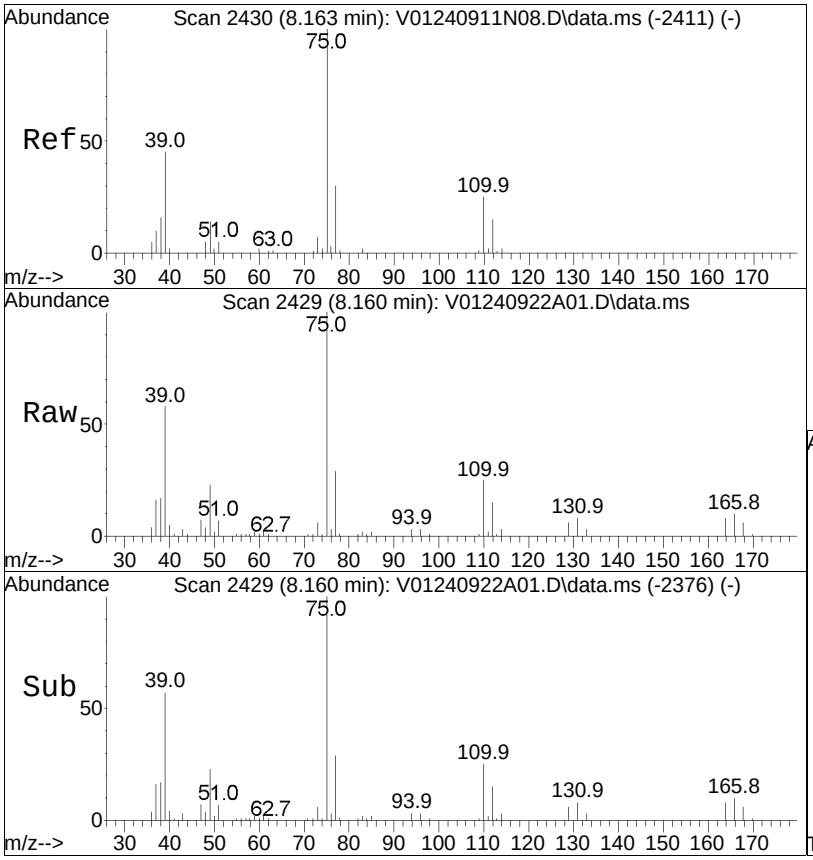


#63
Tetrachloroethene
Concen: 10.66 ug/L
RT: 8.127 min Scan# 2417
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:166 Resp: 119532

Ion	Ratio	Lower	Upper
166	100		
168	48.4	27.4	67.4
94	41.9	24.8	64.8

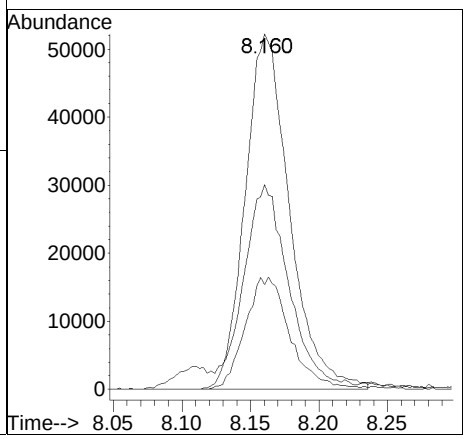


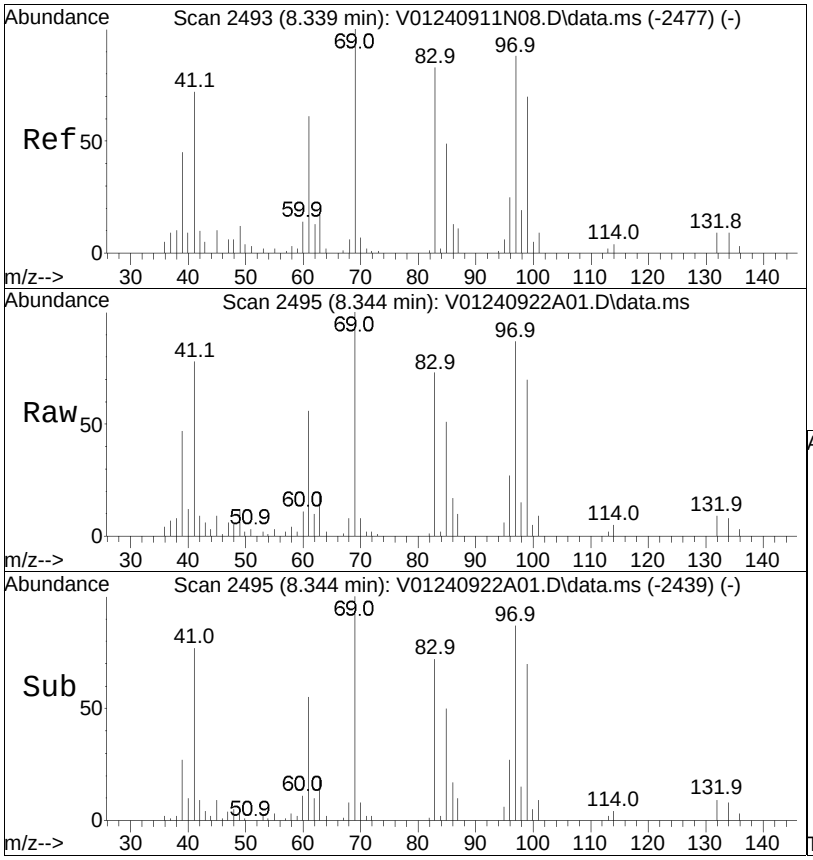


#65
trans-1,3-Dichloropropene
Concen: 9.47 ug/L
RT: 8.160 min Scan# 2429
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 75 Resp: 117861

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.8	51.8
39	56.5	30.2	70.2

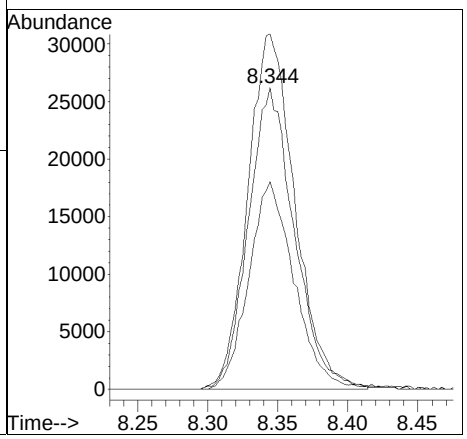


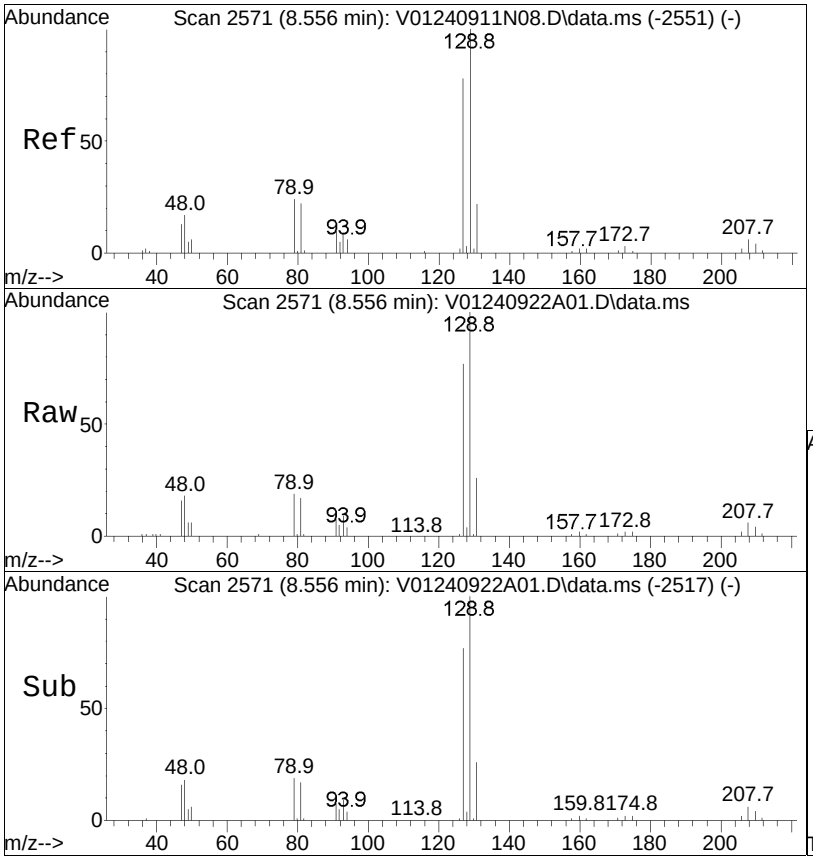


#68
1,1,2-Trichloroethane
Concen: 9.40 ug/L
RT: 8.344 min Scan# 2495
Delta R.T. 0.005 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 83 Resp: 60027

Ion	Ratio	Lower	Upper
83	100		
97	120.6	96.7	136.7
85	67.8	45.3	85.3

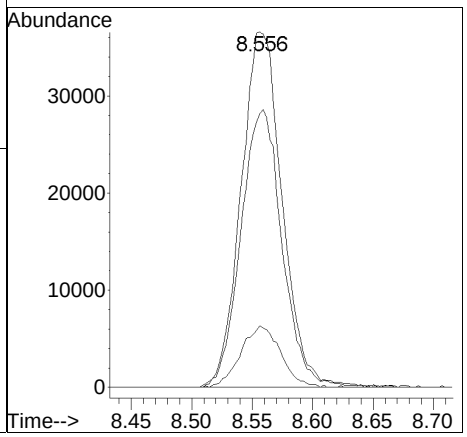


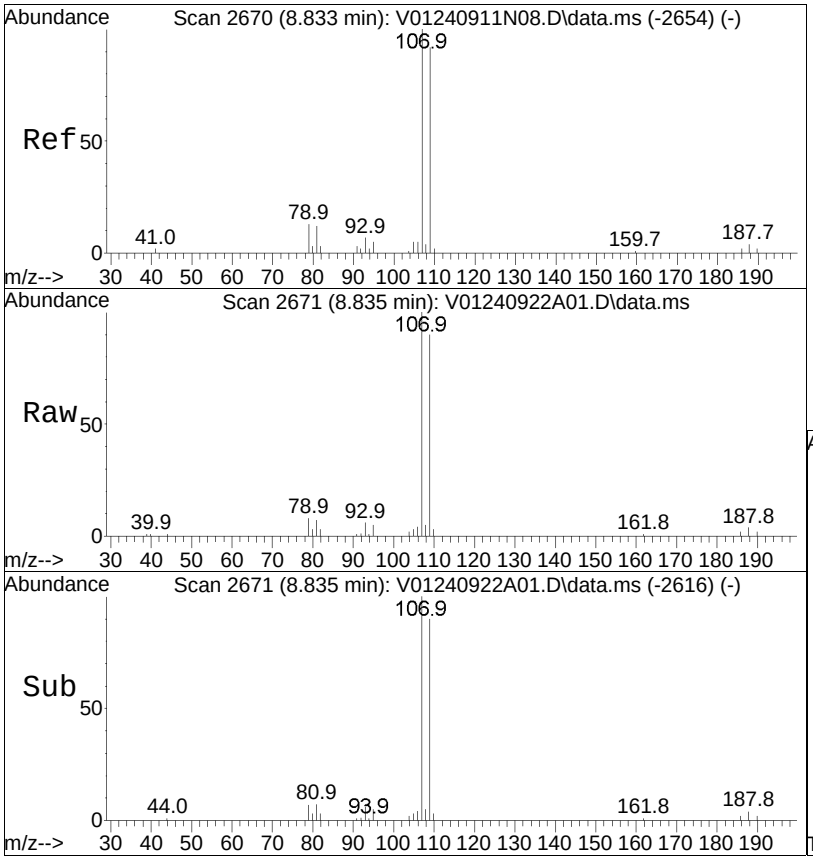


#69
Chlorodibromomethane
Concen: 9.44 ug/L
RT: 8.556 min Scan# 2571
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:129 Resp: 86824

Ion	Ratio	Lower	Upper
129	100		
81	16.8	0.0	37.9
127	78.1	56.6	96.6

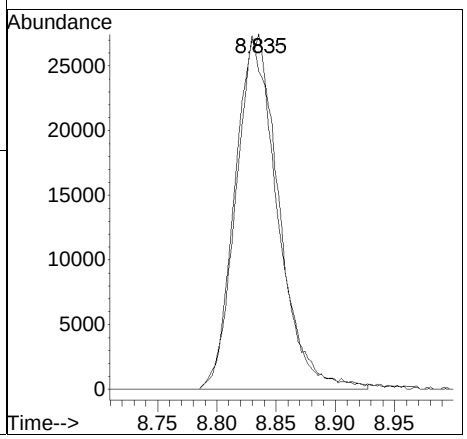


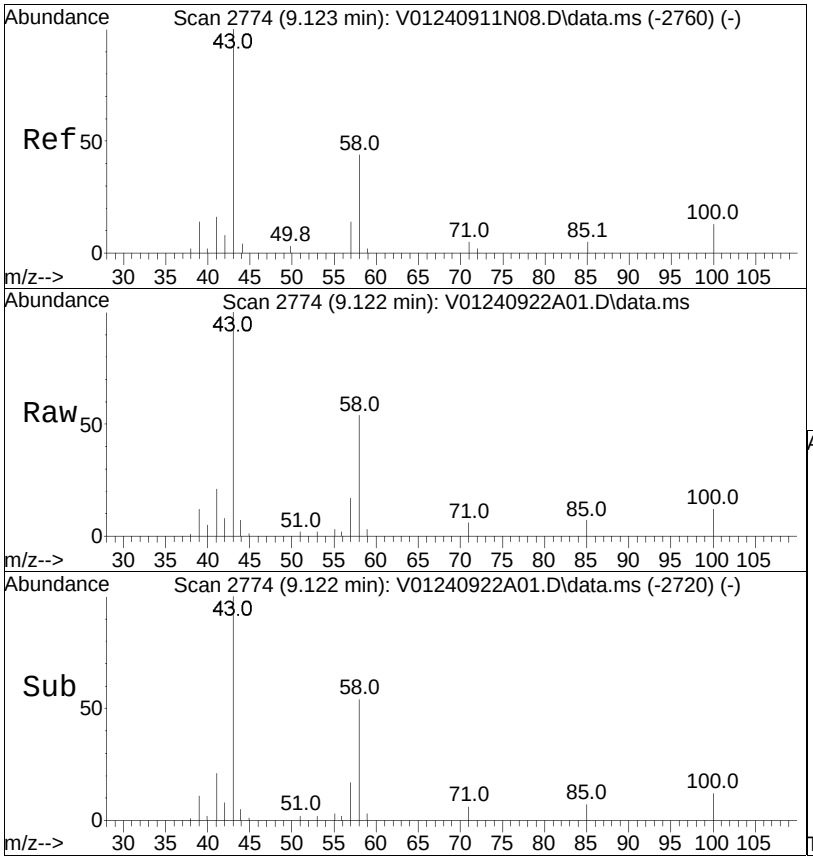


#71
1,2-Dibromoethane
Concen: 9.98 ug/L
RT: 8.835 min Scan# 2671
Delta R.T. 0.002 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:107 Resp: 71184

Ion	Ratio	Lower	Upper
107	100		
109	92.2	75.6	113.4

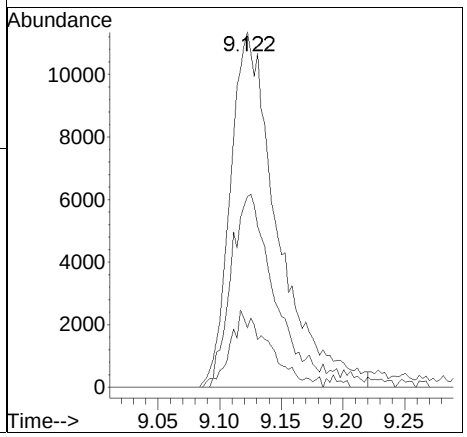


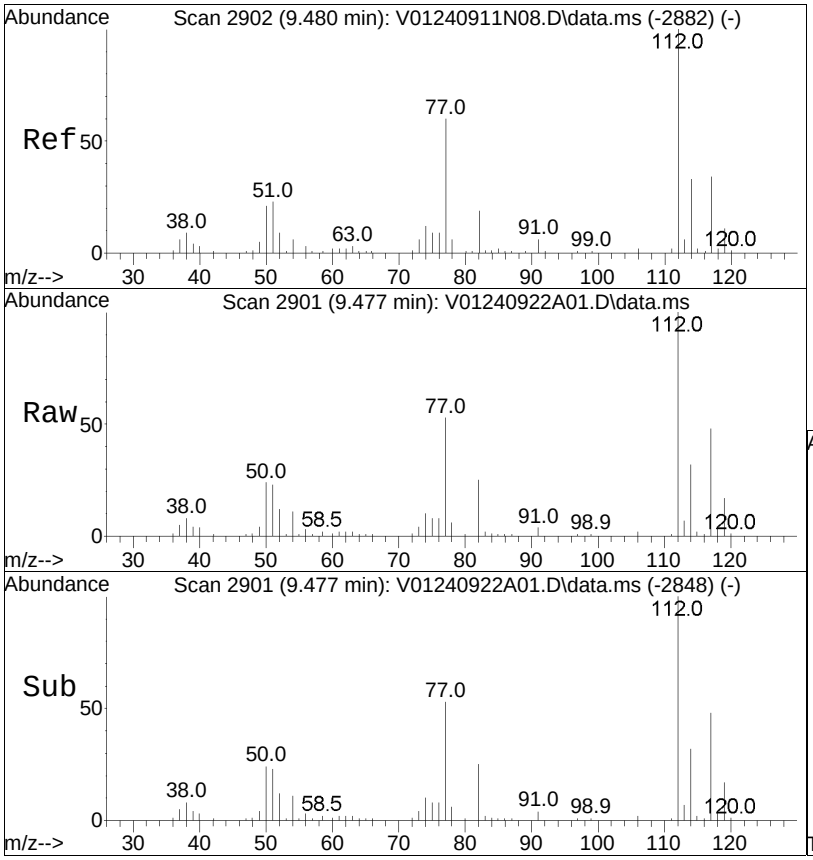


#72
2-Hexanone
Concen: 8.68 ug/L
RT: 9.122 min Scan# 2774
Delta R.T. -0.001 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 43 Resp: 30400

Ion	Ratio	Lower	Upper
43	100		
58	50.0	40.8	61.2
57	17.2	14.2	21.4

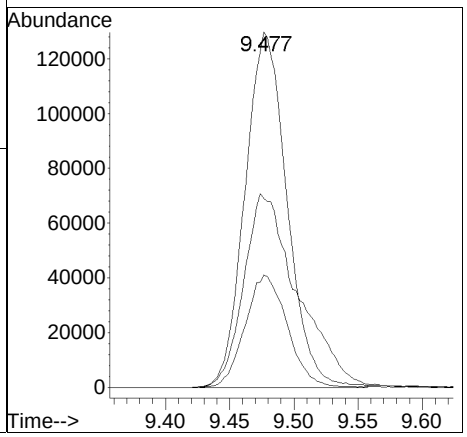


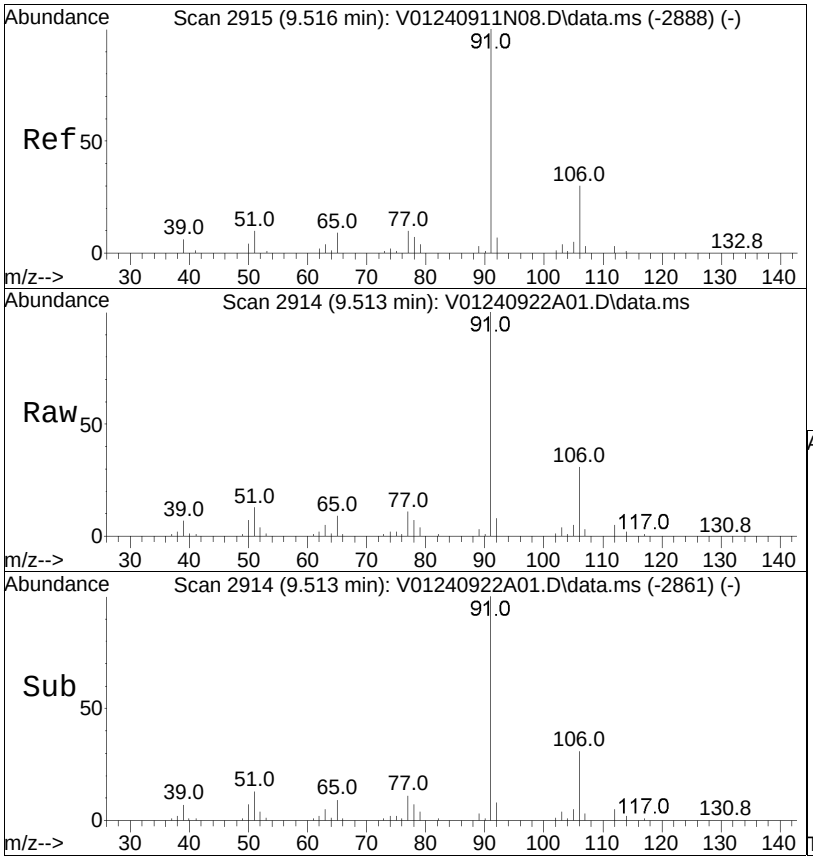


#73
Chlorobenzene
Concen: 9.56 ug/L
RT: 9.477 min Scan# 2901
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:112 Resp: 294555

Ion	Ratio	Lower	Upper
112	100		
77	70.5	59.8	89.6
114	31.8	25.4	38.2

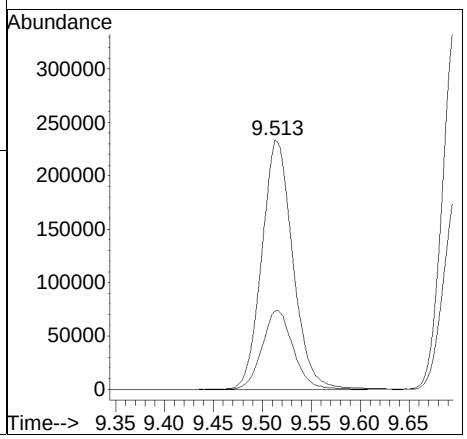


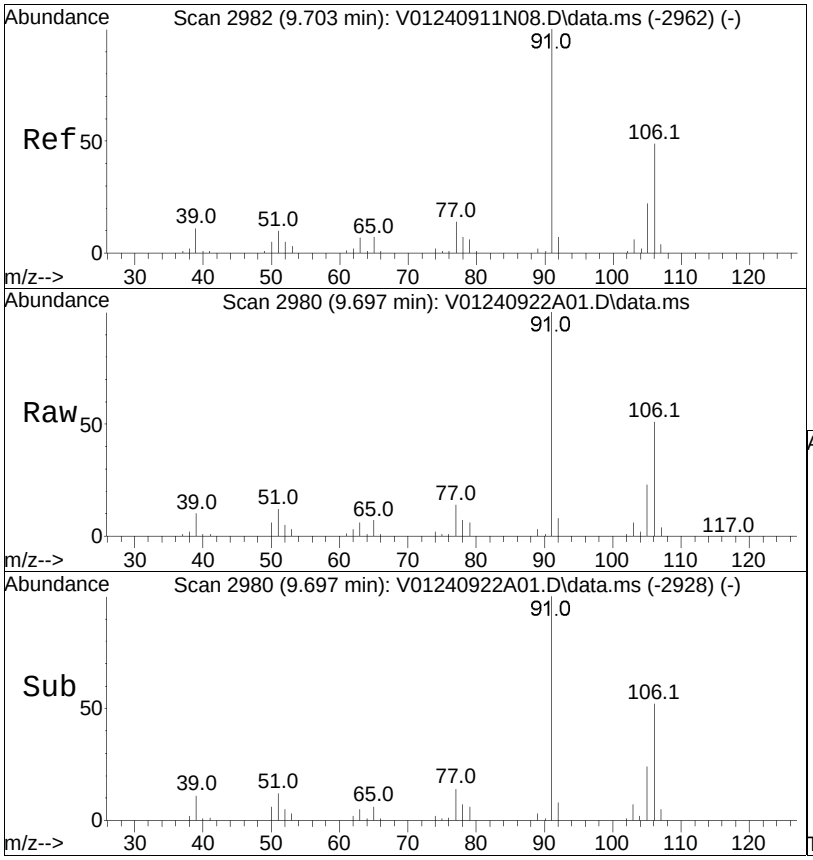


#74
Ethylbenzene
Concen: 9.33 ug/L
RT: 9.513 min Scan# 2914
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 91 Resp: 515652

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.7	37.1

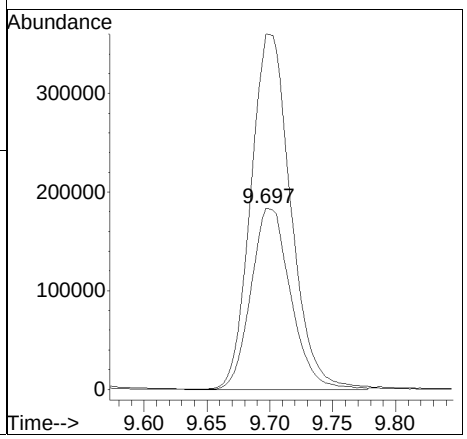


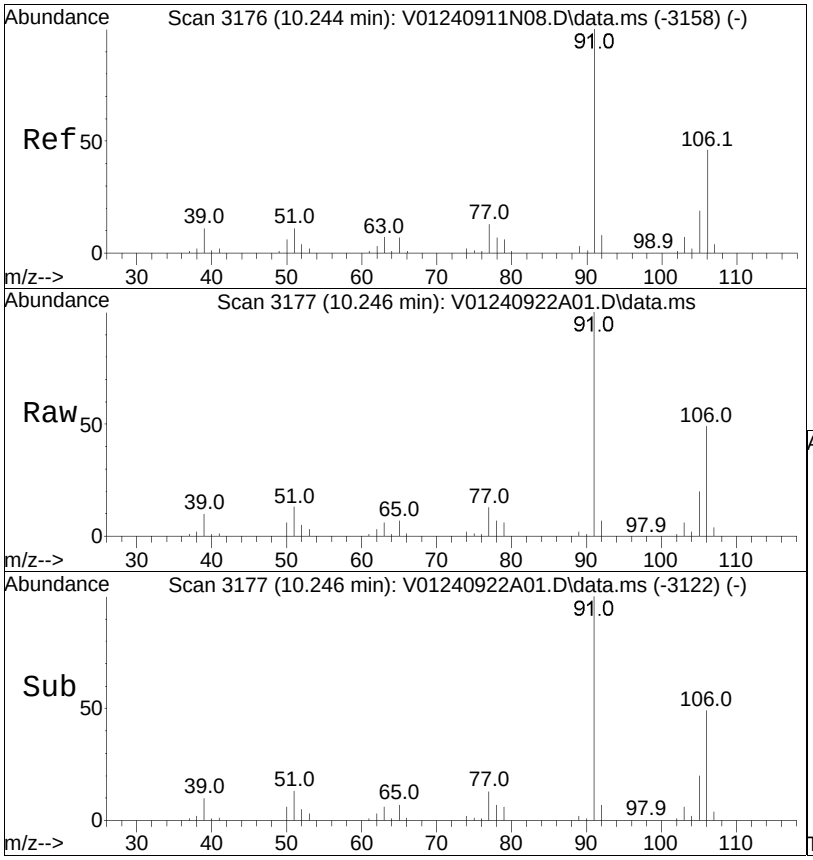


#76
p/m Xylene
Concen: 17.86 ug/L
RT: 9.697 min Scan# 2980
Delta R.T. -0.006 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:106 Resp: 403478

Ion	Ratio	Lower	Upper
106	100		
91	197.4	162.9	244.3

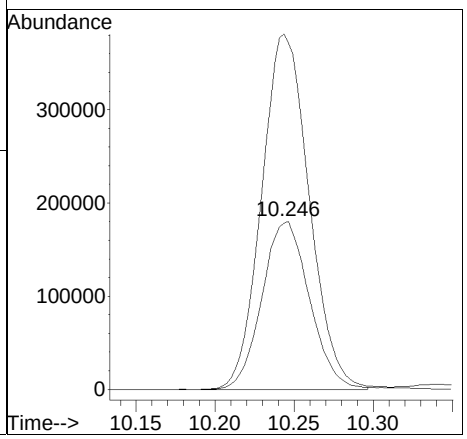


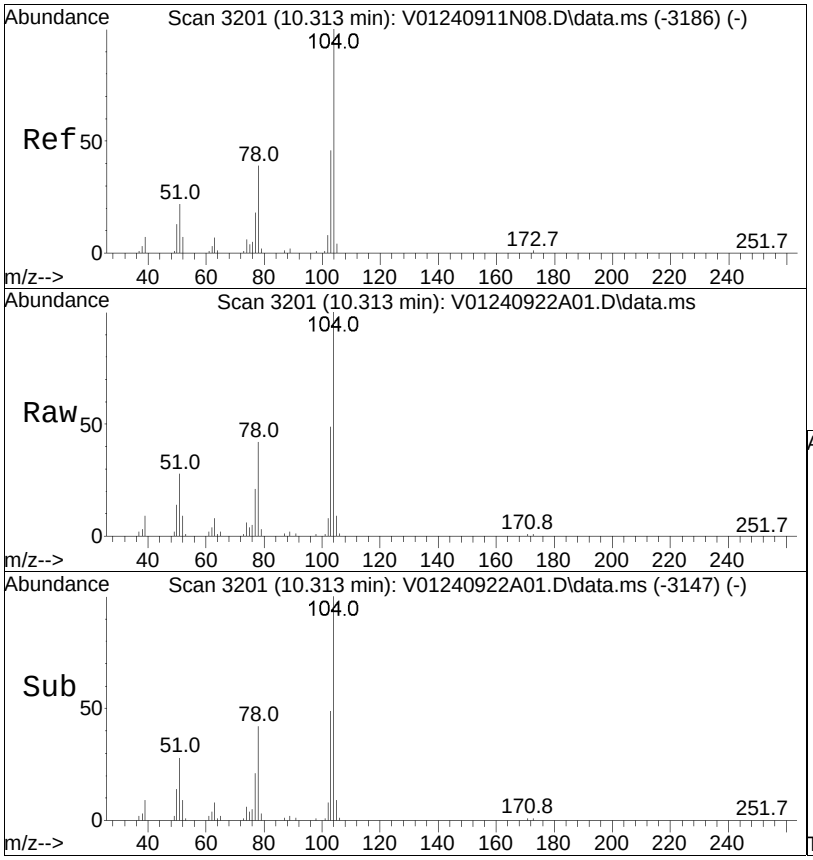


#77
o Xylene
Concen: 17.47 ug/L
RT: 10.246 min Scan# 3177
Delta R.T. 0.002 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:106 Resp: 375965

Ion	Ratio	Lower	Upper
106	100		
91	212.7	171.2	256.8

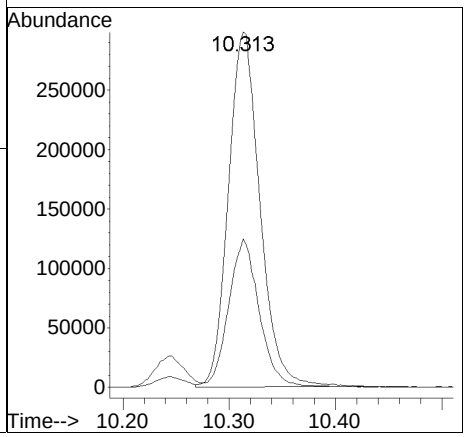


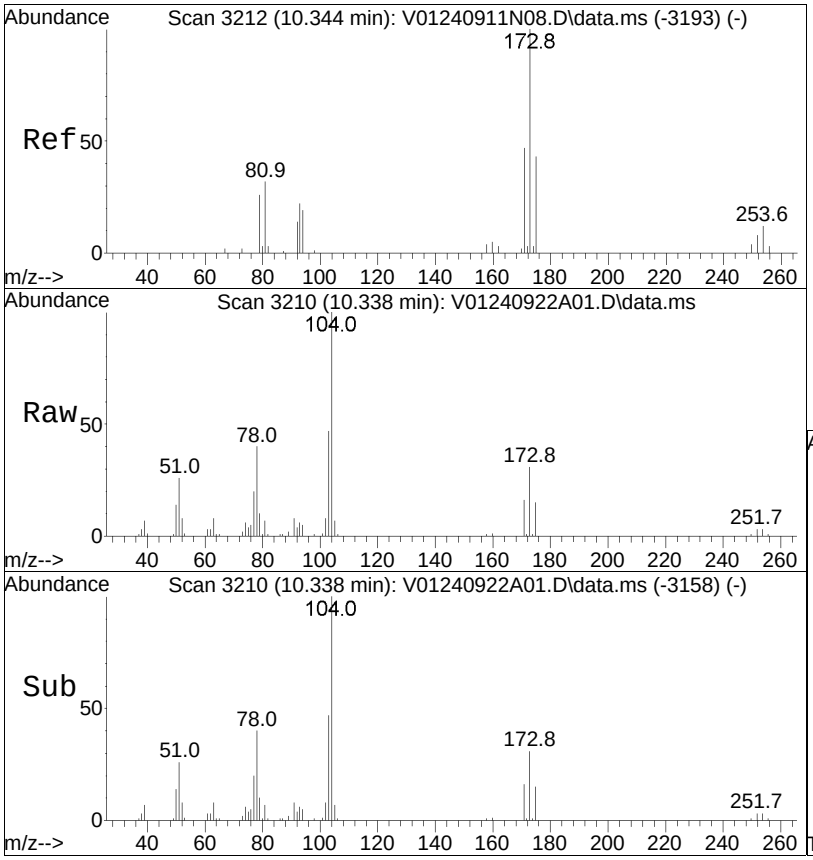


#78
Styrene
Concen: 17.72 ug/L
RT: 10.313 min Scan# 3201
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:104 Resp: 616127

Ion	Ratio	Lower	Upper
104	100		
78	40.4	34.2	51.4

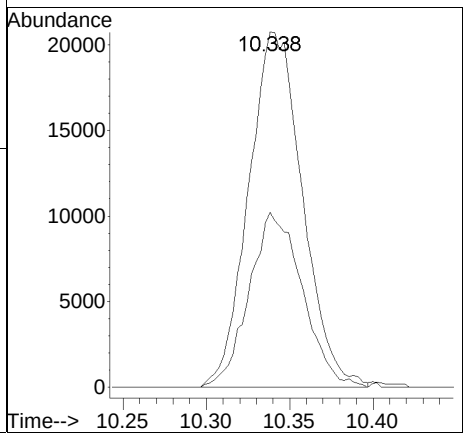


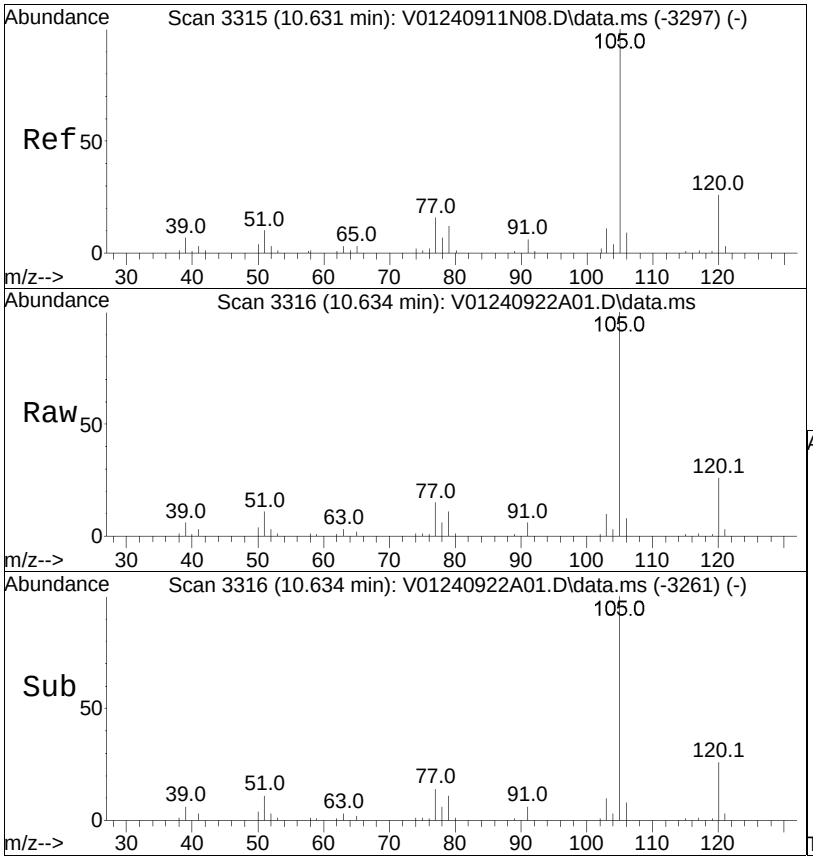


#80
Bromoform
Concen: 8.37 ug/L
RT: 10.338 min Scan# 3210
Delta R.T. -0.006 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:173 Resp: 46723

Ion	Ratio	Lower	Upper
173	100		
175	48.6	28.6	68.6

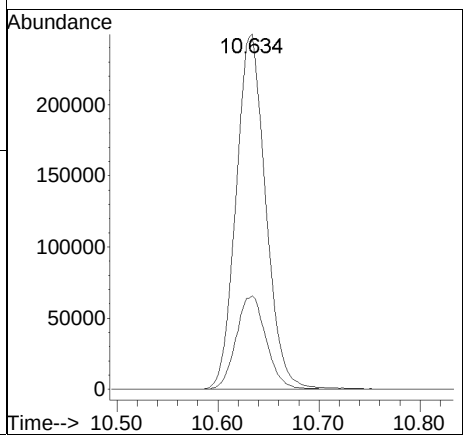


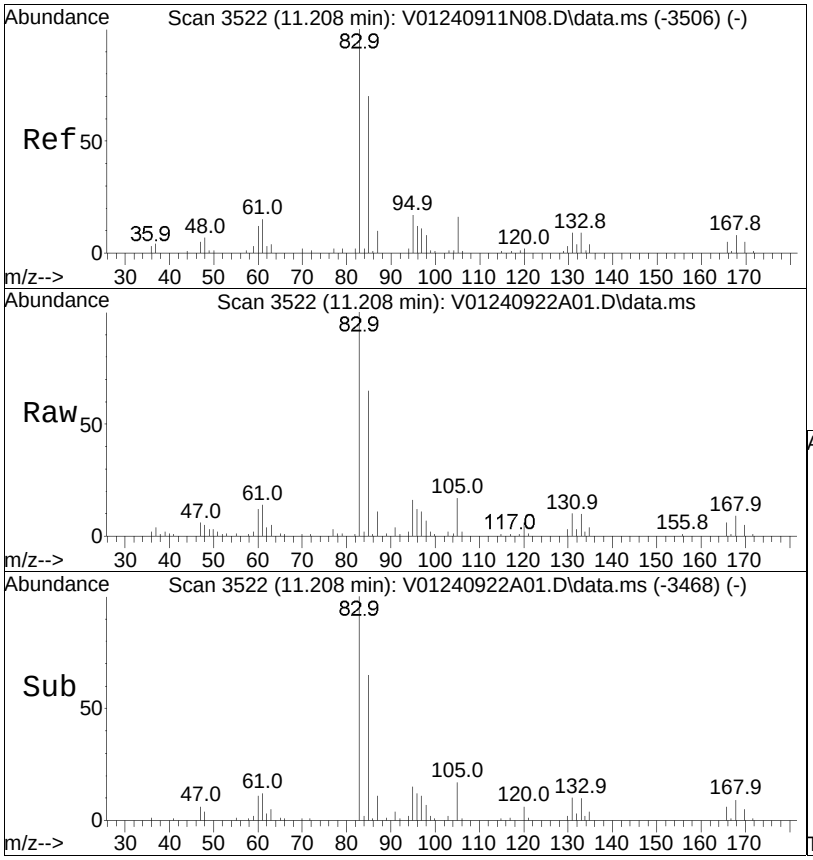


#82
Isopropylbenzene
Concen: 8.97 ug/L
RT: 10.634 min Scan# 3316
Delta R.T. 0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:105 Resp: 509924

Ion	Ratio	Lower	Upper
105	100		
120	26.7	7.3	47.3

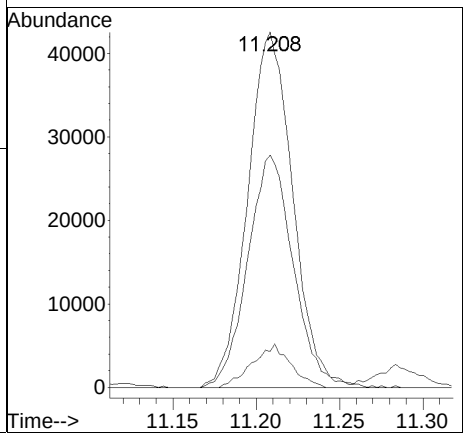


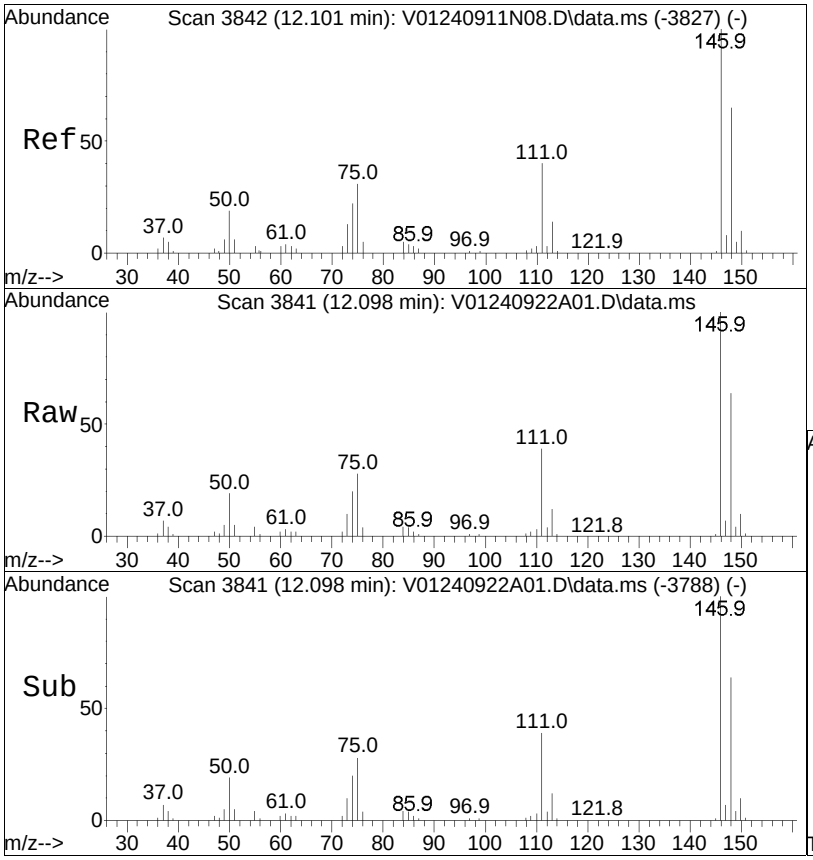


#87
1,1,2,2-Tetrachloroethane
Concen: 8.95 ug/L
RT: 11.208 min Scan# 3522
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion: 83 Resp: 80013

Ion	Ratio	Lower	Upper
83	100		
131	10.4	0.0	30.1
85	66.1	45.8	85.8

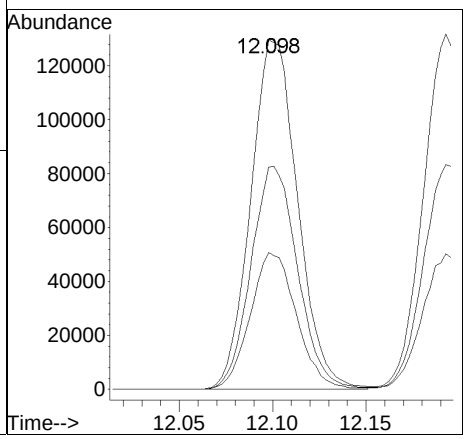


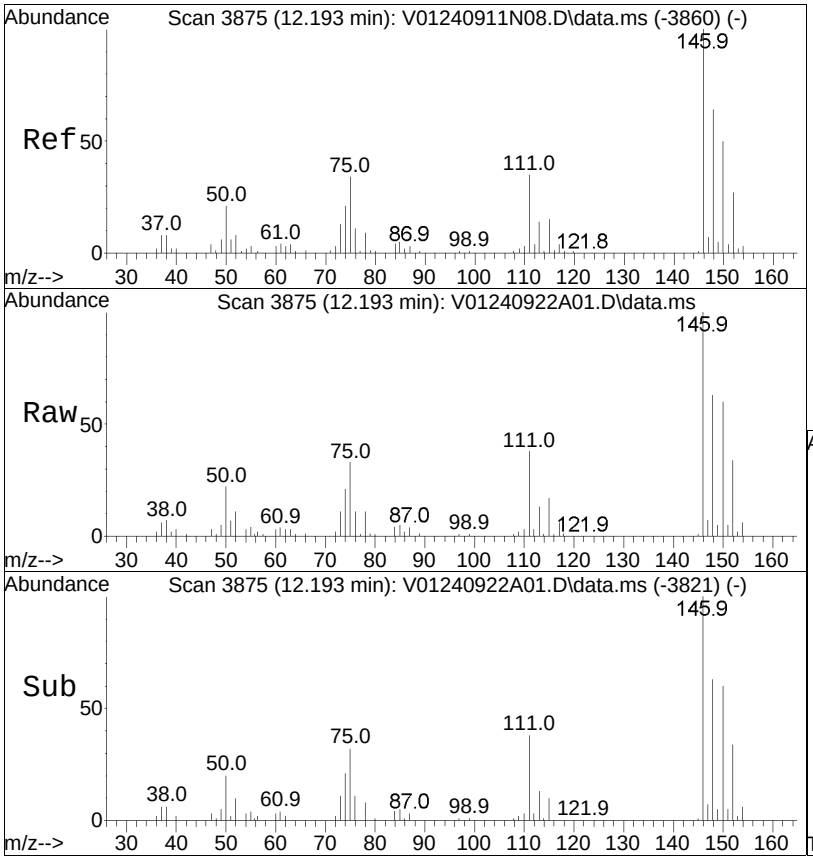


#100
1,3-Dichlorobenzene
Concen: 9.27 ug/L
RT: 12.098 min Scan# 3841
Delta R.T. -0.003 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:146 Resp: 226616

Ion	Ratio	Lower	Upper
146	100		
111	38.5	25.9	53.9
148	63.6	41.5	86.3

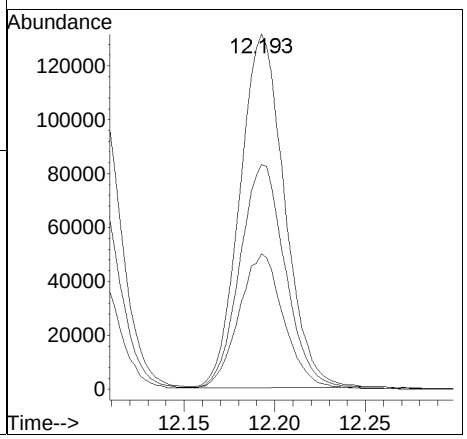


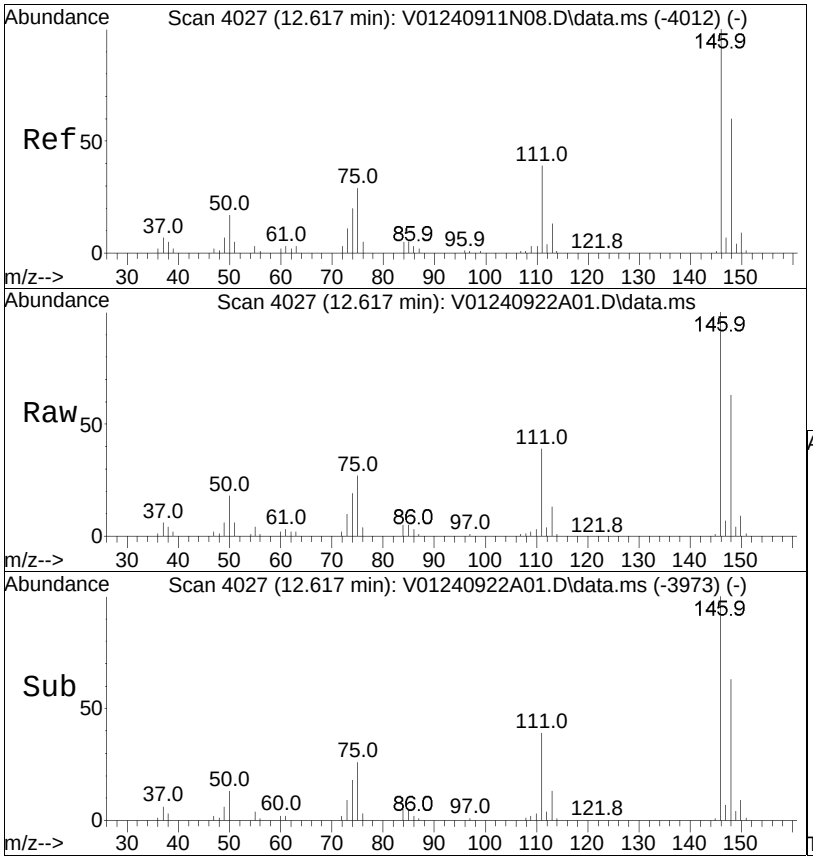


#101
1,4-Dichlorobenzene
Concen: 9.01 ug/L
RT: 12.193 min Scan# 3875
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:146 Resp: 224460

Ion	Ratio	Lower	Upper
146	100		
111	38.7	31.7	47.5
148	65.0	51.5	77.3

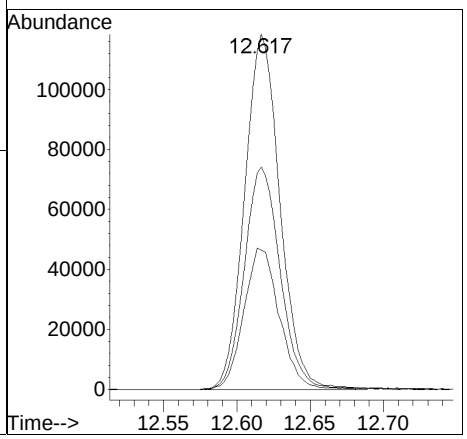


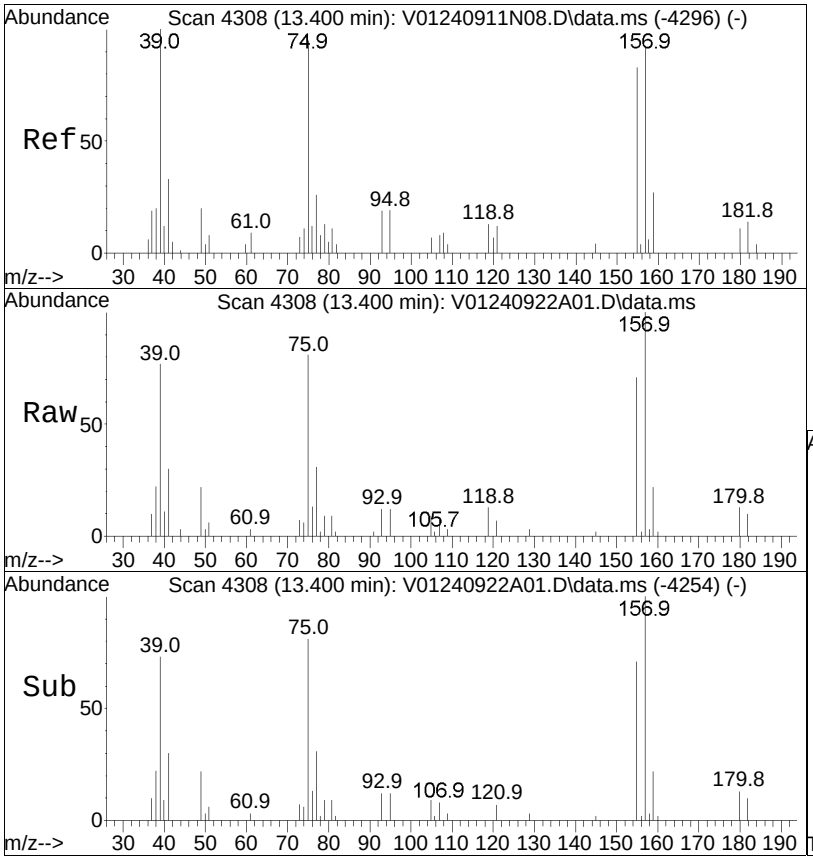


#104
1,2-Dichlorobenzene
Concen: 9.28 ug/L
RT: 12.617 min Scan# 4027
Delta R.T. -0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:146 Resp: 198867

Ion	Ratio	Lower	Upper
146	100		
111	39.9	26.8	55.8
148	63.4	41.6	86.4

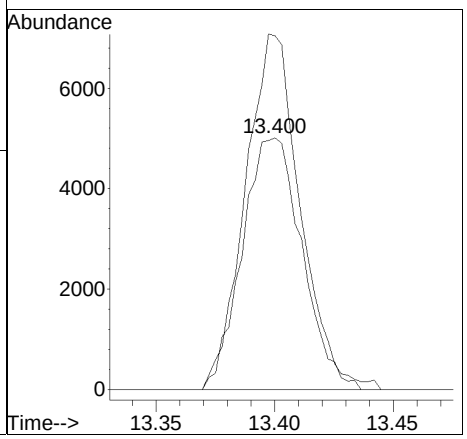


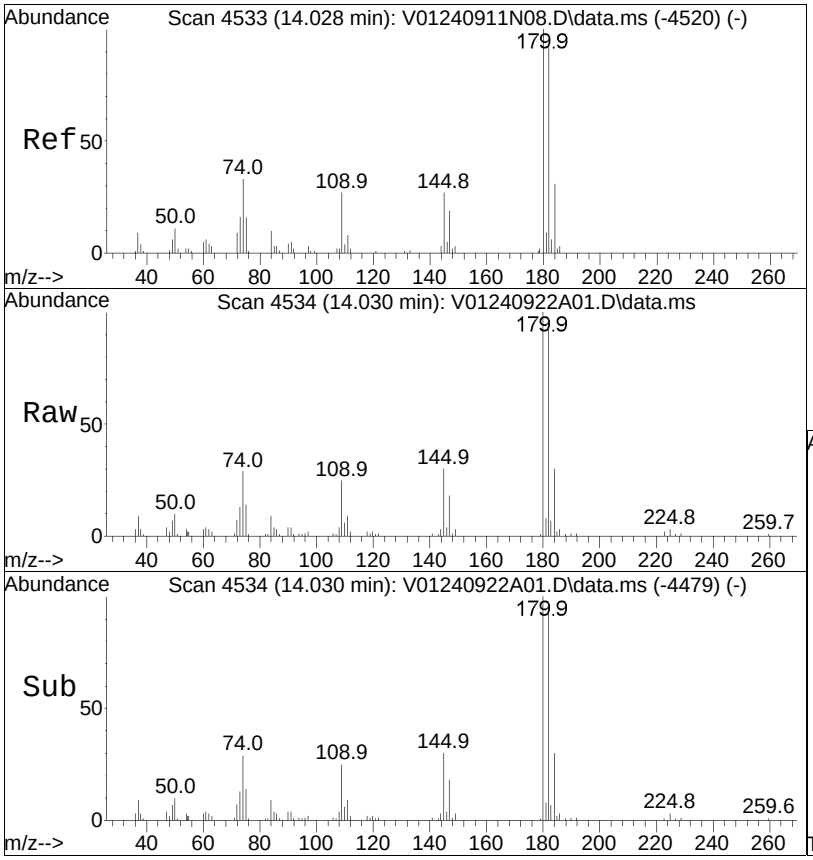


#106
1,2-Dibromo-3-chloropropane
Concen: 8.49 ug/L
RT: 13.400 min Scan# 4308
Delta R.T. 0.000 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:155 Resp: 8773

Ion	Ratio	Lower	Upper
155	100		
157	130.3	101.1	151.7

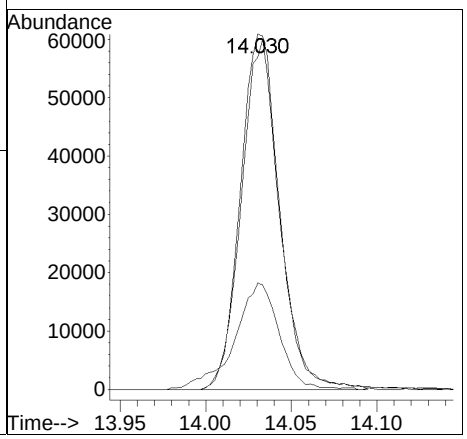


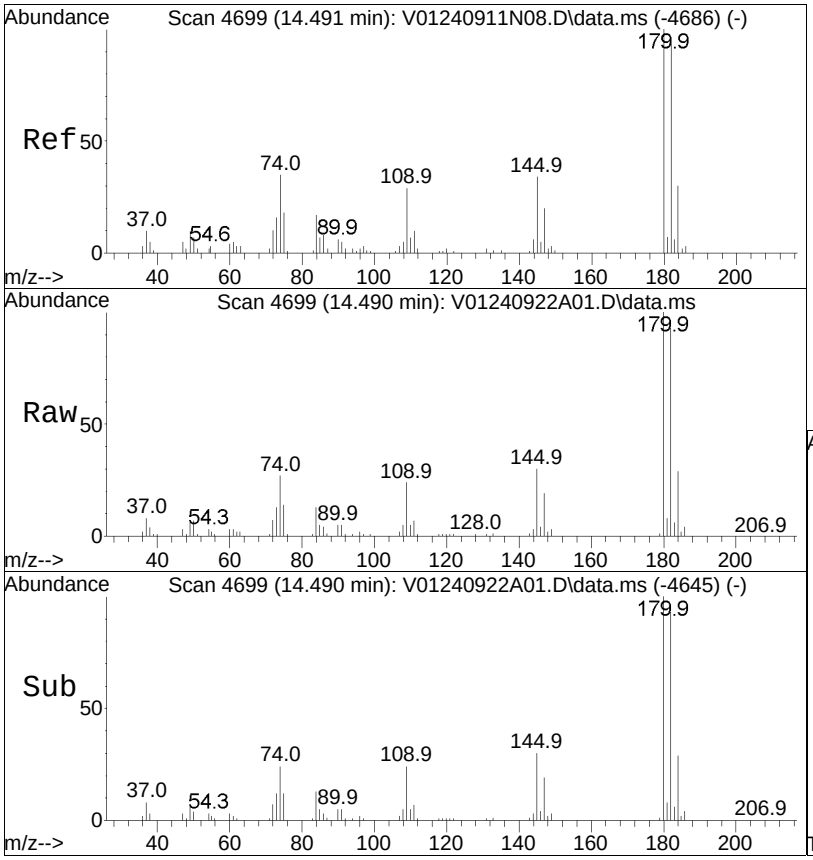


#109
1,2,4-Trichlorobenzene
Concen: 10.25 ug/L
RT: 14.030 min Scan# 4534
Delta R.T. 0.002 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:180 Resp: 97450

Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.8
145	33.8	26.1	39.1

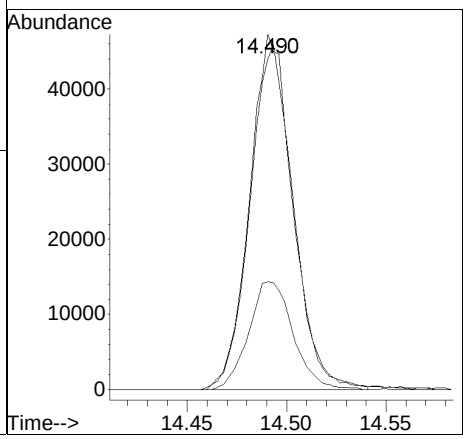




#111
1,2,3-Trichlorobenzene
Concen: 9.87 ug/L
RT: 14.490 min Scan# 4699
Delta R.T. -0.001 min
Lab File: V01240922A01.D
Acq: 22 Sep 2024 4:26 pm

Tgt Ion:180 Resp: 71789

Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.4	113.0
145	30.9	25.0	37.6



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-3,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	199865	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.543	117	156281	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.243	152	91792	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.217	113	58584	9.632	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.32%			
43) 1,2-Dichloroethane-d4	5.742	65	56928	10.172	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.72%			
60) Toluene-d8	7.708	98	191428	10.349	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.49%			
83) 4-Bromofluorobenzene	11.032	95	68907	10.589	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.89%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	54442	13.221	ug/L	98
3) Chloromethane	1.867	50	48168	11.140	ug/L	99
4) Vinyl chloride	1.935	62	71716	11.714	ug/L	95
5) Bromomethane	2.245	94	40767	7.571	ug/L	98
6) Chloroethane	2.365	64	59934	10.773	ug/L	97
7) Trichlorofluoromethane	2.501	101	107815	11.243	ug/L	96
10) 1,1-Dichloroethene	2.984	96	41331	11.158	ug/L #	62
11) Carbon disulfide	3.015	76	140153	11.094	ug/L	96
12) Freon-113	3.026	101	41391	11.409	ug/L	93
15) Methylene chloride	3.534	84	49842	10.248	ug/L	71
17) Acetone	3.582	43	8657	9.955	ug/L	98
18) trans-1,2-Dichloroethene	3.692	96	47526	10.557	ug/L	73
19) Methyl acetate	3.697	43	22344	10.519	ug/L #	83
20) Methyl tert-butyl ether	3.791	73	121581	9.837	ug/L	96
23) 1,1-Dichloroethane	4.263	63	87960	11.231	ug/L	99
28) cis-1,2-Dichloroethene	4.777	96	53060	10.238	ug/L #	68
30) Bromochloromethane	4.971	128	28256	9.544	ug/L #	52
31) Cyclohexane	4.981	56	68380	17.076	ug/L #	60
32) Chloroform	5.044	83	88412	10.594	ug/L	96
34) Carbon tetrachloride	5.181	117	70814	10.877	ug/L	99
37) 1,1,1-Trichloroethane	5.244	97	75469	10.843	ug/L #	91
39) 2-Butanone	5.333	43	14074	11.145	ug/L #	28
41) Benzene	5.611	78	184667	10.552	ug/L	90
44) 1,2-Dichloroethane	5.810	62	58835	10.368	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-3,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) Methyl cyclohexane	6.193	83	63862	16.736	ug/L	#	71
48) Trichloroethene	6.198	95	49726	10.350	ug/L		89
51) 1,2-Dichloropropane	6.743	63	48446	11.095	ug/L		94
54) Bromodichloromethane	6.811	83	66847	10.220	ug/L	#	97
58) cis-1,3-Dichloropropene	7.498	75	70613	10.180	ug/L	#	86
61) Toluene	7.765	92	119665	11.069	ug/L		97
62) 4-Methyl-2-pentanone	8.195	58	10374	9.402	ug/L	#	94
63) Tetrachloroethene	8.211	166	54414	10.740	ug/L		87
65) trans-1,3-Dichloropropene	8.243	75	60687	10.627	ug/L		89
68) 1,1,2-Trichloroethane	8.431	83	33626	10.915	ug/L		94
69) Chlorodibromomethane	8.636	129	51176	9.369	ug/L		97
71) 1,2-Dibromoethane	8.914	107	39232	10.448	ug/L		100
72) 2-Hexanone	9.202	43	15404	9.304	ug/L		94
73) Chlorobenzene	9.564	112	142198	10.610	ug/L		96
74) Ethylbenzene	9.606	91	222892	11.329	ug/L		98
76) p/m Xylene	9.795	106	178316	21.552	ug/L		92
77) o Xylene	10.335	106	172721	21.080	ug/L		87
78) Styrene	10.397	104	293812	19.820	ug/L	#	83
80) Bromoform	10.418	173	30432	8.392	ug/L		96
82) Isopropylbenzene	10.712	105	218213	11.358	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.273	83	47942	10.581	ug/L		99
100) 1,3-Dichlorobenzene	12.164	146	125375	10.336	ug/L		96
101) 1,4-Dichlorobenzene	12.259	146	127392	10.229	ug/L		97
104) 1,2-Dichlorobenzene	12.683	146	117107	9.945	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.459	155	6948	8.624	ug/L		89
109) 1,2,4-Trichlorobenzene	14.089	180	81623	9.973	ug/L		98
111) 1,2,3-Trichlorobenzene	14.550	180	74344	9.775	ug/L		99

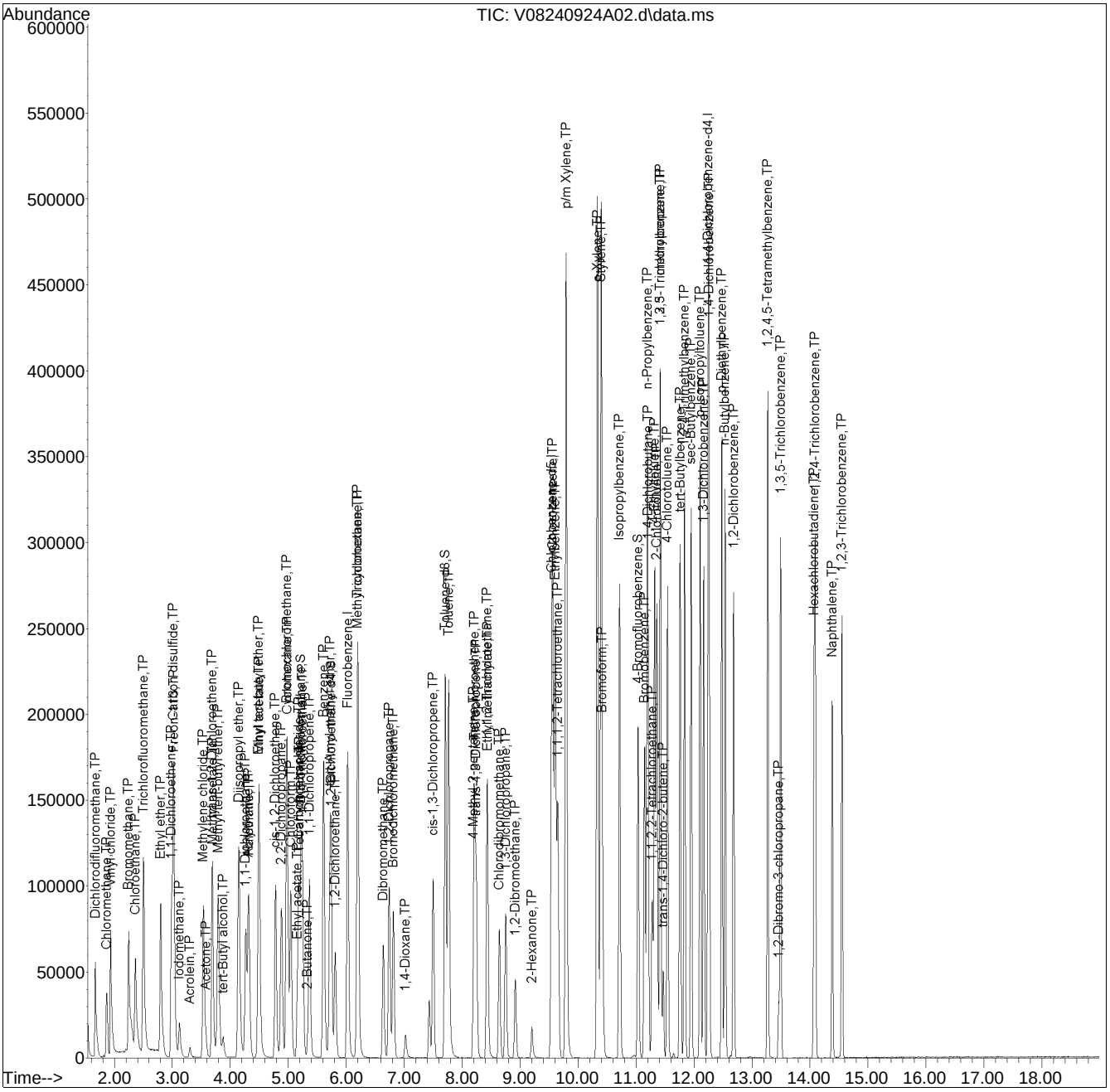
(#) = qualifier out of range (m) = manual integration (+) = signals summed

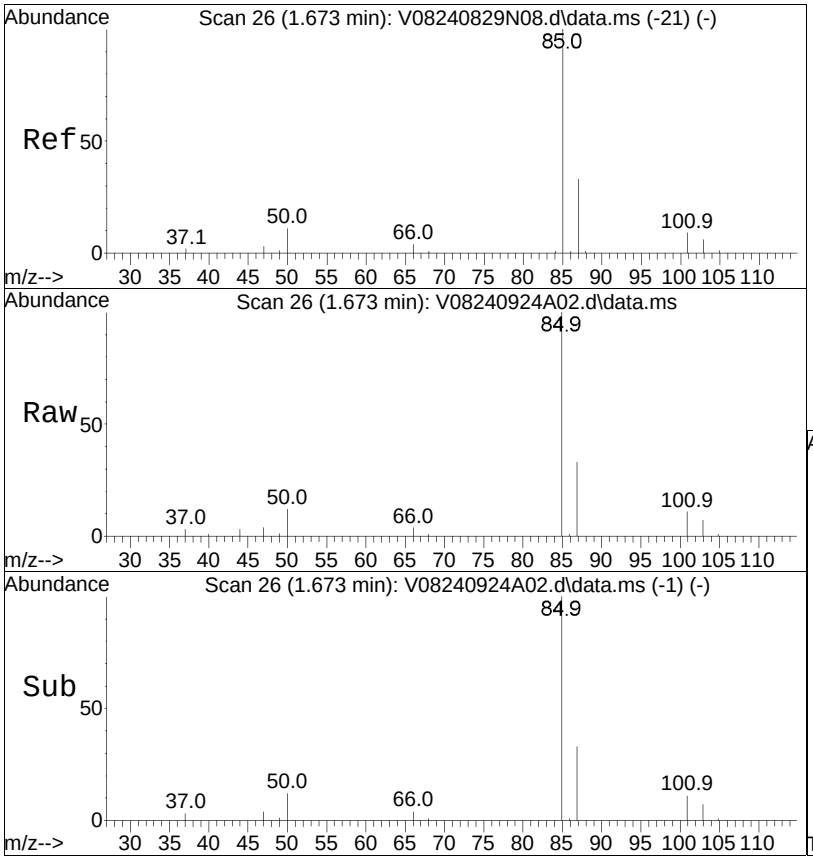
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A02.d
Acq On : 24 Sep 2024 7:13 am
Operator : VOA108:PID
Sample : WG1975613-3,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 07:37:17 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

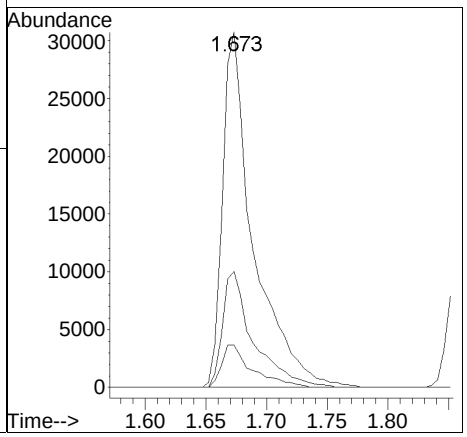


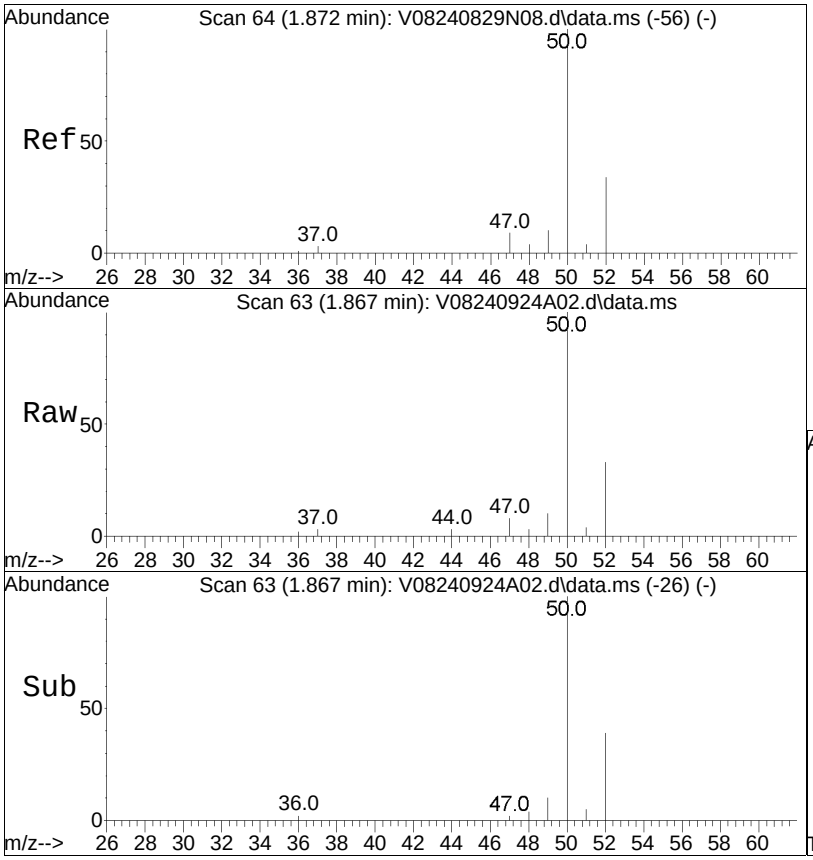


#2
Dichlorodifluoromethane
Concen: 13.22 ug/L
RT: 1.673 min Scan# 26
Delta R.T. 0.000 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 85 Resp: 54442

Ion	Ratio	Lower	Upper
85	100		
87	32.5	21.0	43.6
50	11.9	8.9	18.5

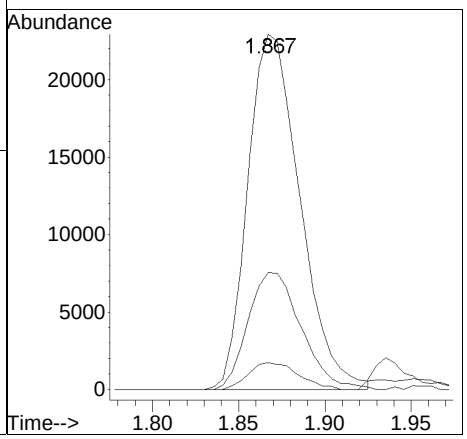


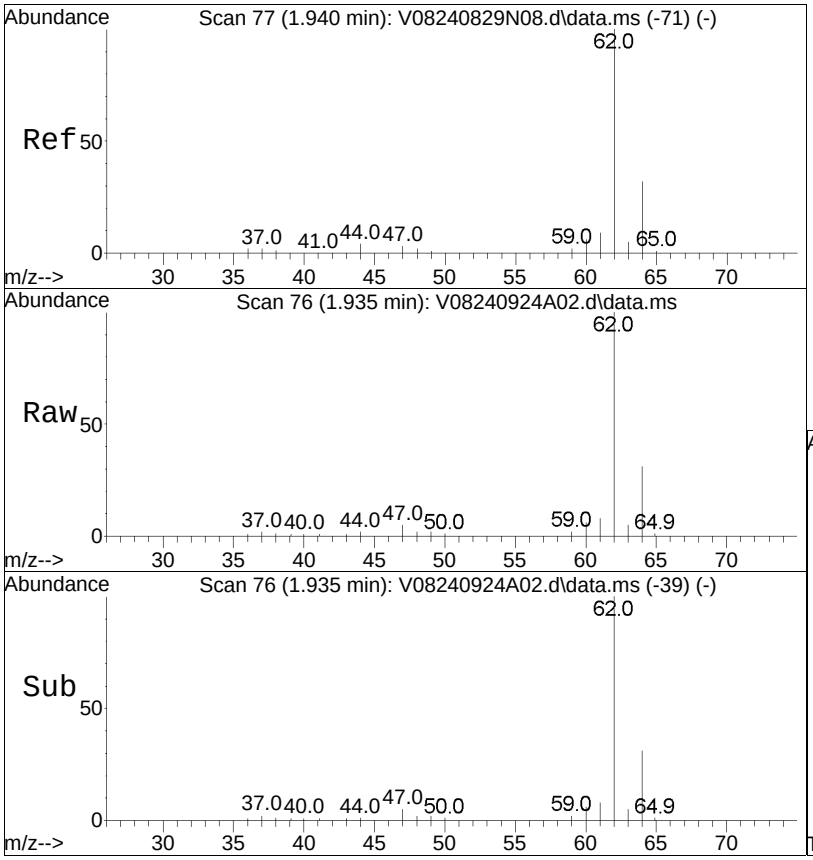


#3
Chloromethane
Concen: 11.14 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 50 Resp: 48168

Ion	Ratio	Lower	Upper
50	100		
52	33.5	12.9	52.9
47	7.3	0.0	28.3

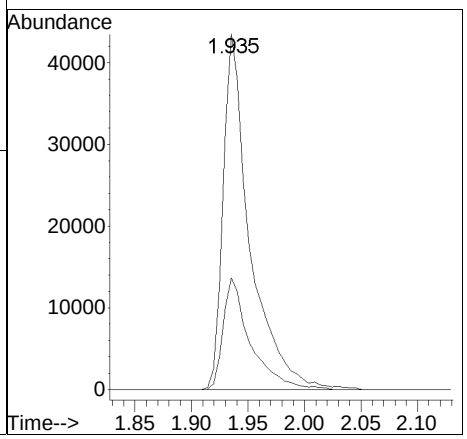


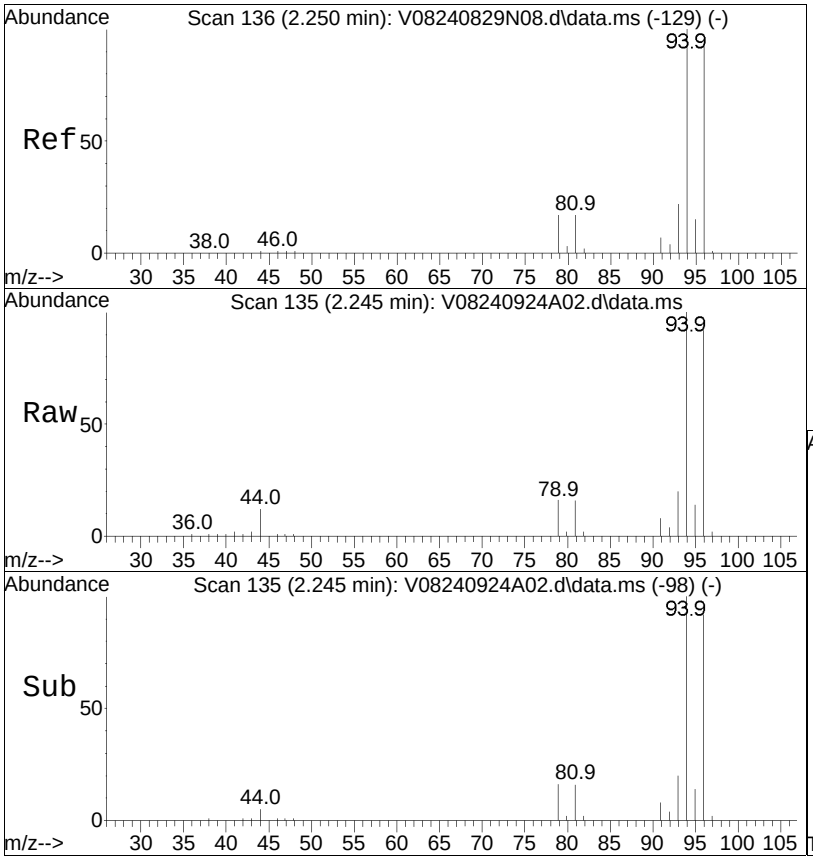


#4
Vinyl chloride
Concen: 11.71 ug/L
RT: 1.935 min Scan# 76
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 62 Resp: 71716

Ion	Ratio	Lower	Upper
62	100		
64	31.8	9.1	49.1

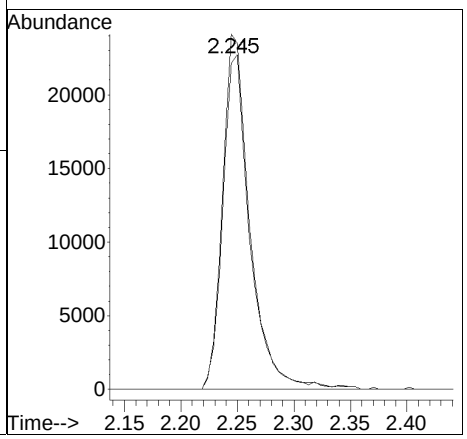


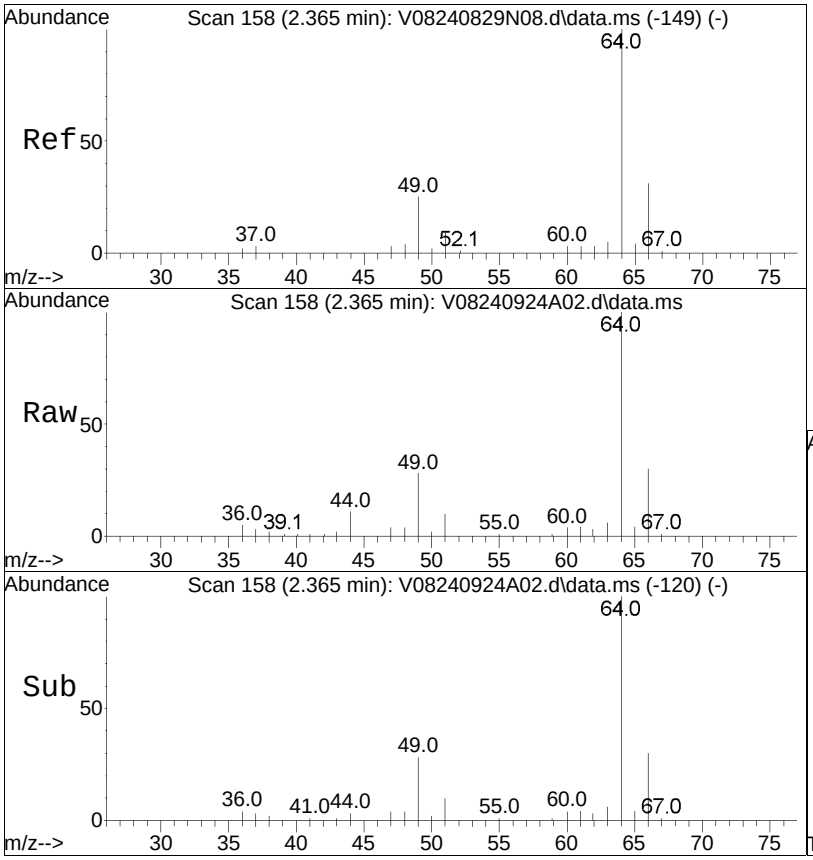


#5
Bromomethane
Concen: 7.57 ug/L
RT: 2.245 min Scan# 135
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 94 Resp: 40767

Ion	Ratio	Lower	Upper
94	100		
96	93.5	75.6	115.6

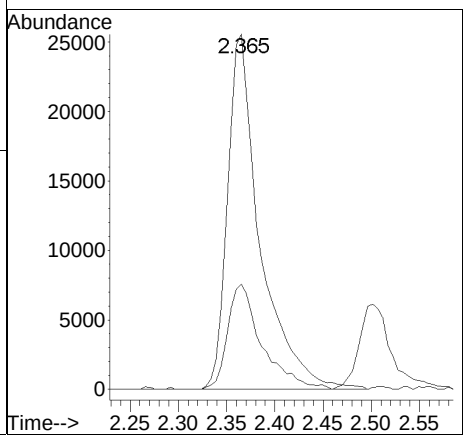


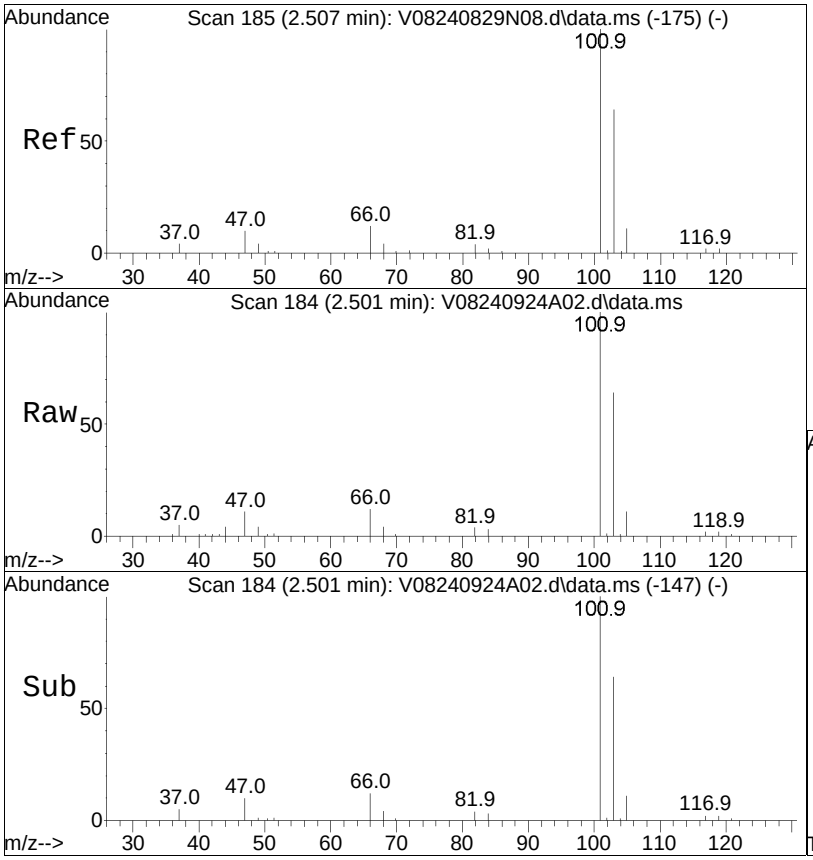


#6
Chloroethane
Concen: 10.77 ug/L
RT: 2.365 min Scan# 158
Delta R.T. 0.000 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 64 Resp: 59934

Ion	Ratio	Lower	Upper
64	100		
66	31.2	9.8	49.8

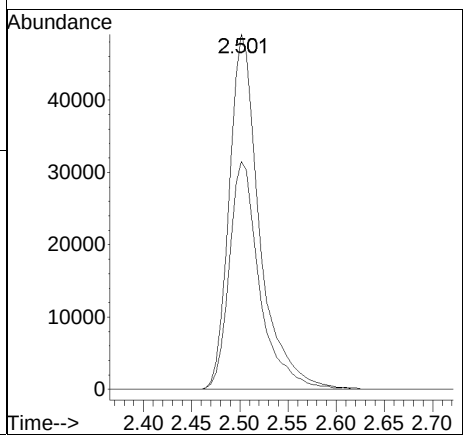


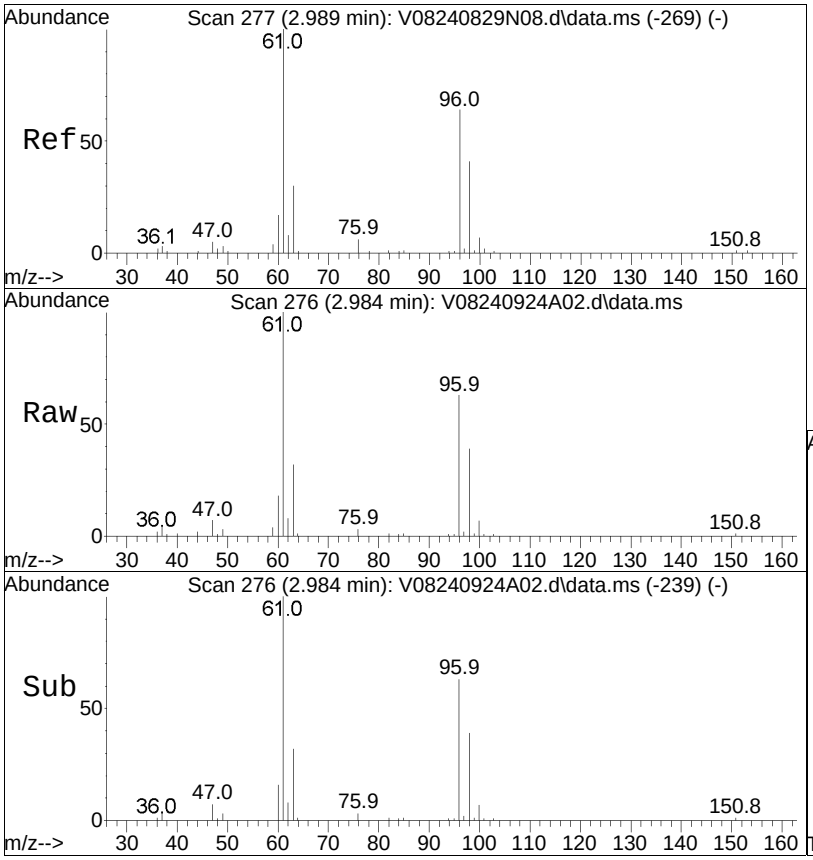


#7
Trichlorofluoromethane
Concen: 11.24 ug/L
RT: 2.501 min Scan# 184
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:101 Resp: 107815

Ion	Ratio	Lower	Upper
101	100		
103	64.2	53.8	80.6

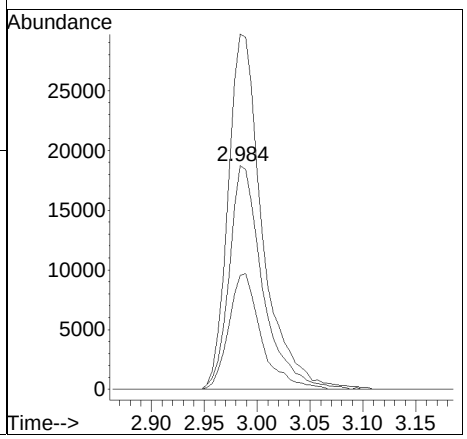


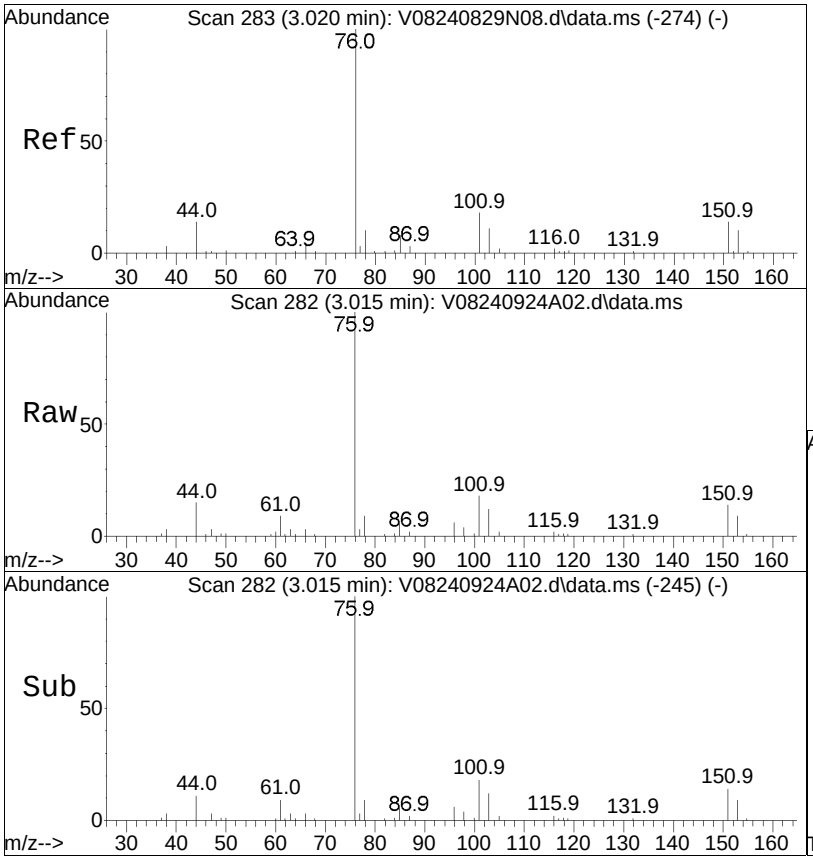


#10
1,1-Dichloroethene
Concen: 11.16 ug/L
RT: 2.984 min Scan# 276
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 96 Resp: 41331

Ion	Ratio	Lower	Upper
96	100		
61	162.6	186.1	279.1#
63	50.4	57.6	86.4#

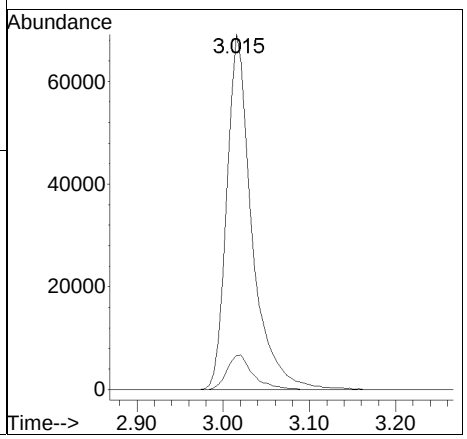


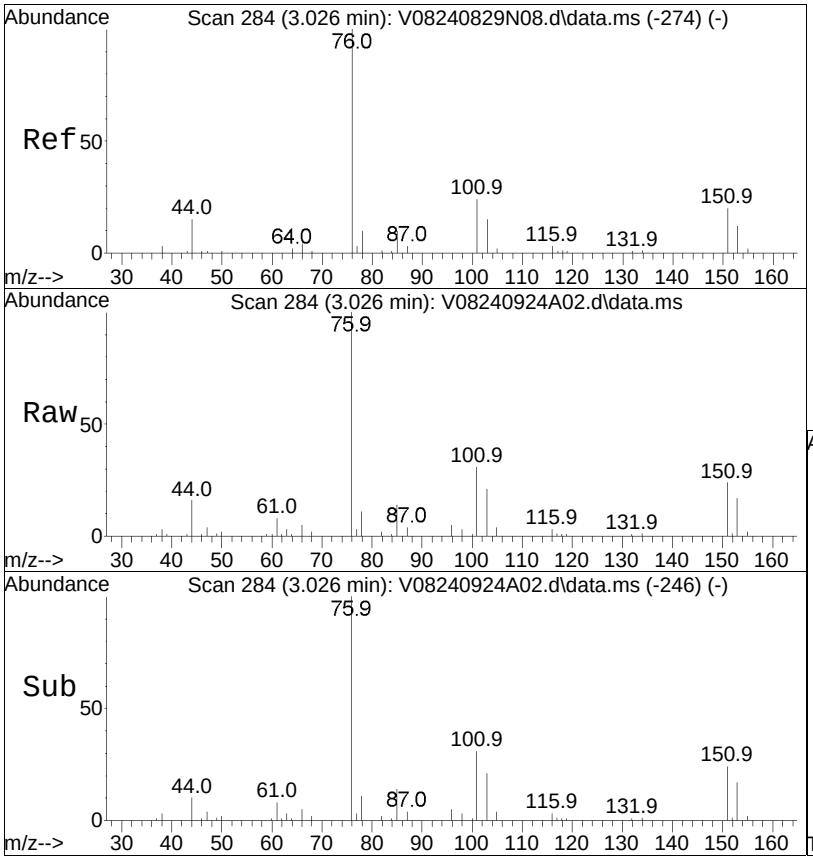


#11
Carbon disulfide
Concen: 11.09 ug/L
RT: 3.015 min Scan# 282
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 76 Resp: 140153

Ion	Ratio	Lower	Upper
76	100		
78	10.0	5.7	11.7

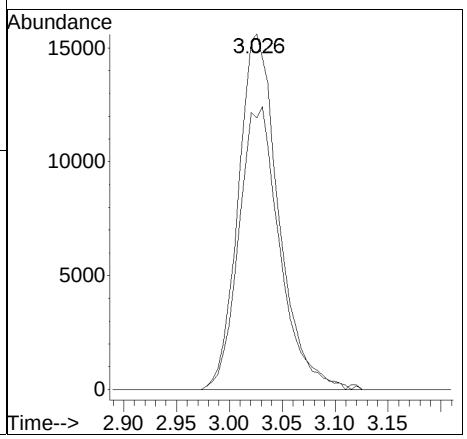


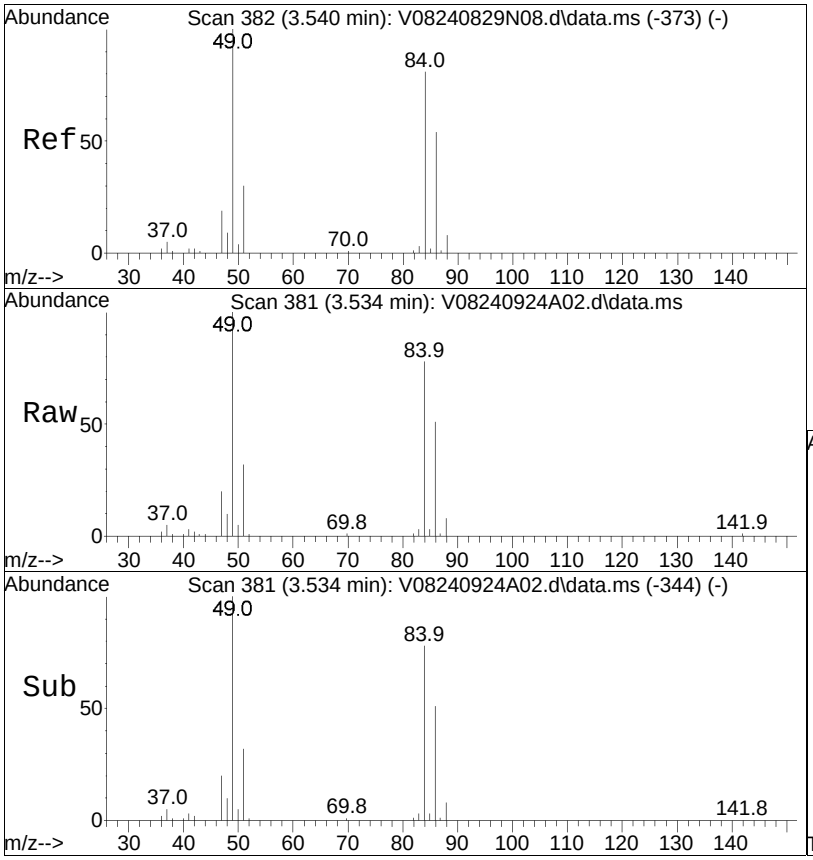


#12
Freon-113
Concen: 11.41 ug/L
RT: 3.026 min Scan# 284
Delta R.T. -0.000 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:101 Resp: 41391

Ion	Ratio	Lower	Upper
101	100		
151	80.6	59.8	89.8

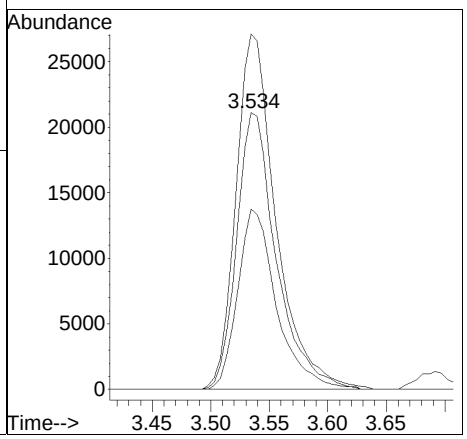


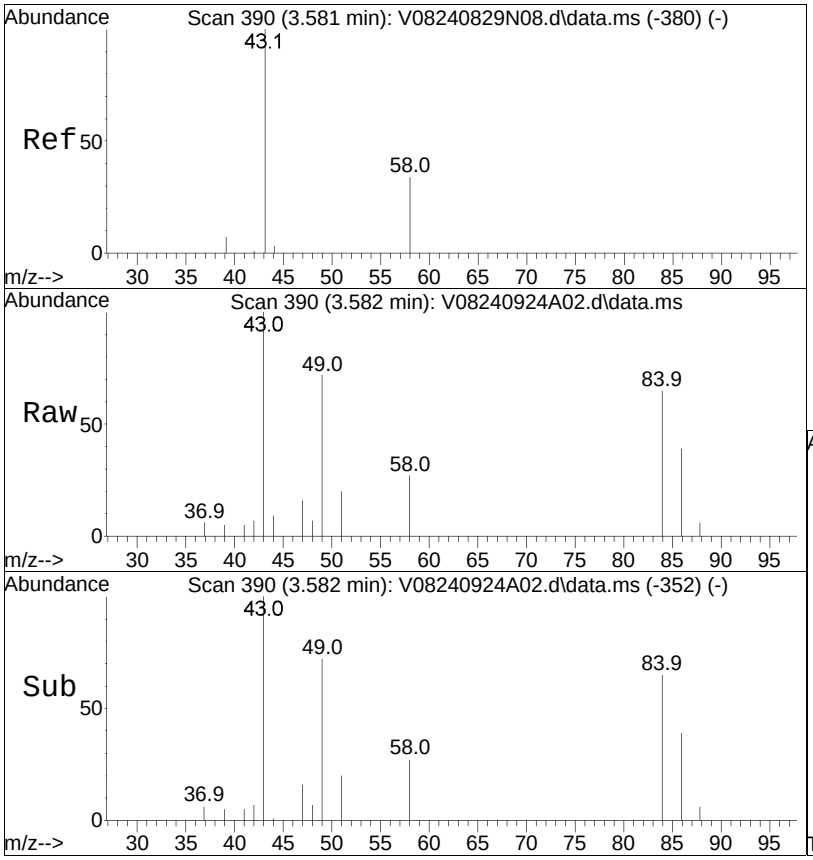


#15
Methylene chloride
Concen: 10.25 ug/L
RT: 3.534 min Scan# 381
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 84 Resp: 49842

Ion	Ratio	Lower	Upper
84	100		
86	63.8	40.4	83.8
49	129.6	120.0	249.2

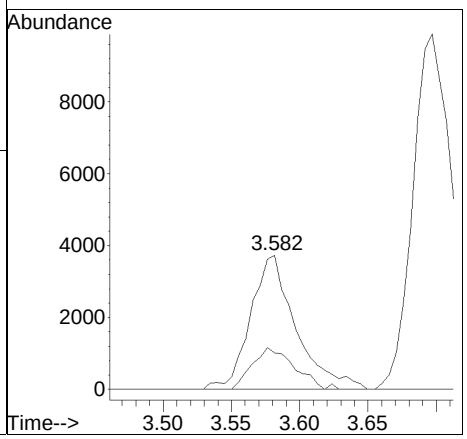


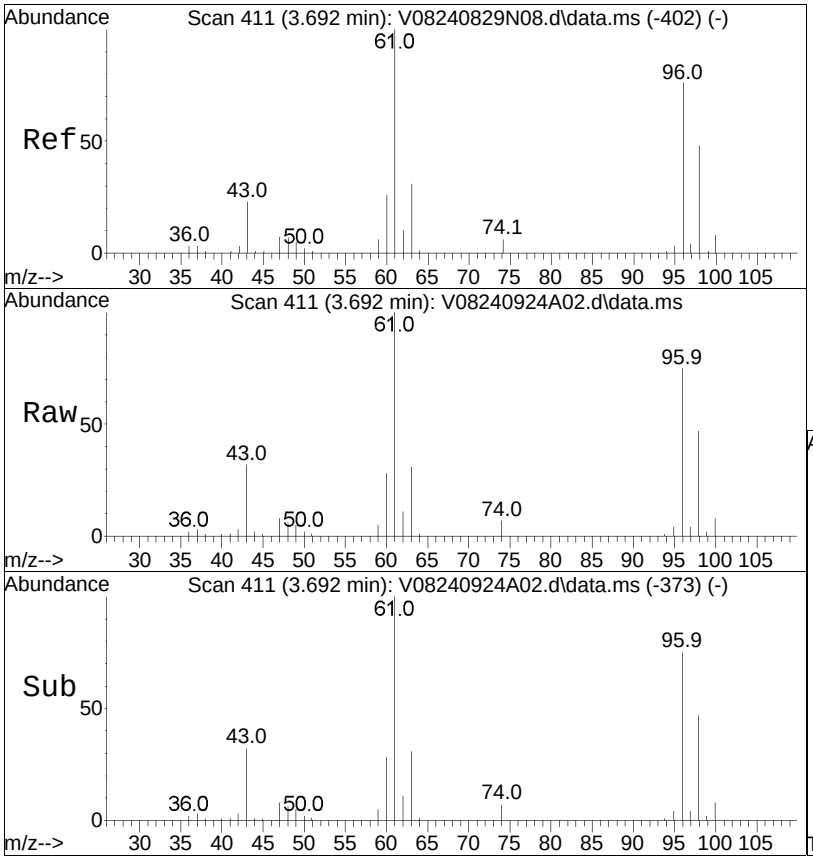


#17
Acetone
Concen: 9.96 ug/L
RT: 3.582 min Scan# 390
Delta R.T. 0.001 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 43 Resp: 8657

Ion	Ratio	Lower	Upper
43	100		
58	29.0	24.2	36.4

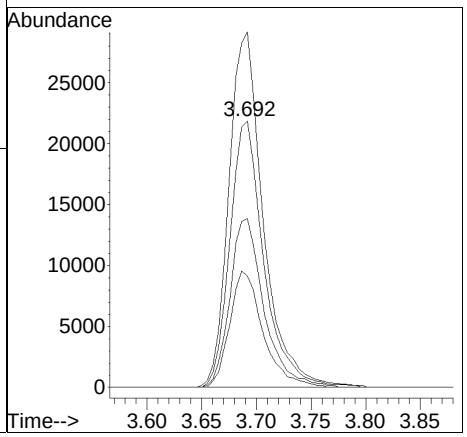


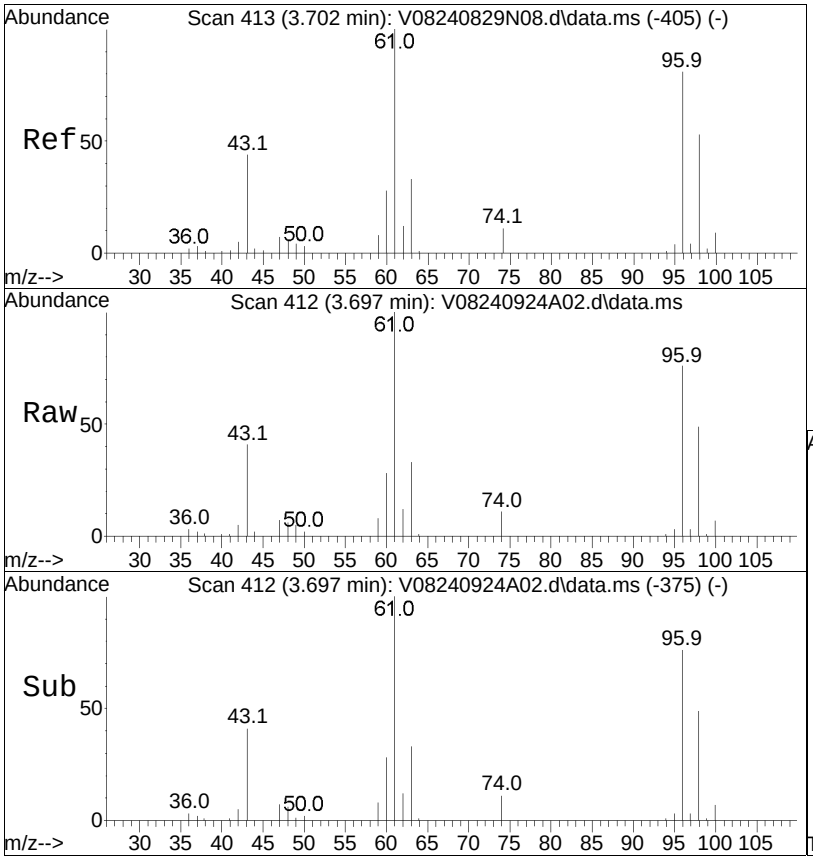


#18
trans-1,2-Dichloroethene
Concen: 10.56 ug/L
RT: 3.692 min Scan# 411
Delta R.T. -0.000 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 96 Resp: 47526

Ion	Ratio	Lower	Upper
96	100		
61	134.4	124.0	257.6
98	63.3	41.2	85.6
63	42.9	38.4	79.7

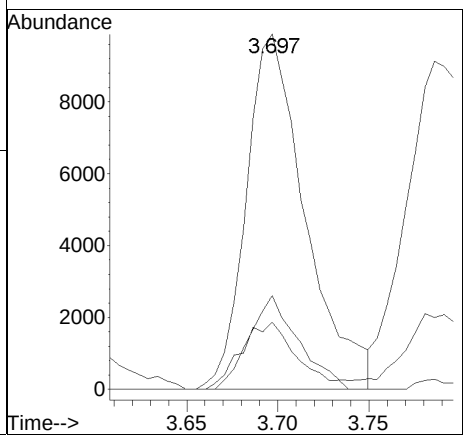


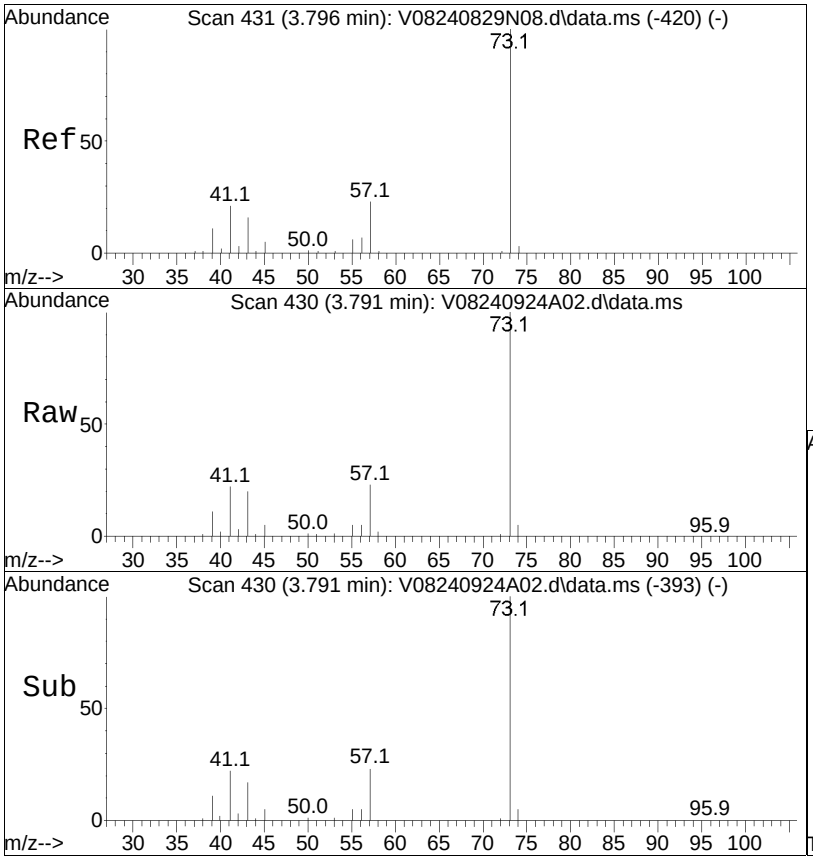


#19
Methyl acetate
Concen: 10.52 ug/L
RT: 3.697 min Scan# 412
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 43 Resp: 22344

Ion	Ratio	Lower	Upper
43	100		
74	22.4	14.2	21.4#
59	17.8	5.0	7.6#

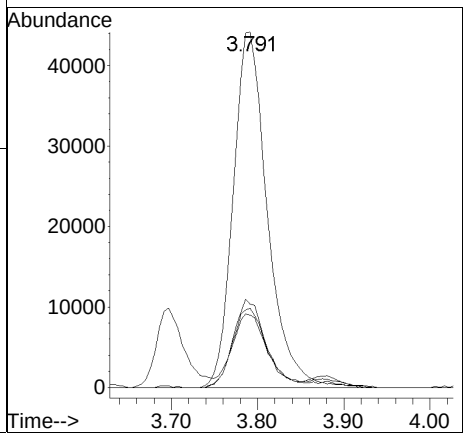


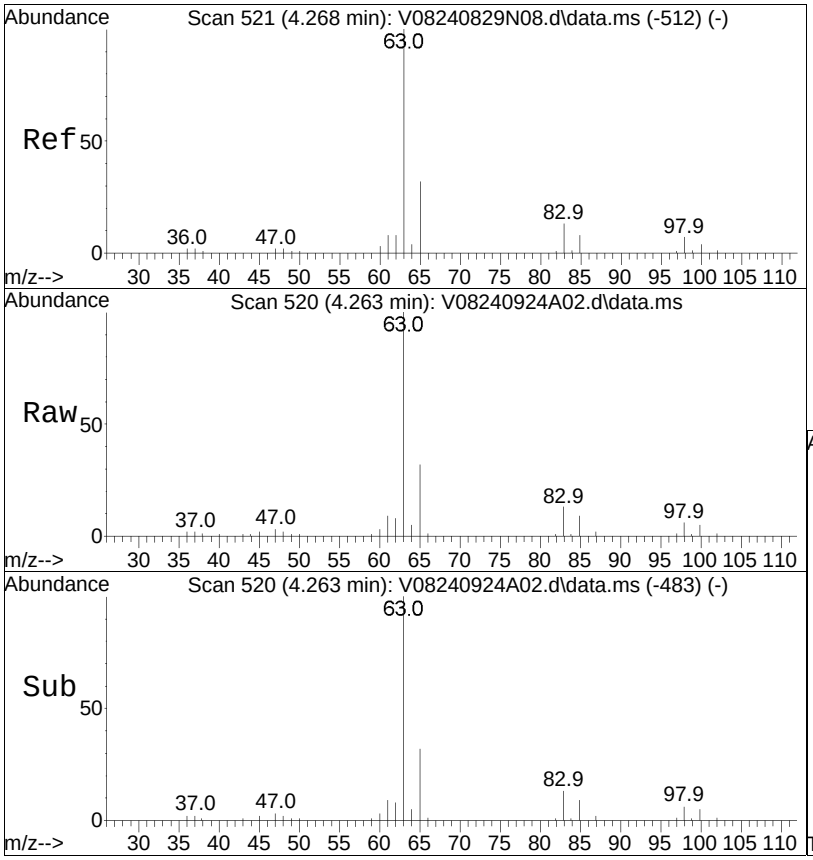


#20
Methyl tert-butyl ether
Concen: 9.84 ug/L
RT: 3.791 min Scan# 430
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 73 Resp: 121581

Ion	Ratio	Lower	Upper
73	100		
57	24.0	17.5	36.3
43	21.2	15.3	31.9
41	22.4	15.3	31.7

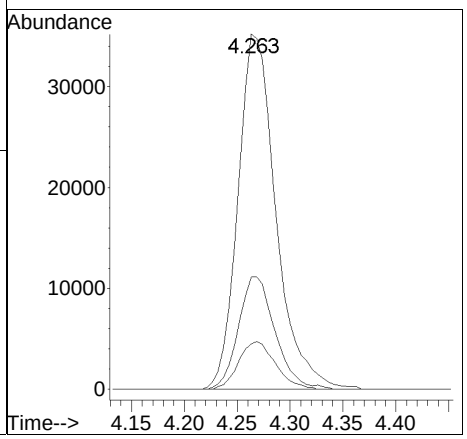


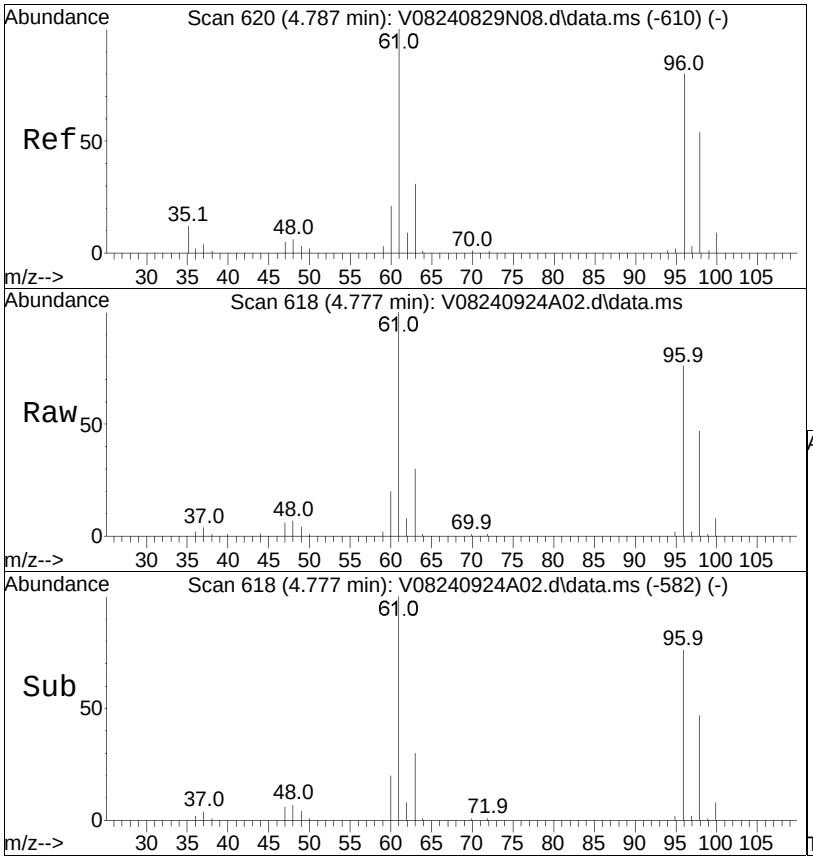


#23
1,1-Dichloroethane
Concen: 11.23 ug/L
RT: 4.263 min Scan# 520
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 63 Resp: 87960

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.0	51.0
83	13.1	0.0	31.8

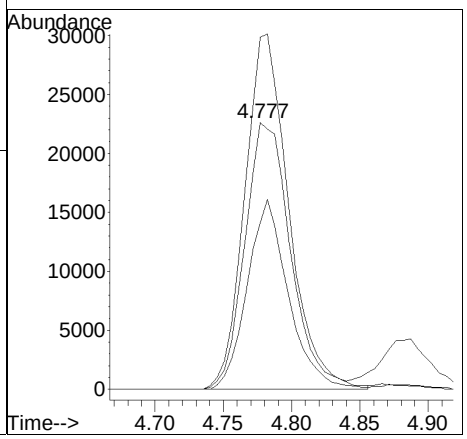


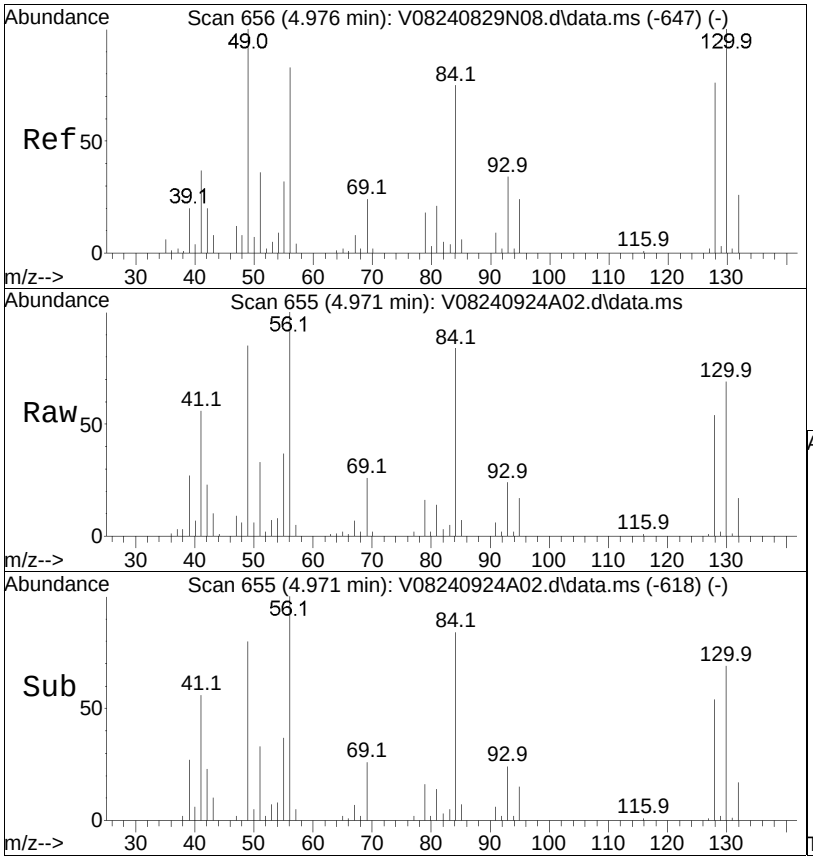


#28
cis-1,2-Dichloroethene
Concen: 10.24 ug/L
RT: 4.777 min Scan# 618
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 96 Resp: 53060

Ion	Ratio	Lower	Upper
96	100		
61	126.6	149.4	224.2#
98	63.7	53.4	80.2

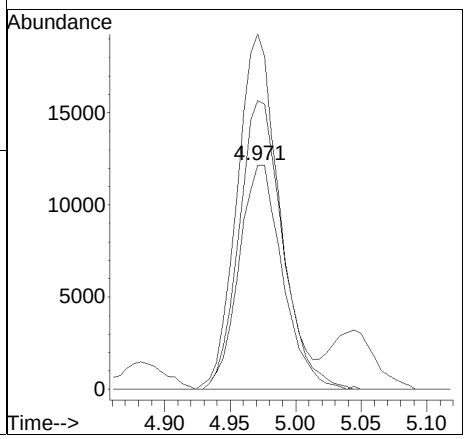


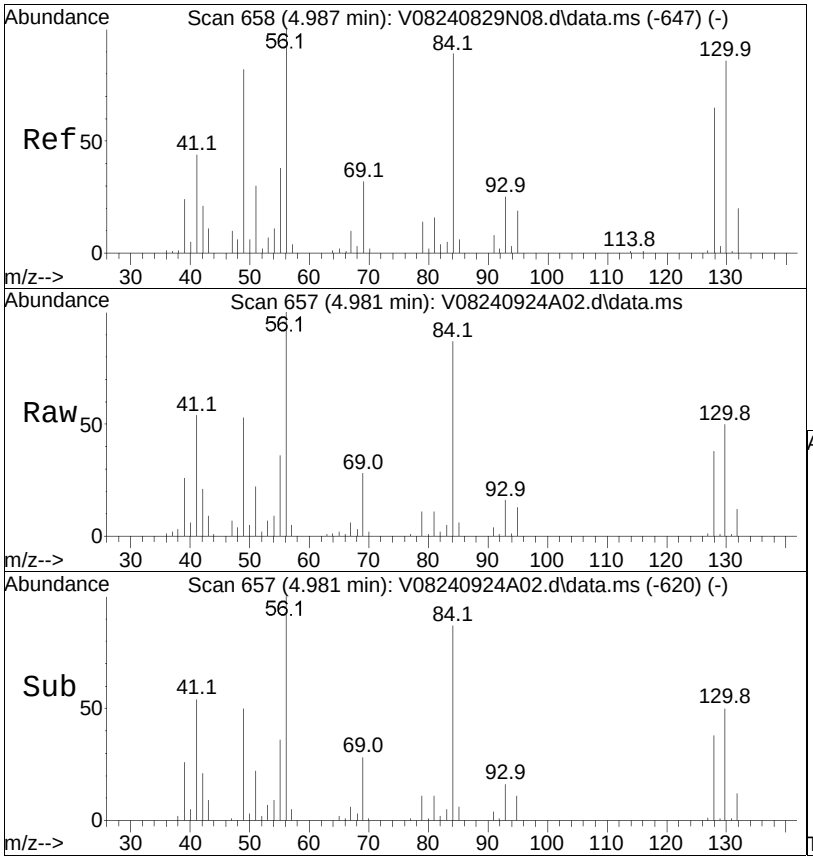


#30
Bromochloromethane
Concen: 9.54 ug/L
RT: 4.971 min Scan# 655
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:128 Resp: 28256

Ion	Ratio	Lower	Upper
128	100		
49	152.6	223.0	334.4#
130	128.6	111.4	167.0

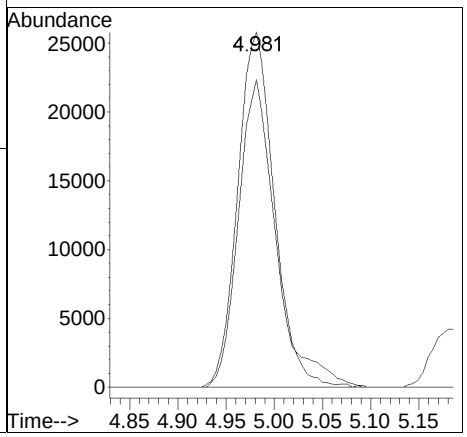


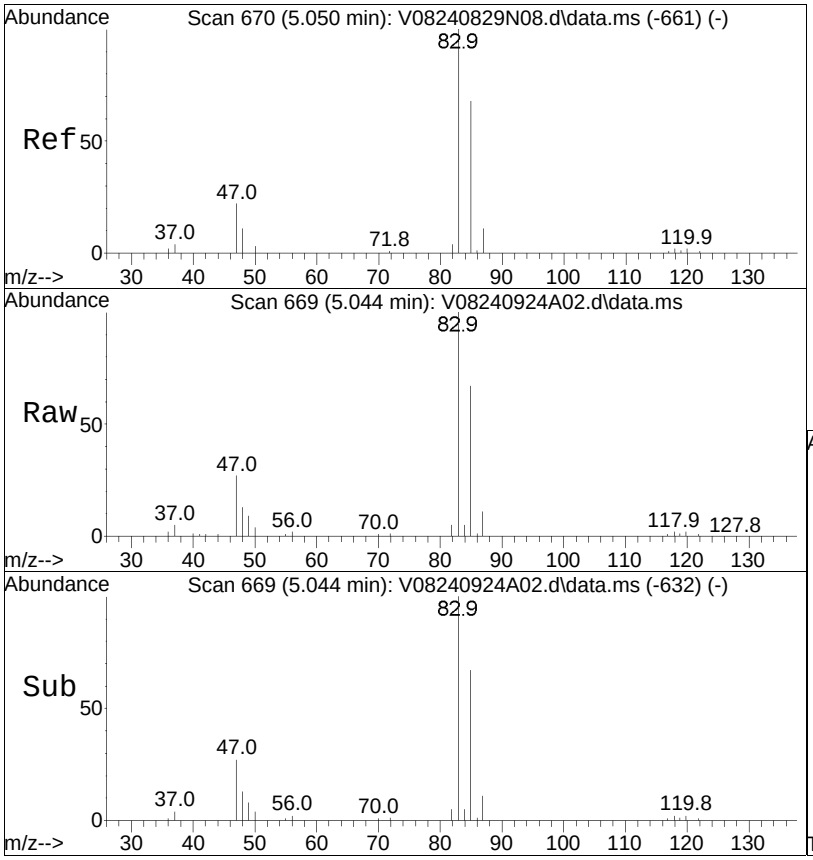


#31
Cyclohexane
Concen: 17.08 ug/L
RT: 4.981 min Scan# 657
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 56 Resp: 68380

Ion	Ratio	Lower	Upper
56	100		
84	89.0	38.4	79.8#

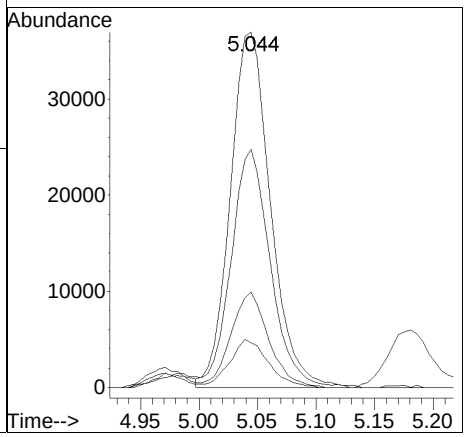


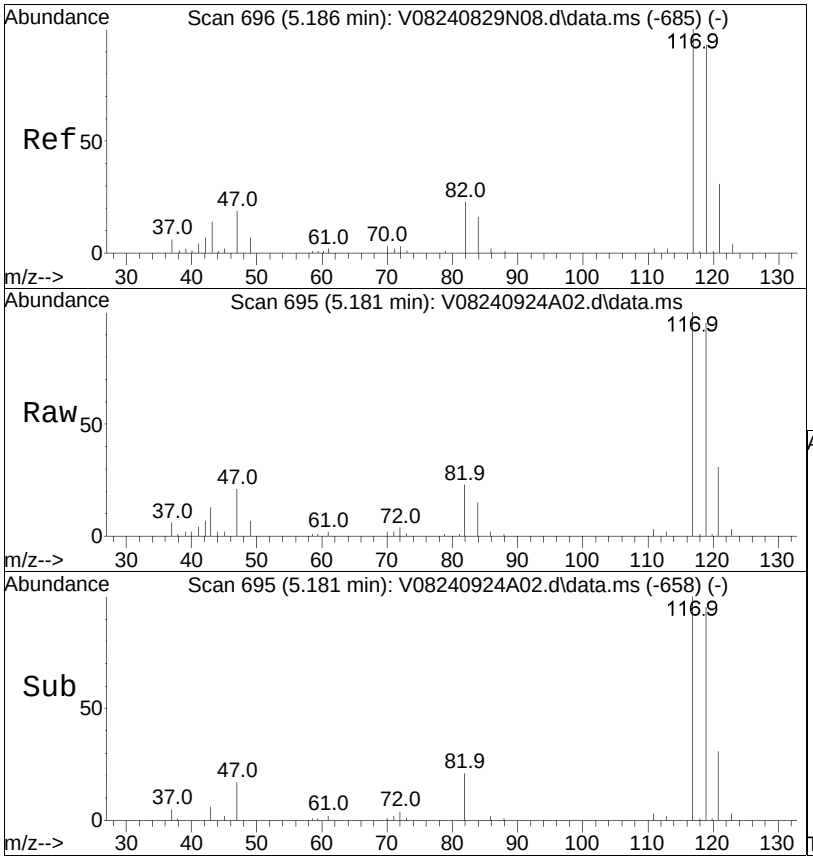


#32
Chloroform
Concen: 10.59 ug/L
RT: 5.044 min Scan# 669
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 83 Resp: 88412

Ion	Ratio	Lower	Upper
83	100		
85	65.0	41.5	86.1
47	25.3	19.0	39.4
48	13.1	9.9	20.5

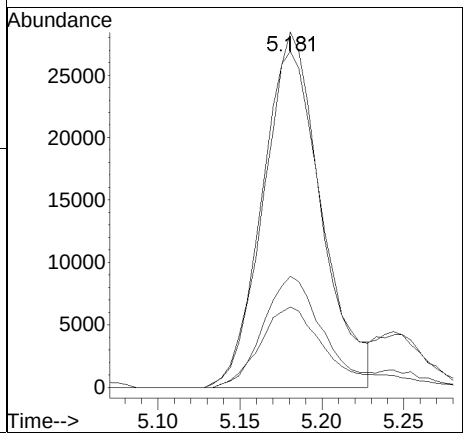


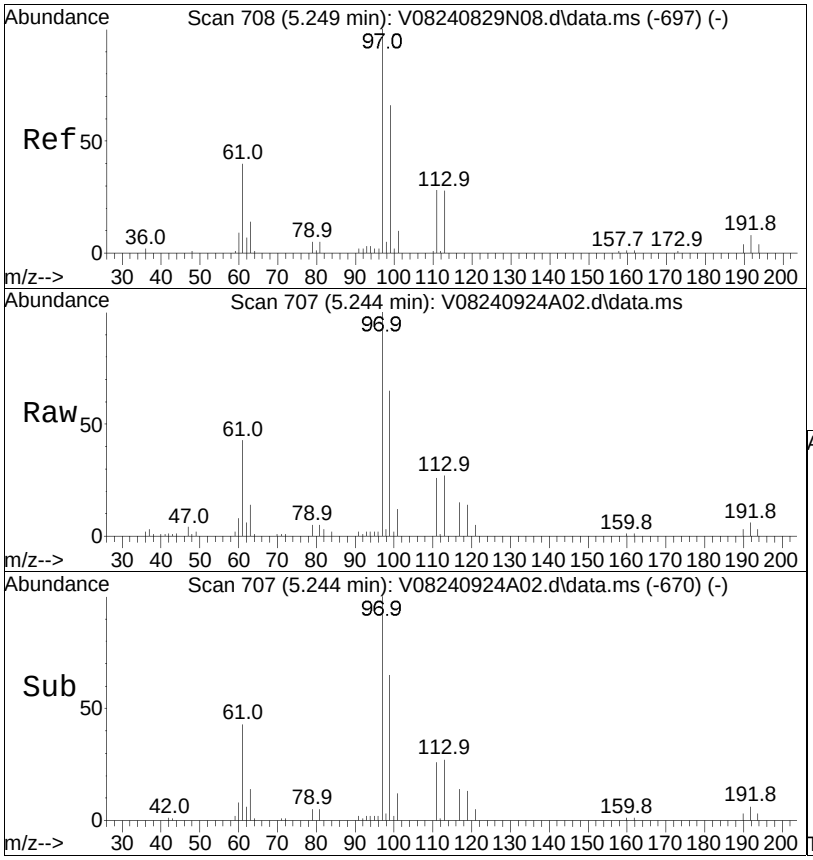


#34
Carbon tetrachloride
Concen: 10.88 ug/L
RT: 5.181 min Scan# 695
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:117 Resp: 70814

Ion	Ratio	Lower	Upper
117	100		
119	95.5	62.4	129.6
121	32.1	19.5	40.5
82	26.9	17.0	35.4

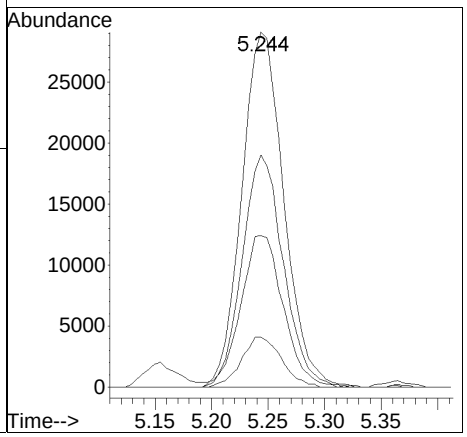


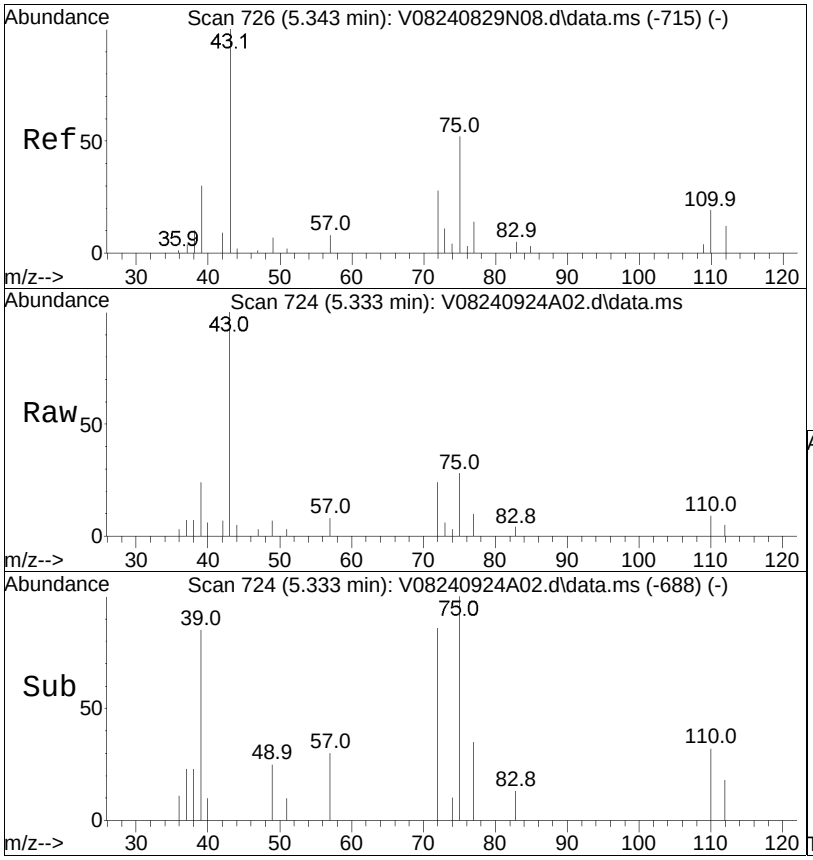


#37
1,1,1-Trichloroethane
Concen: 10.84 ug/L
RT: 5.244 min Scan# 707
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 97 Resp: 75469

Ion	Ratio	Lower	Upper
97	100		
99	64.1	40.7	84.5
61	43.3	35.4	73.4
63	13.6	5.0	10.4#

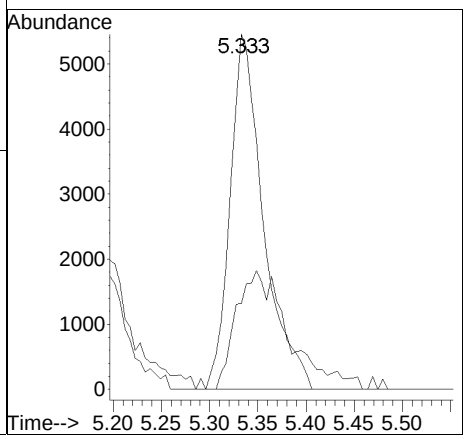


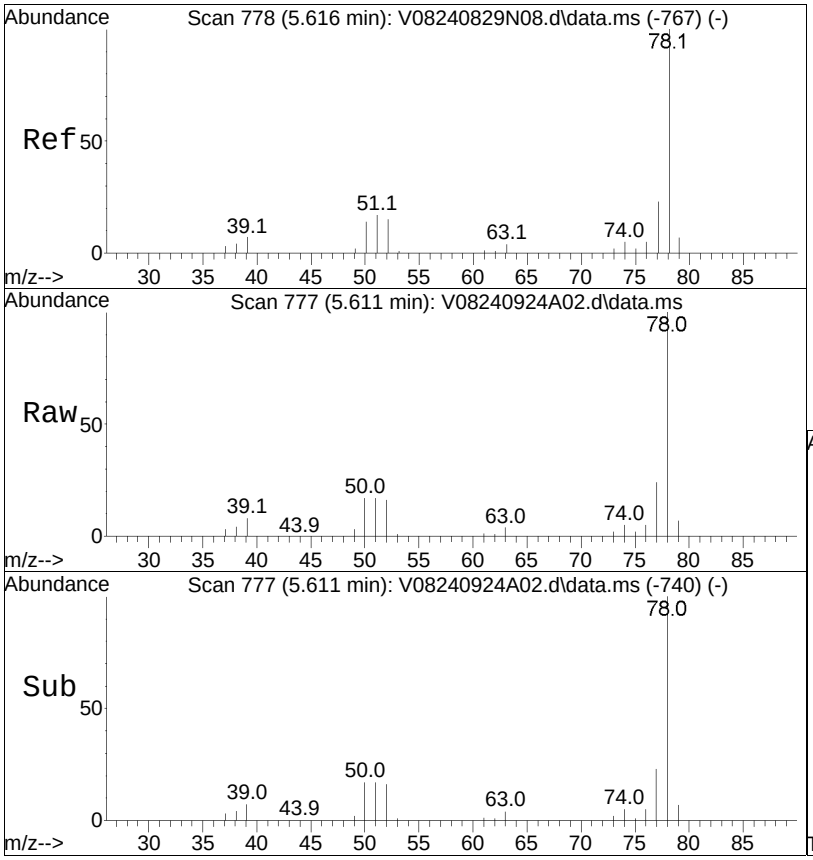


#39
2-Butanone
Concen: 11.14 ug/L
RT: 5.333 min Scan# 724
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 43 Resp: 14074

Ion	Ratio	Lower	Upper
43	100		
72	42.8	10.9	16.3#

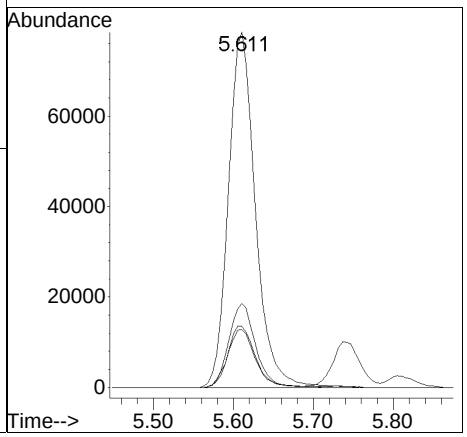


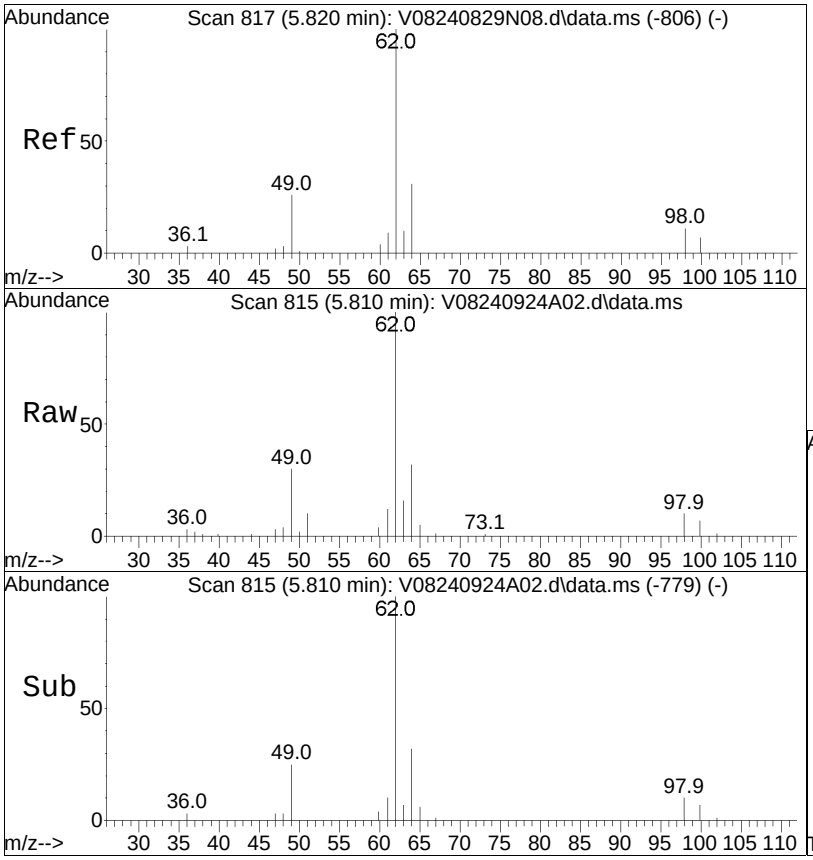


#41
Benzene
Concen: 10.55 ug/L
RT: 5.611 min Scan# 777
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 78 Resp: 184667

Ion	Ratio	Lower	Upper
78	100		
77	23.4	15.7	32.7
51	17.6	16.0	33.2
52	16.6	15.3	31.9

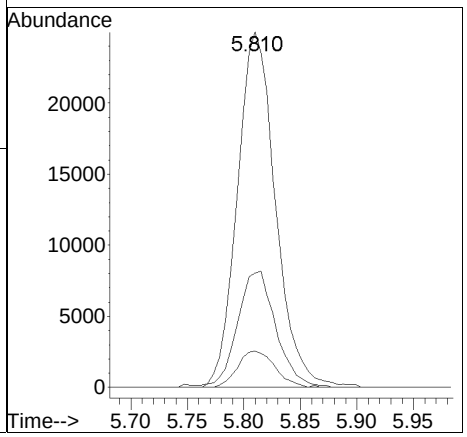


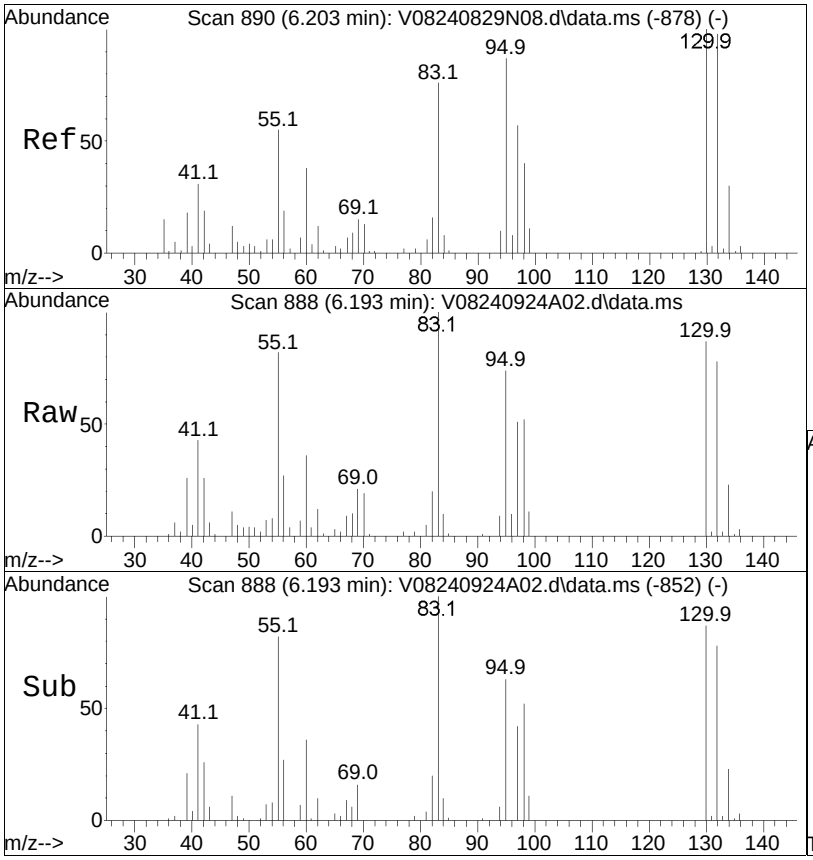


#44
1,2-Dichloroethane
Concen: 10.37 ug/L
RT: 5.810 min Scan# 815
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 62 Resp: 58835

Ion	Ratio	Lower	Upper
62	100		
64	32.9	11.2	51.2
98	10.1	0.0	26.1

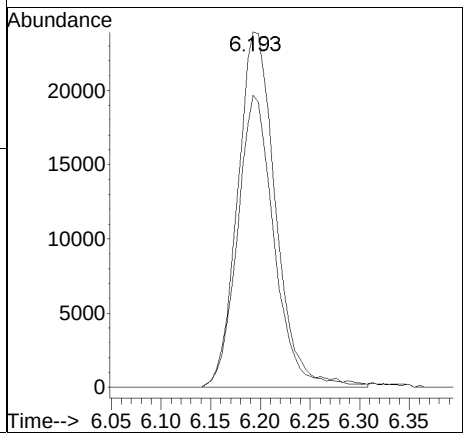


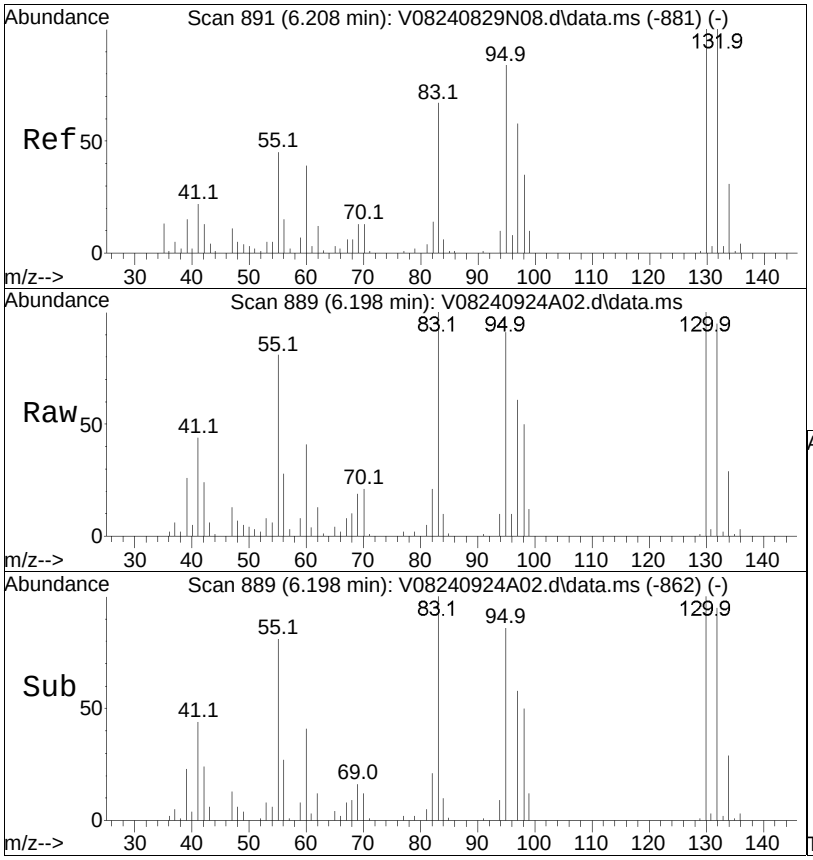


#47
Methyl cyclohexane
Concen: 16.74 ug/L
RT: 6.193 min Scan# 888
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 83 Resp: 63862

Ion	Ratio	Lower	Upper
83	100		
55	79.2	88.3	132.5#

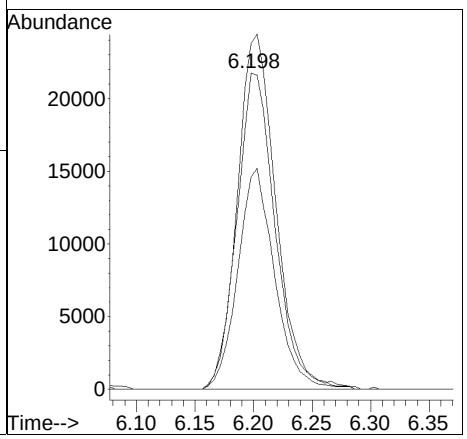


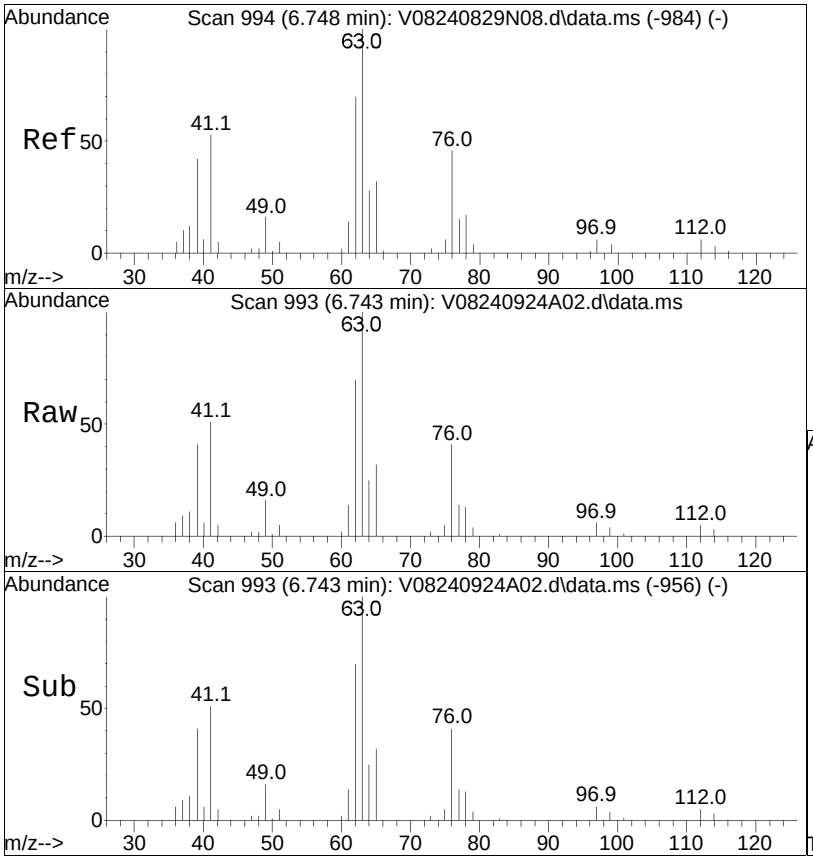


#48
Trichloroethene
Concen: 10.35 ug/L
RT: 6.198 min Scan# 889
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 95 Resp: 49726

Ion	Ratio	Lower	Upper
95	100		
97	67.4	55.5	83.3
130	112.7	76.6	115.0

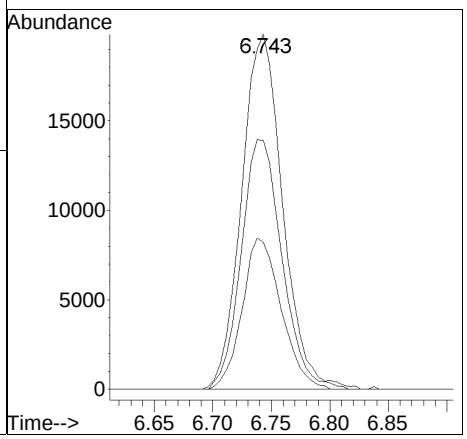


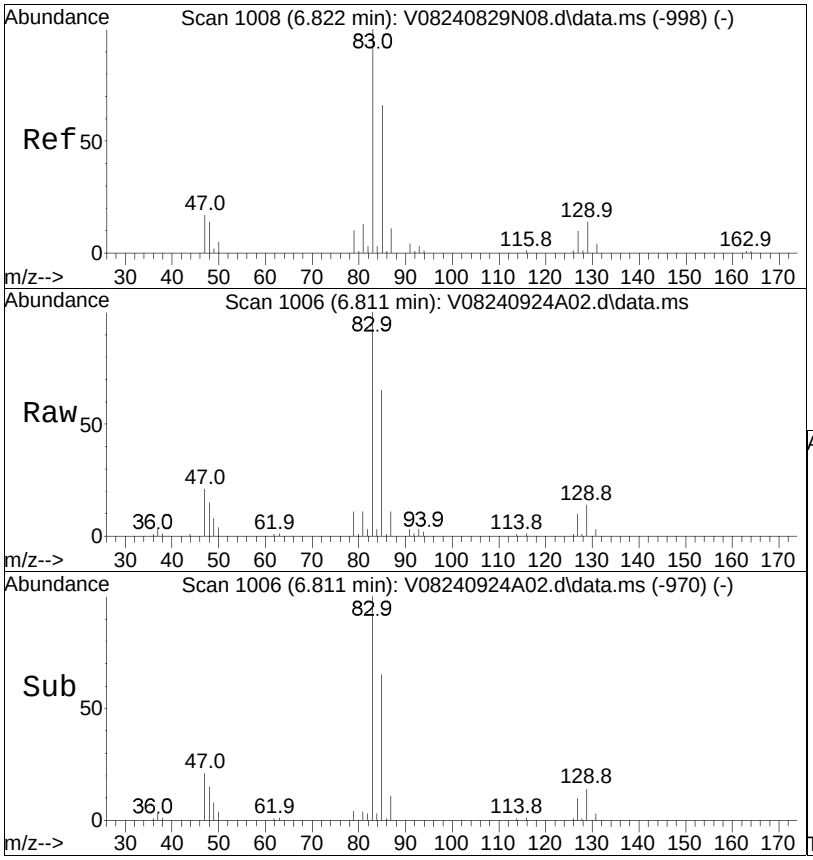


#51
1,2-Dichloropropane
Concen: 11.09 ug/L
RT: 6.743 min Scan# 993
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 63 Resp: 48446

Ion	Ratio	Lower	Upper
63	100		
62	69.9	58.6	87.8
76	40.6	38.0	57.0

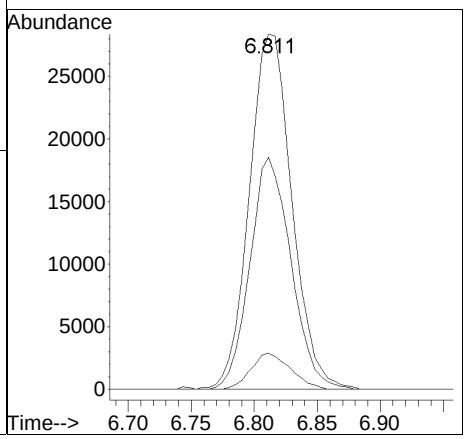


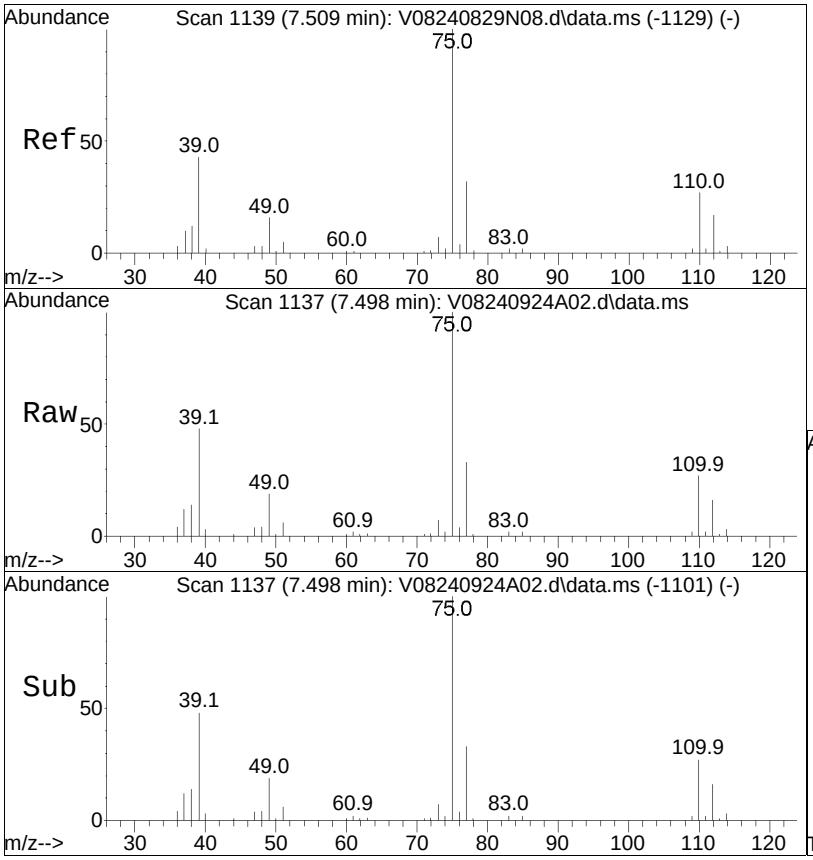


#54
Bromodichloromethane
Concen: 10.22 ug/L
RT: 6.811 min Scan# 1006
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 83 Resp: 66847

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.3	78.5
127	9.5	6.2	9.4#

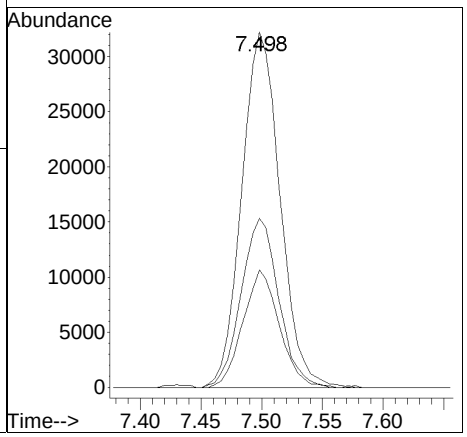


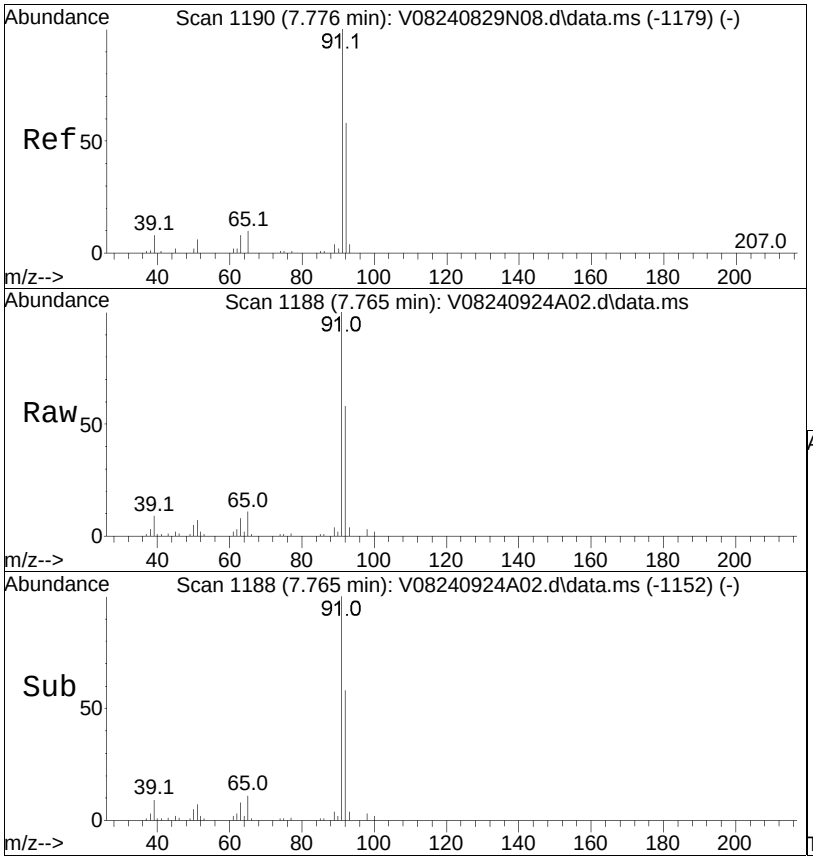


#58
cis-1,3-Dichloropropene
Concen: 10.18 ug/L
RT: 7.498 min Scan# 1137
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 75 Resp: 70613

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	46.7	50.1	75.1#

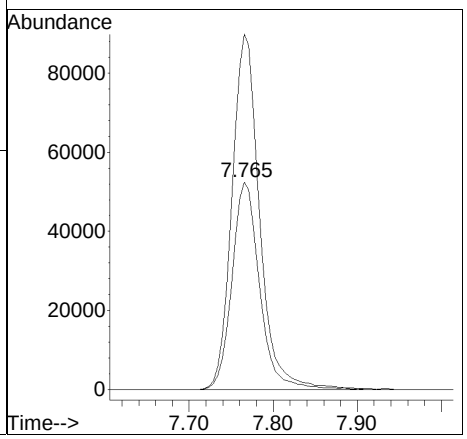


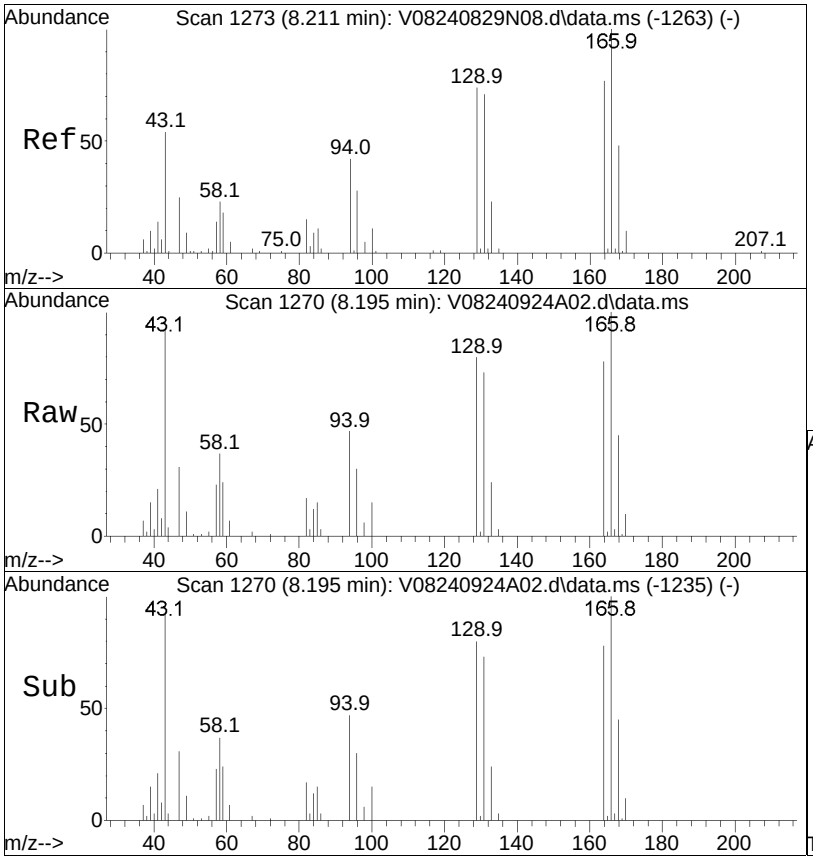


#61
Toluene
Concen: 11.07 ug/L
RT: 7.765 min Scan# 1188
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 92 Resp: 119665

Ion	Ratio	Lower	Upper
92	100		
91	171.0	139.8	209.6

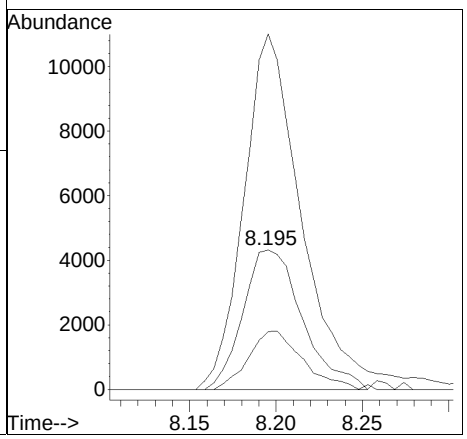


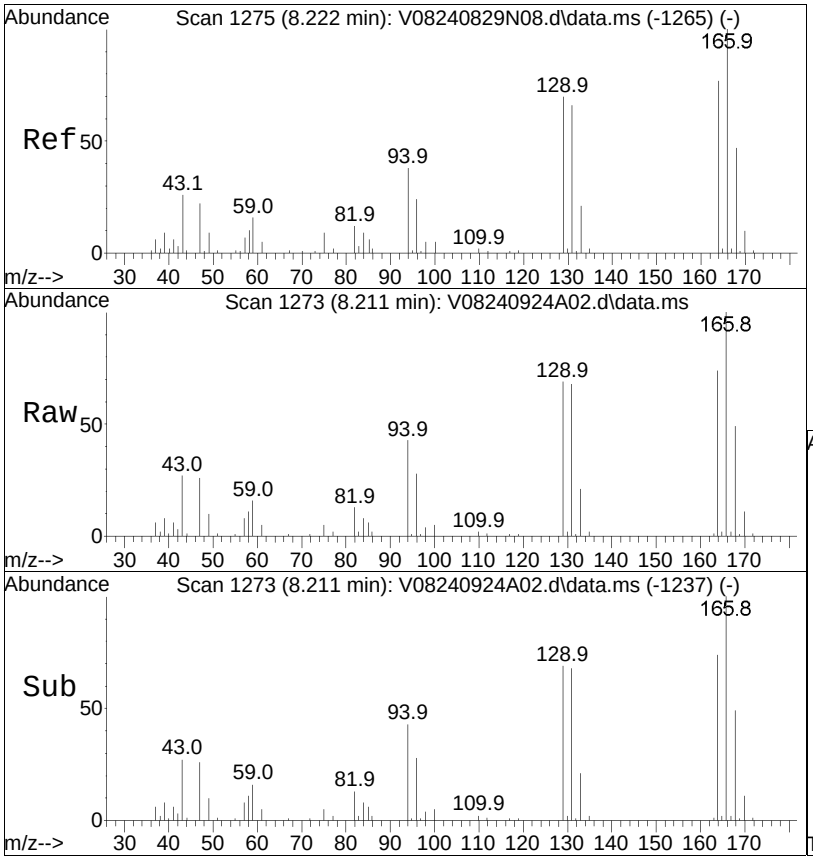


#62
4-Methyl-2-pentanone
Concen: 9.40 ug/L
RT: 8.195 min Scan# 1270
Delta R.T. -0.016 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 58 Resp: 10374

Ion	Ratio	Lower	Upper
58	100		
100	38.5	20.2	30.2#
43	253.0	196.6	295.0

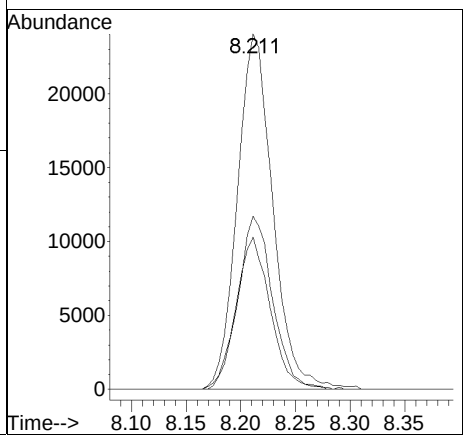


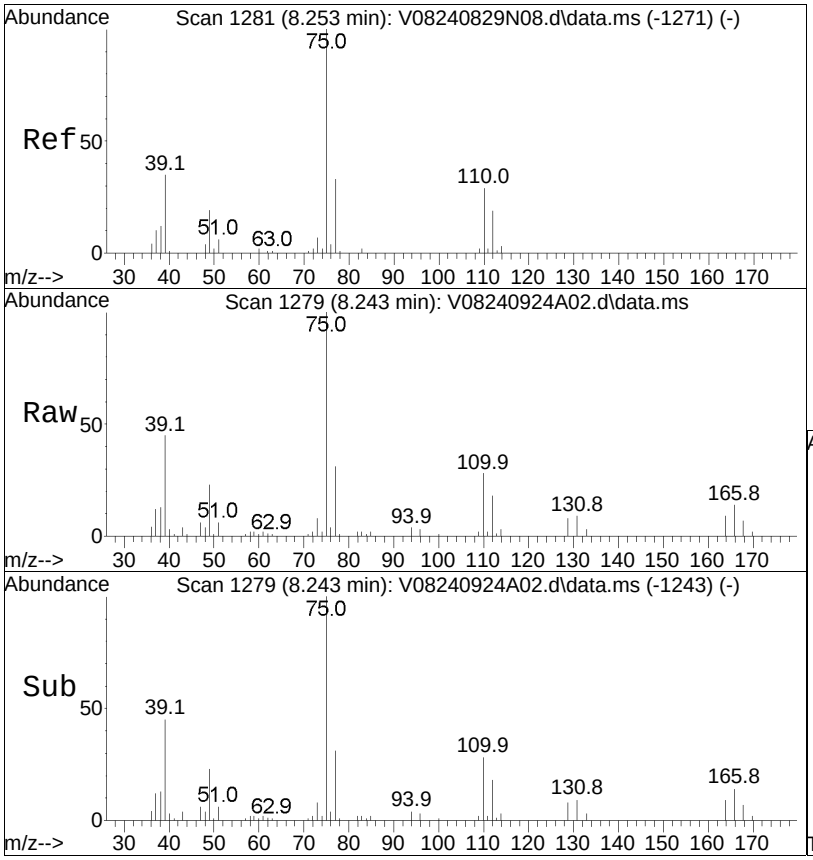


#63
Tetrachloroethene
Concen: 10.74 ug/L
RT: 8.211 min Scan# 1273
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:166 Resp: 54414

Ion	Ratio	Lower	Upper
166	100		
168	47.4	28.2	68.2
94	41.6	38.4	78.4

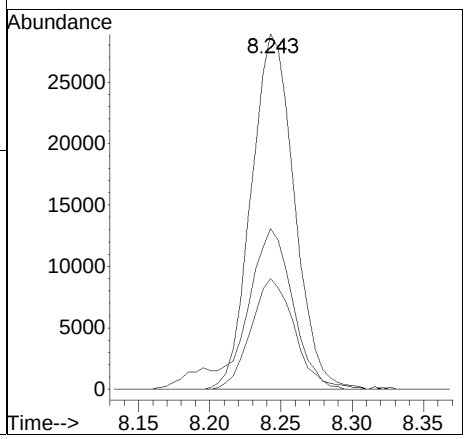


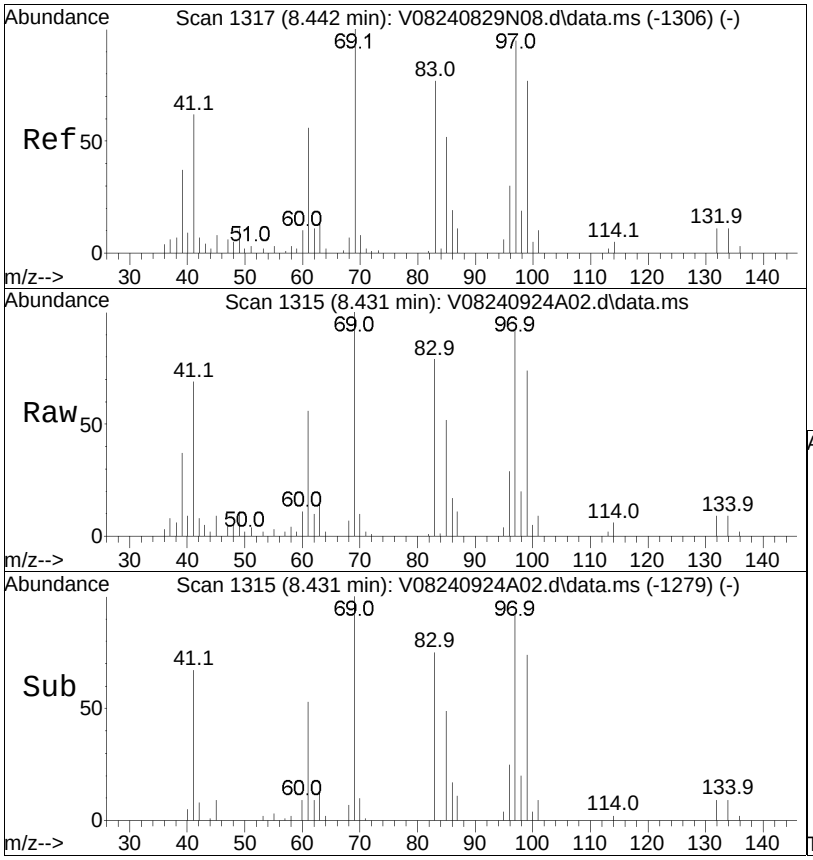


#65
trans-1,3-Dichloropropene
Concen: 10.63 ug/L
RT: 8.243 min Scan# 1279
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 75 Resp: 60687

Ion	Ratio	Lower	Upper
75	100		
77	31.3	12.4	52.4
39	51.0	42.8	82.8

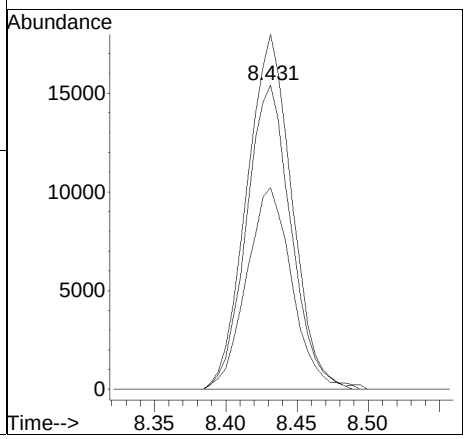


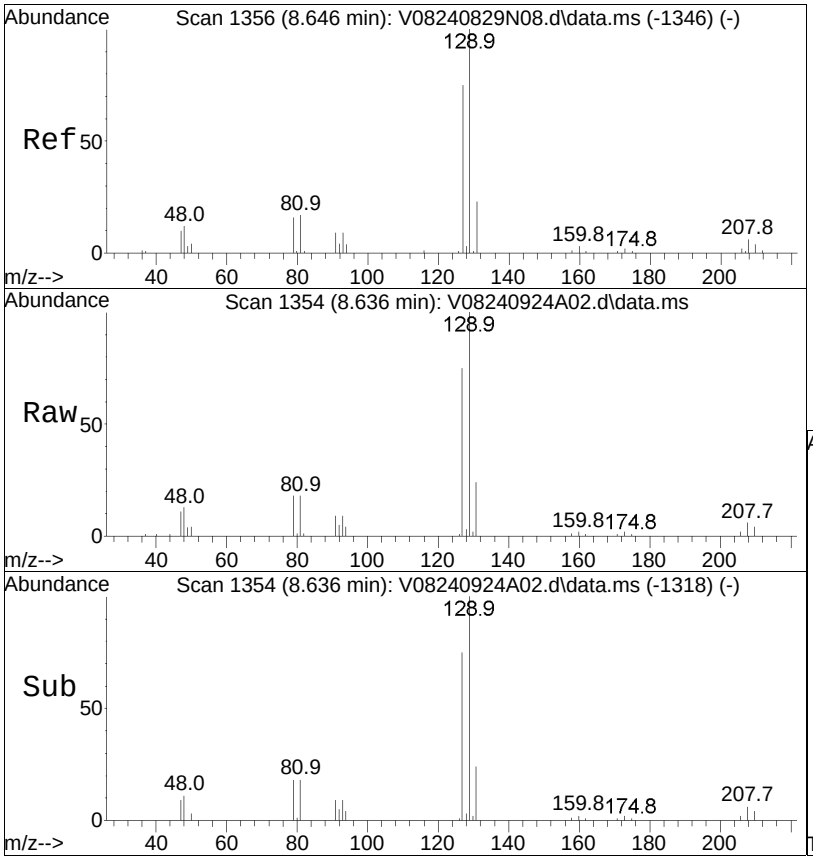


#68
1,1,2-Trichloroethane
Concen: 10.91 ug/L
RT: 8.431 min Scan# 1315
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 83 Resp: 33626

Ion	Ratio	Lower	Upper
83	100		
97	118.1	89.8	129.8
85	67.2	44.4	84.4

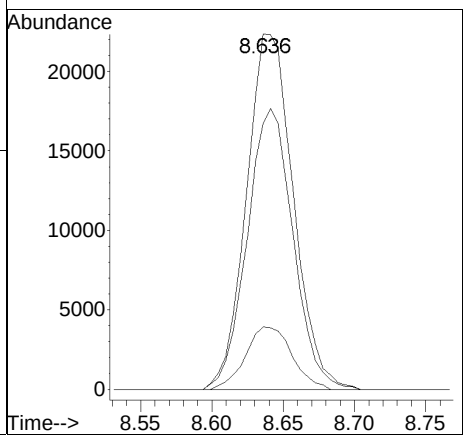


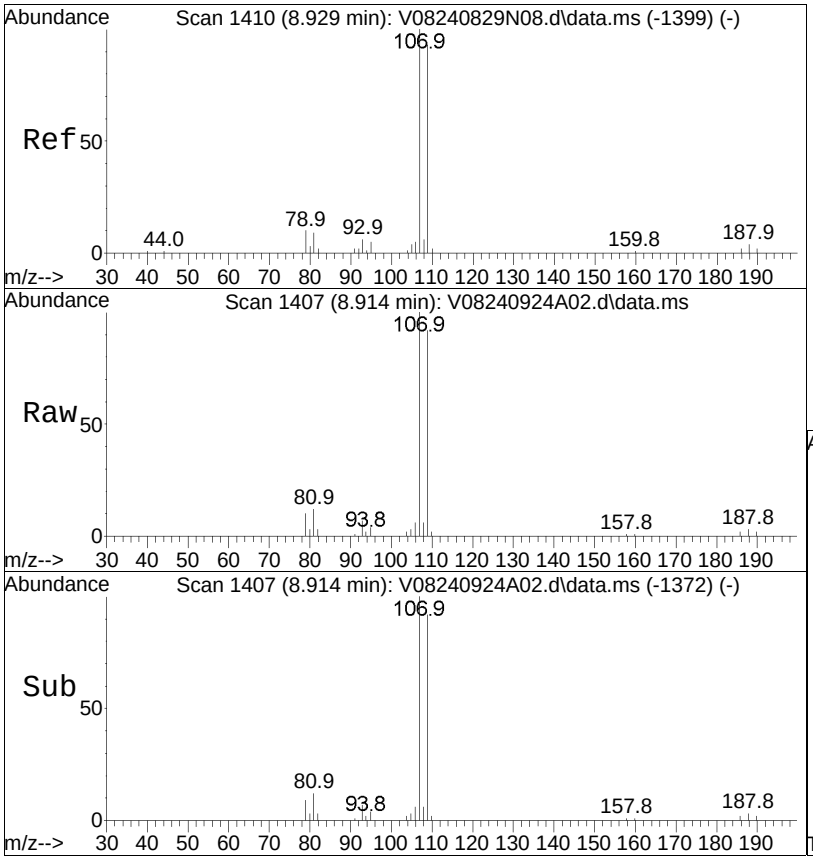


#69
Chlorodibromomethane
Concen: 9.37 ug/L
RT: 8.636 min Scan# 1354
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:129 Resp: 51176

Ion	Ratio	Lower	Upper
129	100		
81	17.4	2.9	42.9
127	77.3	57.8	97.8

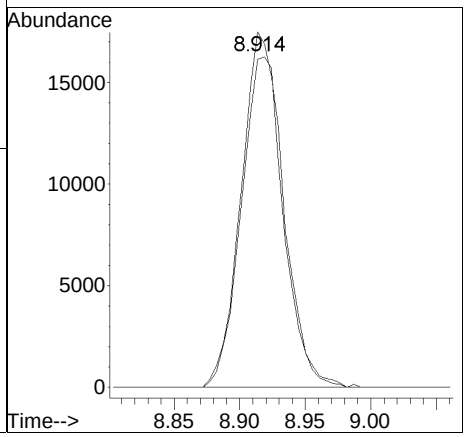


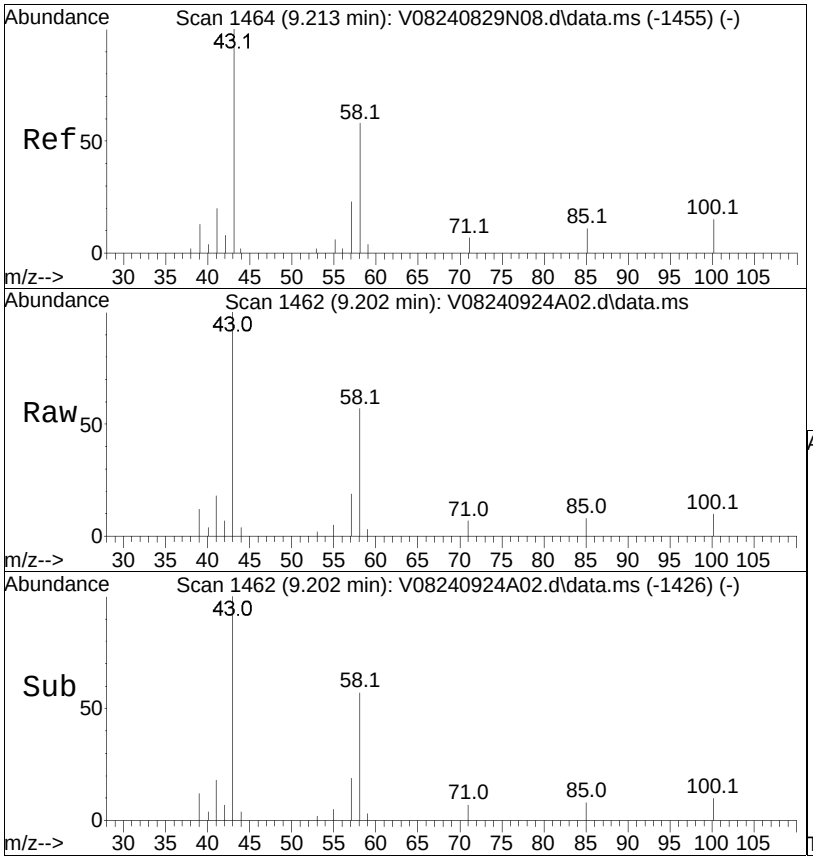


#71
1,2-Dibromoethane
Concen: 10.45 ug/L
RT: 8.914 min Scan# 1407
Delta R.T. -0.015 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:107 Resp: 39232

Ion	Ratio	Lower	Upper
107	100		
109	92.6	74.3	111.5

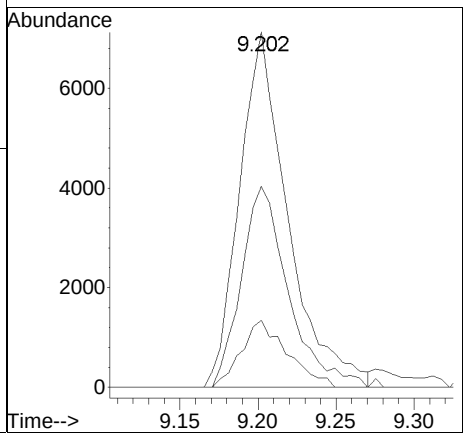


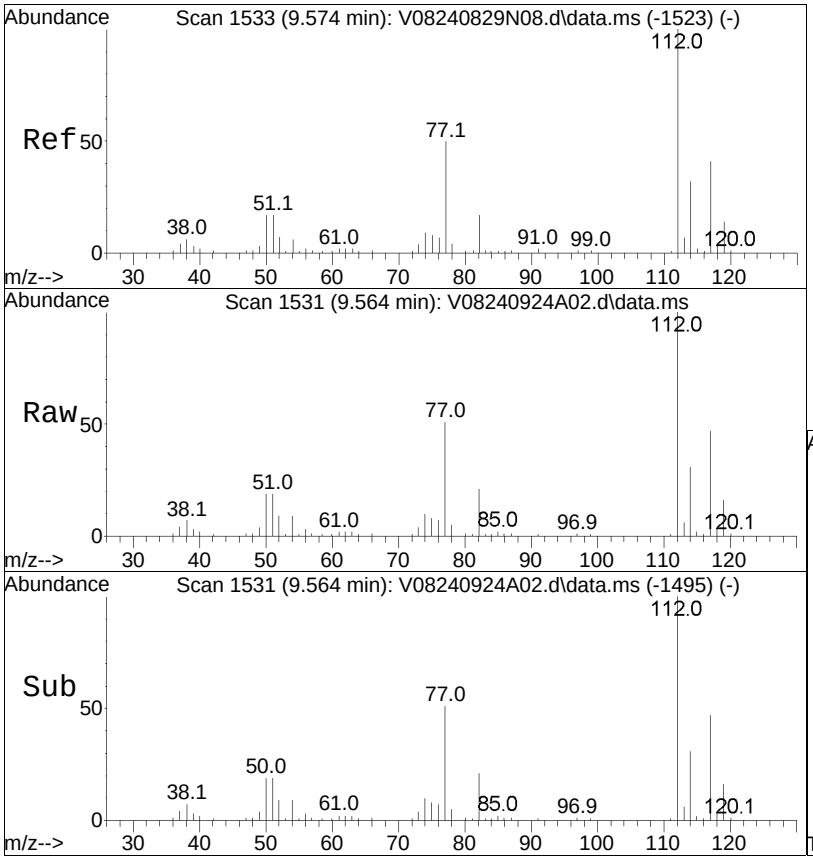


#72
2-Hexanone
Concen: 9.30 ug/L
RT: 9.202 min Scan# 1462
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 43 Resp: 15404

Ion	Ratio	Lower	Upper
43	100		
58	55.4	41.2	61.8
57	18.0	17.2	25.8

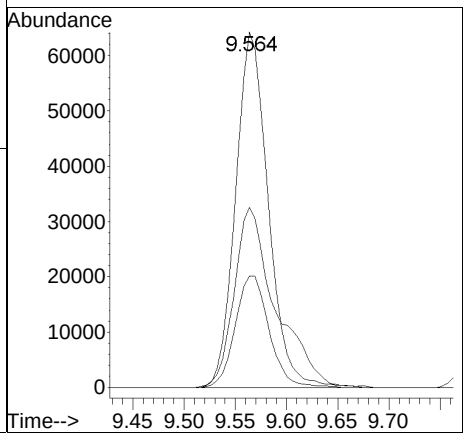


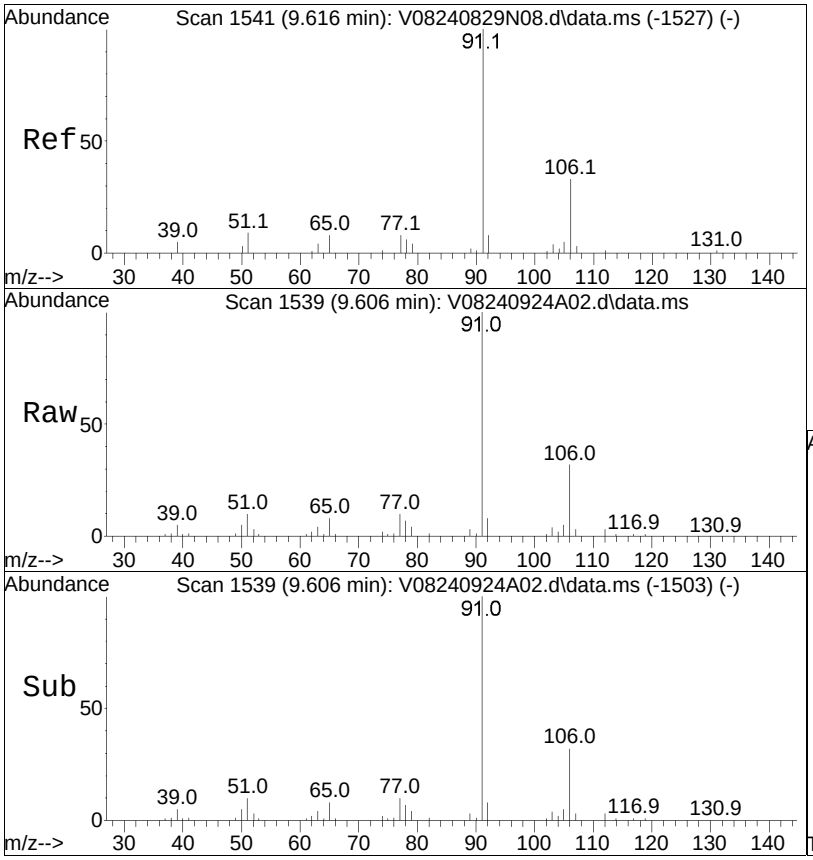


#73
Chlorobenzene
Concen: 10.61 ug/L
RT: 9.564 min Scan# 1531
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:112 Resp: 142198

Ion	Ratio	Lower	Upper
112	100		
77	64.6	55.4	83.0
114	32.6	25.4	38.2

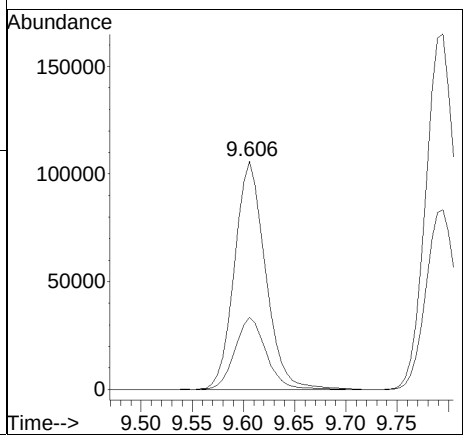


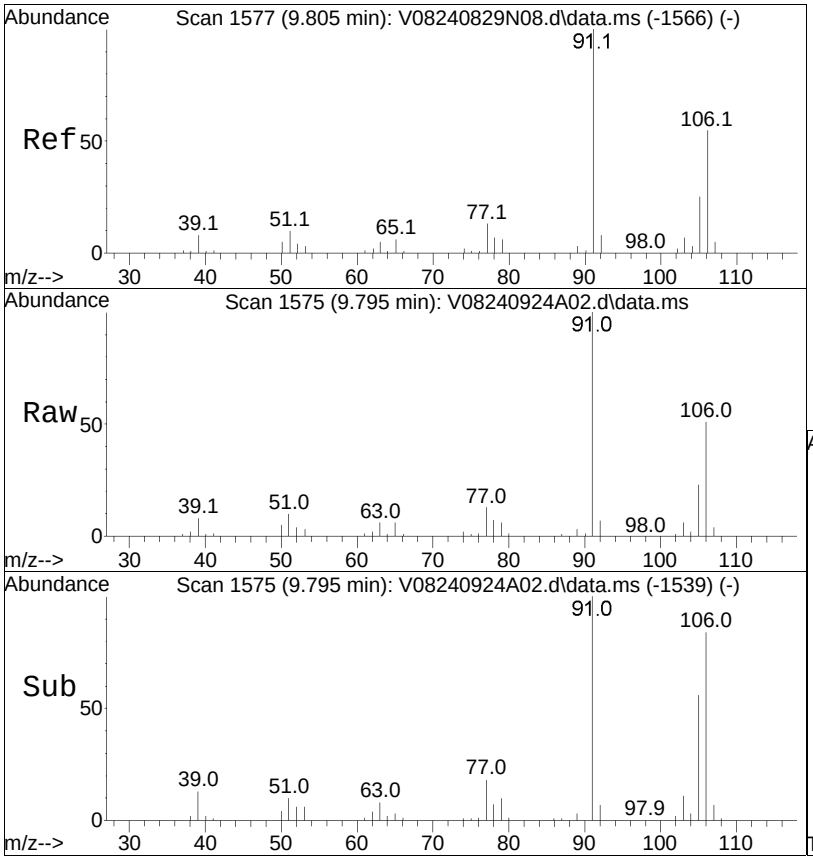


#74
Ethylbenzene
Concen: 11.33 ug/L
RT: 9.606 min Scan# 1539
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 91 Resp: 222892

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.3	36.5

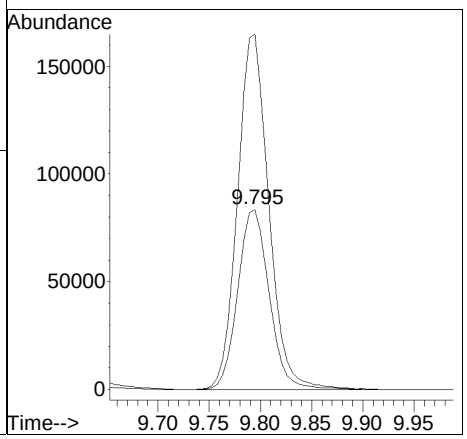


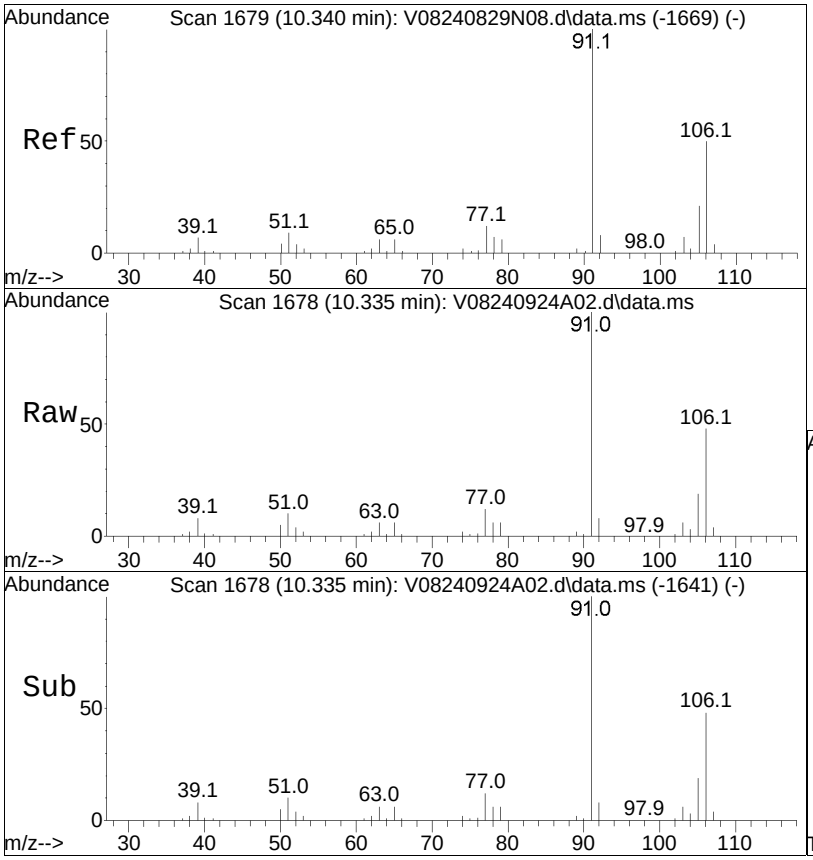


#76
p/m Xylene
Concen: 21.55 ug/L
RT: 9.795 min Scan# 1575
Delta R.T. -0.010 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:106 Resp: 178316

Ion	Ratio	Lower	Upper
106	100		
91	195.9	166.4	249.6

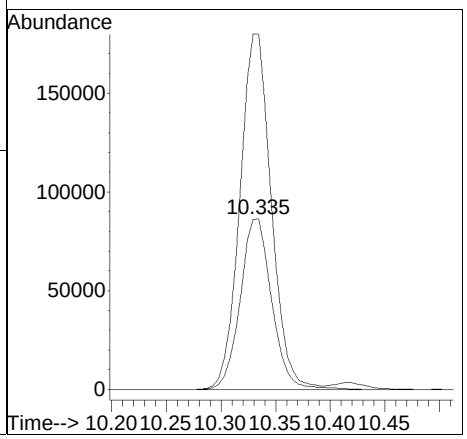


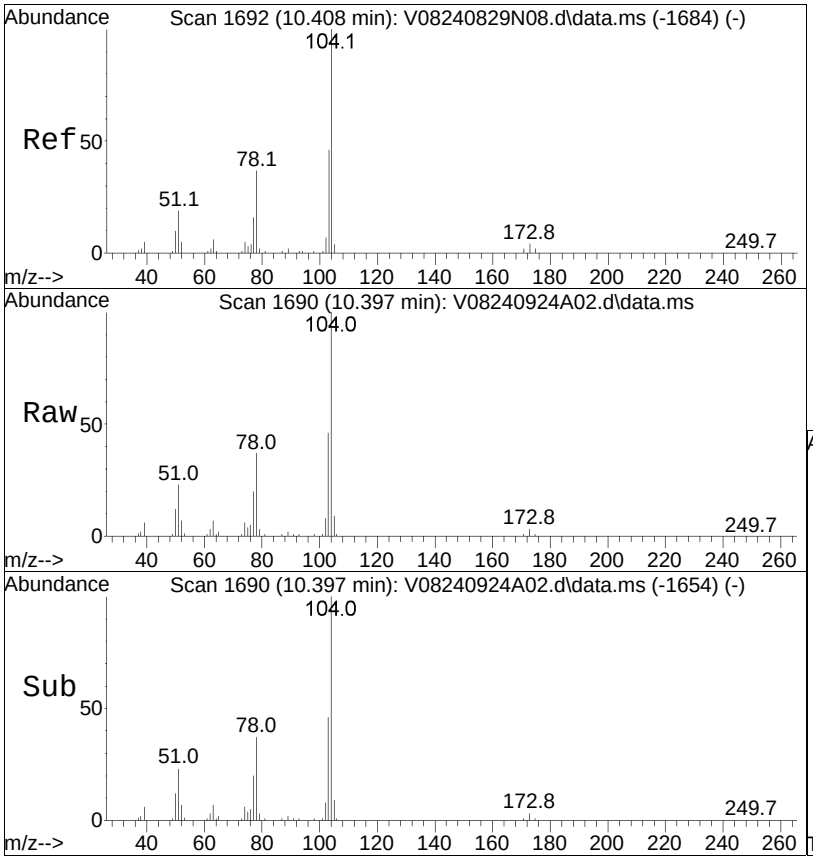


#77
o Xylene
Concen: 21.08 ug/L
RT: 10.335 min Scan# 1678
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:106 Resp: 172721

Ion	Ratio	Lower	Upper
106	100		
91	207.6	182.6	273.8

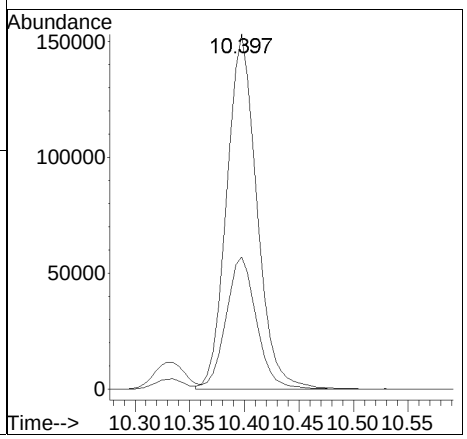


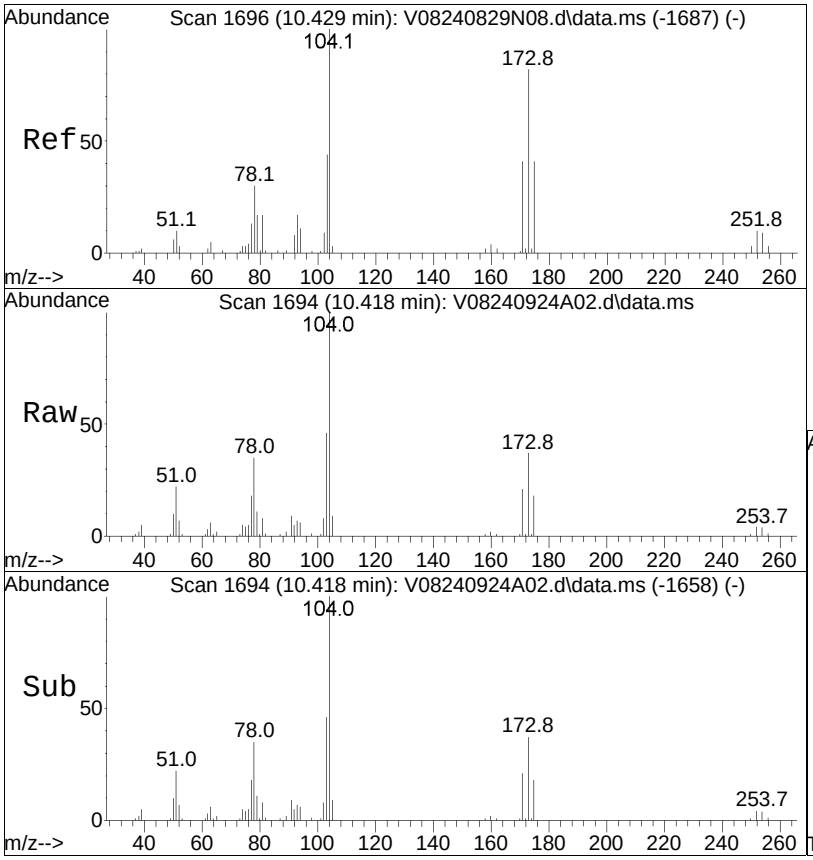


#78
Styrene
Concen: 19.82 ug/L
RT: 10.397 min Scan# 1690
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:104 Resp: 293812

Ion	Ratio	Lower	Upper
104	100		
78	37.7	39.8	59.6#

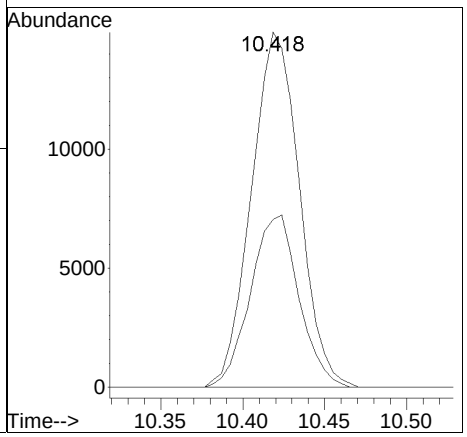


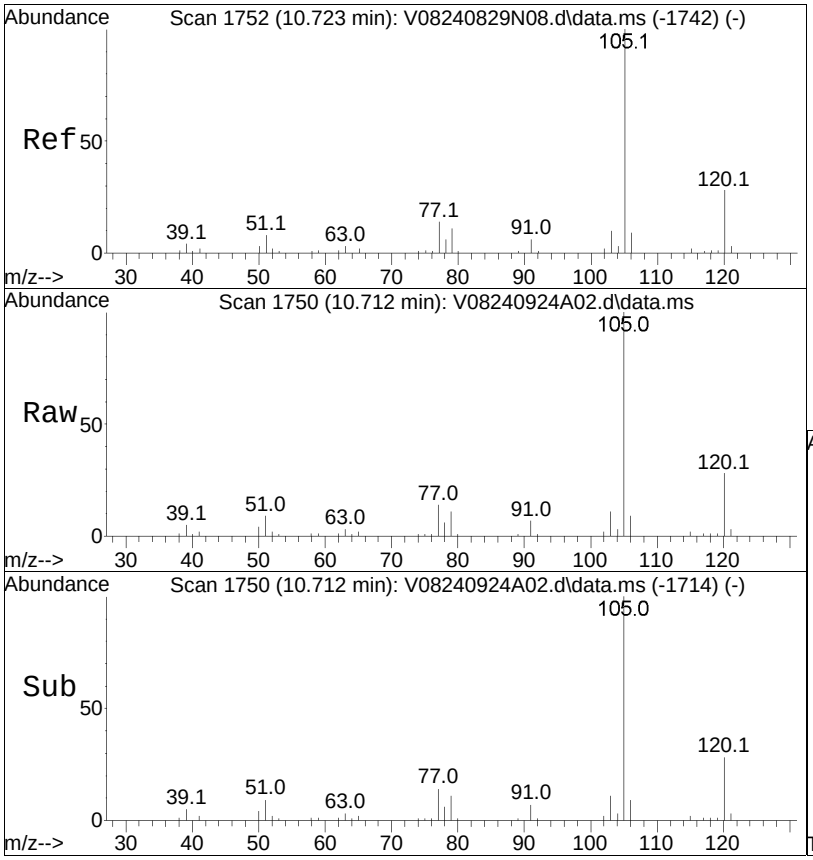


#80
Bromoform
Concen: 8.39 ug/L
RT: 10.418 min Scan# 1694
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:173 Resp: 30432

Ion	Ratio	Lower	Upper
173	100		
175	48.9	31.5	71.5

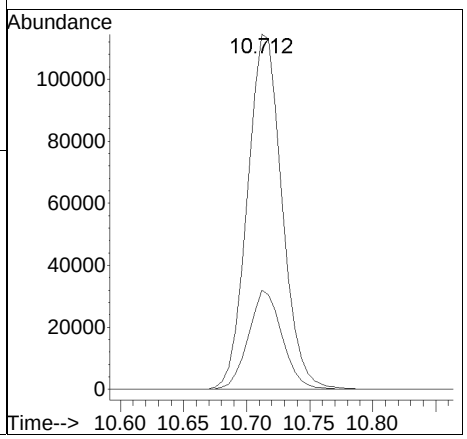


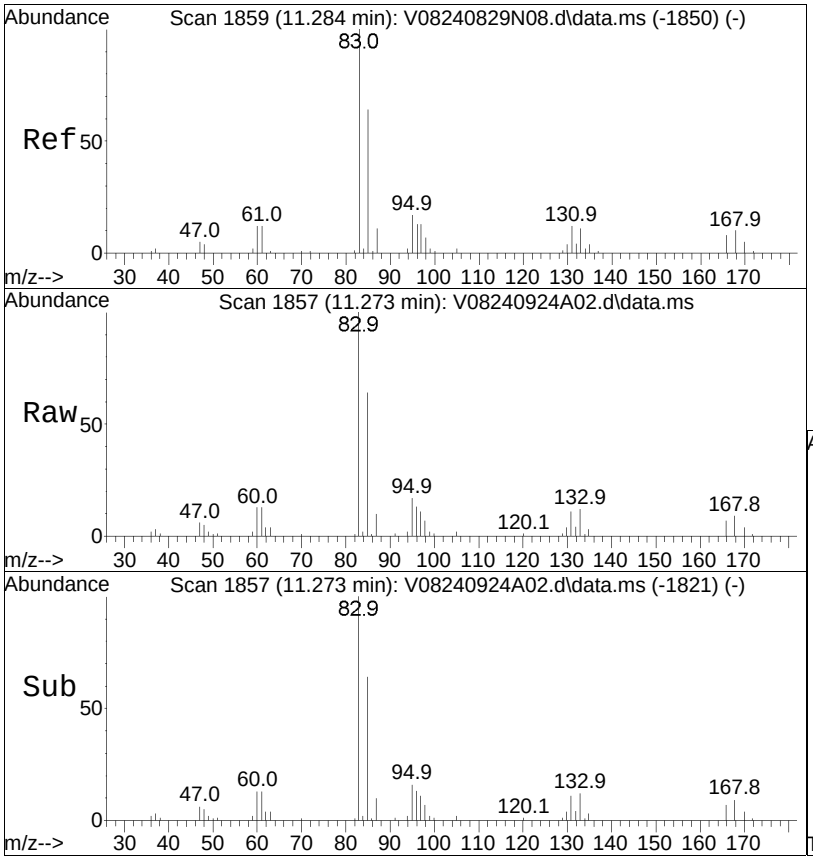


#82
Isopropylbenzene
Concen: 11.36 ug/L
RT: 10.712 min Scan# 1750
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:105 Resp: 218213

Ion	Ratio	Lower	Upper
105	100		
120	27.2	4.8	44.8

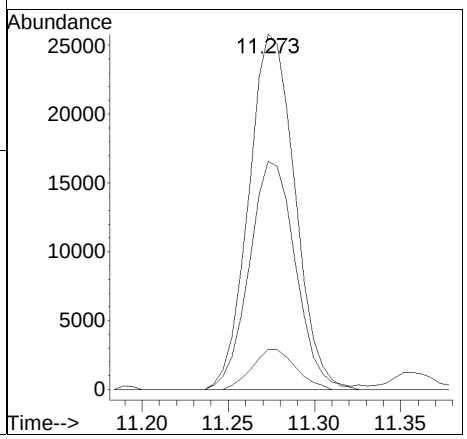


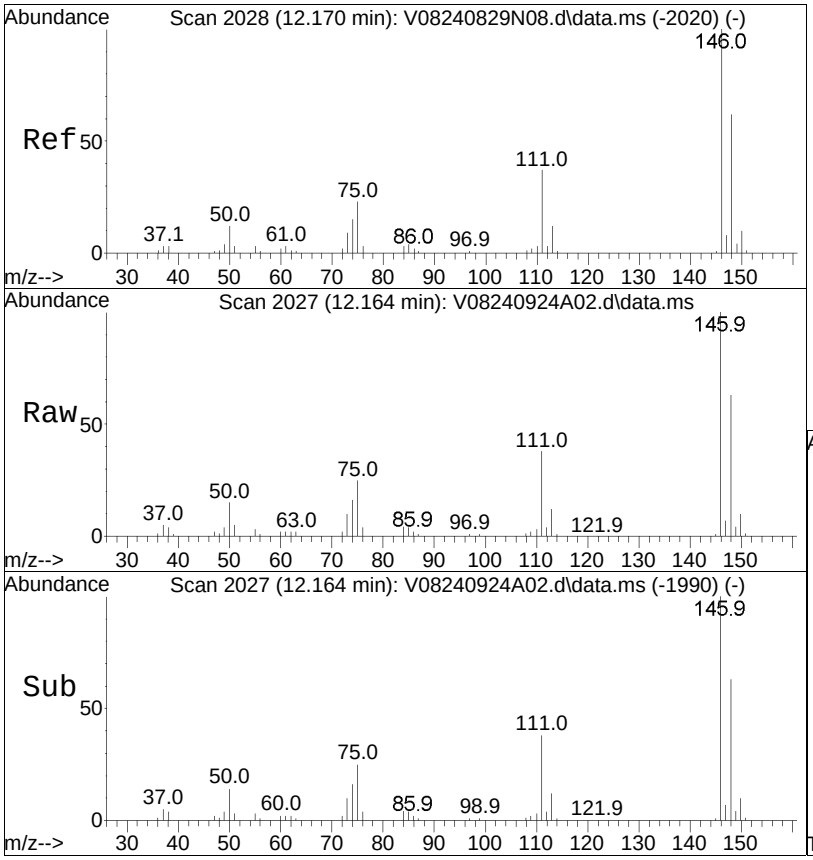


#87
1,1,2,2-Tetrachloroethane
Concen: 10.58 ug/L
RT: 11.273 min Scan# 1857
Delta R.T. -0.011 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion: 83 Resp: 47942

Ion	Ratio	Lower	Upper
83	100		
131	10.7	0.0	30.4
85	64.8	45.4	85.4

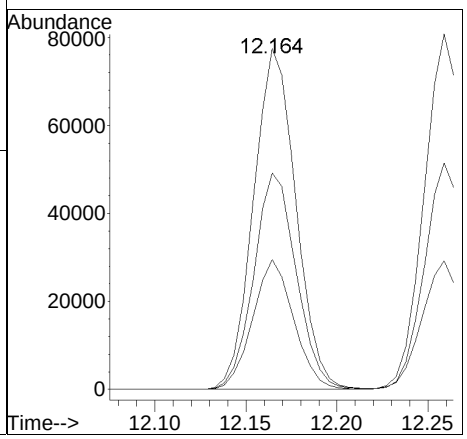


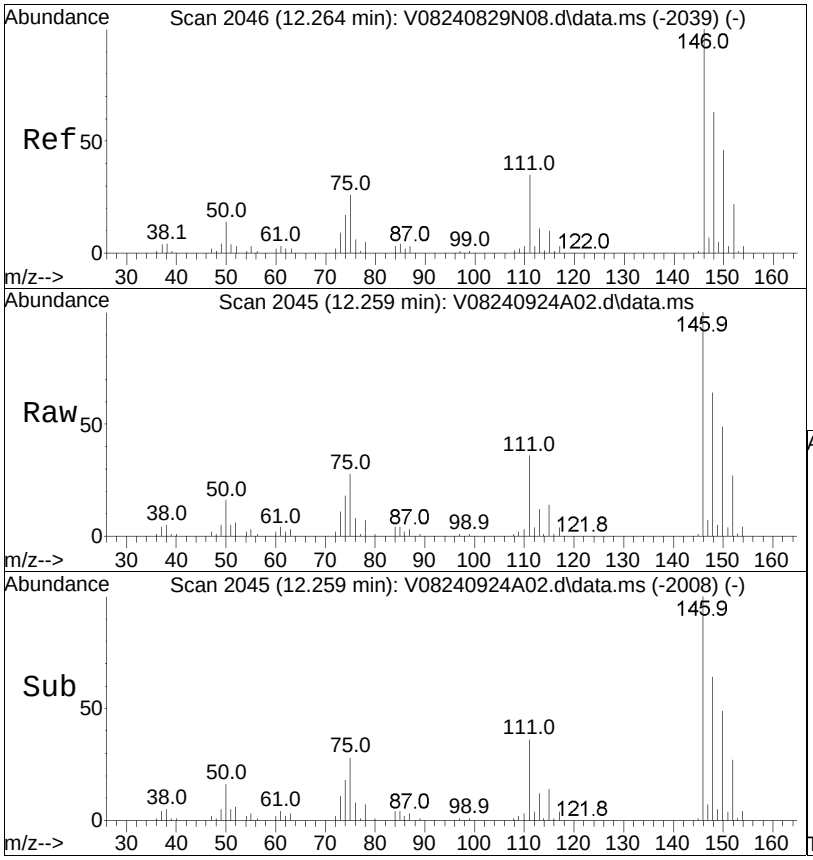


#100
1,3-Dichlorobenzene
Concen: 10.34 ug/L
RT: 12.164 min Scan# 2027
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:146 Resp: 125375

Ion	Ratio	Lower	Upper
146	100		
111	36.9	27.5	57.1
148	63.5	41.9	86.9

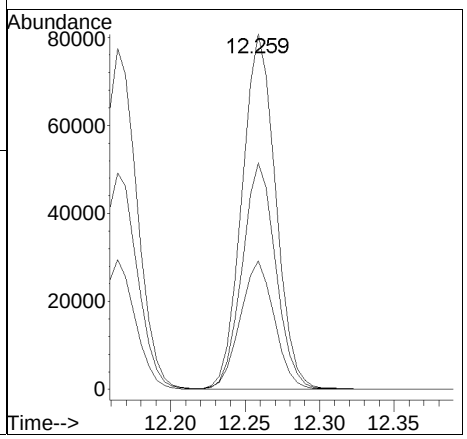


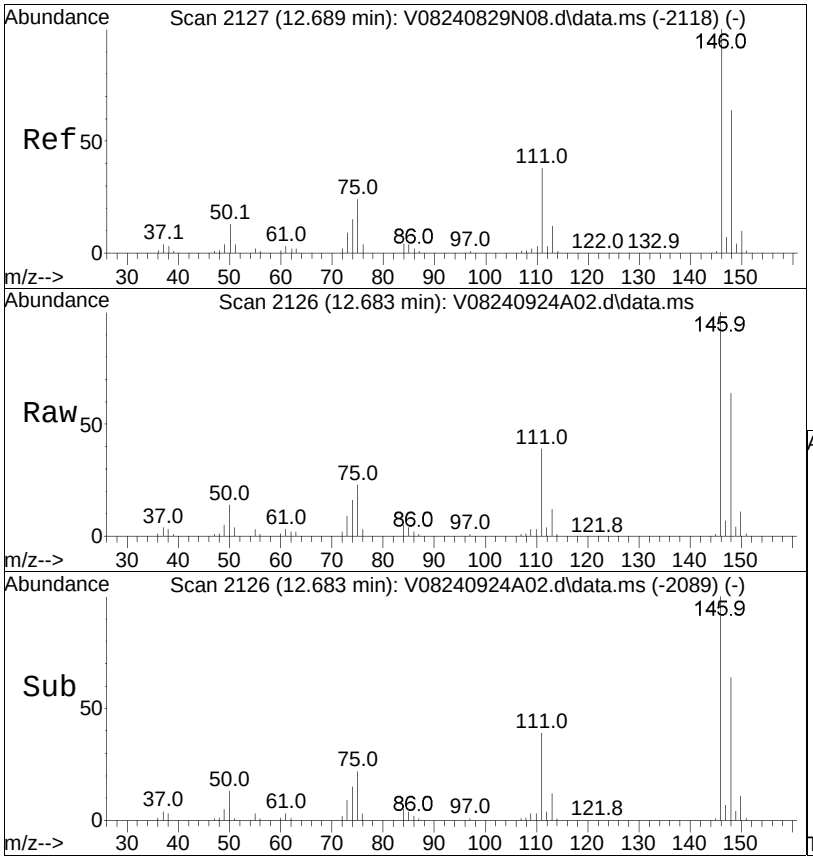


#101
1,4-Dichlorobenzene
Concen: 10.23 ug/L
RT: 12.259 min Scan# 2045
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:146 Resp: 127392

Ion	Ratio	Lower	Upper
146	100		
111	36.7	32.3	48.5
148	63.6	49.9	74.9

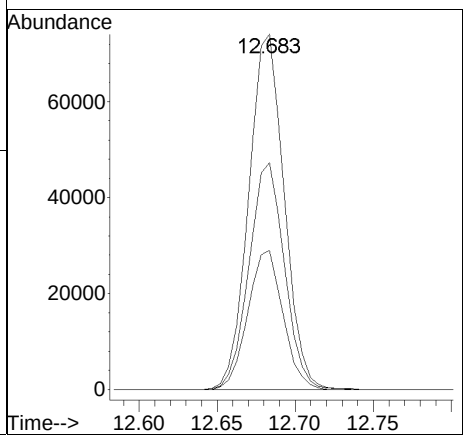


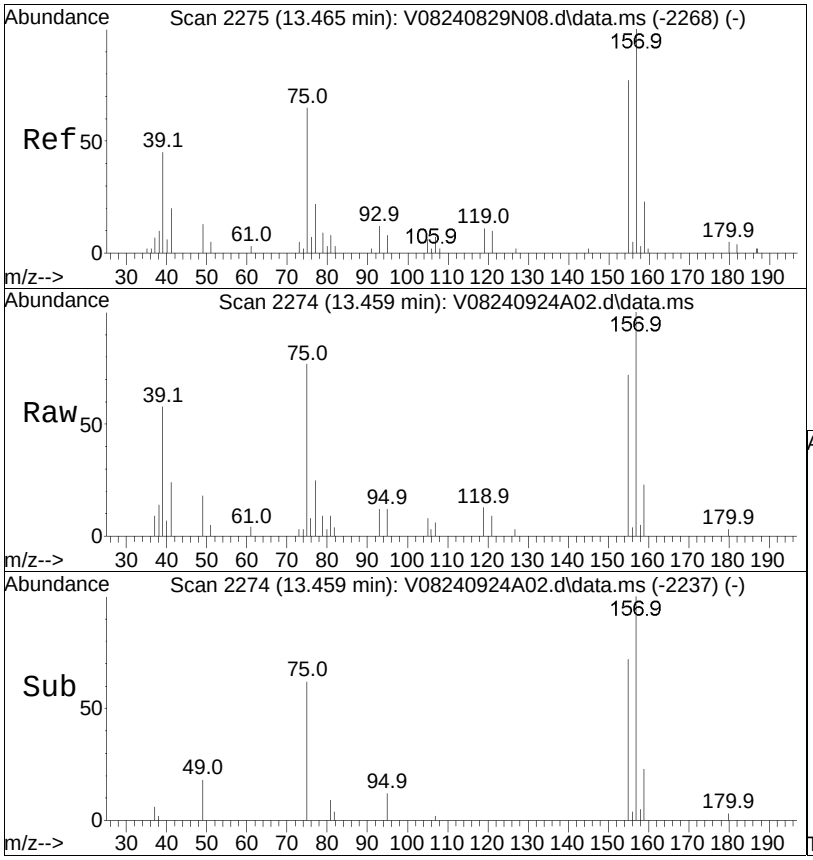


#104
1,2-Dichlorobenzene
Concen: 9.94 ug/L
RT: 12.683 min Scan# 2126
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:146 Resp: 117107

Ion	Ratio	Lower	Upper
146	100		
111	38.7	28.3	58.7
148	63.7	42.3	87.8

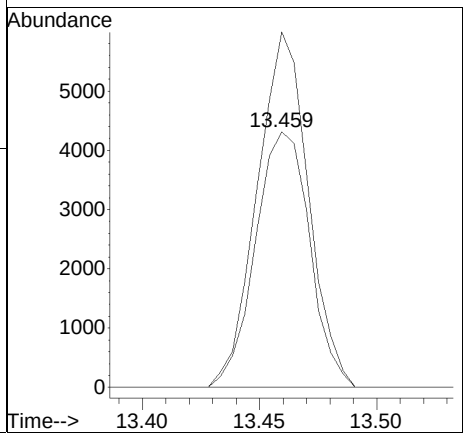


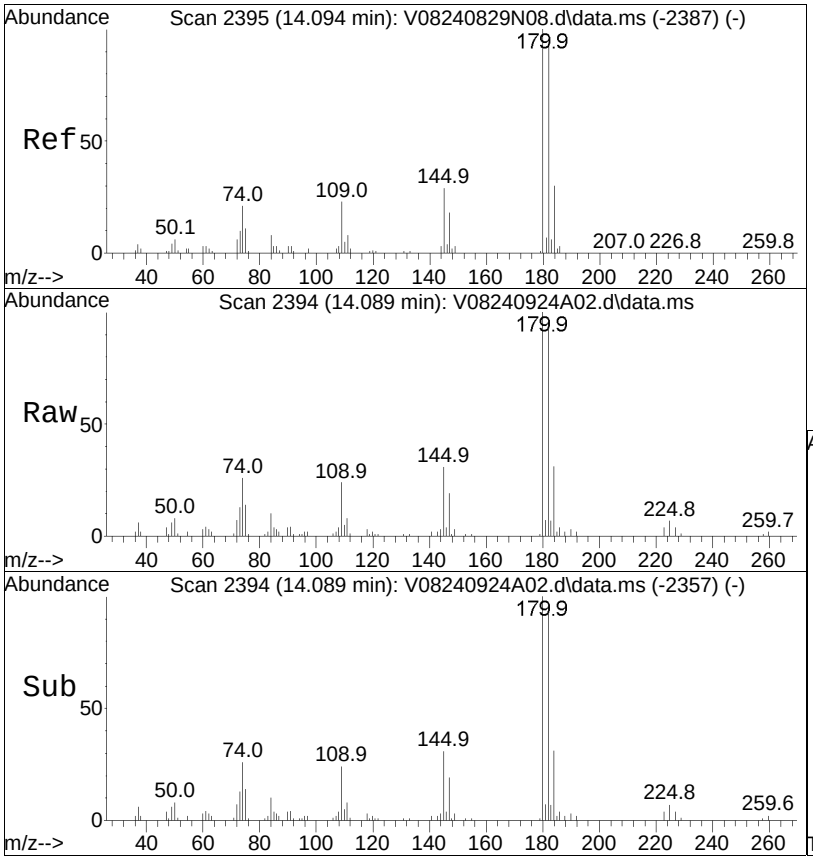


#106
1,2-Dibromo-3-chloropropane
Concen: 8.62 ug/L
RT: 13.459 min Scan# 2274
Delta R.T. -0.006 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:155 Resp: 6948

Ion	Ratio	Lower	Upper
155	100		
157	131.1	94.8	142.2

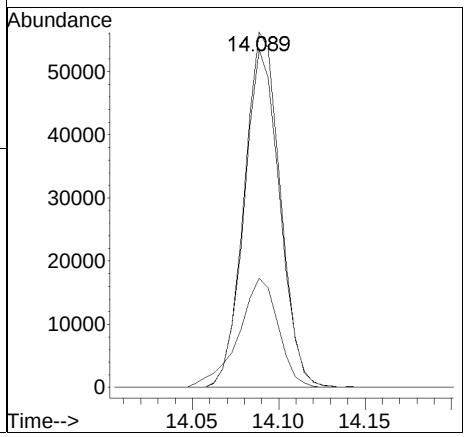


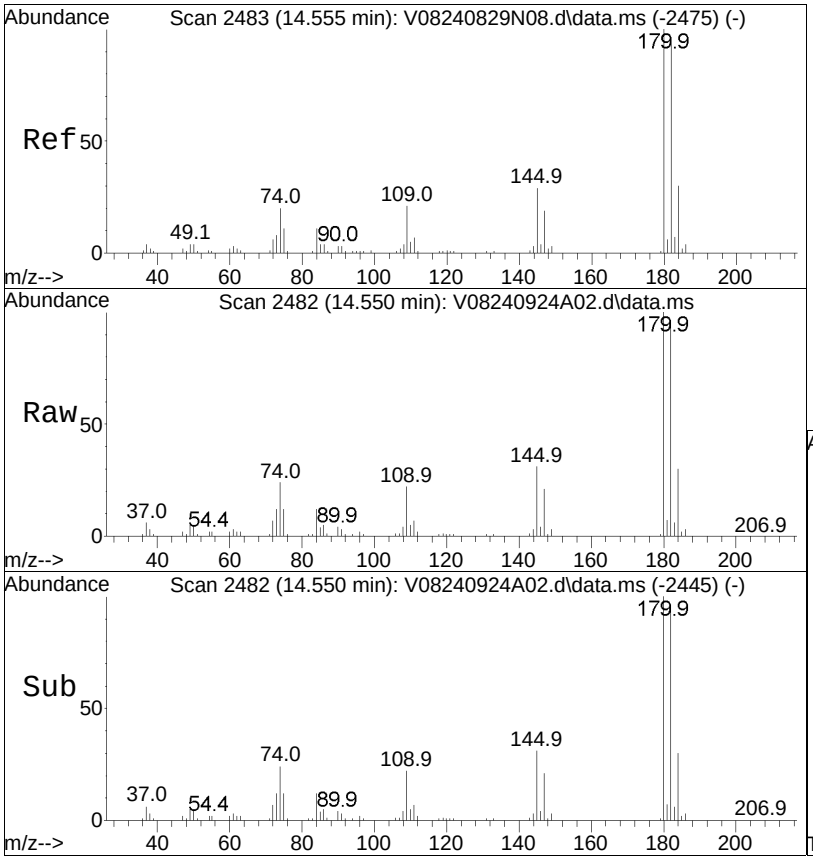


#109
1,2,4-Trichlorobenzene
Concen: 9.97 ug/L
RT: 14.089 min Scan# 2394
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:180 Resp: 81623

Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.3	115.9
145	34.0	28.1	42.1

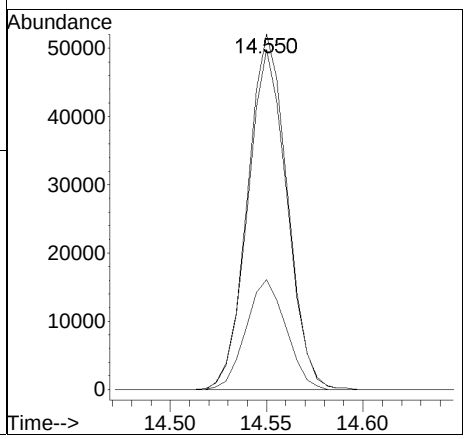




#111
1,2,3-Trichlorobenzene
Concen: 9.78 ug/L
RT: 14.550 min Scan# 2482
Delta R.T. -0.005 min
Lab File: V08240924A02.d
Acq: 24 Sep 2024 7:13 am

Tgt Ion:180 Resp: 74344

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.4	114.6
145	31.1	26.4	39.6



Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A02.D
Acq On : 22 Sep 2024 4:52 pm
Operator : VOA101:PID
Sample : WG1975156-4,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 22 17:13:02 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.938	96	444547	10.000	ug/L	0.00
Standard Area 1 = 434730			Recovery = 102.26%			
59) Chlorobenzene-d5	9.454	117	353449	10.000	ug/L	0.00
Standard Area 1 = 346077			Recovery = 102.13%			
79) 1,4-Dichlorobenzene-d4	12.179	152	193669	10.000	ug/L	0.00
Standard Area 1 = 189151			Recovery = 102.39%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.140	113	117853	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.08%			
43) 1,2-Dichloroethane-d4	5.654	65	121179	9.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.46%			
60) Toluene-d8	7.617	98	434436	10.249	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.49%			
83) 4-Bromofluorobenzene	10.960	95	162803	9.912	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.641	85	138713	11.610	ug/L	100
3) Chloromethane	1.825	50	120217	9.972	ug/L	100
4) Vinyl chloride	1.897	62	136987	8.681	ug/L	99
5) Bromomethane	2.196	94	53360	4.481	ug/L	99
6) Chloroethane	2.304	64	107164	6.679	ug/L	99
7) Trichlorofluoromethane	2.444	101	193100	5.329	ug/L	99
10) 1,1-Dichloroethene	2.923	96	98819	10.161	ug/L	96
11) Carbon disulfide	2.949	76	282436	9.457	ug/L	100
12) Freon-113	2.954	101	104353	9.921	ug/L	88
15) Methylene chloride	3.467	84	99755	9.255	ug/L	94
17) Acetone	3.515	43	15970M4	8.261	ug/L	
18) trans-1,2-Dichloroethene	3.615	96	103182	9.712	ug/L	100
19) Methyl acetate	3.632	43	37085	8.533	ug/L	96
20) Methyl tert-butyl ether	3.715	73	210905	8.615	ug/L	93
23) 1,1-Dichloroethane	4.187	63	196601	10.186	ug/L	99
28) cis-1,2-Dichloroethene	4.703	96	111814	9.418	ug/L	99
30) Bromochloromethane	4.892	128	49963	9.307	ug/L	99
31) Cyclohexane	4.898	56	192341	10.757	ug/L	97
32) Chloroform	4.965	83	179145	9.060	ug/L	100
34) Carbon tetrachloride	5.099	117	142978	9.053	ug/L	99

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A02.D
Acq On : 22 Sep 2024 4:52 pm
Operator : VOA101:PID
Sample : WG1975156-4,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 22 17:13:02 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240922A\V01240922A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.160	97	157794	8.924	ug/L		97
39) 2-Butanone	5.258	43	21012	8.265	ug/L	#	51
41) Benzene	5.525	78	399177	9.257	ug/L		97
44) 1,2-Dichloroethane	5.723	62	119707	9.274	ug/L		98
47) Methyl cyclohexane	6.105	83	171914	9.029	ug/L		93
48) Trichloroethene	6.119	95	111043	9.119	ug/L		98
51) 1,2-Dichloropropane	6.652	63	106550	10.126	ug/L		98
54) Bromodichloromethane	6.733	83	126064	8.787	ug/L		99
58) cis-1,3-Dichloropropene	7.416	75	142072	9.050	ug/L		95
61) Toluene	7.678	92	260286	9.194	ug/L		99
62) 4-Methyl-2-pentanone	8.113	58	17633	8.855	ug/L		100
63) Tetrachloroethene	8.124	166	118308	10.333	ug/L		98
65) trans-1,3-Dichloropropene	8.160	75	116316	9.155	ug/L		97
68) 1,1,2-Trichloroethane	8.345	83	58130	8.916	ug/L		95
69) Chlorodibromomethane	8.556	129	84713	9.019	ug/L		99
71) 1,2-Dibromoethane	8.830	107	69045	9.476	ug/L		98
72) 2-Hexanone	9.123	43	29669	8.295	ug/L		98
73) Chlorobenzene	9.477	112	287685	9.146	ug/L		96
74) Ethylbenzene	9.513	91	508689	9.016	ug/L		99
76) p/m Xylene	9.700	106	395110	17.129	ug/L		96
77) o Xylene	10.244	106	373447	16.994	ug/L		98
78) Styrene	10.316	104	599920	16.934	ug/L		98
80) Bromoform	10.341	173	45837	8.039	ug/L		99
82) Isopropylbenzene	10.631	105	504411	8.663	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.208	83	77668	8.484	ug/L		99
100) 1,3-Dichlorobenzene	12.101	146	228178	9.113	ug/L		98
101) 1,4-Dichlorobenzene	12.193	146	226518	8.881	ug/L		98
104) 1,2-Dichlorobenzene	12.617	146	198493	9.048	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.398	155	8776	8.308	ug/L		96
109) 1,2,4-Trichlorobenzene	14.031	180	97670	10.038	ug/L		99
111) 1,2,3-Trichlorobenzene	14.493	180	74919	10.061	ug/L		99

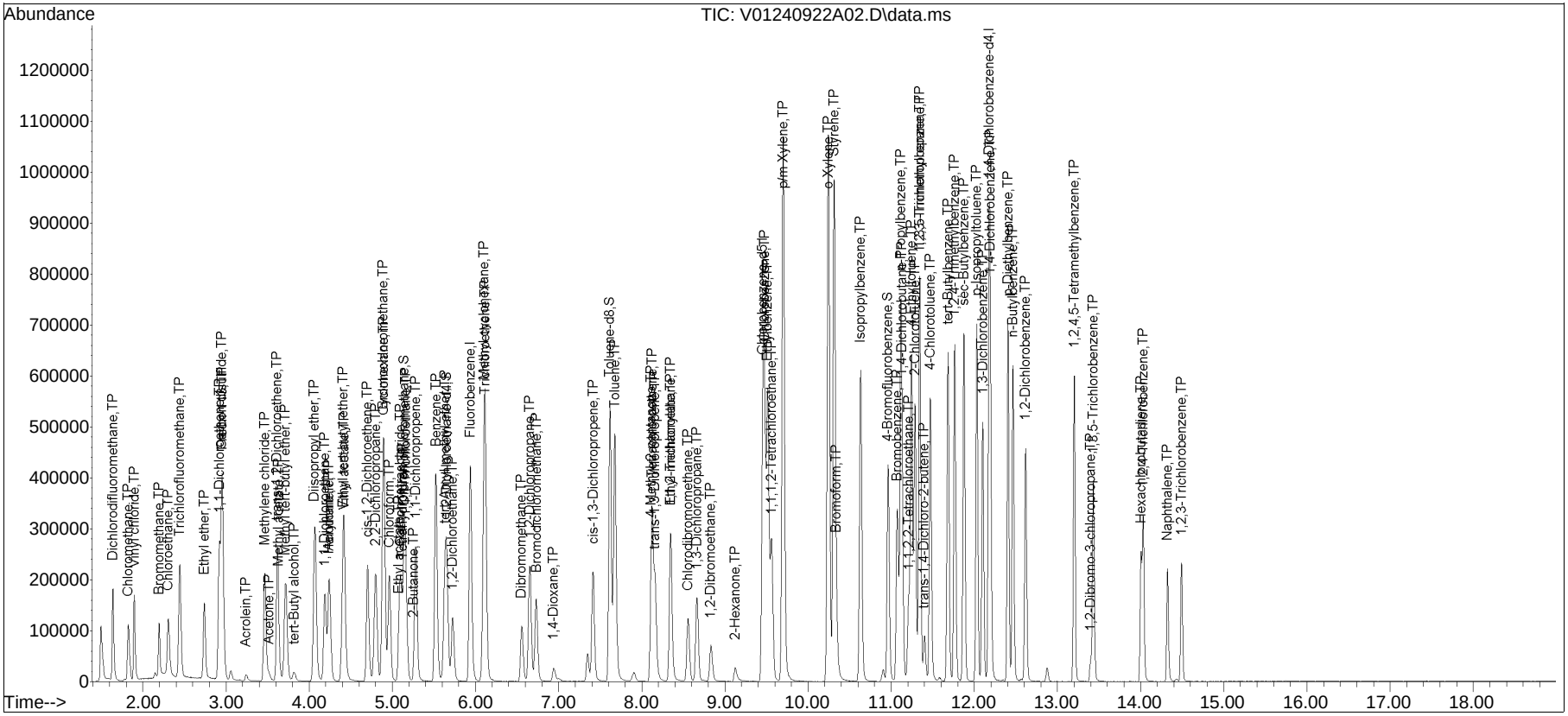
(#) = qualifier out of range (m) = manual integration (+) = signals summed

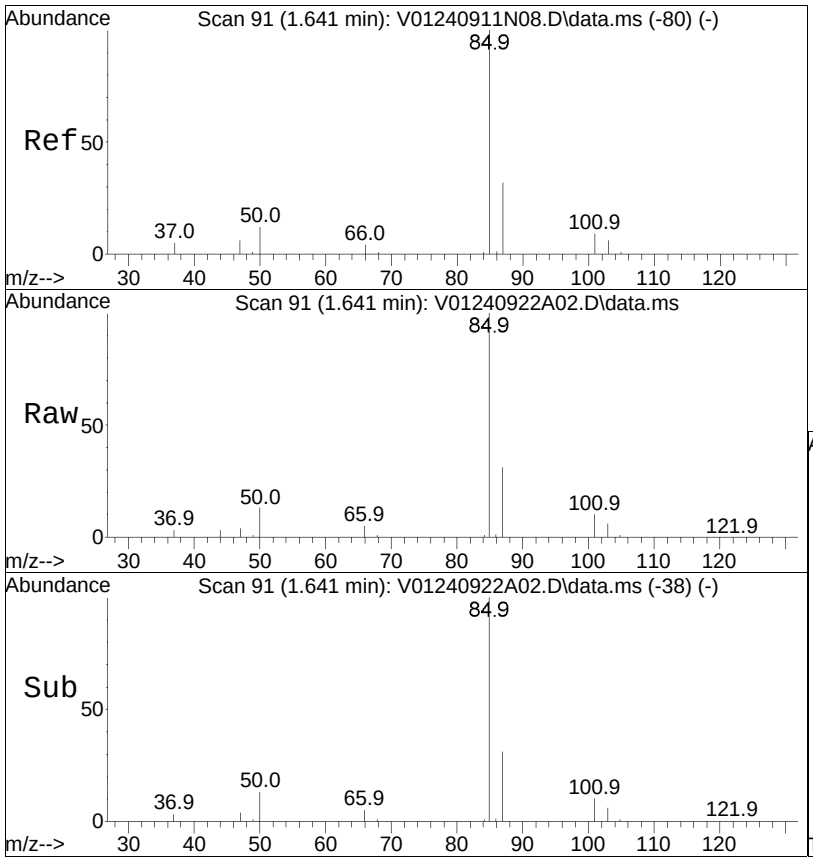
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A02.D
Acq On : 22 Sep 2024 4:52 pm
Operator : VOA101:PID
Sample : WG1975156-4,31,10,10
Misc : WG1975156,ICAL21487
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 22 17:13:02 2024
Quant Method : K:\VOA101\2024\240922A\V101_240911N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Sep 12 12:36:16 2024
Response via : Initial Calibration

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

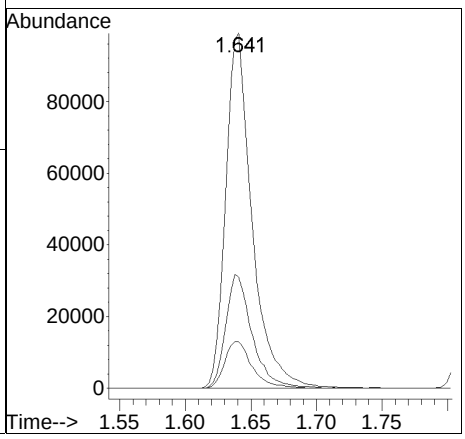


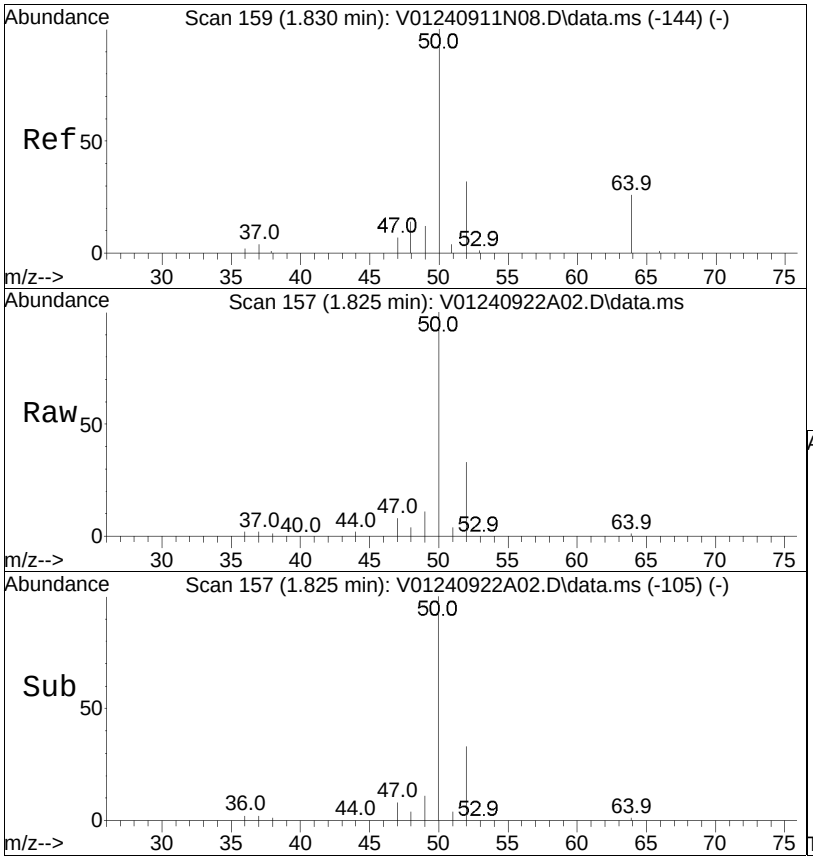


#2
Dichlorodifluoromethane
Concen: 11.61 ug/L
RT: 1.641 min Scan# 91
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 85 Resp: 138713

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.9	43.5
50	13.8	9.1	18.9

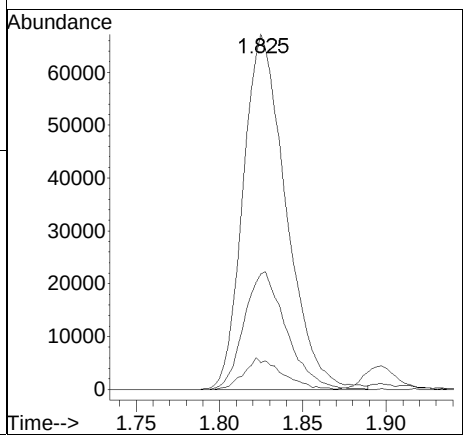


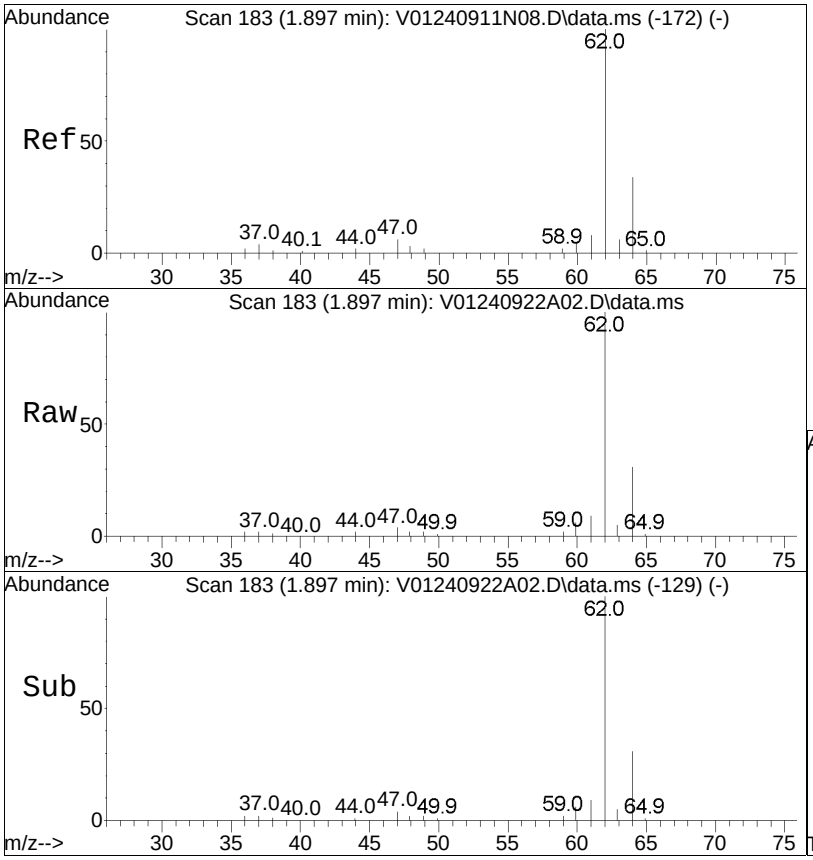


#3
Chloromethane
Concen: 9.97 ug/L
RT: 1.825 min Scan# 157
Delta R.T. -0.005 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 50 Resp: 120217

Ion	Ratio	Lower	Upper
50	100		
52	32.6	12.8	52.8
47	7.9	0.0	28.3

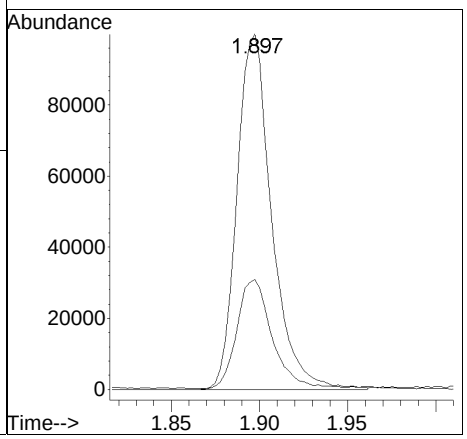


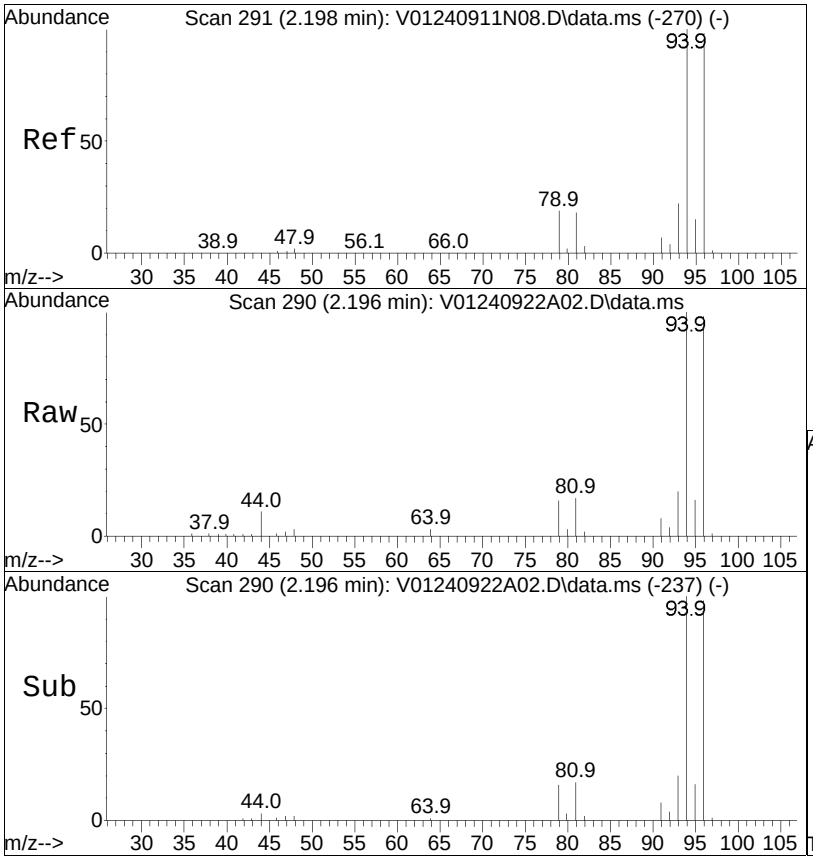


#4
Vinyl chloride
Concen: 8.68 ug/L
RT: 1.897 min Scan# 183
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 62 Resp: 136987

Ion	Ratio	Lower	Upper
62	100		
64	31.2	10.8	50.8

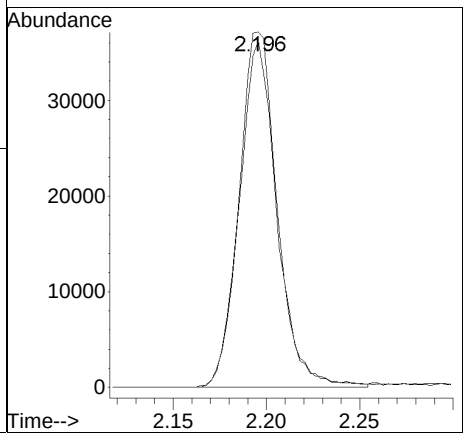


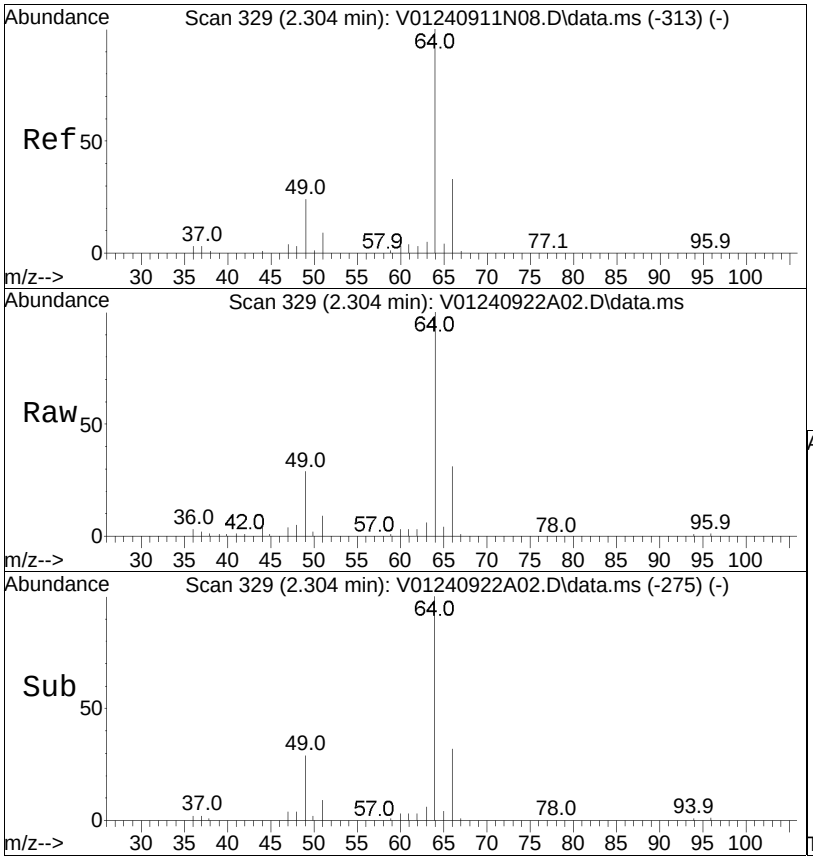


#5
Bromomethane
Concen: 4.48 ug/L
RT: 2.196 min Scan# 290
Delta R.T. -0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 94 Resp: 53360

Ion	Ratio	Lower	Upper
94	100		
96	94.6	73.6	113.6

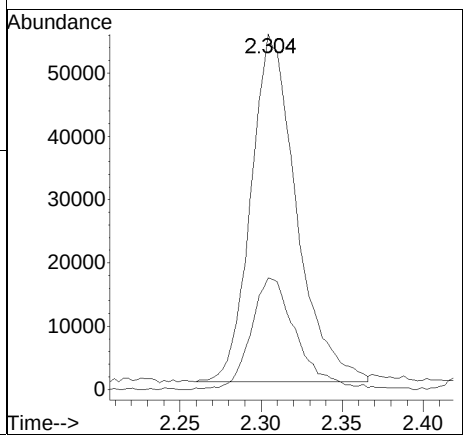


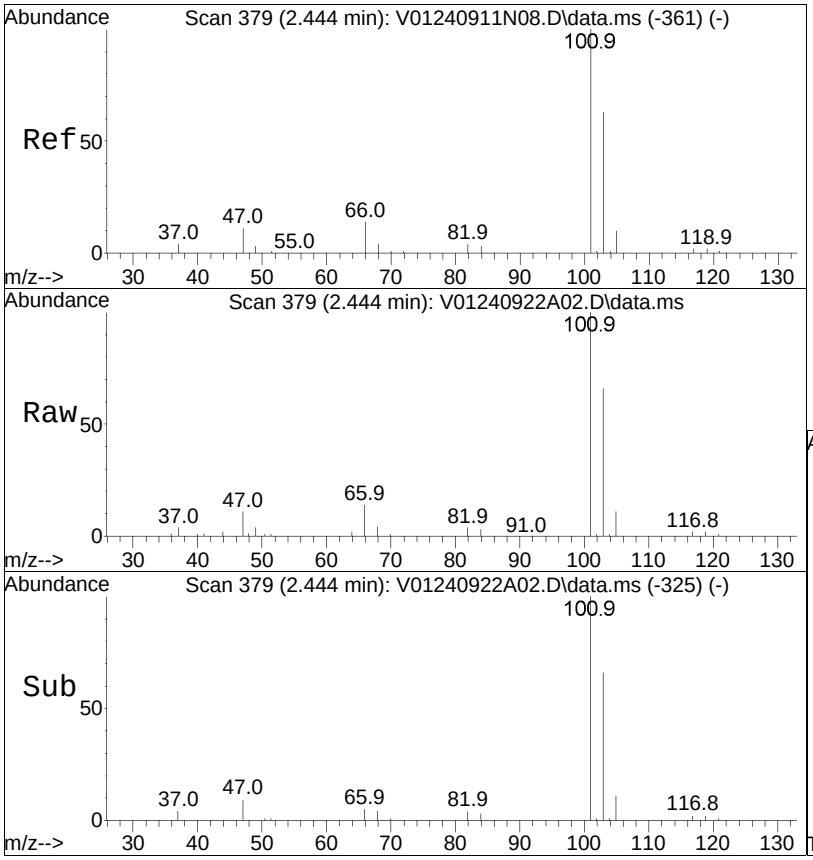


#6
Chloroethane
Concen: 6.68 ug/L
RT: 2.304 min Scan# 329
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 64 Resp: 107164

Ion	Ratio	Lower	Upper
64	100		
66	32.3	12.7	52.7

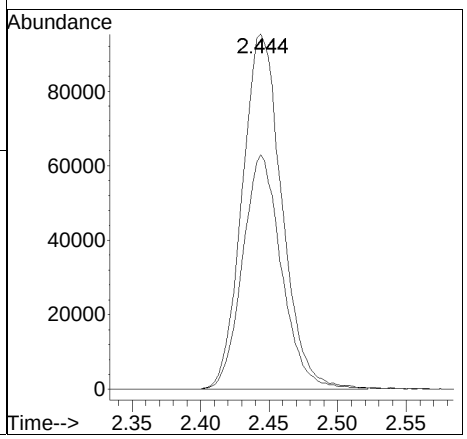


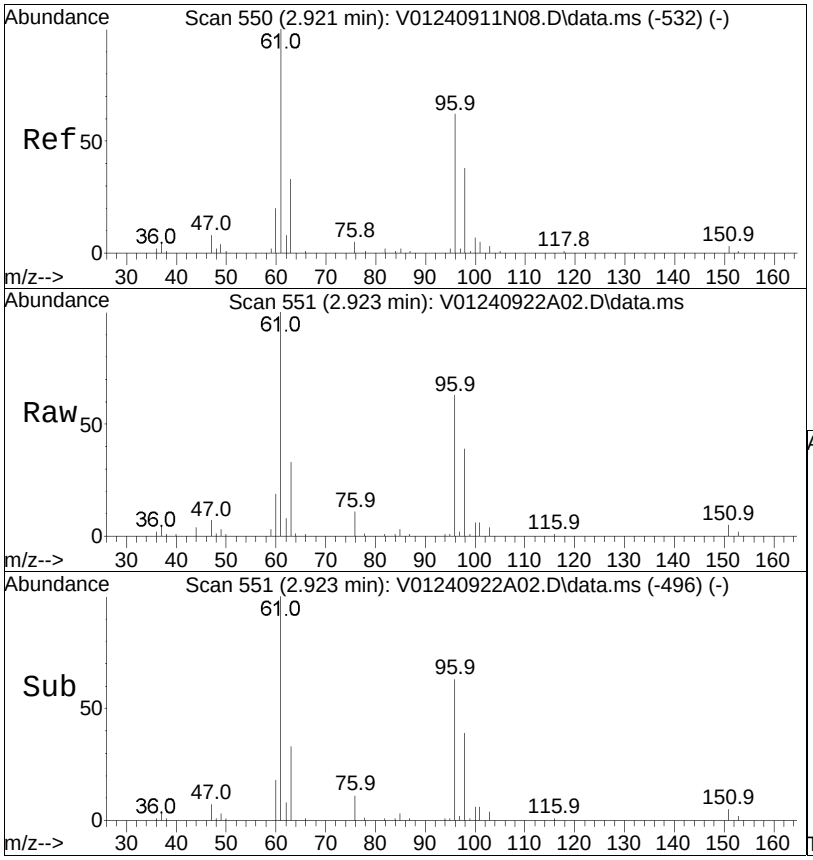


#7
Trichlorofluoromethane
Concen: 5.33 ug/L
RT: 2.444 min Scan# 379
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:101 Resp: 193100

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.3	78.5

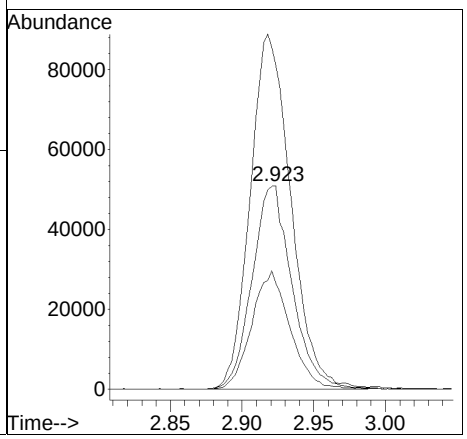


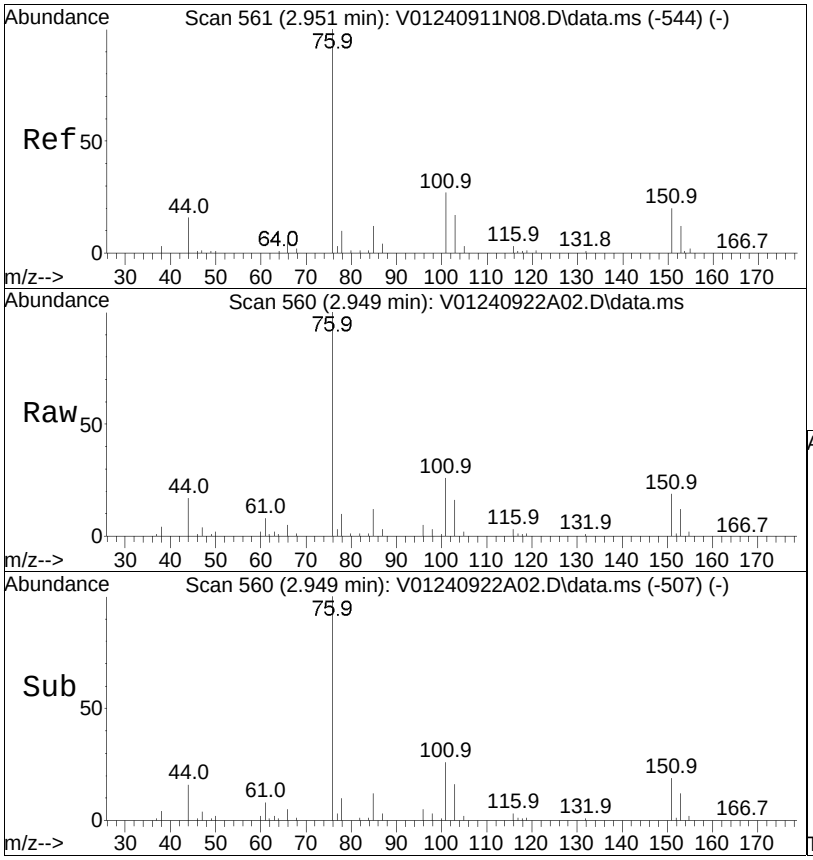


#10
1,1-Dichloroethene
Concen: 10.16 ug/L
RT: 2.923 min Scan# 551
Delta R.T. 0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 96 Resp: 98819

Ion	Ratio	Lower	Upper
96	100		
61	177.5	136.8	205.2
63	56.2	43.6	65.4

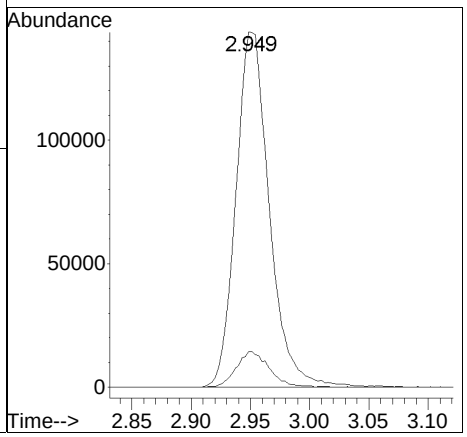


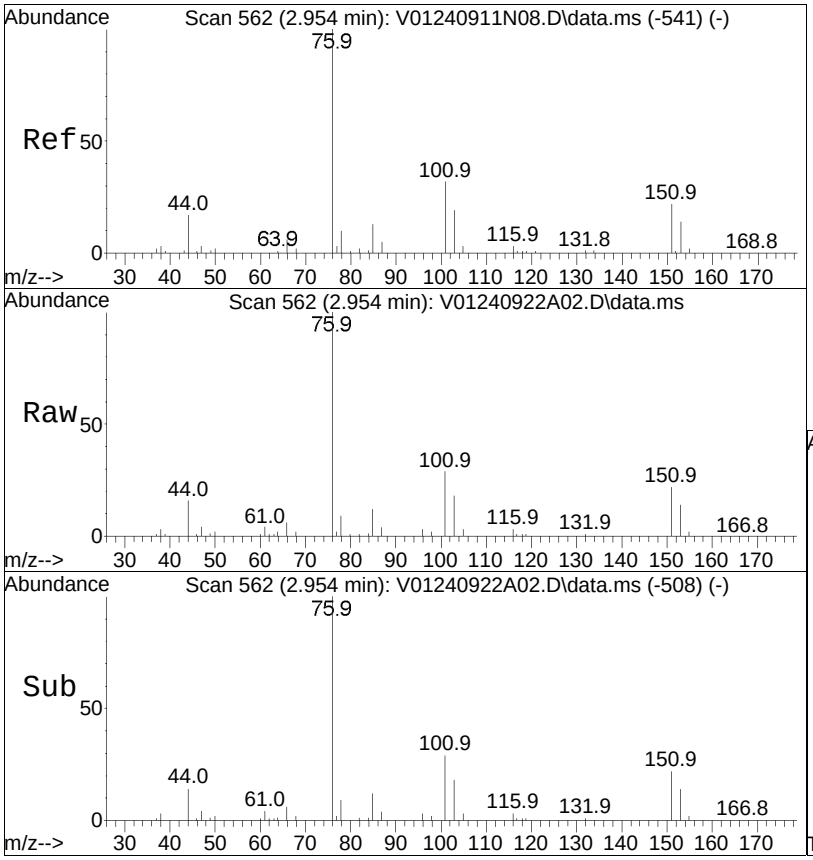


#11
Carbon disulfide
Concen: 9.46 ug/L
RT: 2.949 min Scan# 560
Delta R.T. -0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 76 Resp: 282436

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.6	13.8

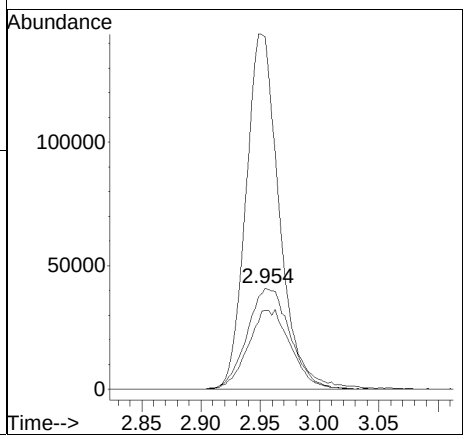


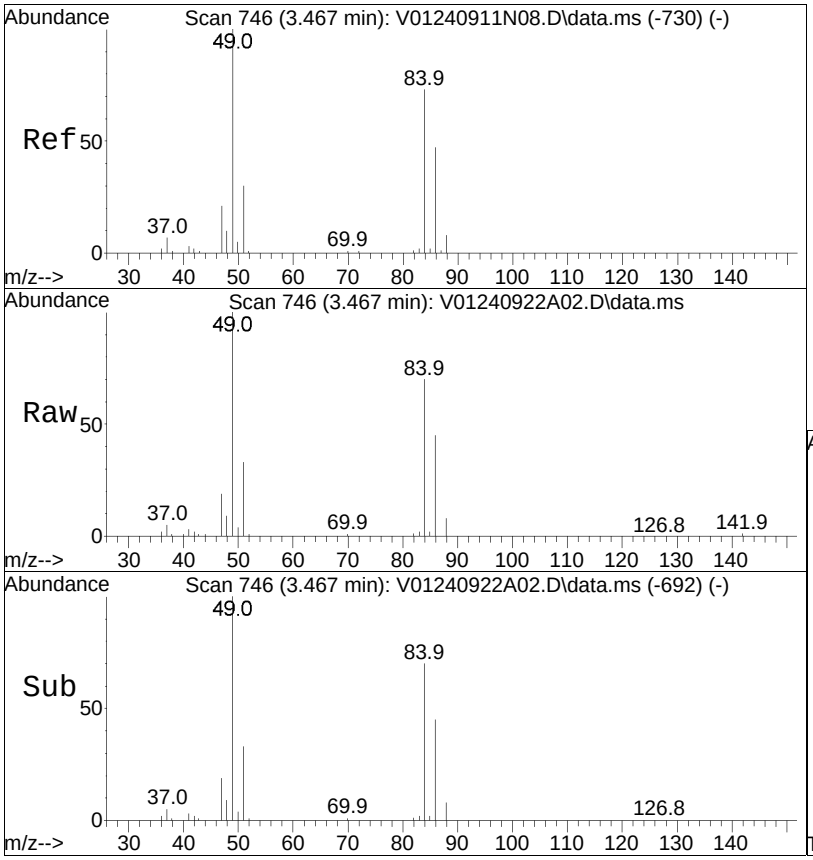


#12
Freon-113
Concen: 9.92 ug/L
RT: 2.954 min Scan# 562
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:101 Resp: 104353

Ion	Ratio	Lower	Upper
101	100		
151	77.6	61.2	91.8
76	270.7	194.8	292.2

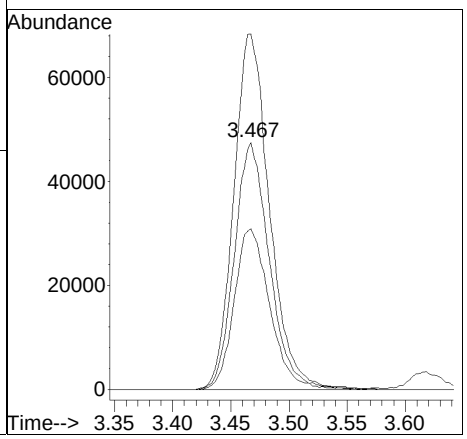


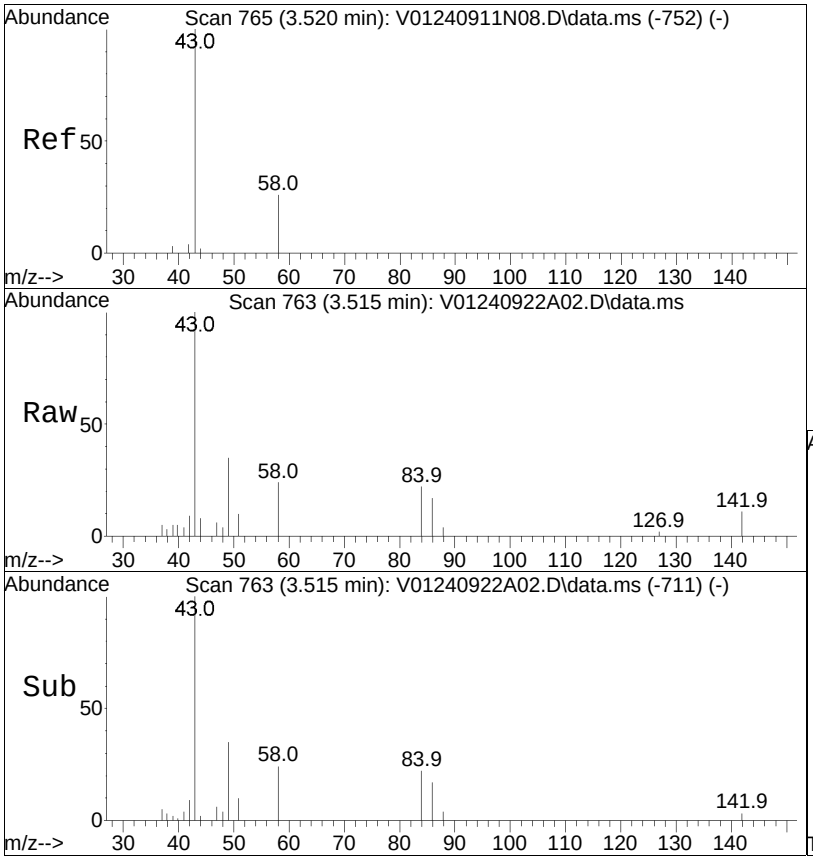


#15
Methylene chloride
Concen: 9.26 ug/L
RT: 3.467 min Scan# 746
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 84 Resp: 99755

Ion	Ratio	Lower	Upper
84	100		
86	65.7	41.7	86.7
49	146.6	89.1	185.1

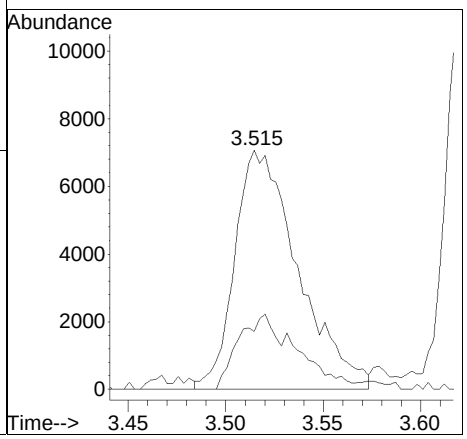


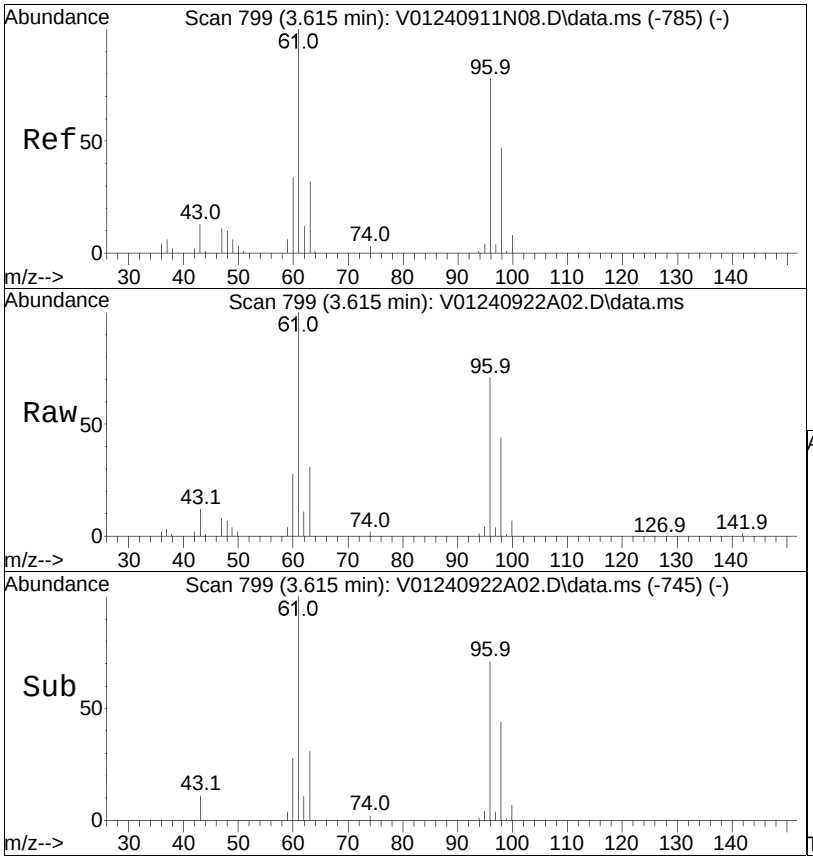


#17
Acetone
Concen: 8.26 ug/L M4
RT: 3.515 min Scan# 763
Delta R.T. -0.005 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 43 Resp: 15970

Ion	Ratio	Lower	Upper
43	100		
58	18.8	25.9	38.9#

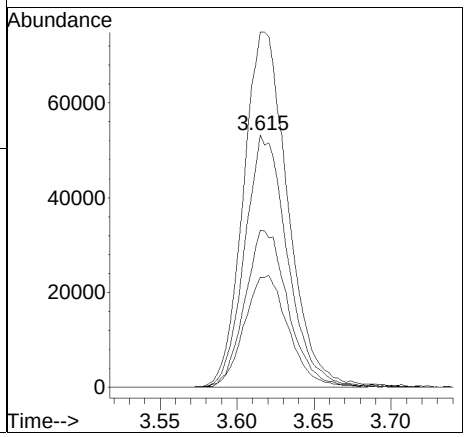


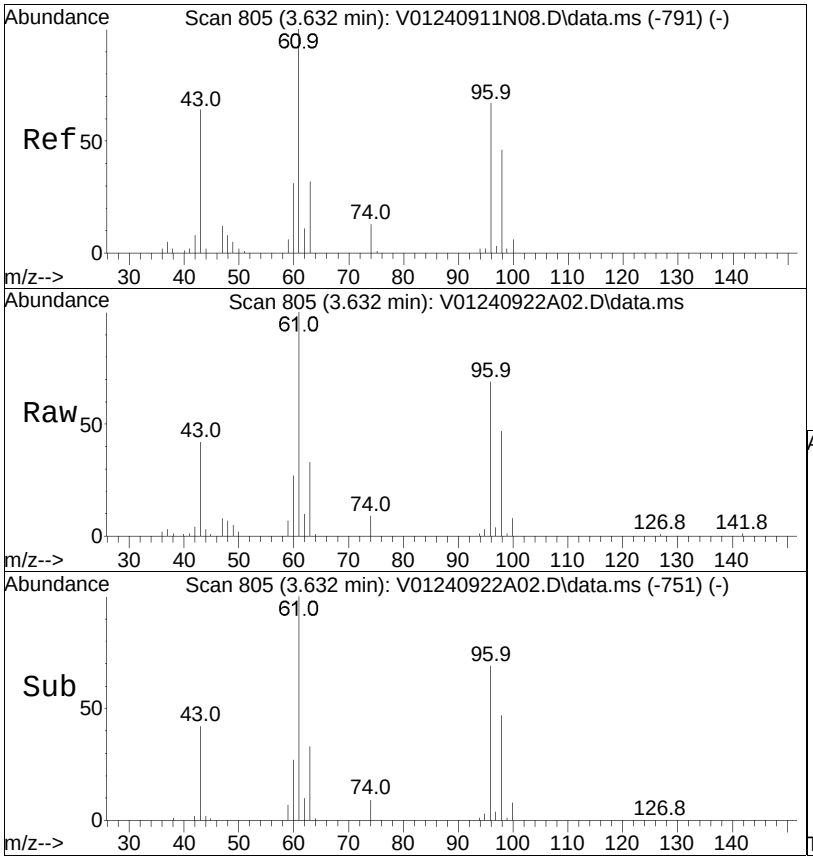


#18
trans-1,2-Dichloroethene
Concen: 9.71 ug/L
RT: 3.615 min Scan# 799
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 96 Resp: 103182

Ion	Ratio	Lower	Upper
96	100		
61	146.4	95.3	197.9
98	63.1	41.0	85.2
63	45.7	30.2	62.6

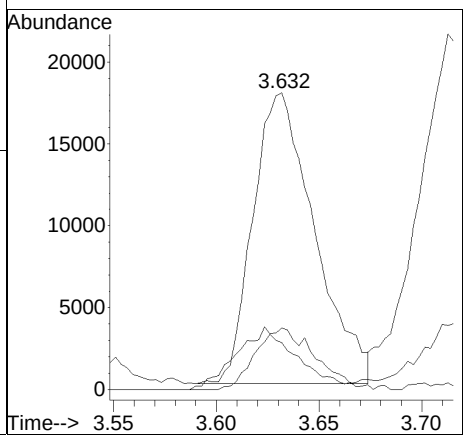


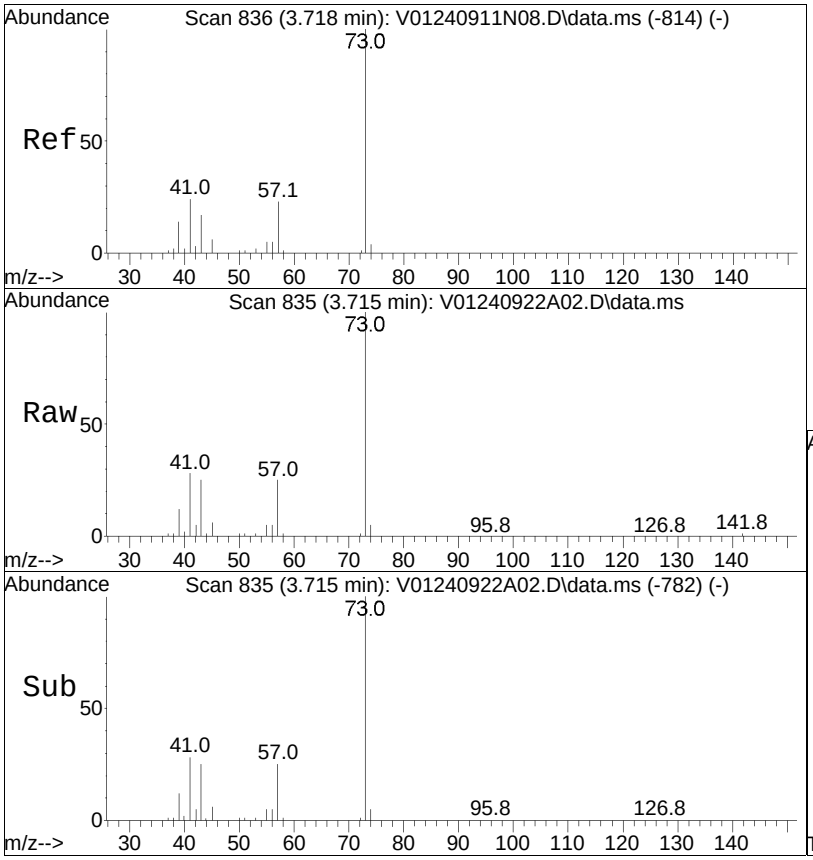


#19
Methyl acetate
Concen: 8.53 ug/L
RT: 3.632 min Scan# 805
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 43 Resp: 37085

Ion	Ratio	Lower	Upper
43	100		
74	19.9	18.2	27.2
59	21.3	18.2	27.2

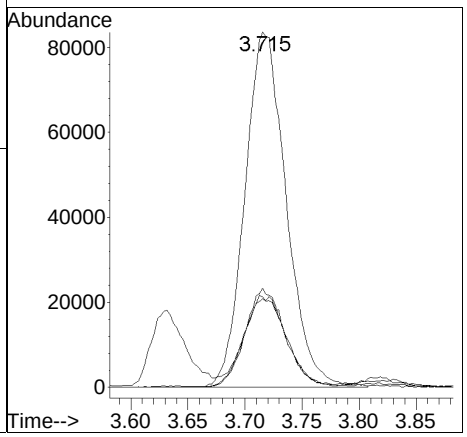


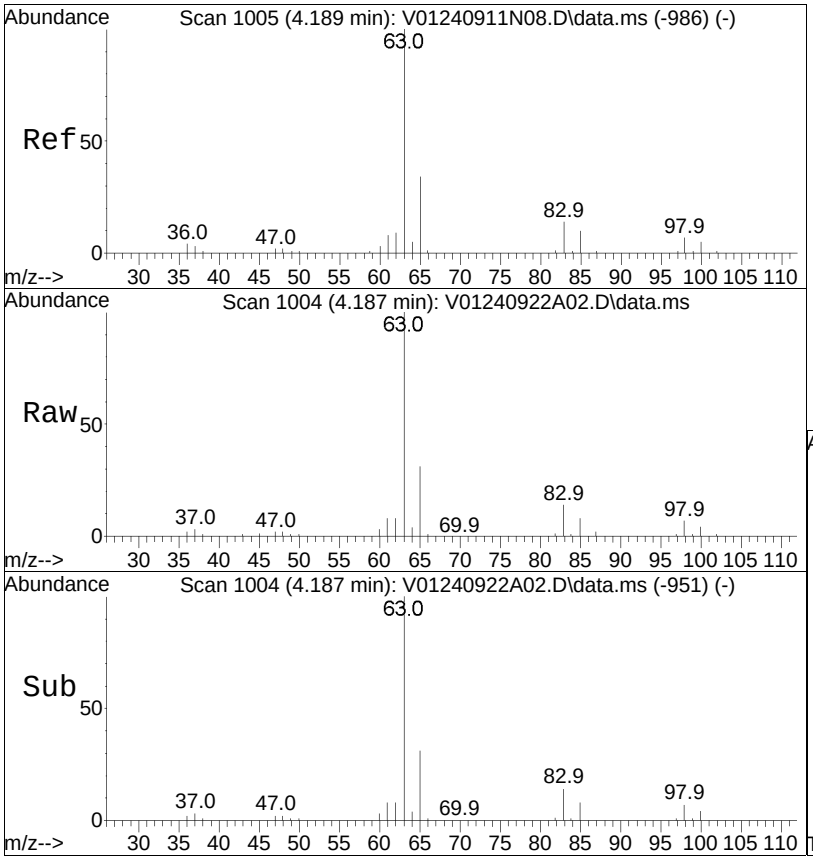


#20
Methyl tert-butyl ether
Concen: 8.61 ug/L
RT: 3.715 min Scan# 835
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 73 Resp: 210905

Ion	Ratio	Lower	Upper
73	100		
57	26.0	14.8	30.6
43	25.4	15.5	32.3
41	27.0	14.1	29.3

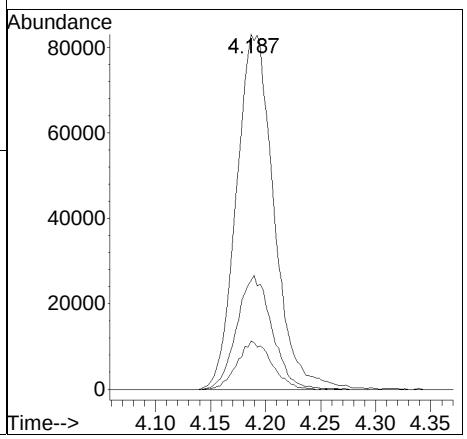


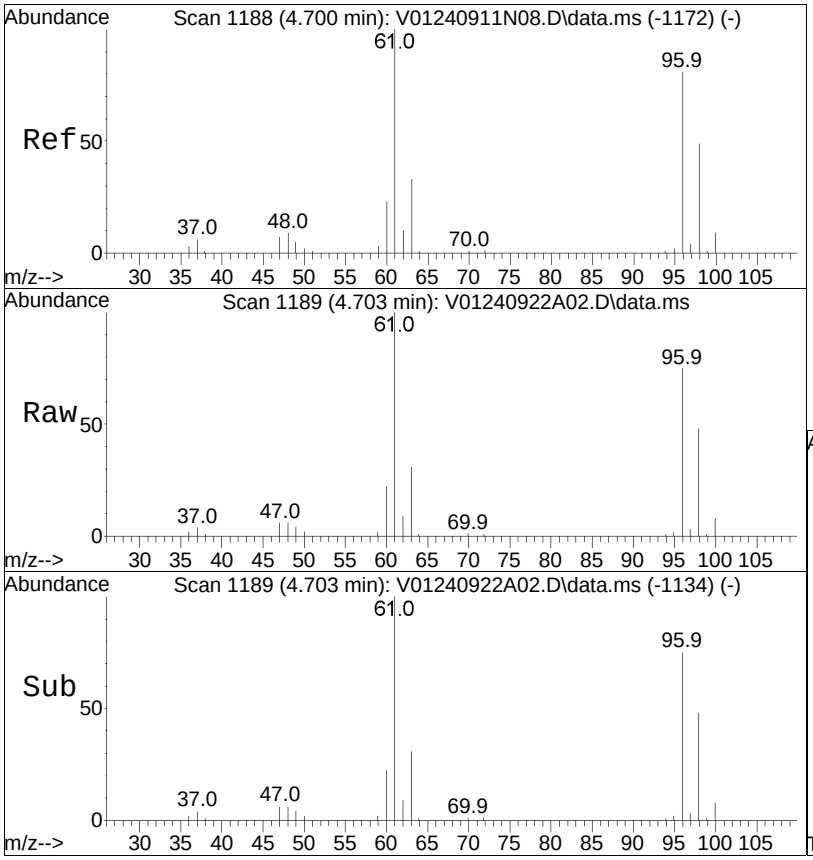


#23
1,1-Dichloroethane
Concen: 10.19 ug/L
RT: 4.187 min Scan# 1004
Delta R.T. -0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 63 Resp: 196601

Ion	Ratio	Lower	Upper
63	100		
65	30.2	10.9	50.9
83	12.6	0.0	33.0

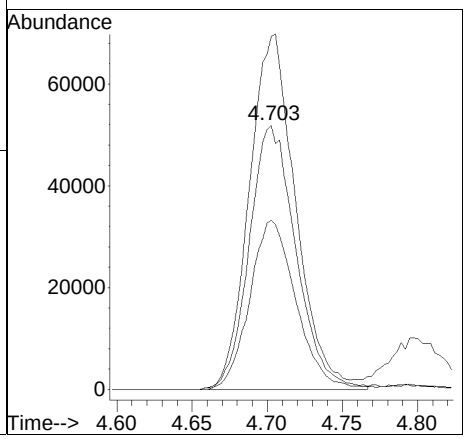


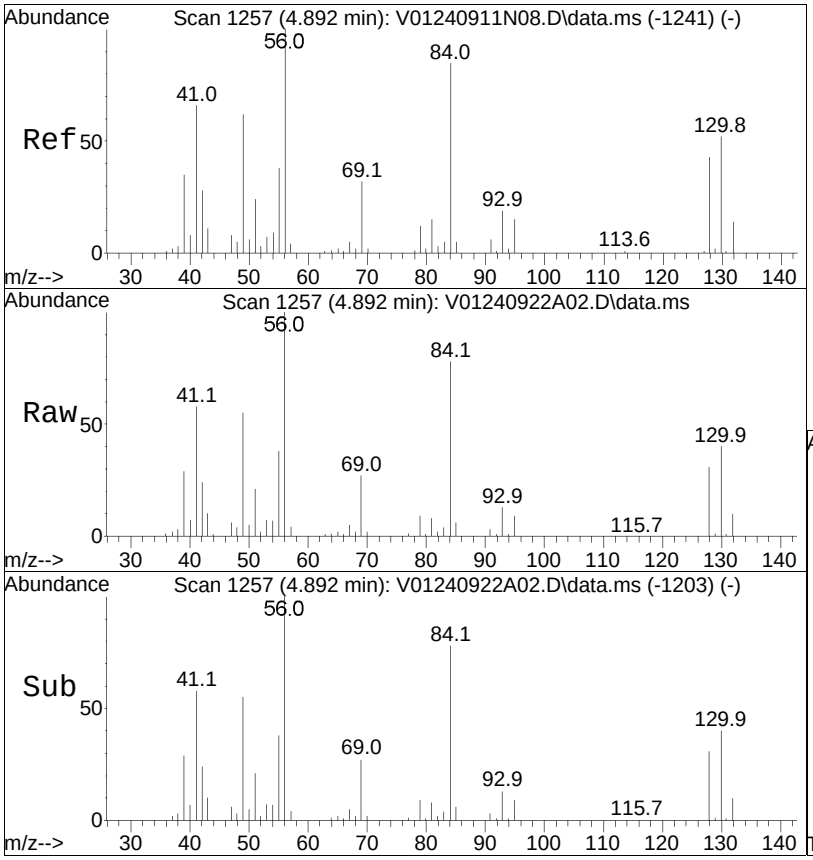


#28
cis-1,2-Dichloroethene
Concen: 9.42 ug/L
RT: 4.703 min Scan# 1189
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 96 Resp: 111814

Ion	Ratio	Lower	Upper
96	100		
61	133.1	105.8	158.6
98	63.6	51.1	76.7

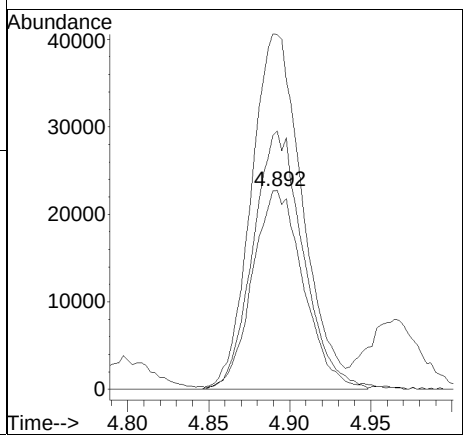


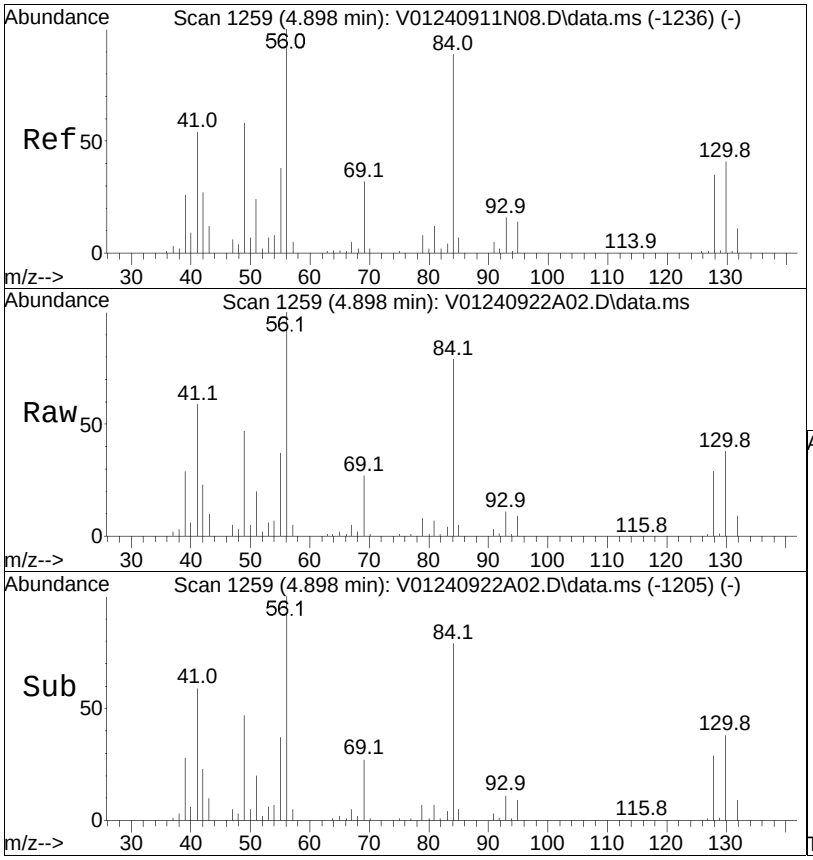


#30
Bromochloromethane
Concen: 9.31 ug/L
RT: 4.892 min Scan# 1257
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:128 Resp: 49963

Ion	Ratio	Lower	Upper
128	100		
49	176.9	140.4	210.6
130	128.0	103.1	154.7

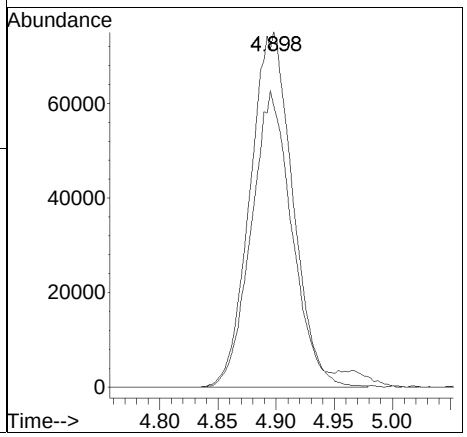


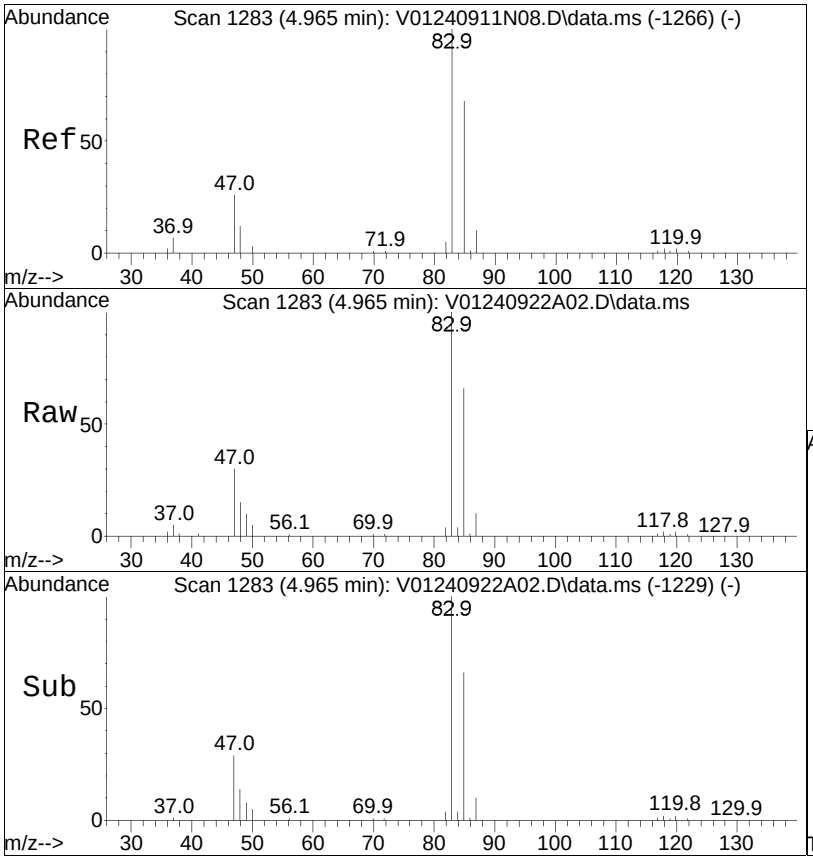


#31
Cyclohexane
Concen: 10.76 ug/L
RT: 4.898 min Scan# 1259
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 56 Resp: 192341

Ion	Ratio	Lower	Upper
56	100		
84	79.6	53.6	111.4

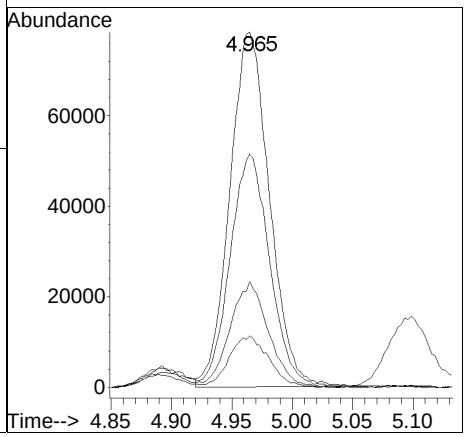


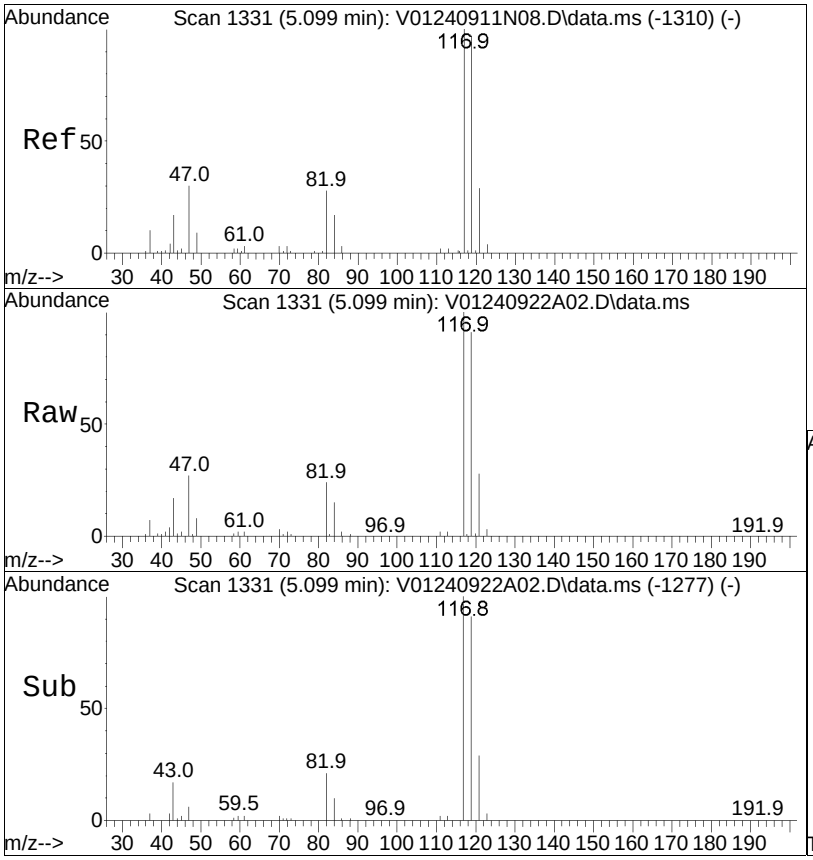


#32
Chloroform
Concen: 9.06 ug/L
RT: 4.965 min Scan# 1283
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 83 Resp: 179145

Ion	Ratio	Lower	Upper
83	100		
85	65.1	42.3	87.8
47	27.9	17.8	37.0
48	14.5	9.3	19.3

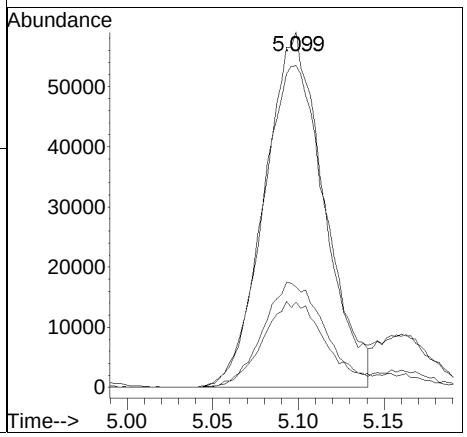


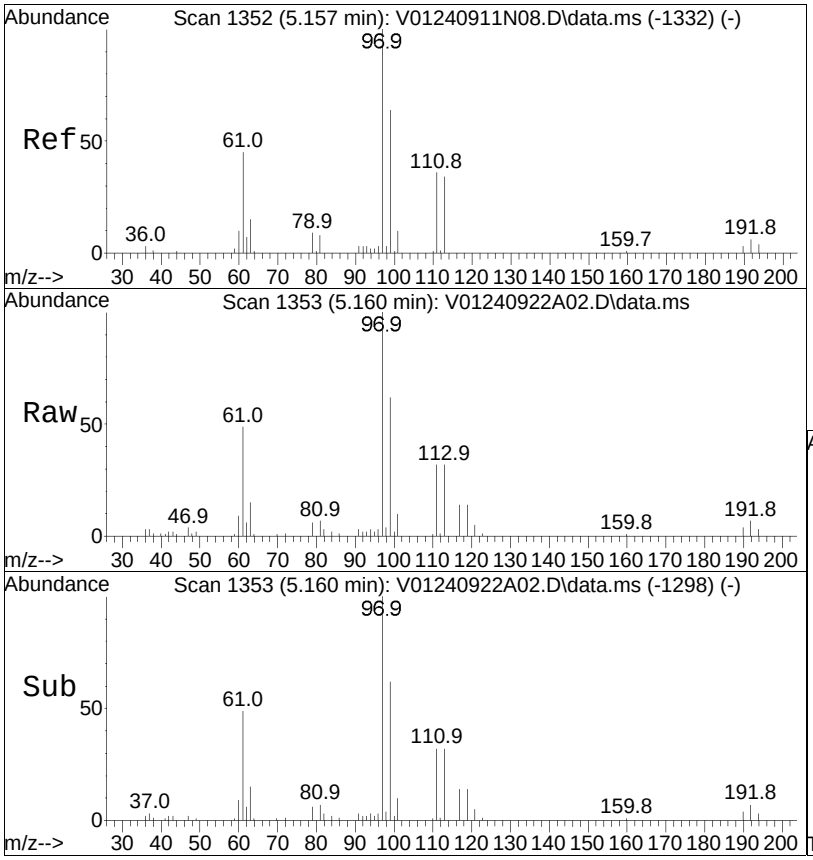


#34
Carbon tetrachloride
Concen: 9.05 ug/L
RT: 5.099 min Scan# 1331
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:117 Resp: 142978

Ion	Ratio	Lower	Upper
117	100		
119	95.0	62.1	128.9
121	30.8	19.8	41.0
82	25.7	17.1	35.5

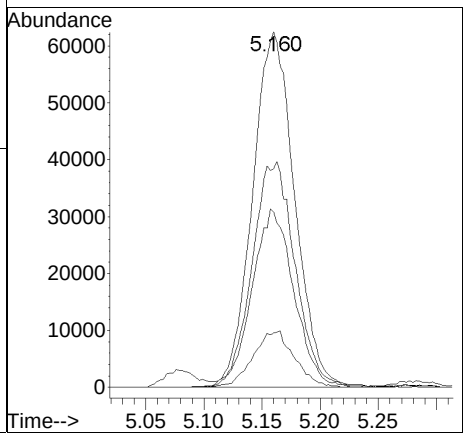


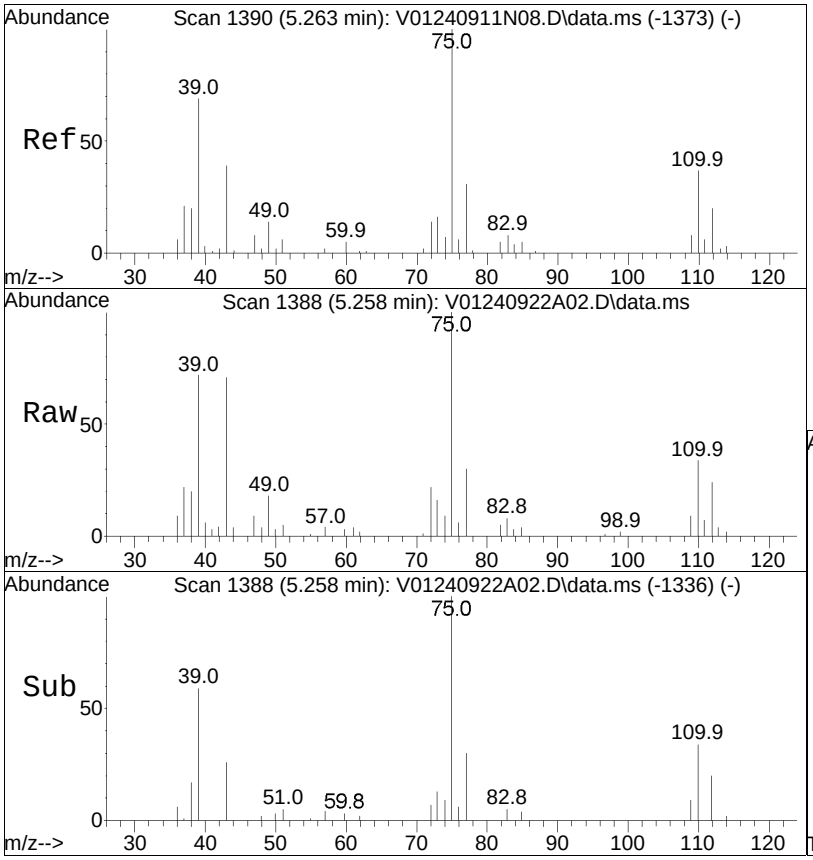


#37
1,1,1-Trichloroethane
Concen: 8.92 ug/L
RT: 5.160 min Scan# 1353
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 97 Resp: 157794

Ion	Ratio	Lower	Upper
97	100		
99	64.7	41.7	86.7
61	48.9	29.4	61.2
63	15.5	9.4	19.4

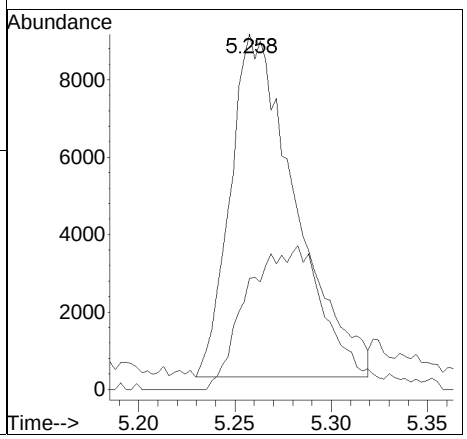


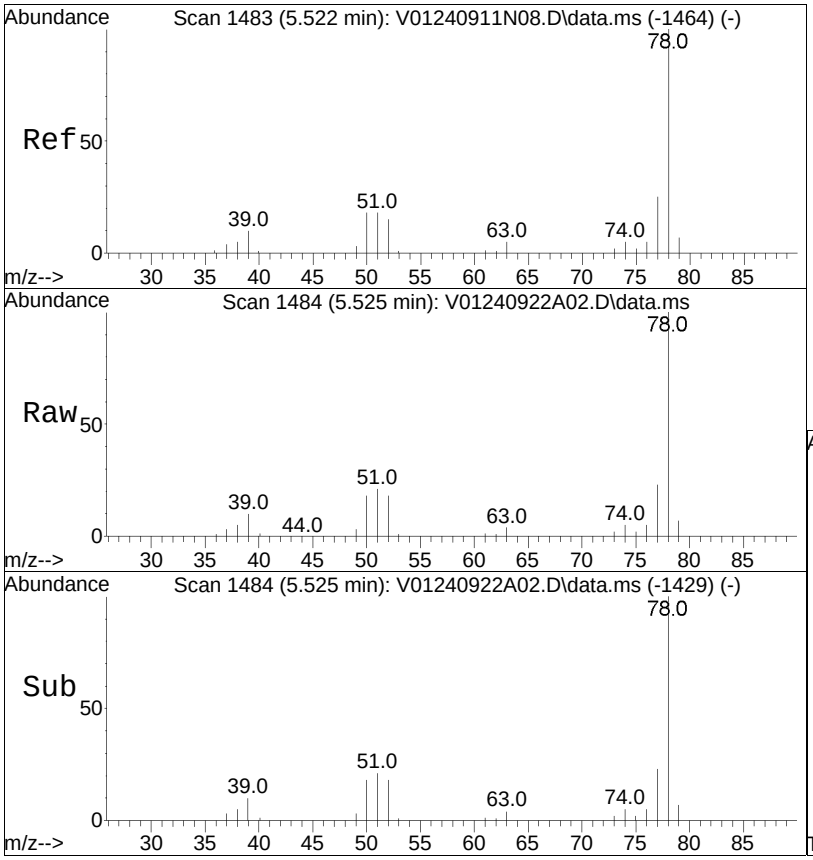


#39
2-Butanone
Concen: 8.26 ug/L
RT: 5.258 min Scan# 1388
Delta R.T. -0.005 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 43 Resp: 21012

Ion	Ratio	Lower	Upper
43	100		
72	21.1	45.8	68.6#

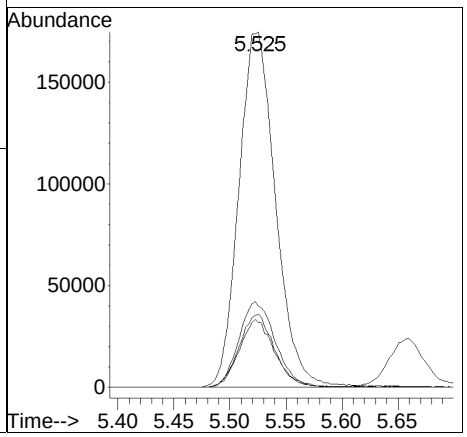


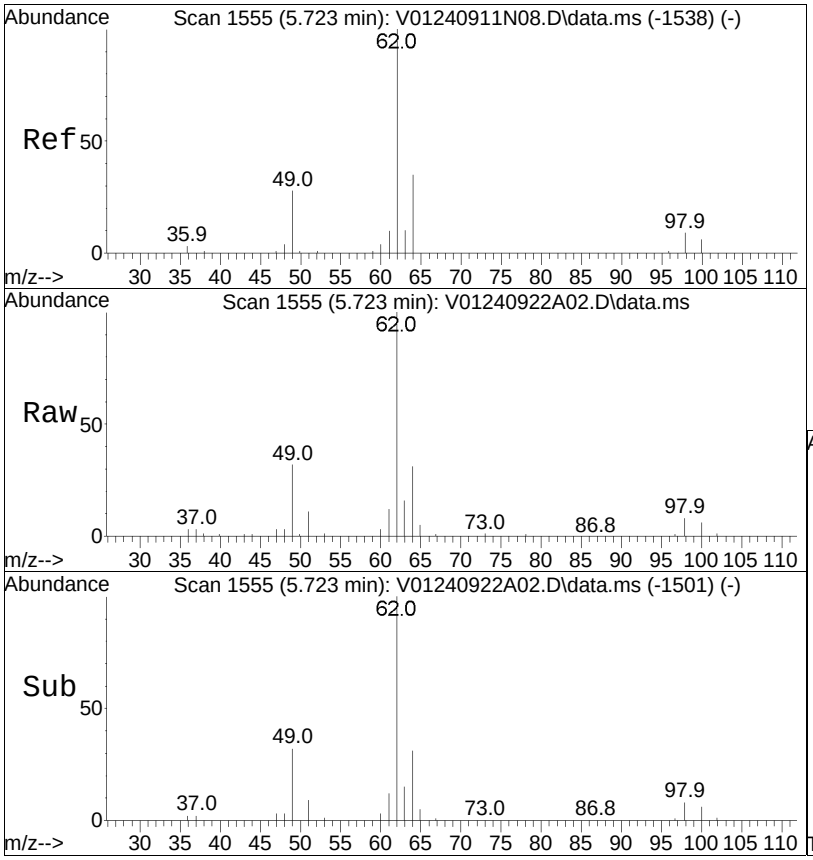


#41
Benzene
Concen: 9.26 ug/L
RT: 5.525 min Scan# 1484
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 78 Resp: 399177

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.7	32.5
51	20.0	11.6	24.2
52	18.4	10.9	22.5

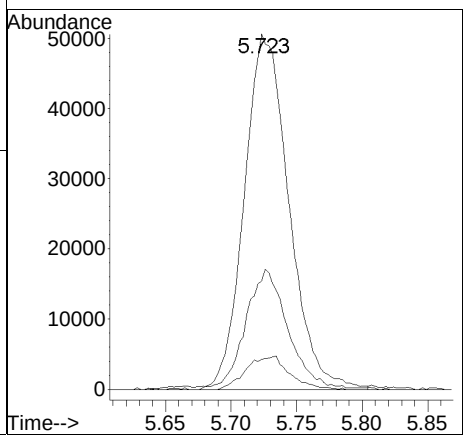


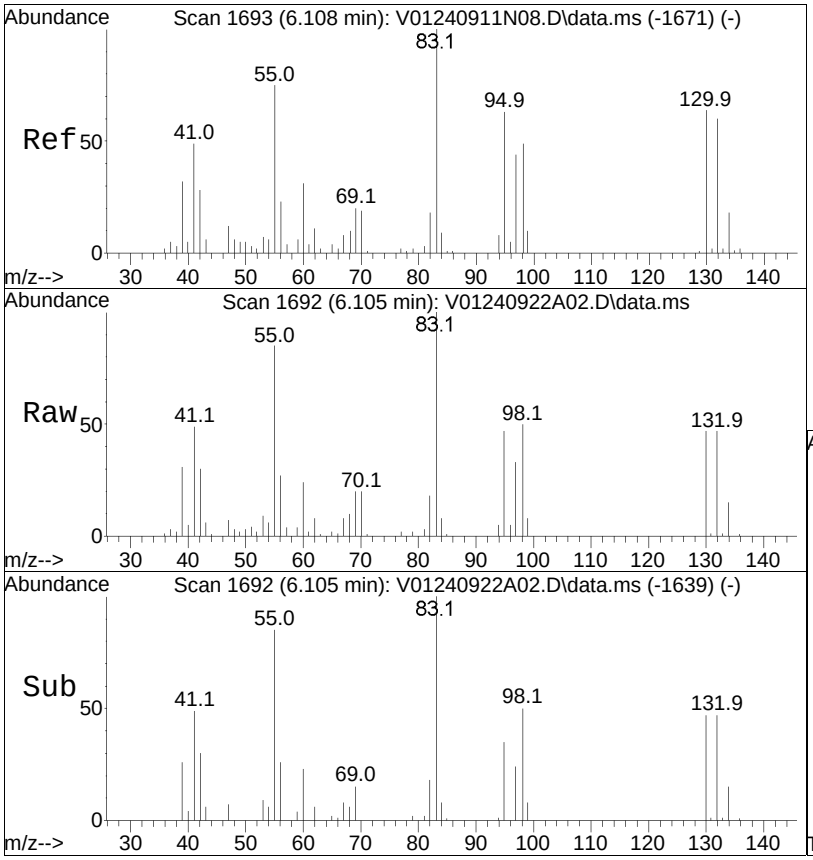


#44
1,2-Dichloroethane
Concen: 9.27 ug/L
RT: 5.723 min Scan# 1555
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 62 Resp: 119707

Ion	Ratio	Lower	Upper
62	100		
64	31.0	12.1	52.1
98	9.0	0.0	28.8

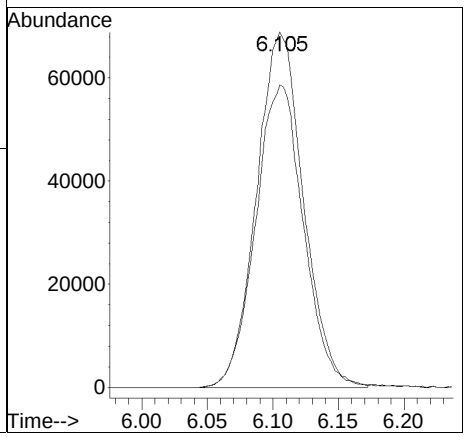


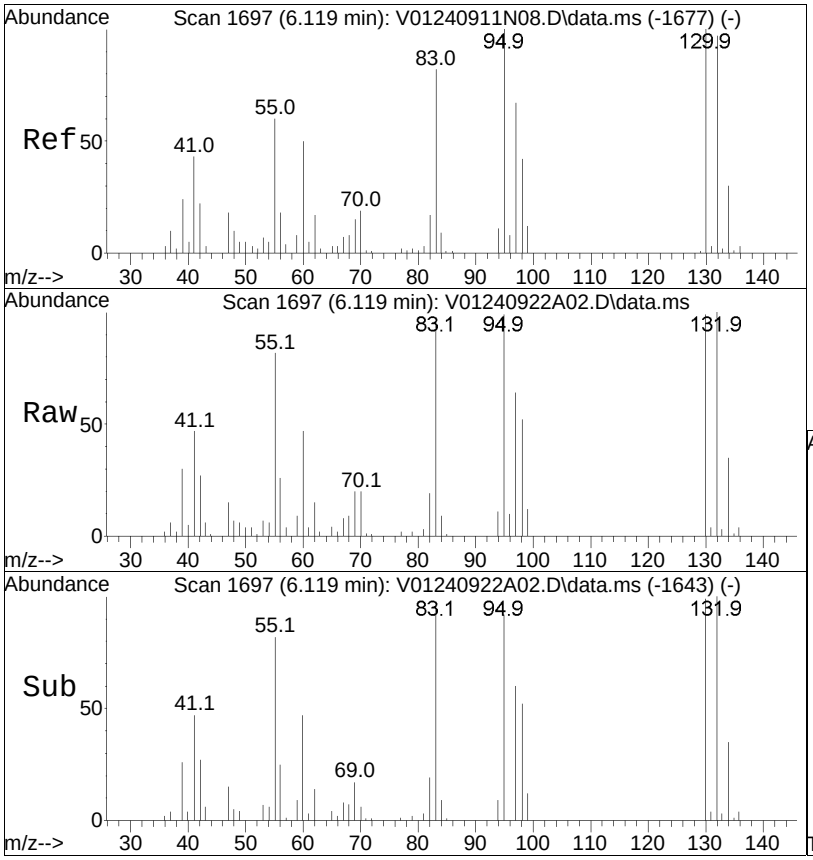


#47
Methyl cyclohexane
Concen: 9.03 ug/L
RT: 6.105 min Scan# 1692
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 83 Resp: 171914

Ion	Ratio	Lower	Upper
83	100		
55	86.9	64.6	96.8

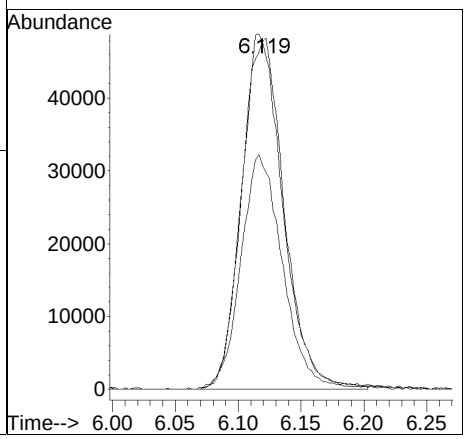


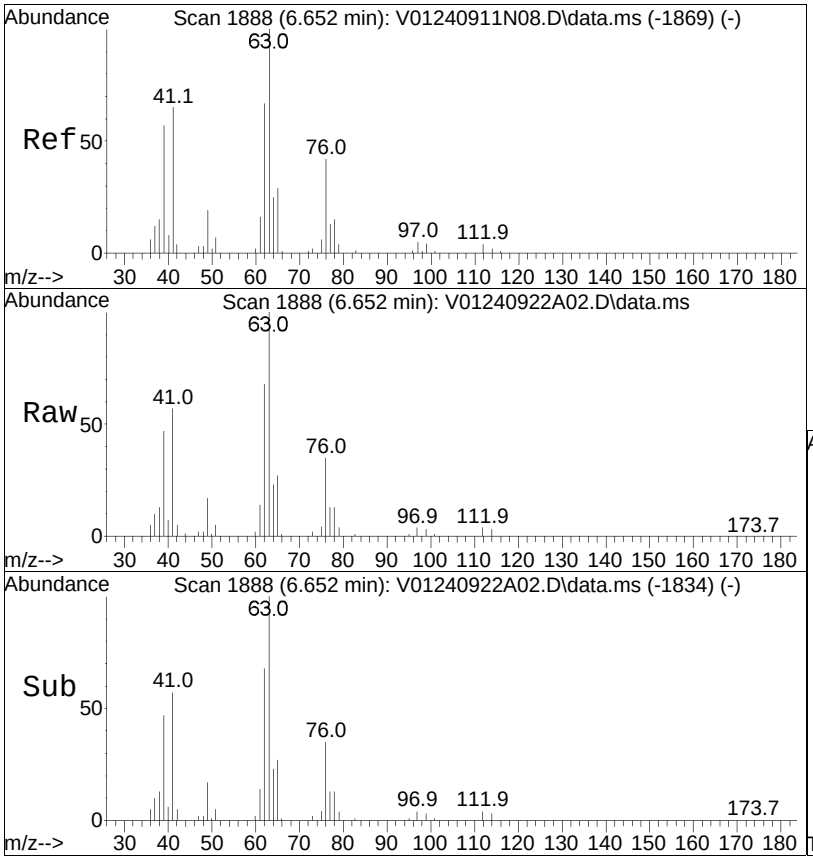


#48
Trichloroethene
Concen: 9.12 ug/L
RT: 6.119 min Scan# 1697
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 95 Resp: 111043

Ion	Ratio	Lower	Upper
95	100		
97	67.5	54.4	81.6
130	103.4	80.6	120.8

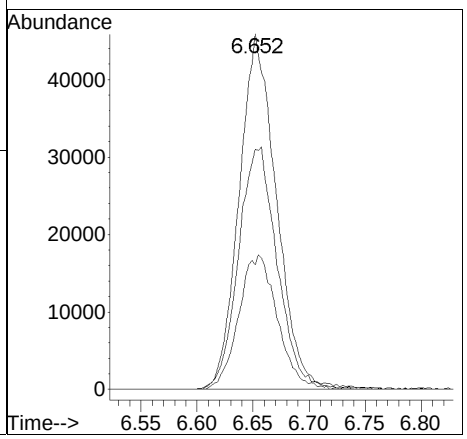


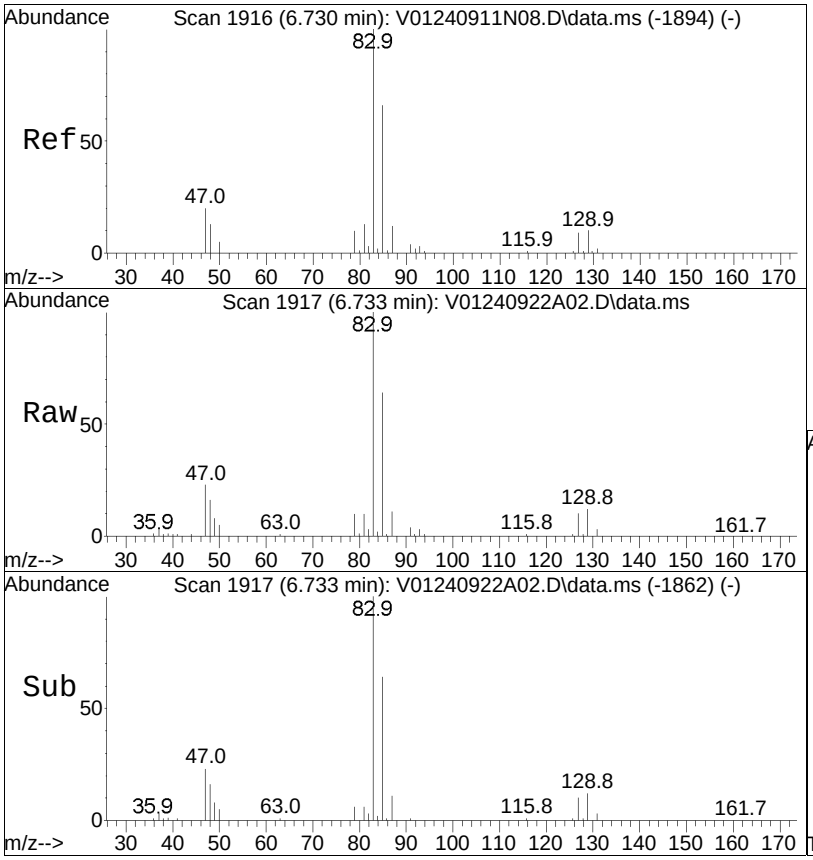


#51
1,2-Dichloropropane
Concen: 10.13 ug/L
RT: 6.652 min Scan# 1888
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 63 Resp: 106550

Ion	Ratio	Lower	Upper
63	100		
62	70.4	57.2	85.8
76	39.2	33.6	50.4

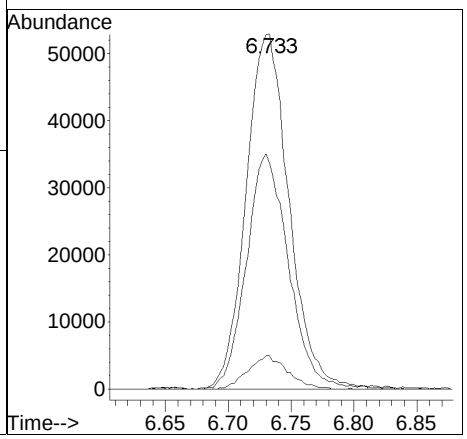


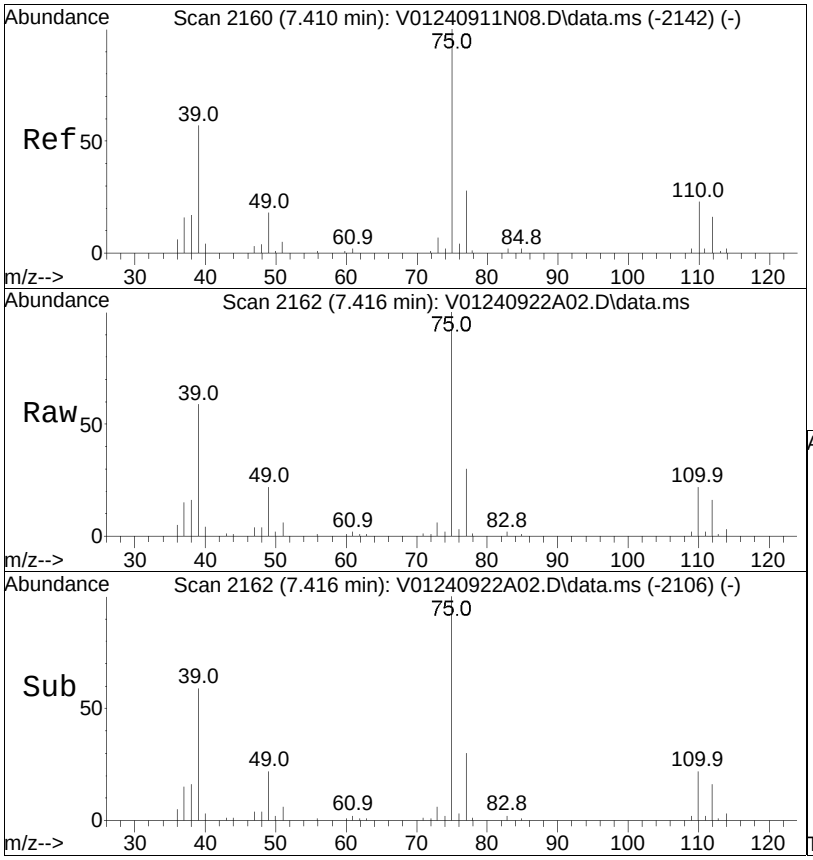


#54
Bromodichloromethane
Concen: 8.79 ug/L
RT: 6.733 min Scan# 1917
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 83 Resp: 126064

Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.2	78.4
127	8.9	6.9	10.3

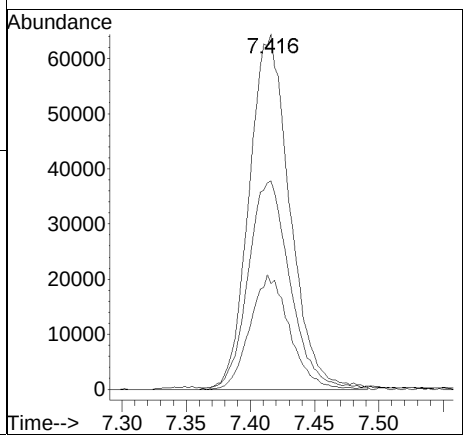


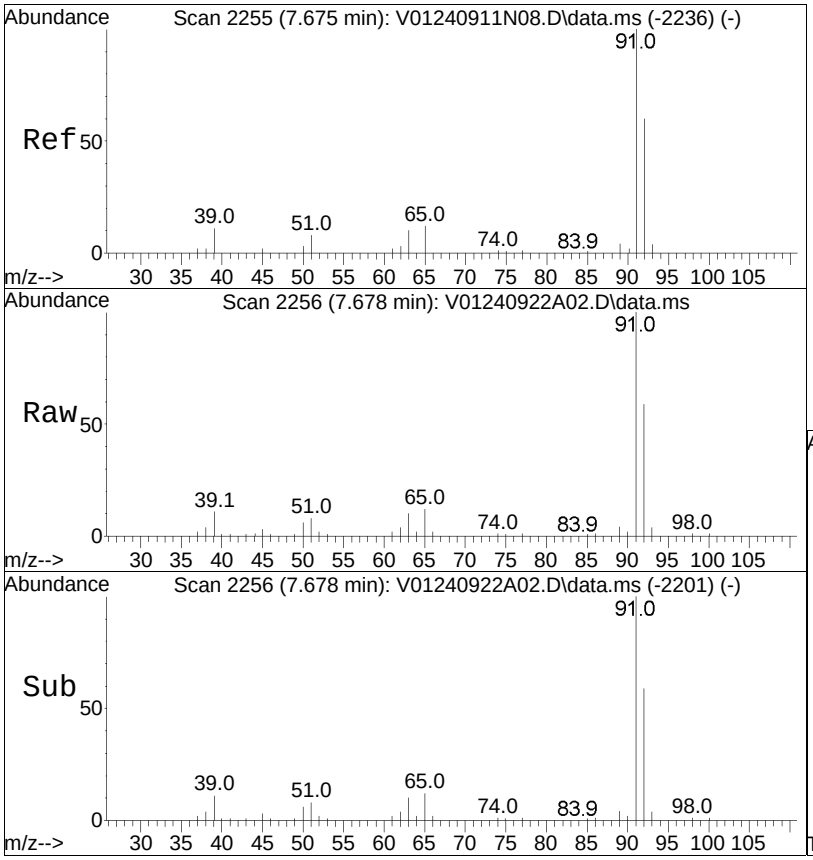


#58
cis-1,3-Dichloropropene
Concen: 9.05 ug/L
RT: 7.416 min Scan# 2162
Delta R.T. 0.006 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 75 Resp: 142072

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.1	37.7
39	58.8	42.6	63.8

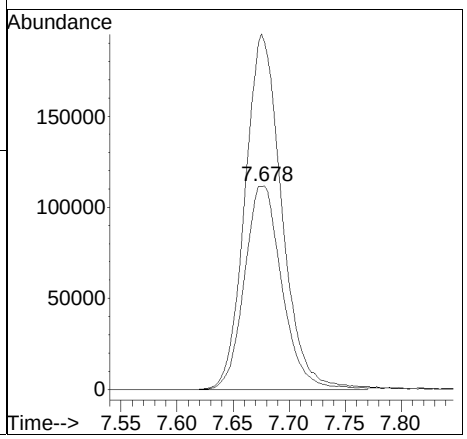


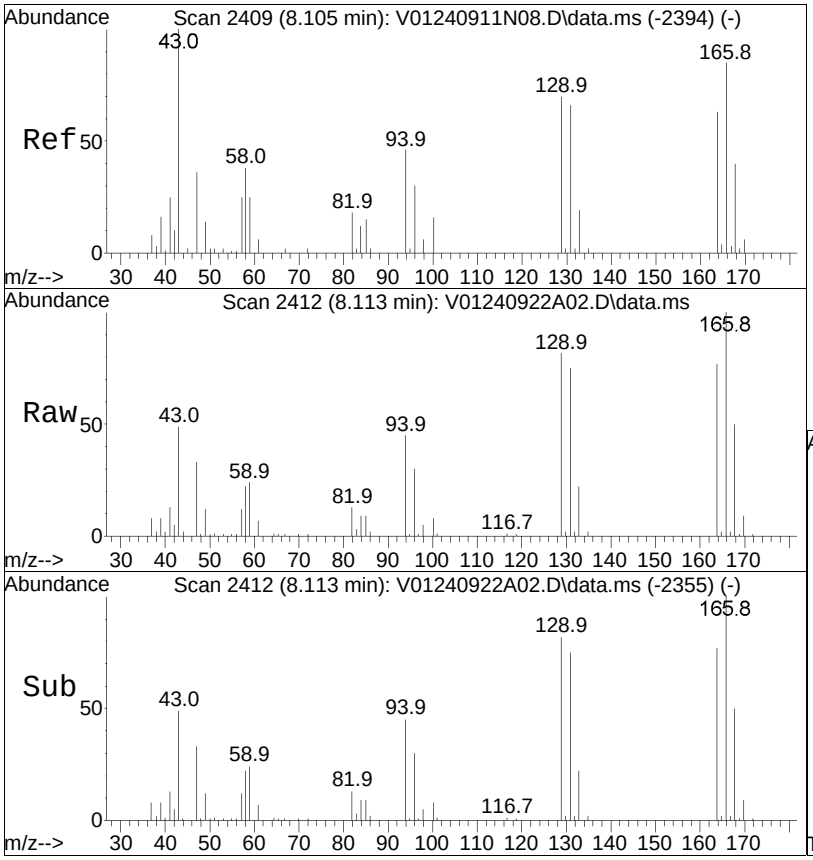


#61
Toluene
Concen: 9.19 ug/L
RT: 7.678 min Scan# 2256
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 92 Resp: 260286

Ion	Ratio	Lower	Upper
92	100		
91	171.1	137.5	206.3

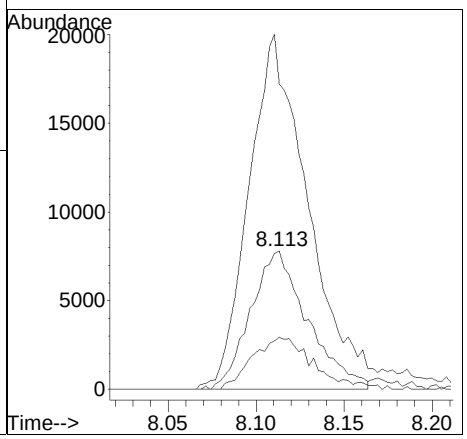


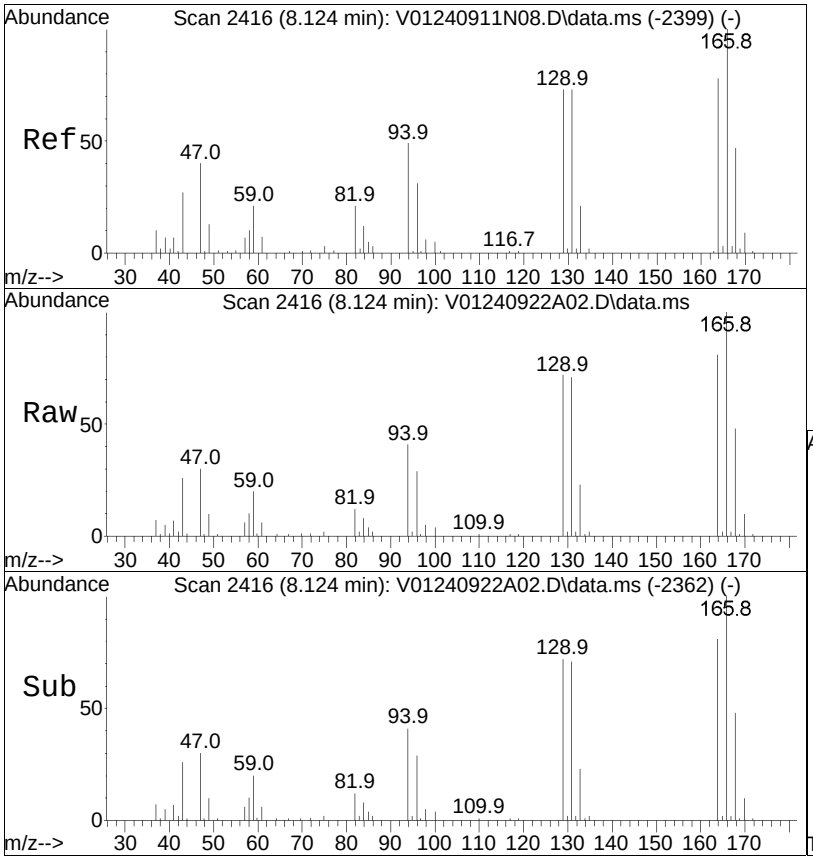


#62
4-Methyl-2-pentanone
Concen: 8.86 ug/L
RT: 8.113 min Scan# 2412
Delta R.T. 0.008 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 58 Resp: 17633

Ion	Ratio	Lower	Upper
58	100		
100	40.5	31.8	47.6
43	265.2	212.5	318.7

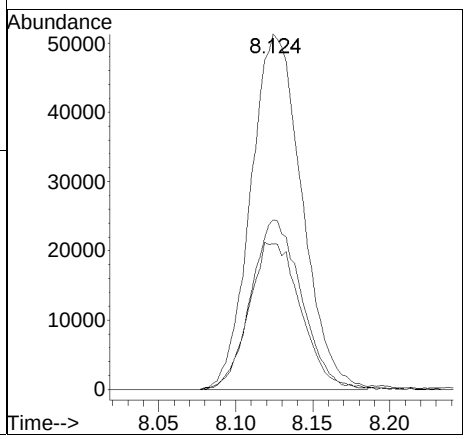


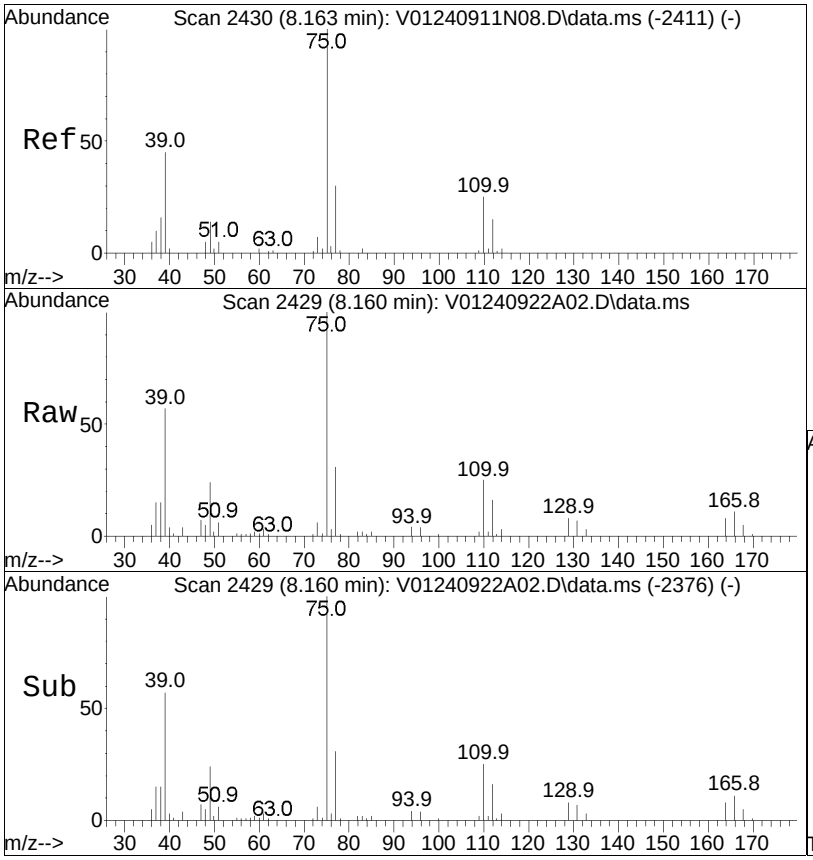


#63
Tetrachloroethene
Concen: 10.33 ug/L
RT: 8.124 min Scan# 2416
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:166 Resp: 118308

Ion	Ratio	Lower	Upper
166	100		
168	47.2	27.4	67.4
94	41.8	24.8	64.8

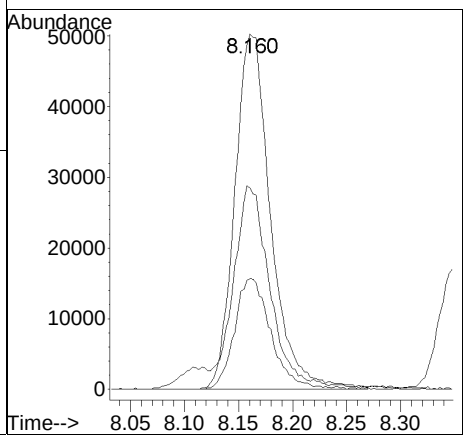


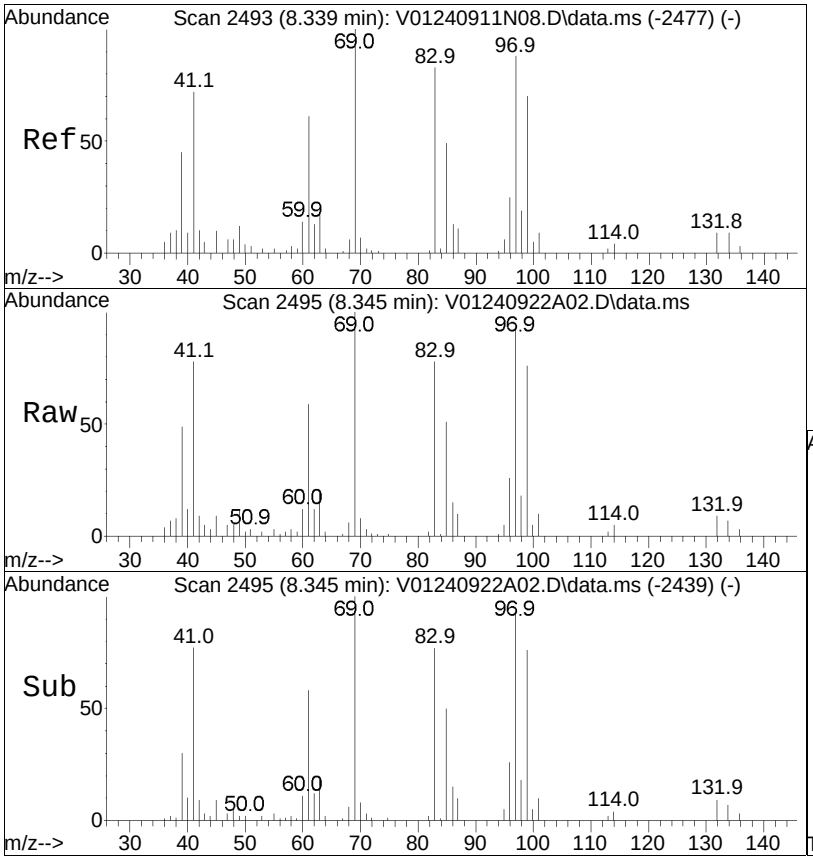


#65
trans-1,3-Dichloropropene
Concen: 9.15 ug/L
RT: 8.160 min Scan# 2429
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 75 Resp: 116316

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.8	51.8
39	53.0	30.2	70.2

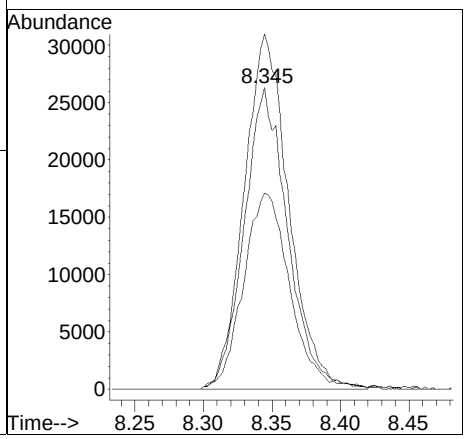


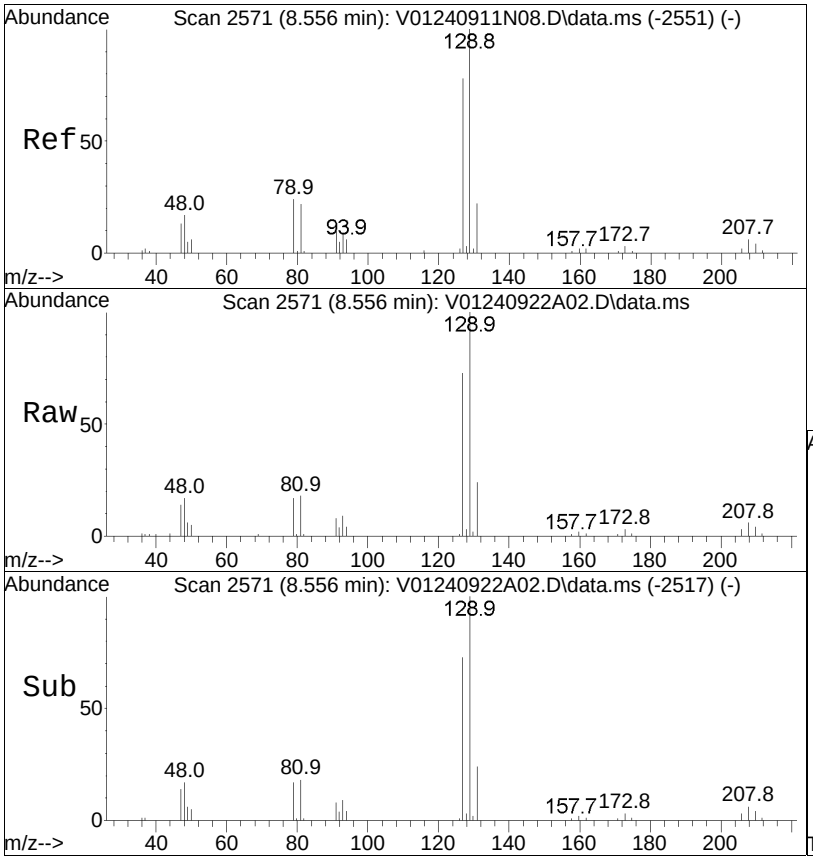


#68
1,1,2-Trichloroethane
Concen: 8.92 ug/L
RT: 8.345 min Scan# 2495
Delta R.T. 0.006 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 83 Resp: 58130

Ion	Ratio	Lower	Upper
83	100		
97	121.2	96.7	136.7
85	69.7	45.3	85.3

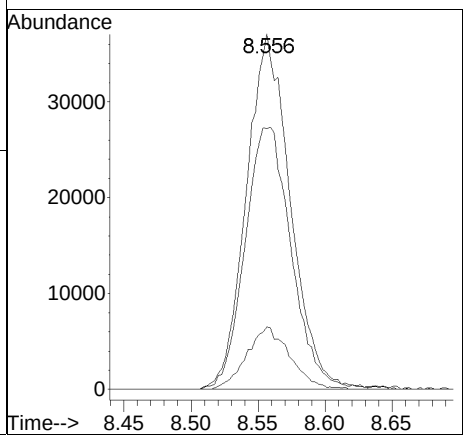


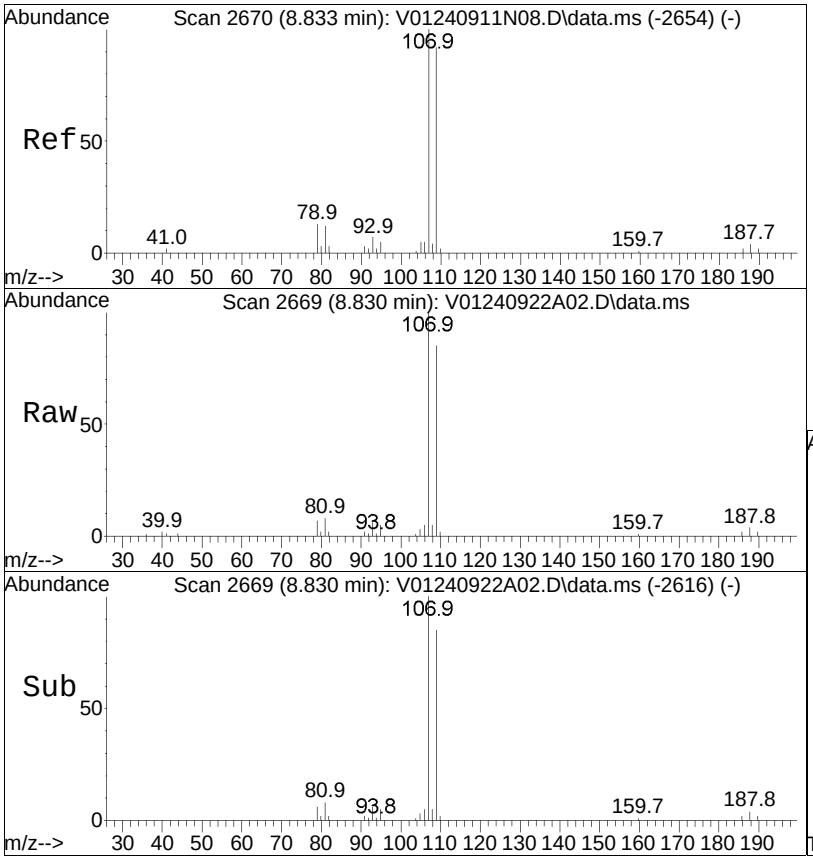


#69
Chlorodibromomethane
Concen: 9.02 ug/L
RT: 8.556 min Scan# 2571
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:129 Resp: 84713

Ion	Ratio	Lower	Upper
129	100		
81	17.4	0.0	37.9
127	77.2	56.6	96.6

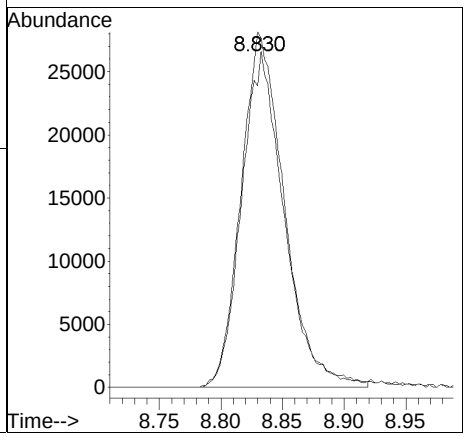


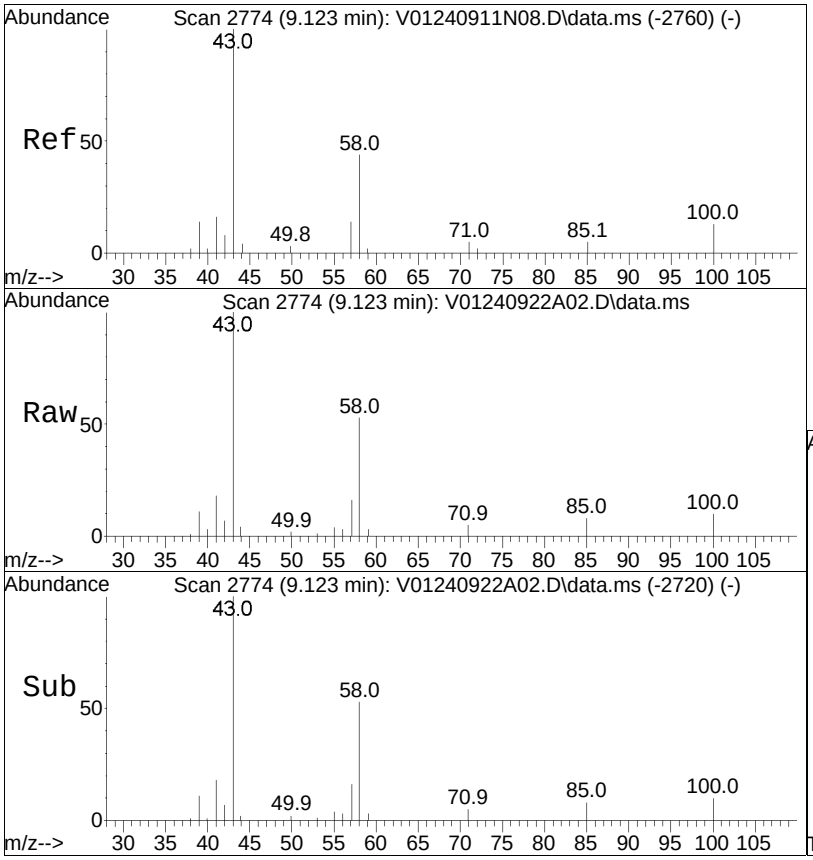


#71
1,2-Dibromoethane
Concen: 9.48 ug/L
RT: 8.830 min Scan# 2669
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:107 Resp: 69045

Ion	Ratio	Lower	Upper
107	100		
109	92.6	75.6	113.4

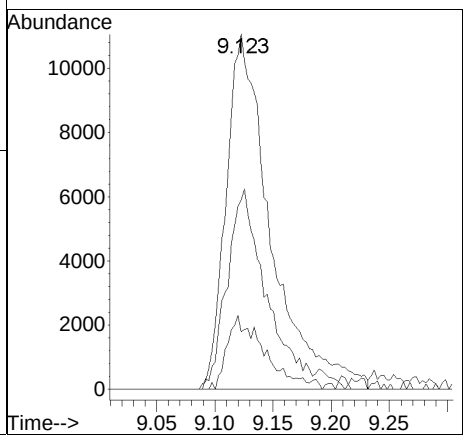


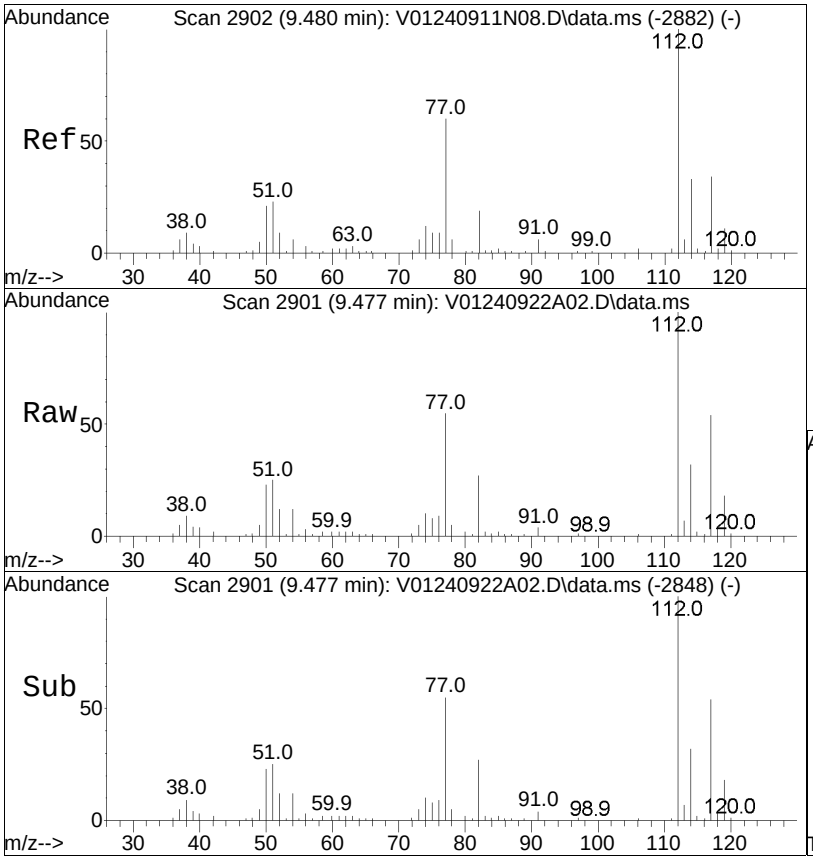


#72
2-Hexanone
Concen: 8.29 ug/L
RT: 9.123 min Scan# 2774
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 43 Resp: 29669

Ion	Ratio	Lower	Upper
43	100		
58	49.1	40.8	61.2
57	17.2	14.2	21.4

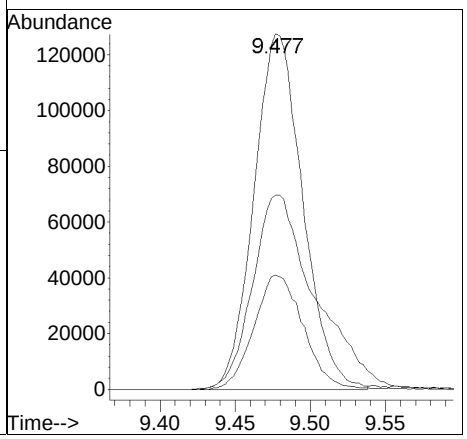


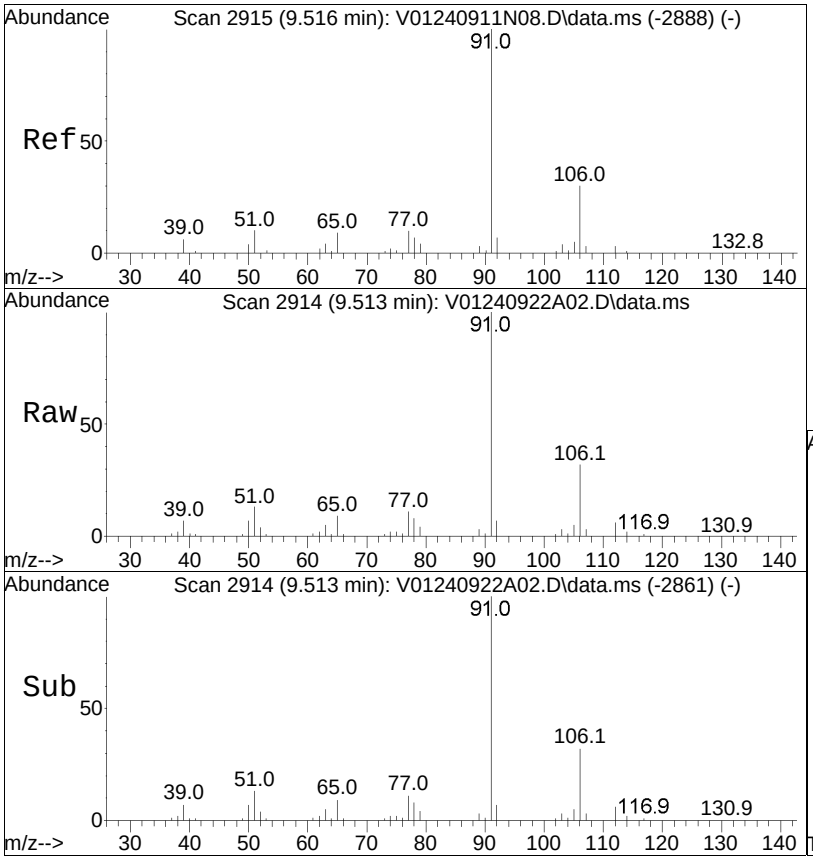


#73
Chlorobenzene
Concen: 9.15 ug/L
RT: 9.477 min Scan# 2901
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:112 Resp: 287685

Ion	Ratio	Lower	Upper
112	100		
77	70.5	59.8	89.6
114	32.6	25.4	38.2

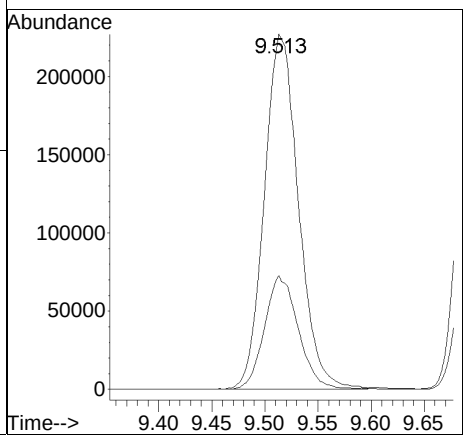


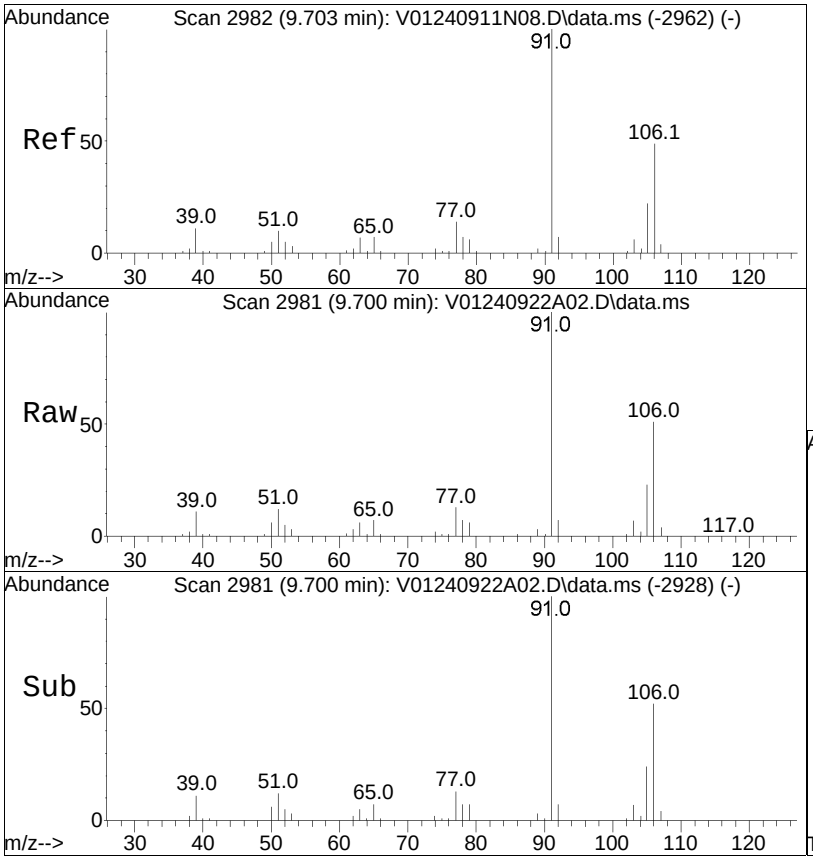


#74
Ethylbenzene
Concen: 9.02 ug/L
RT: 9.513 min Scan# 2914
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 91 Resp: 508689

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.7	37.1

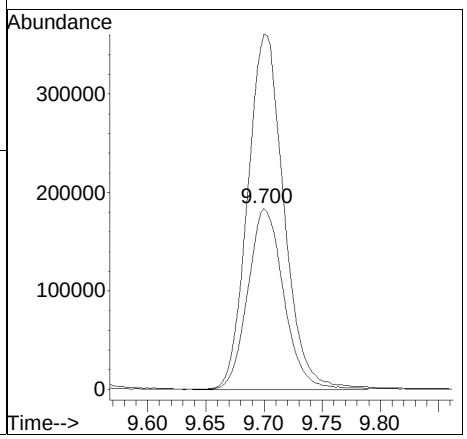


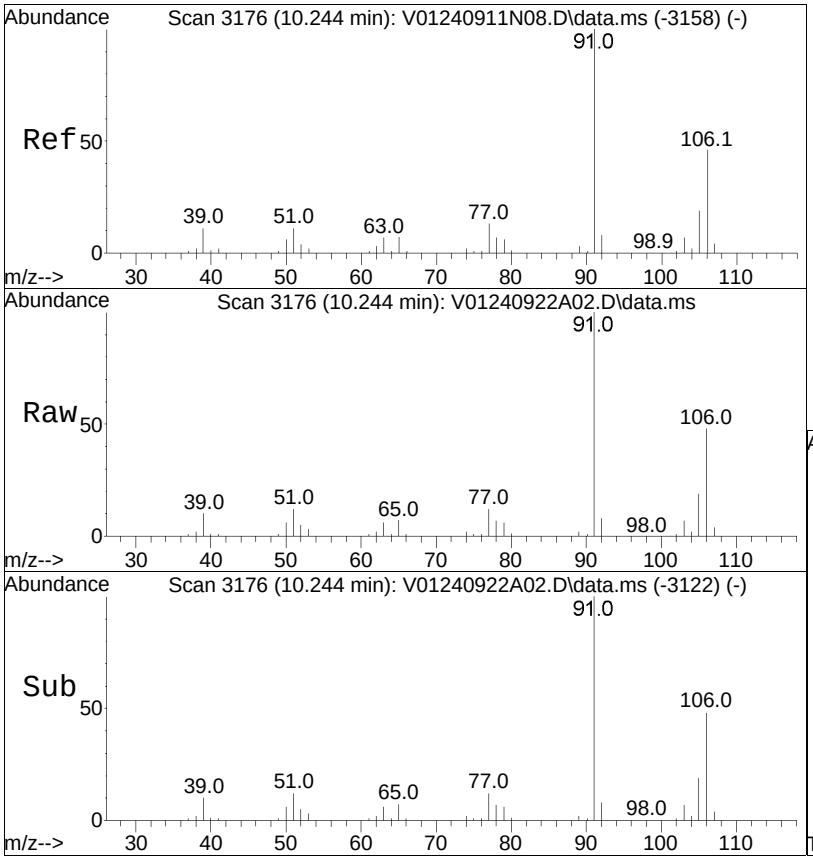


#76
p/m Xylene
Concen: 17.13 ug/L
RT: 9.700 min Scan# 2981
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:106 Resp: 395110

Ion	Ratio	Lower	Upper
106	100		
91	197.4	162.9	244.3

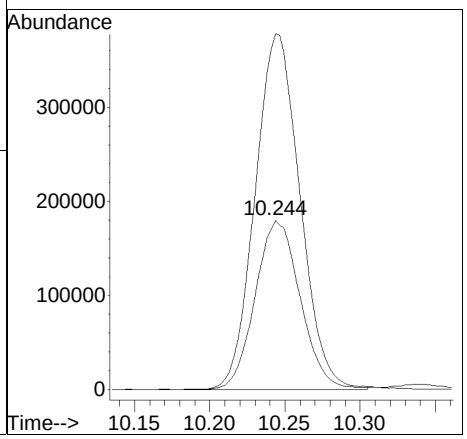


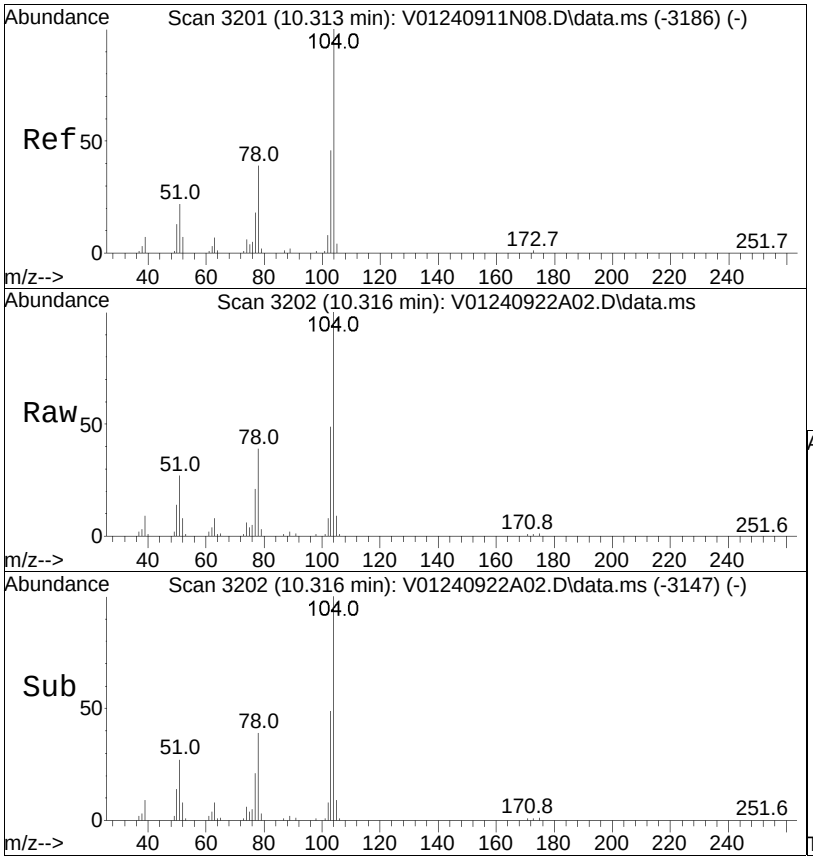


#77
o Xylene
Concen: 16.99 ug/L
RT: 10.244 min Scan# 3176
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:106 Resp: 373447

Ion	Ratio	Lower	Upper
106	100		
91	210.3	171.2	256.8

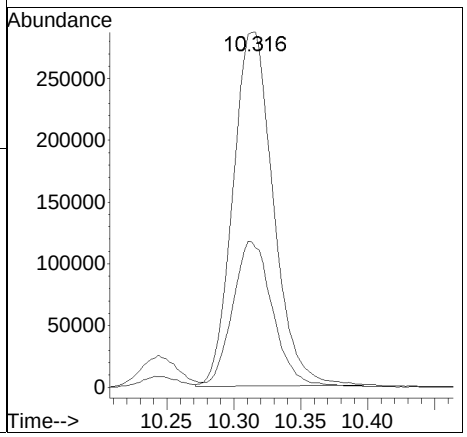


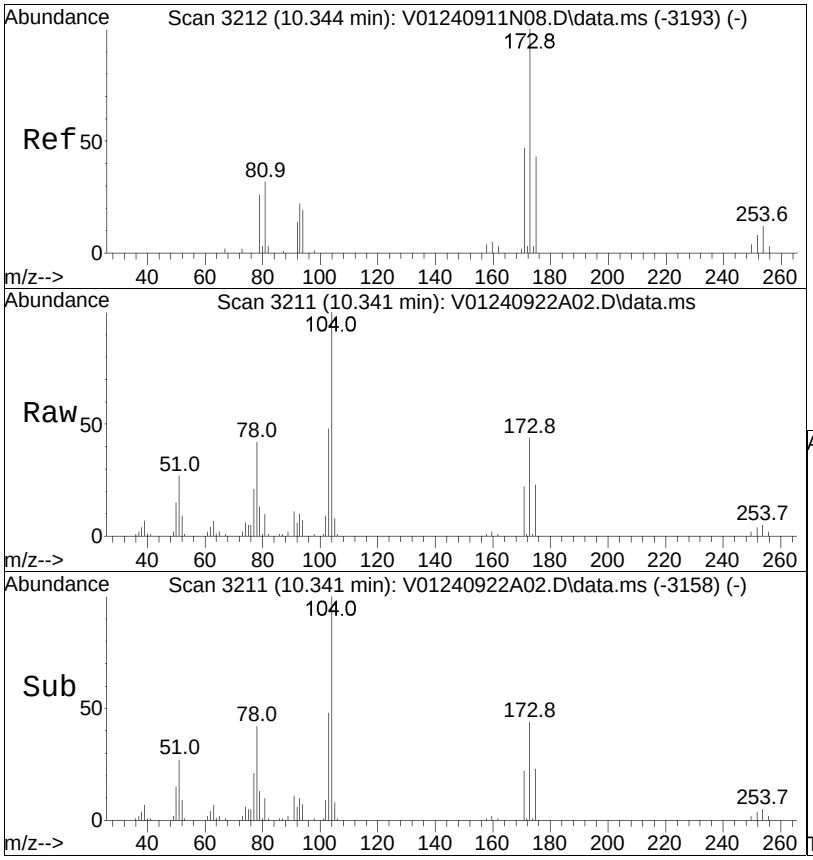


#78
Styrene
Concen: 16.93 ug/L
RT: 10.316 min Scan# 3202
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:104 Resp: 599920

Ion	Ratio	Lower	Upper
104	100		
78	41.3	34.2	51.4

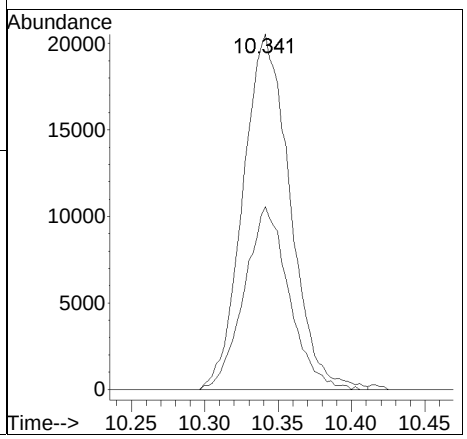


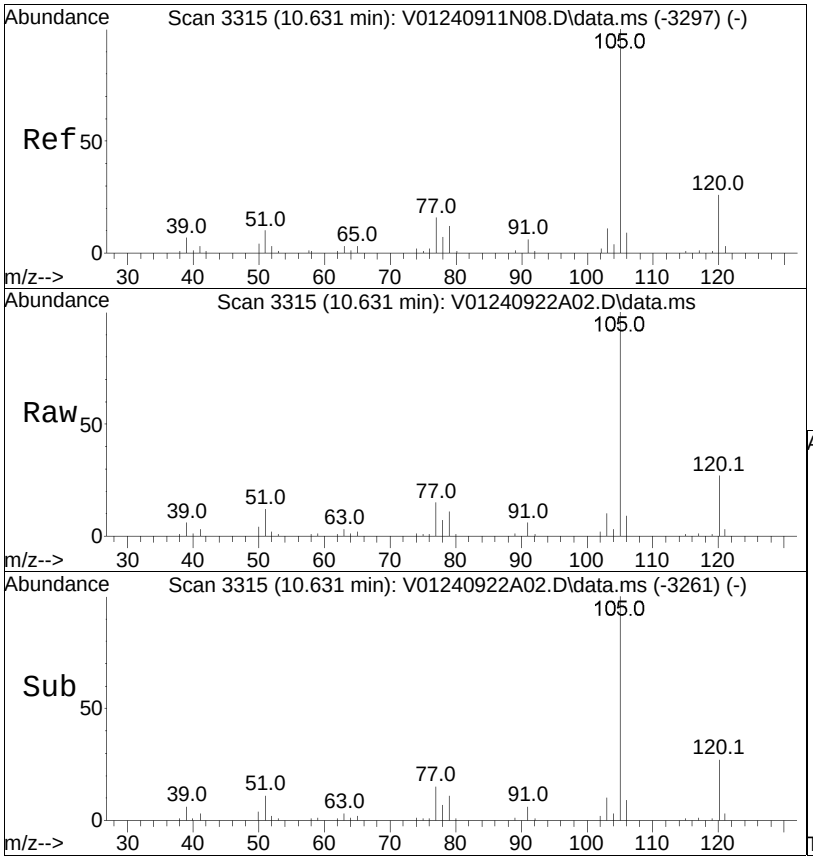


#80
Bromoform
Concen: 8.04 ug/L
RT: 10.341 min Scan# 3211
Delta R.T. -0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:173 Resp: 45837

Ion	Ratio	Lower	Upper
173	100		
175	49.0	28.6	68.6

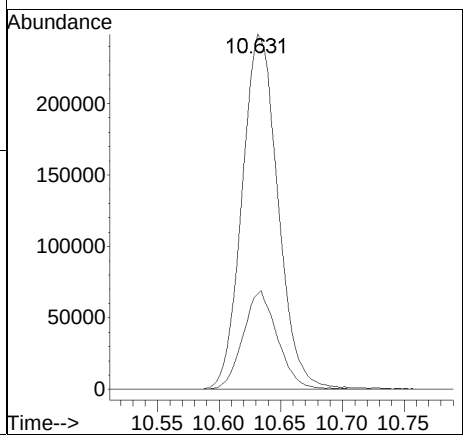


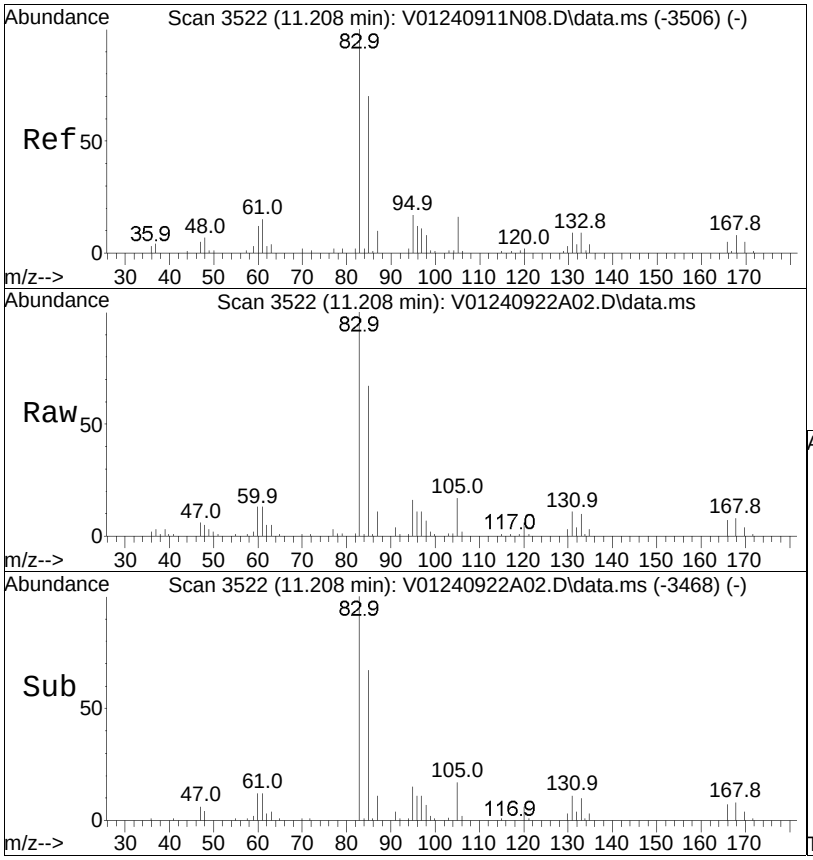


#82
Isopropylbenzene
Concen: 8.66 ug/L
RT: 10.631 min Scan# 3315
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:105 Resp: 504411

Ion	Ratio	Lower	Upper
105	100		
120	26.6	7.3	47.3

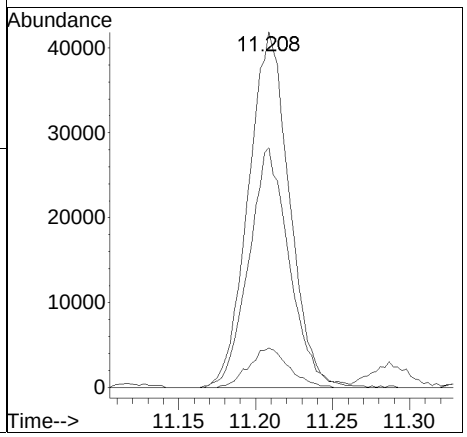


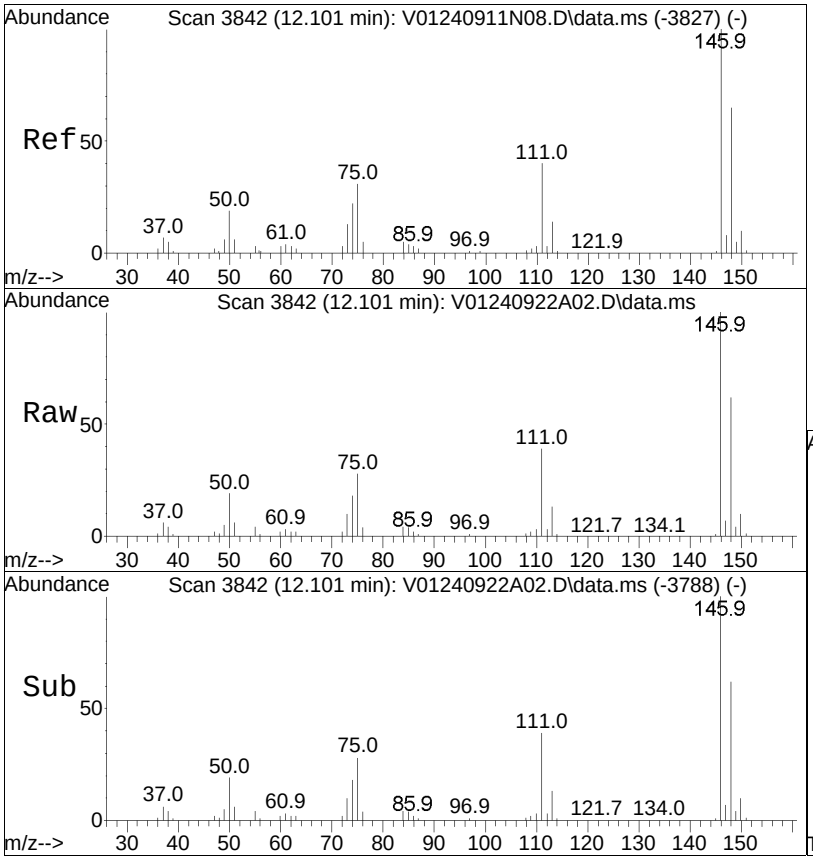


#87
1,1,2,2-Tetrachloroethane
Concen: 8.48 ug/L
RT: 11.208 min Scan# 3522
Delta R.T. 0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion: 83 Resp: 77668

Ion	Ratio	Lower	Upper
83	100		
131	10.8	0.0	30.1
85	66.7	45.8	85.8

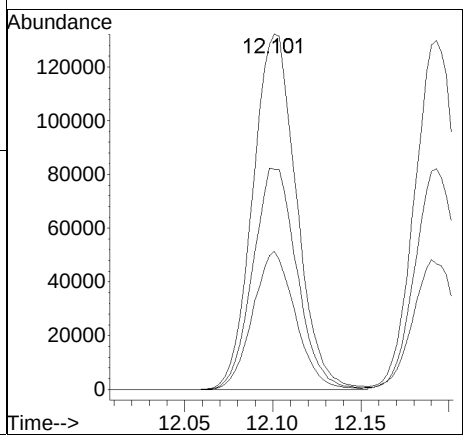


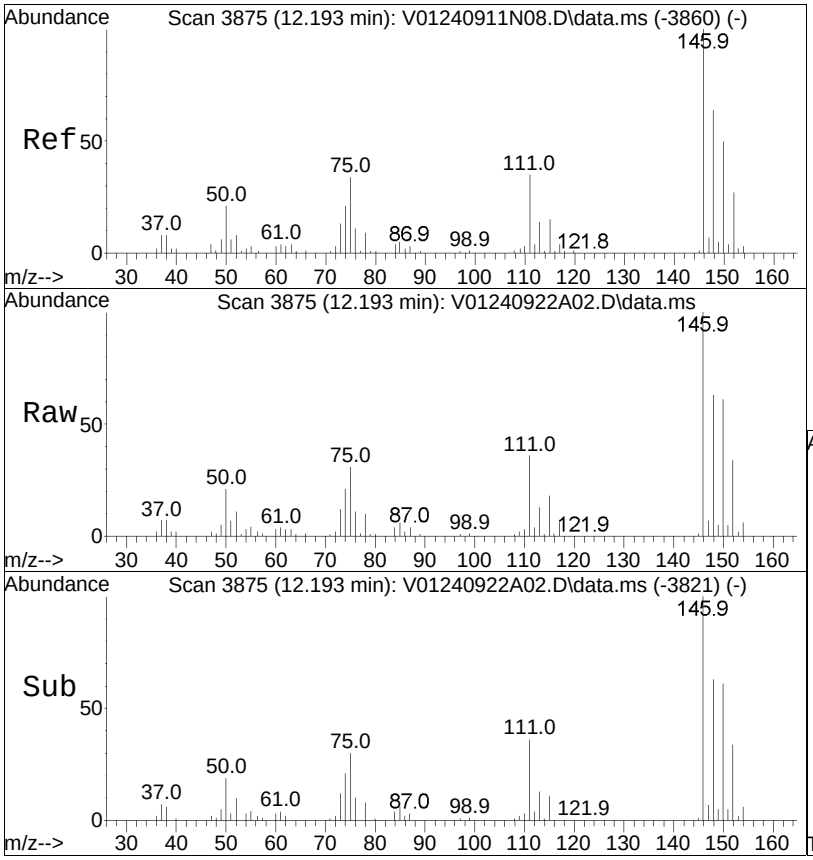


#100
1,3-Dichlorobenzene
Concen: 9.11 ug/L
RT: 12.101 min Scan# 3842
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:146 Resp: 228178

Ion	Ratio	Lower	Upper
146	100		
111	37.9	25.9	53.9
148	62.7	41.5	86.3

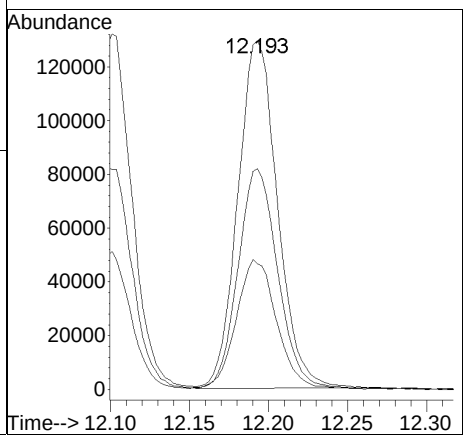


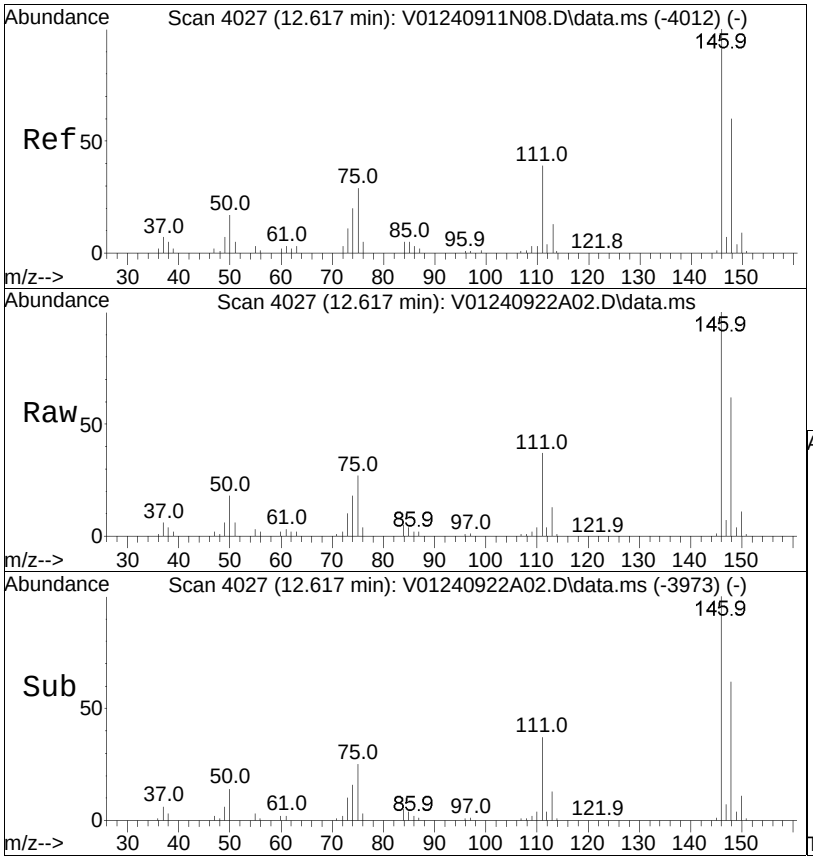


#101
1,4-Dichlorobenzene
Concen: 8.88 ug/L
RT: 12.193 min Scan# 3875
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:146 Resp: 226518

Ion	Ratio	Lower	Upper
146	100		
111	37.8	31.7	47.5
148	62.9	51.5	77.3

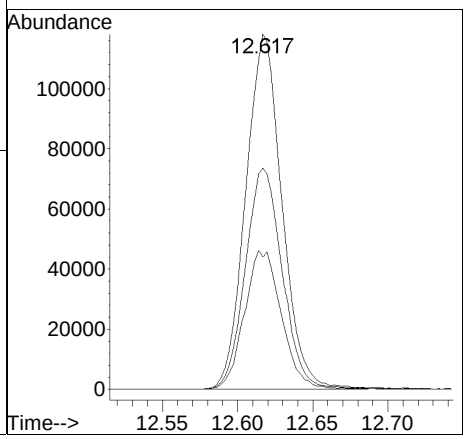


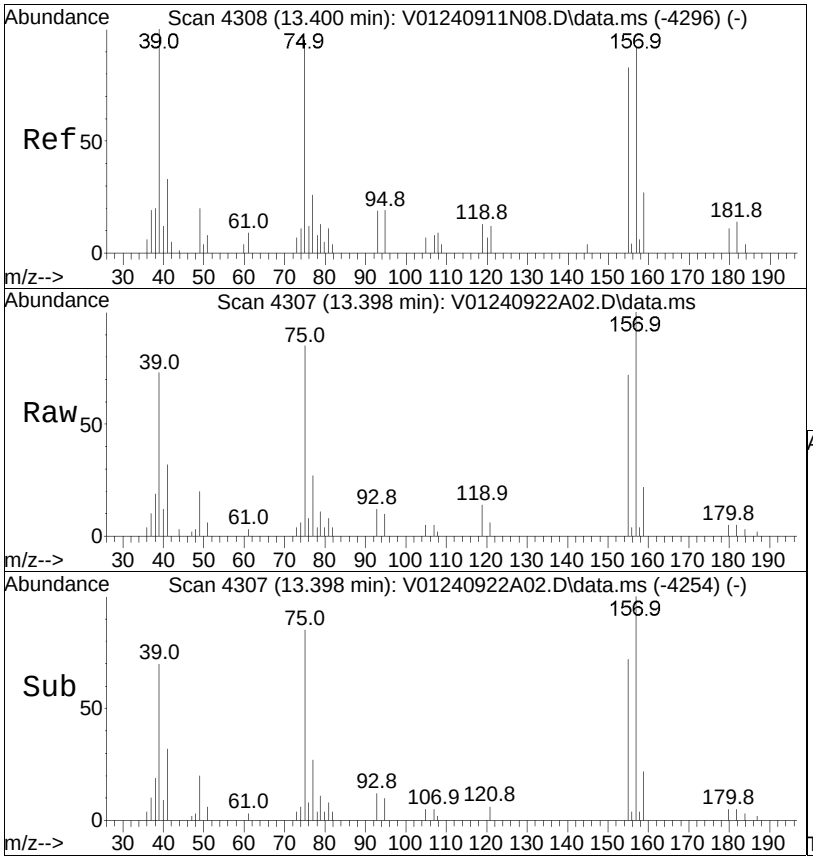


#104
1,2-Dichlorobenzene
Concen: 9.05 ug/L
RT: 12.617 min Scan# 4027
Delta R.T. -0.000 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:146 Resp: 198493

Ion	Ratio	Lower	Upper
146	100		
111	39.9	26.8	55.8
148	63.5	41.6	86.4

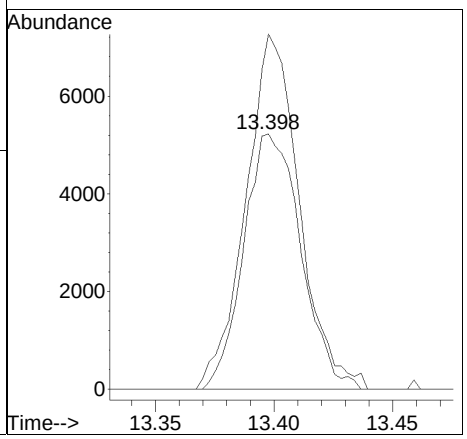


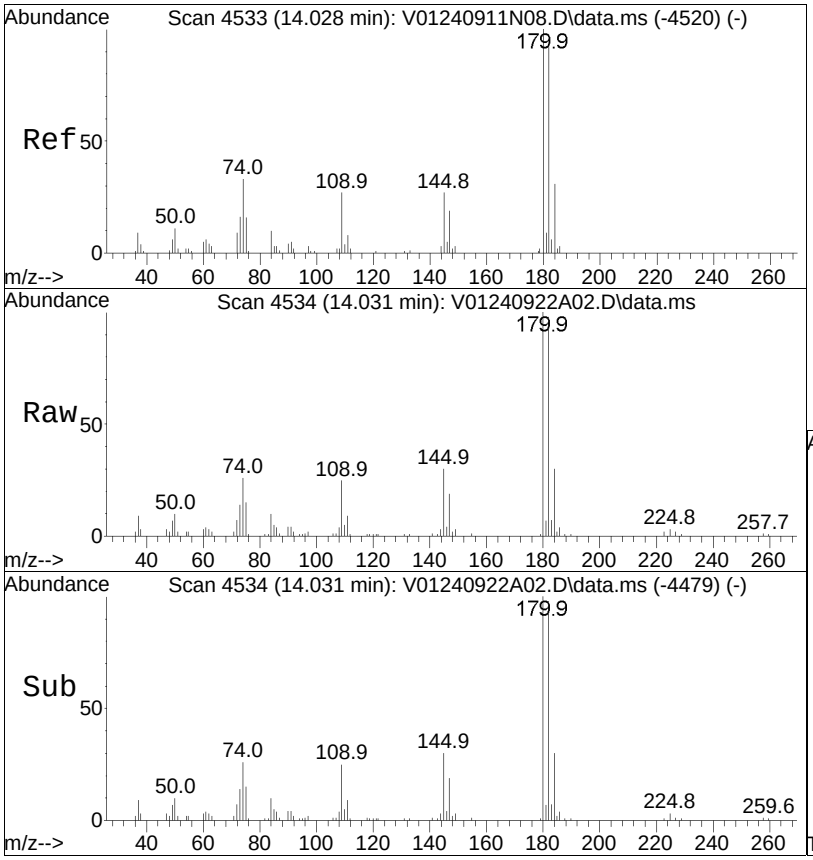


#106
1,2-Dibromo-3-chloropropane
Concen: 8.31 ug/L
RT: 13.398 min Scan# 4307
Delta R.T. -0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:155 Resp: 8776

Ion	Ratio	Lower	Upper
155	100		
157	130.5	101.1	151.7

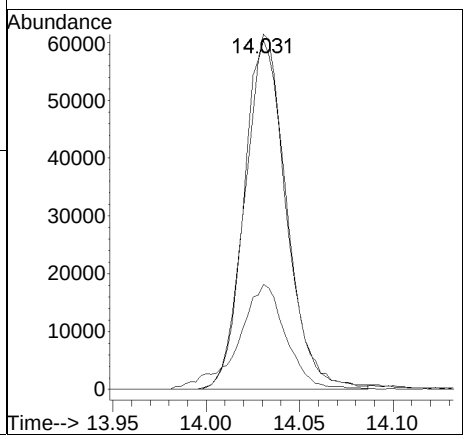


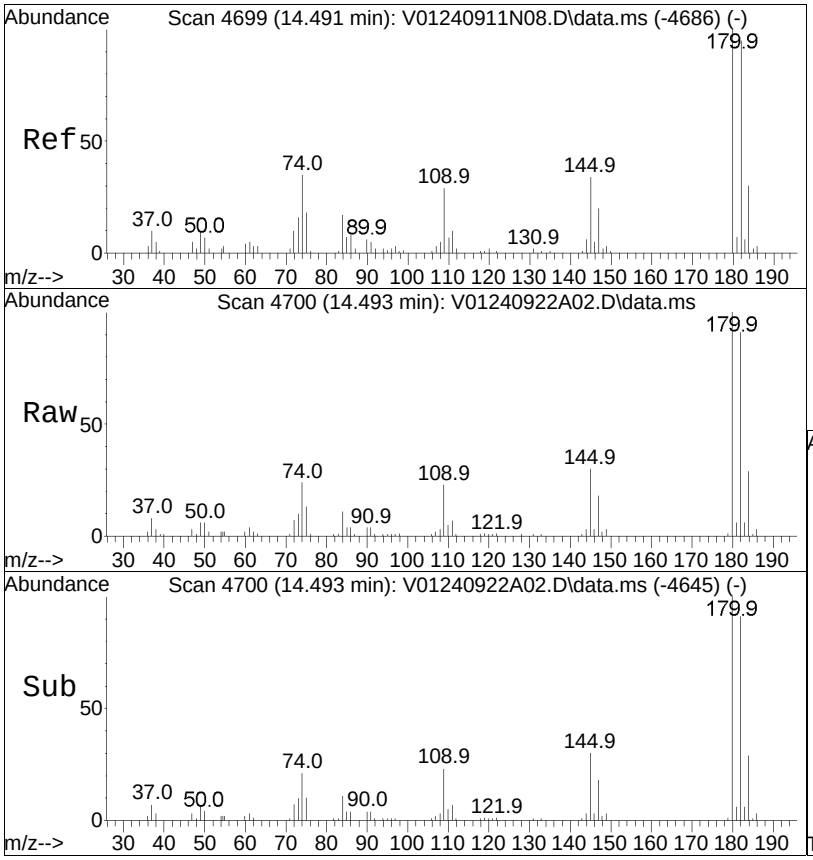


#109
1,2,4-Trichlorobenzene
Concen: 10.04 ug/L
RT: 14.031 min Scan# 4534
Delta R.T. 0.003 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:180 Resp: 97670

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.8	113.8
145	33.2	26.1	39.1

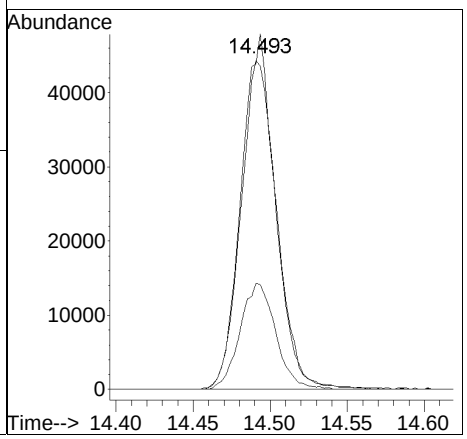




#111
1,2,3-Trichlorobenzene
Concen: 10.06 ug/L
RT: 14.493 min Scan# 4700
Delta R.T. 0.002 min
Lab File: V01240922A02.D
Acq: 22 Sep 2024 4:52 pm

Tgt Ion:180 Resp: 74919

Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.4	113.0
145	30.7	25.0	37.6

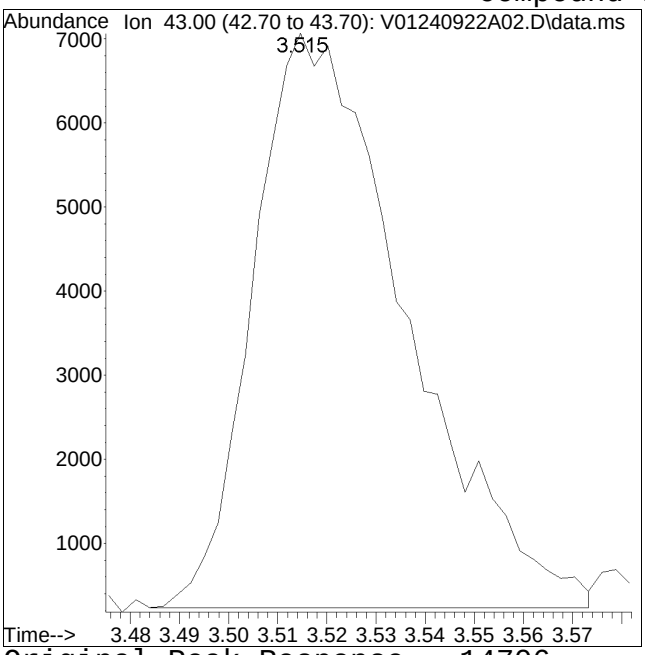


Manual Integration Report

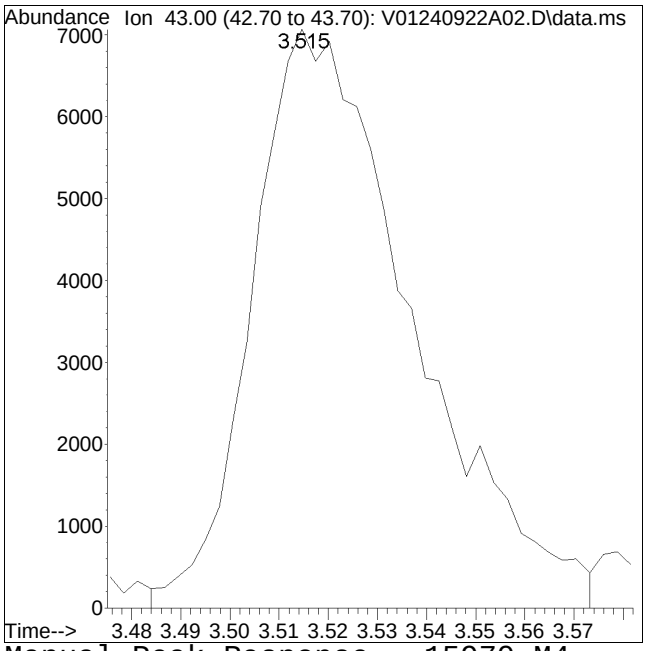
Data Path : K:\VOA101\2024\240922A\
Data File : V01240922A02.D
Date Inj'd : 9/22/2024 4:52 pm
Sample : WG1975156-4,31,10,10

QMethod : V101_240911N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 9/22/2024 5:12 pm

Compound #17: Acetone



Original Peak Response = 14706



Manual Peak Response = 15970 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A03.d
Acq On : 24 Sep 2024 7:36 am
Operator : VOA108:PID
Sample : WG1975613-4,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 08:12:09 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	201964	10.000	ug/L	0.00
Standard Area 1 = 199865			Recovery = 101.05%			
59) Chlorobenzene-d5	9.548	117	157877	10.000	ug/L	0.00
Standard Area 1 = 156281			Recovery = 101.02%			
79) 1,4-Dichlorobenzene-d4	12.243	152	88318	10.000	ug/L	0.00
Standard Area 1 = 91792			Recovery = 96.22%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	60029	9.767	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.67%			
43) 1,2-Dichloroethane-d4	5.742	65	57547	10.176	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.76%			
60) Toluene-d8	7.708	98	195871	10.482	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.82%			
83) 4-Bromofluorobenzene	11.032	95	67397	10.764	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	53122	12.766	ug/L	98
3) Chloromethane	1.867	50	48044	10.996	ug/L	98
4) Vinyl chloride	1.935	62	71834	11.611	ug/L	95
5) Bromomethane	2.250	94	40864	7.510	ug/L	99
6) Chloroethane	2.365	64	60304	10.727	ug/L	97
7) Trichlorofluoromethane	2.502	101	103228	10.653	ug/L	98
10) 1,1-Dichloroethene	2.989	96	40939	10.937	ug/L #	62
11) Carbon disulfide	3.015	76	139124	10.898	ug/L	97
12) Freon-113	3.026	101	40679	11.097	ug/L	92
15) Methylene chloride	3.540	84	49691	10.111	ug/L	73
17) Acetone	3.576	43	9001	10.243	ug/L	97
18) trans-1,2-Dichloroethene	3.692	96	47327	10.403	ug/L	73
19) Methyl acetate	3.697	43	21539	10.034	ug/L #	80
20) Methyl tert-butyl ether	3.791	73	123602	9.897	ug/L	95
23) 1,1-Dichloroethane	4.268	63	87895	11.106	ug/L	98
28) cis-1,2-Dichloroethene	4.782	96	53261	10.170	ug/L #	68
30) Bromochloromethane	4.971	128	27958	9.345	ug/L #	54
31) Cyclohexane	4.981	56	66857	16.536	ug/L #	58
32) Chloroform	5.044	83	88645	10.512	ug/L	96
34) Carbon tetrachloride	5.181	117	69153	10.511	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A03.d
Acq On : 24 Sep 2024 7:36 am
Operator : VOA108:PID
Sample : WG1975613-4,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 08:12:09 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240924A\V08240924A02.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.244	97	74752	10.628	ug/L	#	91
39) 2-Butanone	5.338	43	14373	11.263	ug/L	#	30
41) Benzene	5.611	78	184662	10.442	ug/L		90
44) 1,2-Dichloroethane	5.810	62	59840	10.436	ug/L		95
47) Methyl cyclohexane	6.198	83	62682	16.268	ug/L	#	70
48) Trichloroethene	6.203	95	49192	10.132	ug/L		89
51) 1,2-Dichloropropane	6.743	63	48673	11.031	ug/L		94
54) Bromodichloromethane	6.817	83	67546	10.220	ug/L	#	97
58) cis-1,3-Dichloropropene	7.498	75	70969	10.125	ug/L	#	86
61) Toluene	7.766	92	118127	10.816	ug/L		99
62) 4-Methyl-2-pentanone	8.201	58	11051	9.914	ug/L	#	96
63) Tetrachloroethene	8.216	166	53641	10.480	ug/L		87
65) trans-1,3-Dichloropropene	8.243	75	61037	10.580	ug/L		89
68) 1,1,2-Trichloroethane	8.431	83	33374	10.723	ug/L		93
69) Chlorodibromomethane	8.641	129	52769	9.563	ug/L		96
71) 1,2-Dibromoethane	8.919	107	39655	10.454	ug/L		100
72) 2-Hexanone	9.202	43	16486	9.857	ug/L	#	94
73) Chlorobenzene	9.564	112	141752	10.470	ug/L		96
74) Ethylbenzene	9.606	91	221881	11.164	ug/L		98
76) p/m Xylene	9.795	106	177298	21.212	ug/L		94
77) o Xylene	10.329	106	173099	20.912	ug/L		87
78) Styrene	10.398	104	293882	19.630	ug/L	#	84
80) Bromoform	10.424	173	31592	9.054	ug/L		96
82) Isopropylbenzene	10.712	105	215622	11.664	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.278	83	48619	11.153	ug/L		100
100) 1,3-Dichlorobenzene	12.164	146	124787	10.693	ug/L		97
101) 1,4-Dichlorobenzene	12.259	146	127066	10.604	ug/L		97
104) 1,2-Dichlorobenzene	12.684	146	117754	10.393	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.460	155	7342	9.471	ug/L		91
109) 1,2,4-Trichlorobenzene	14.089	180	80589	10.234	ug/L		98
111) 1,2,3-Trichlorobenzene	14.550	180	74209	10.141	ug/L		99

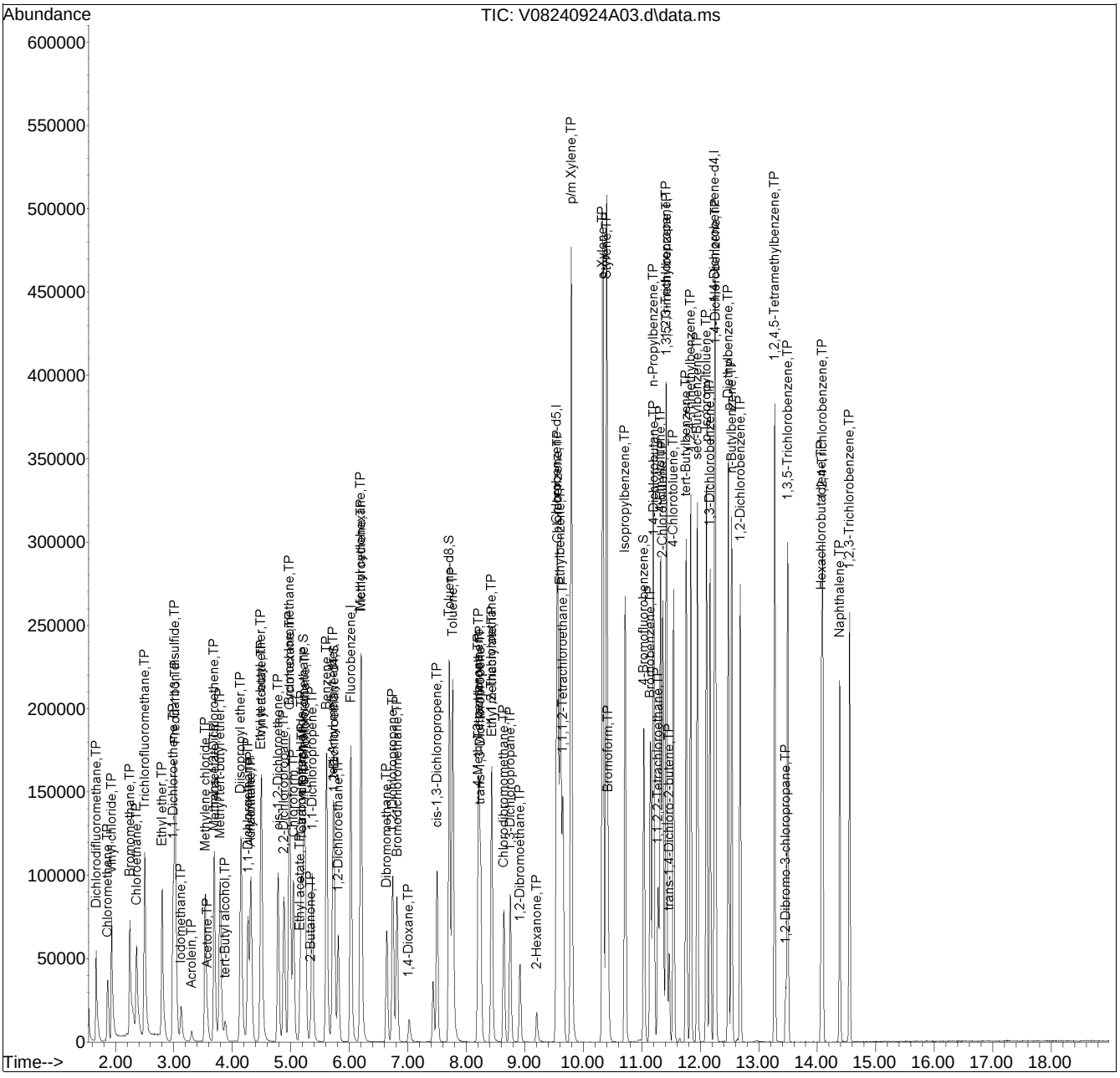
(#) = qualifier out of range (m) = manual integration (+) = signals summed

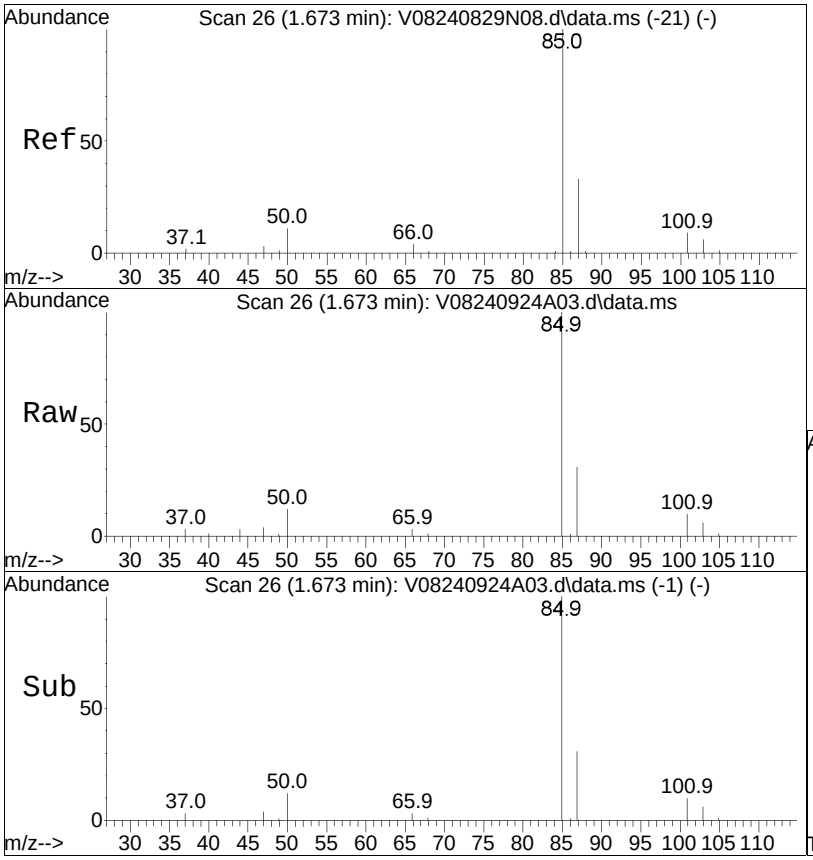
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240924A\
Data File : V08240924A03.d
Acq On : 24 Sep 2024 7:36 am
Operator : VOA108:PID
Sample : WG1975613-4,31,10,10
Misc : WG1975613,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 08:12:09 2024
Quant Method : K:\VOA108\2024\240924A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE02.d•

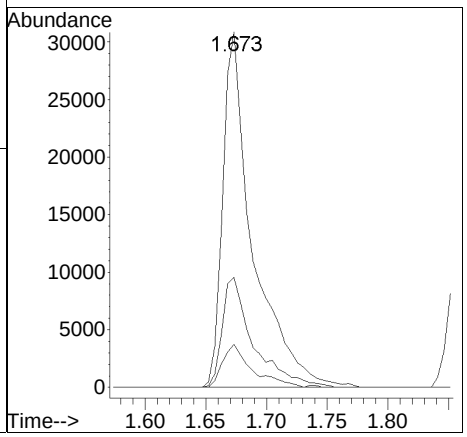


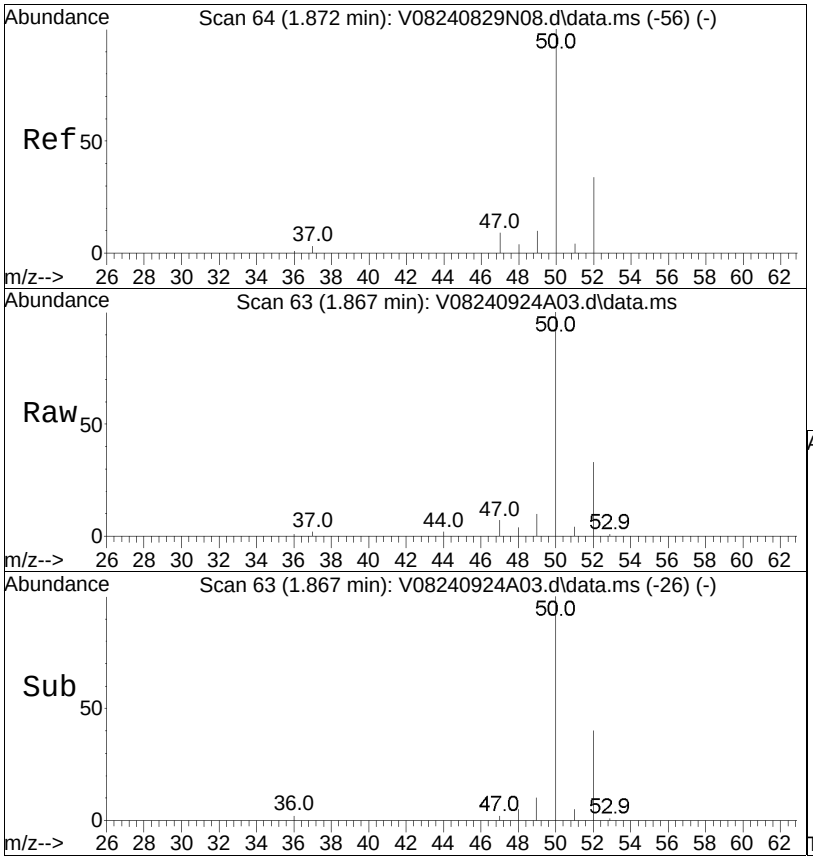


#2
Dichlorodifluoromethane
Concen: 12.77 ug/L
RT: 1.673 min Scan# 26
Delta R.T. 0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 85 Resp: 53122

Ion	Ratio	Lower	Upper
85	100		
87	32.1	21.0	43.6
50	11.9	8.9	18.5

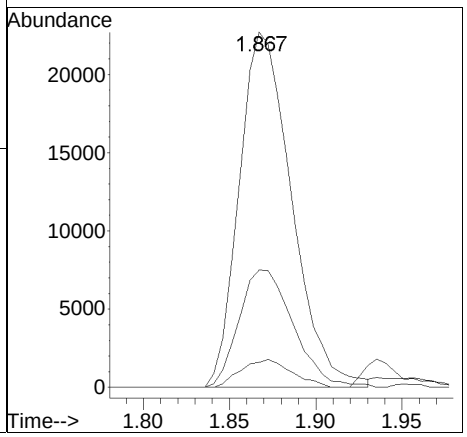


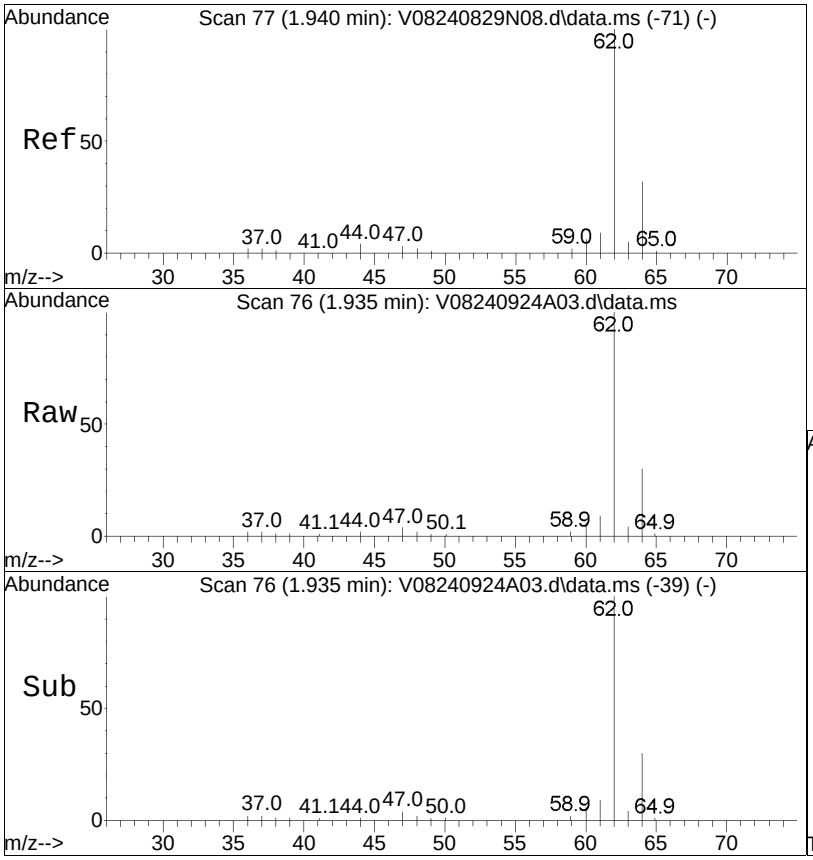


#3
Chloromethane
Concen: 11.00 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 50 Resp: 48044

Ion	Ratio	Lower	Upper
50	100		
52	34.3	12.9	52.9
47	7.7	0.0	28.3

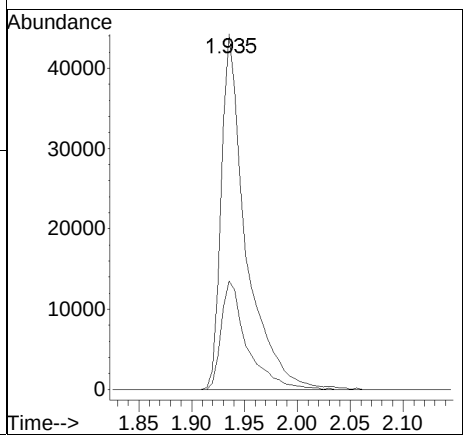


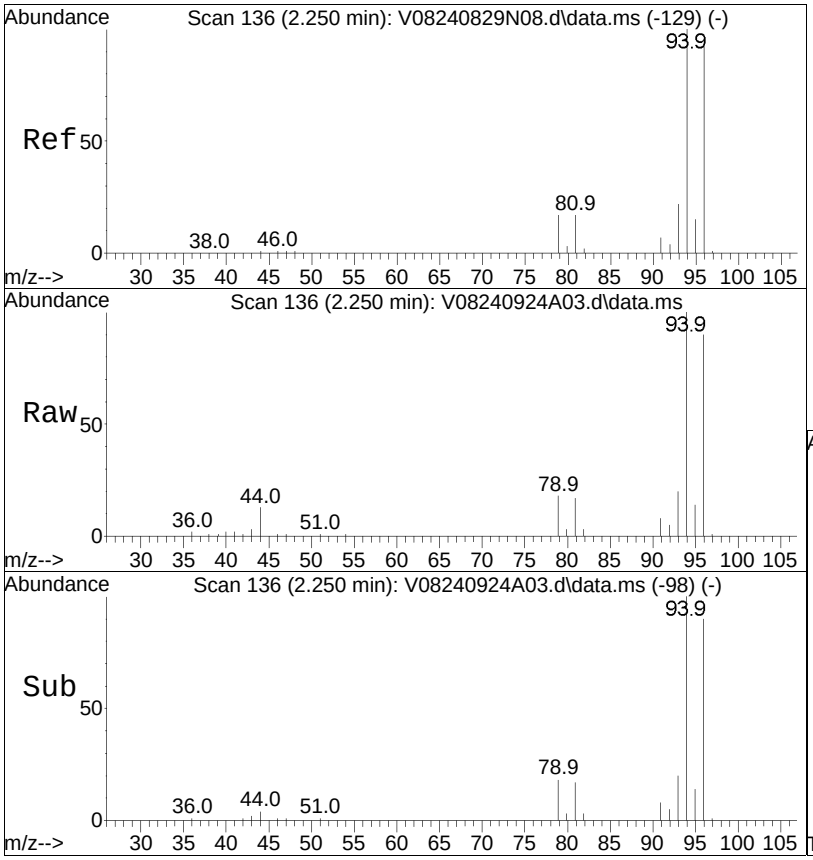


#4
Vinyl chloride
Concen: 11.61 ug/L
RT: 1.935 min Scan# 76
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 62 Resp: 71834

Ion	Ratio	Lower	Upper
62	100		
64	31.9	9.1	49.1

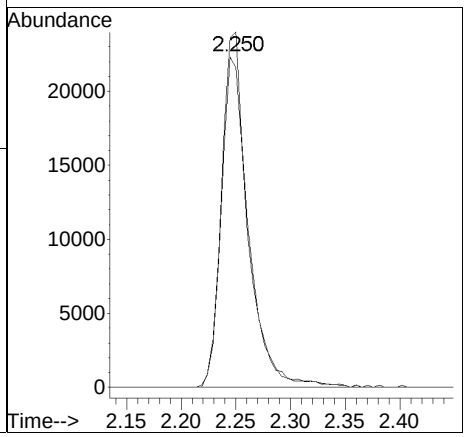


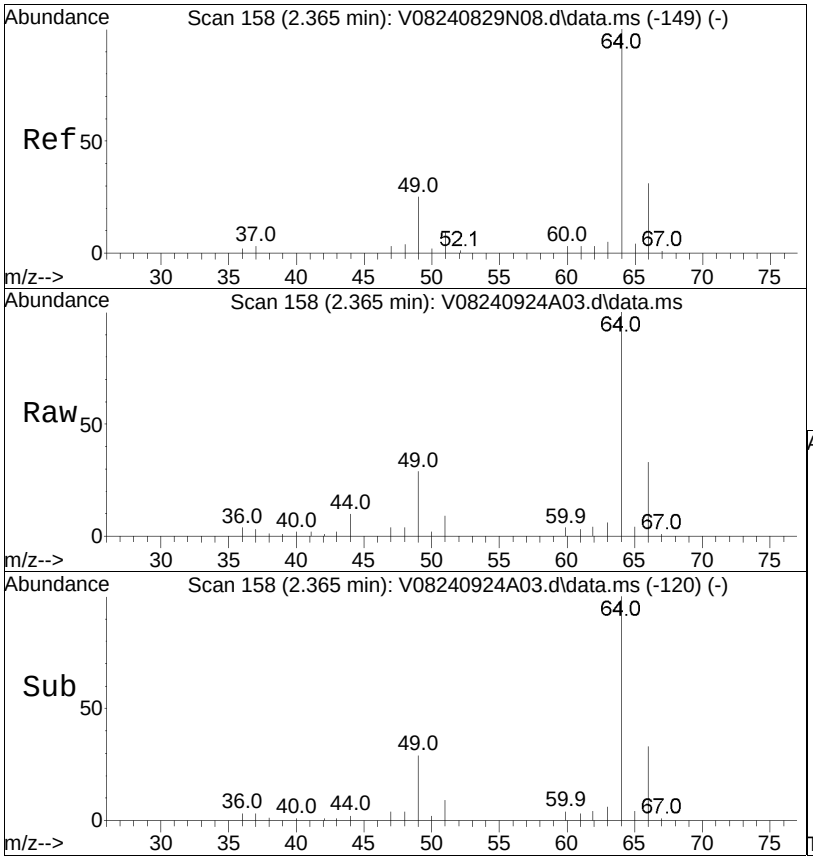


#5
Bromomethane
Concen: 7.51 ug/L
RT: 2.250 min Scan# 136
Delta R.T. -0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 94 Resp: 40864

Ion	Ratio	Lower	Upper
94	100		
96	94.2	75.6	115.6

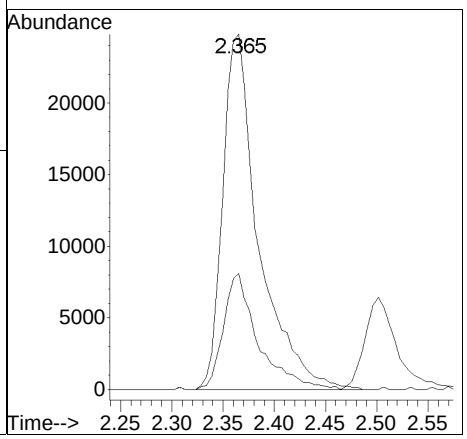


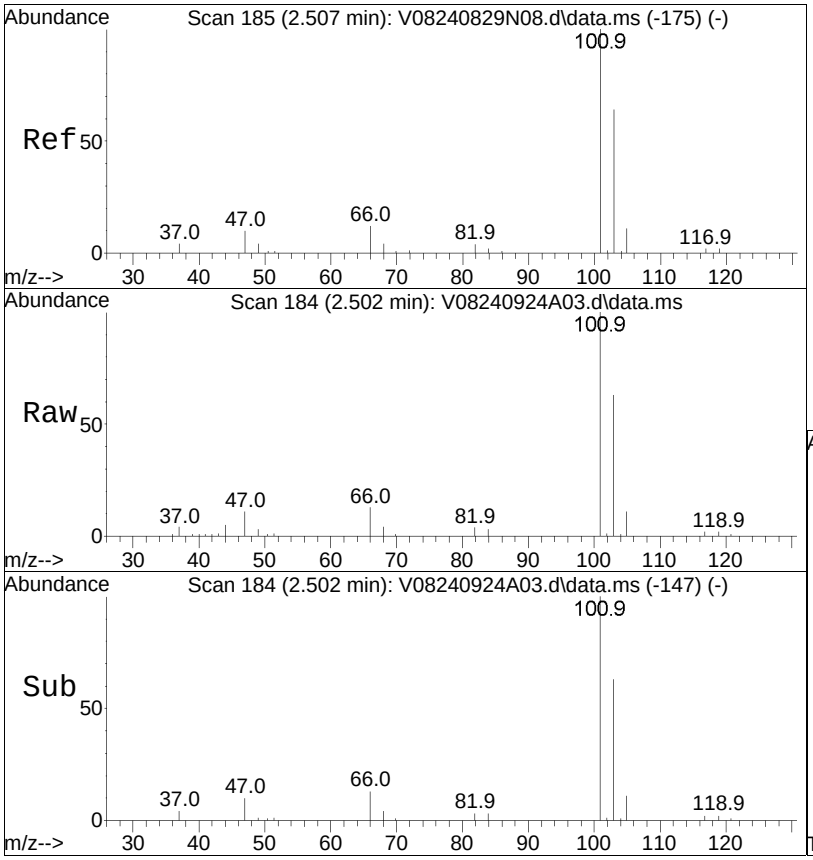


#6
Chloroethane
Concen: 10.73 ug/L
RT: 2.365 min Scan# 158
Delta R.T. 0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 64 Resp: 60304

Ion	Ratio	Lower	Upper
64	100		
66	31.6	9.8	49.8

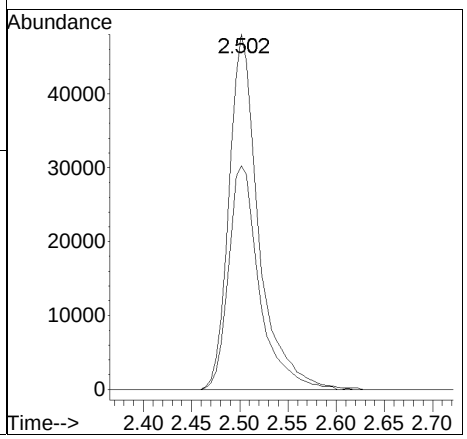


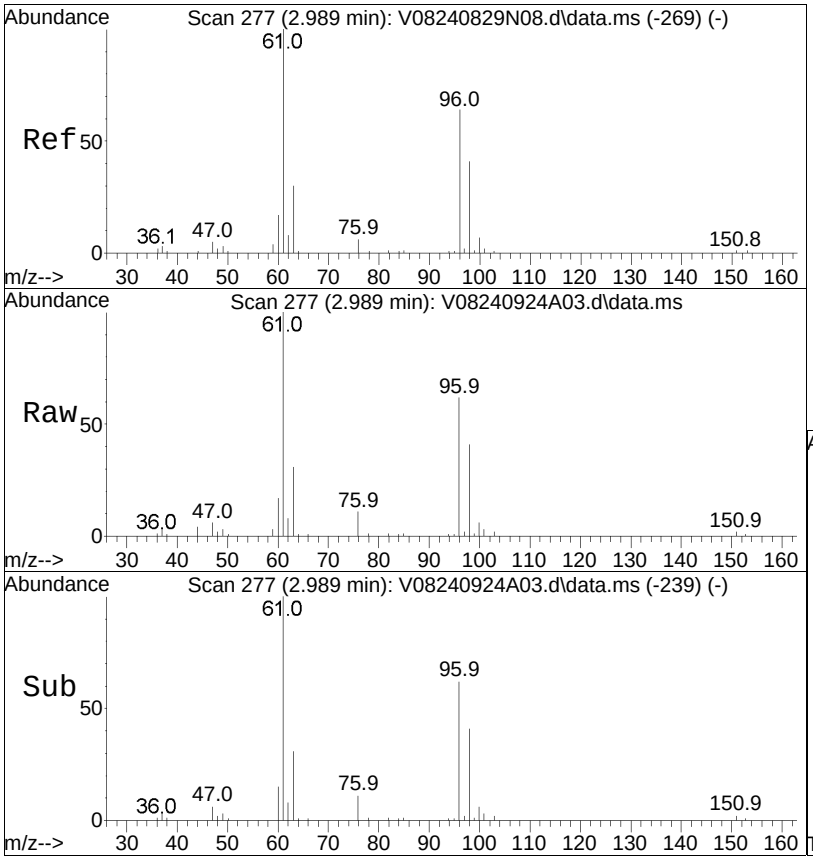


#7
Trichlorofluoromethane
Concen: 10.65 ug/L
RT: 2.502 min Scan# 184
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:101 Resp: 103228

Ion	Ratio	Lower	Upper
101	100		
103	65.2	53.8	80.6

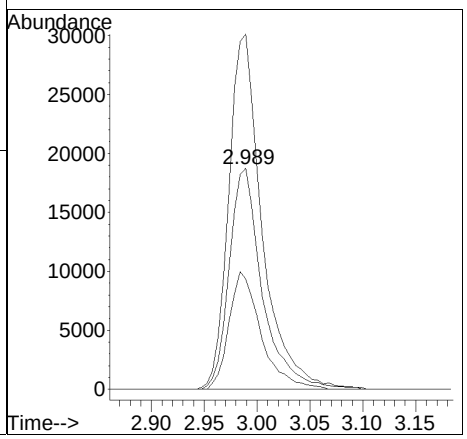


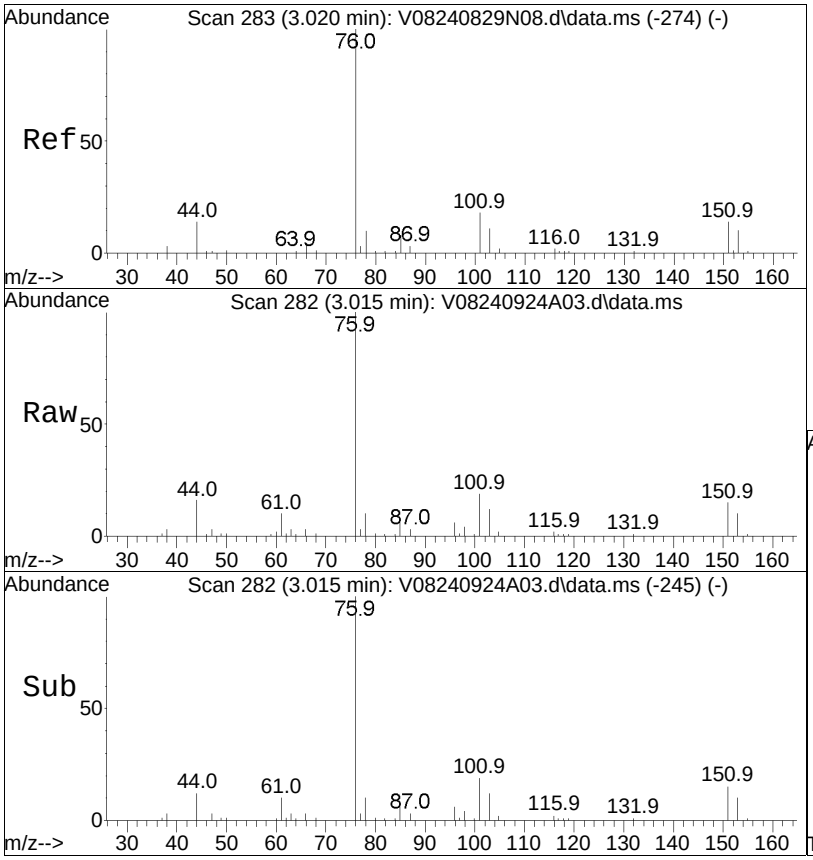


#10
1,1-Dichloroethene
Concen: 10.94 ug/L
RT: 2.989 min Scan# 277
Delta R.T. 0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 96 Resp: 40939

Ion	Ratio	Lower	Upper
96	100		
61	161.9	186.1	279.1#
63	51.7	57.6	86.4#

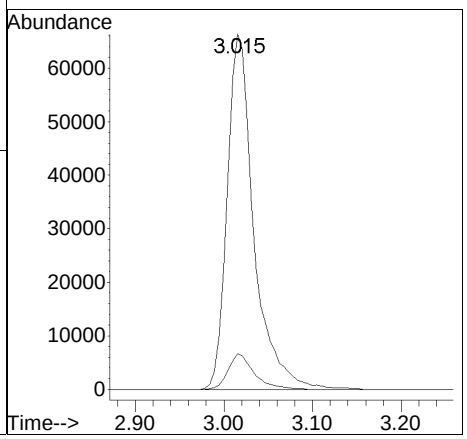


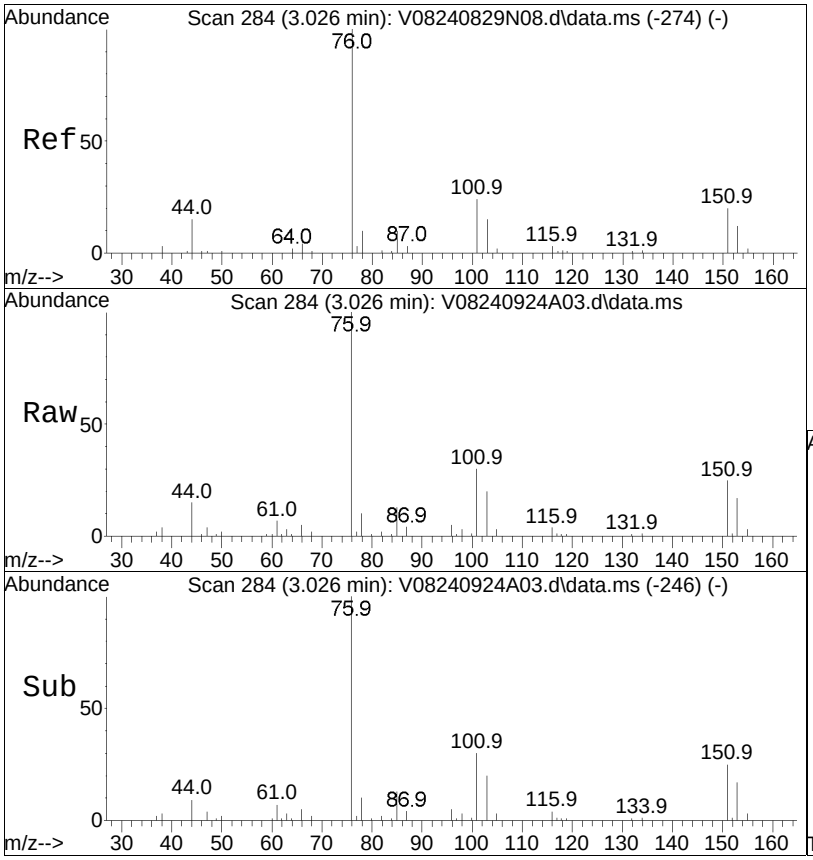


#11
Carbon disulfide
Concen: 10.90 ug/L
RT: 3.015 min Scan# 282
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 76 Resp: 139124

Ion	Ratio	Lower	Upper
76	100		
78	9.8	5.7	11.7

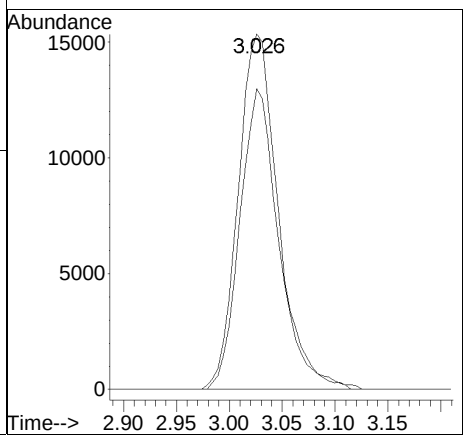


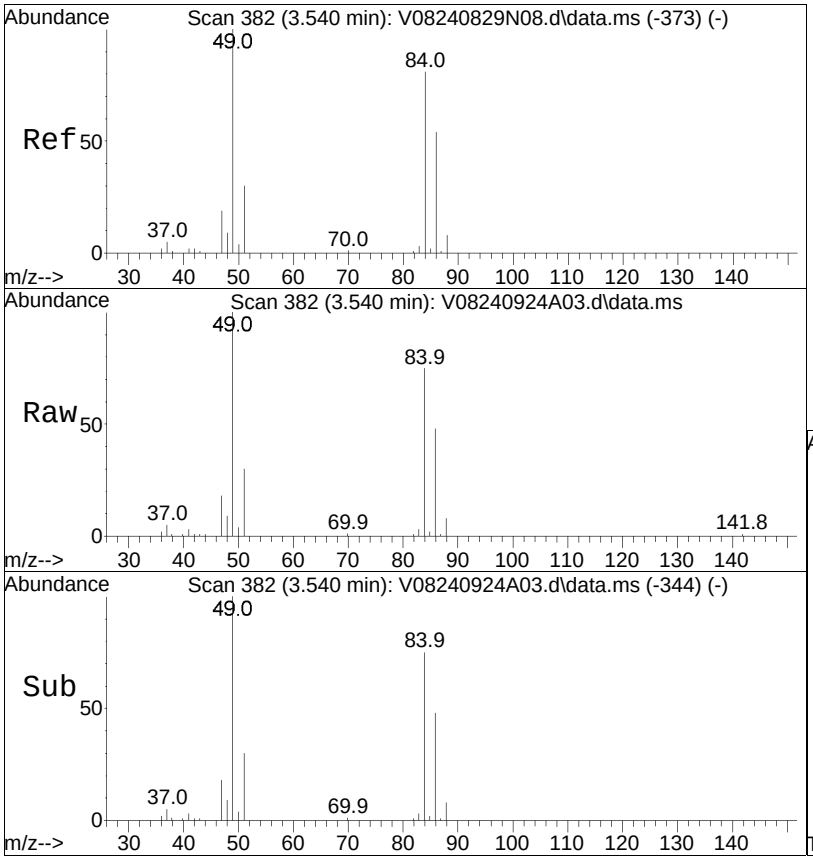


#12
Freon-113
Concen: 11.10 ug/L
RT: 3.026 min Scan# 284
Delta R.T. -0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:101 Resp: 40679

Ion	Ratio	Lower	Upper
101	100		
151	81.6	59.8	89.8

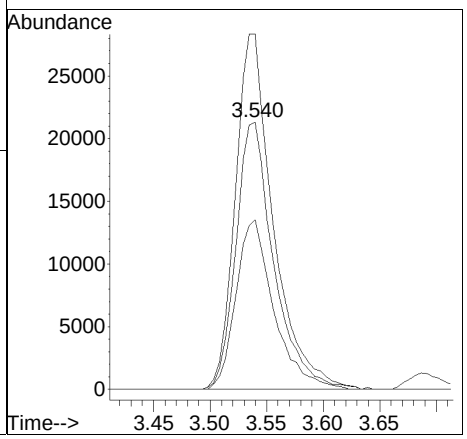


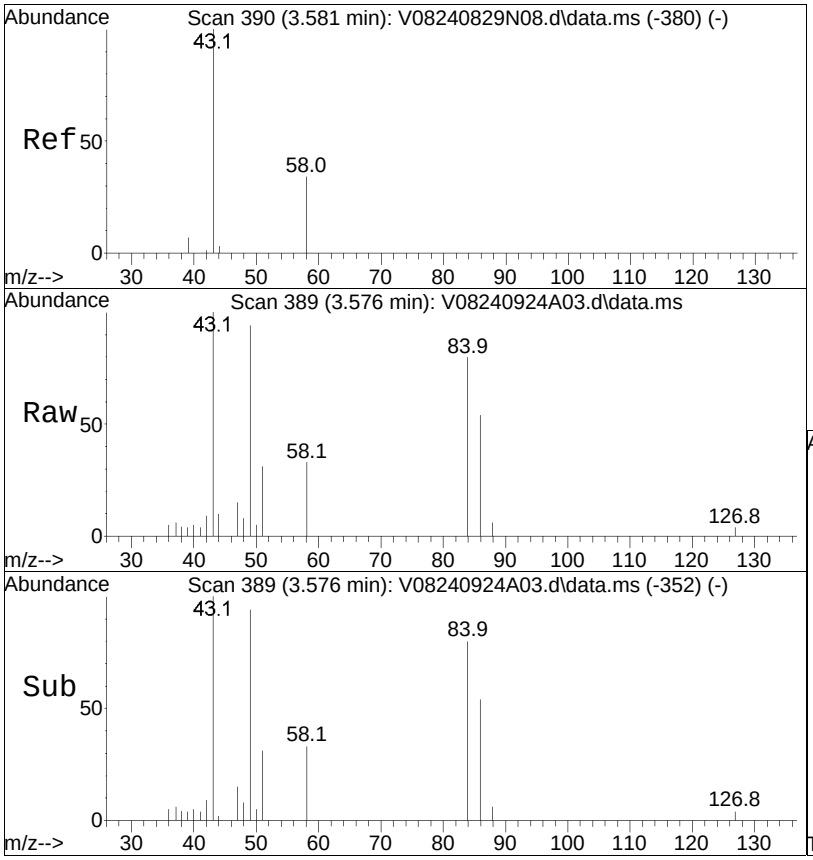


#15
Methylene chloride
Concen: 10.11 ug/L
RT: 3.540 min Scan# 382
Delta R.T. -0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 84 Resp: 49691

Ion	Ratio	Lower	Upper
84	100		
86	63.7	40.4	83.8
49	133.1	120.0	249.2

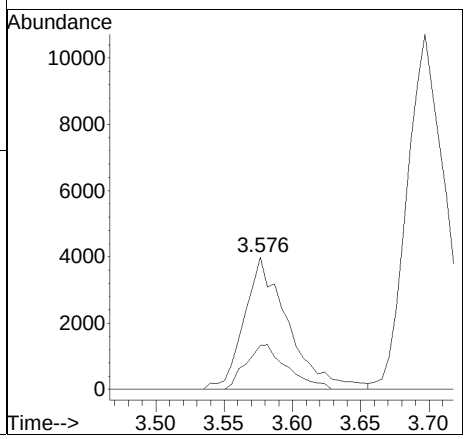


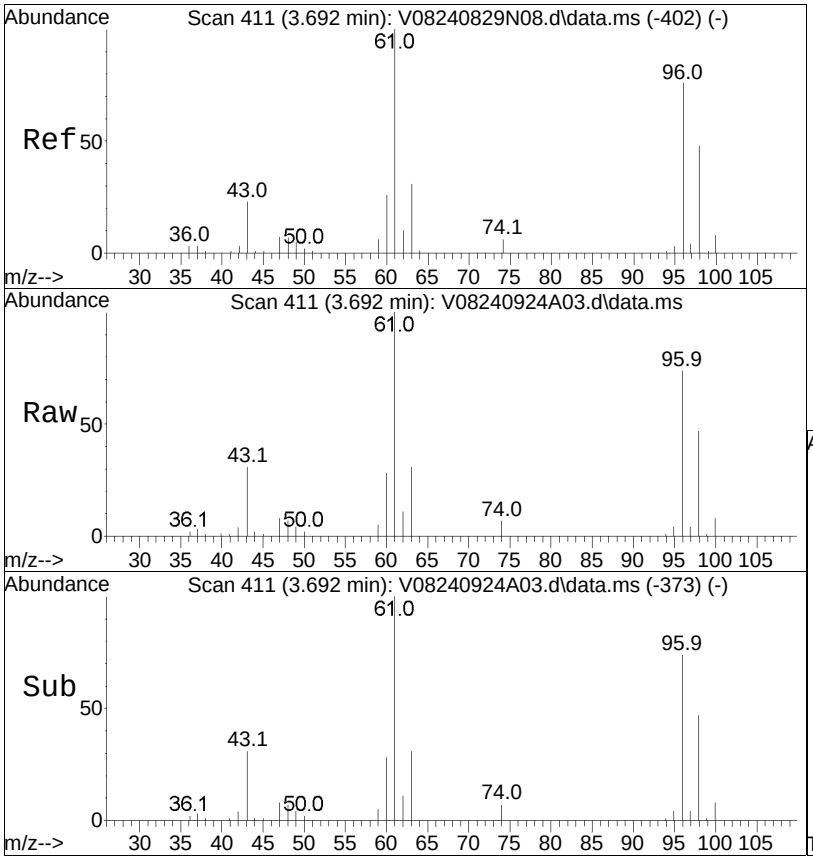


#17
Acetone
Concen: 10.24 ug/L
RT: 3.576 min Scan# 389
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 43 Resp: 9001

Ion	Ratio	Lower	Upper
43	100		
58	31.8	24.2	36.4

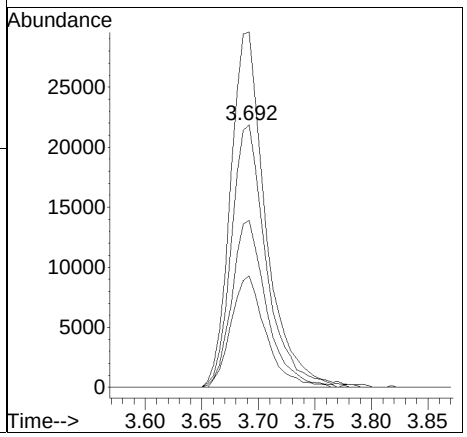


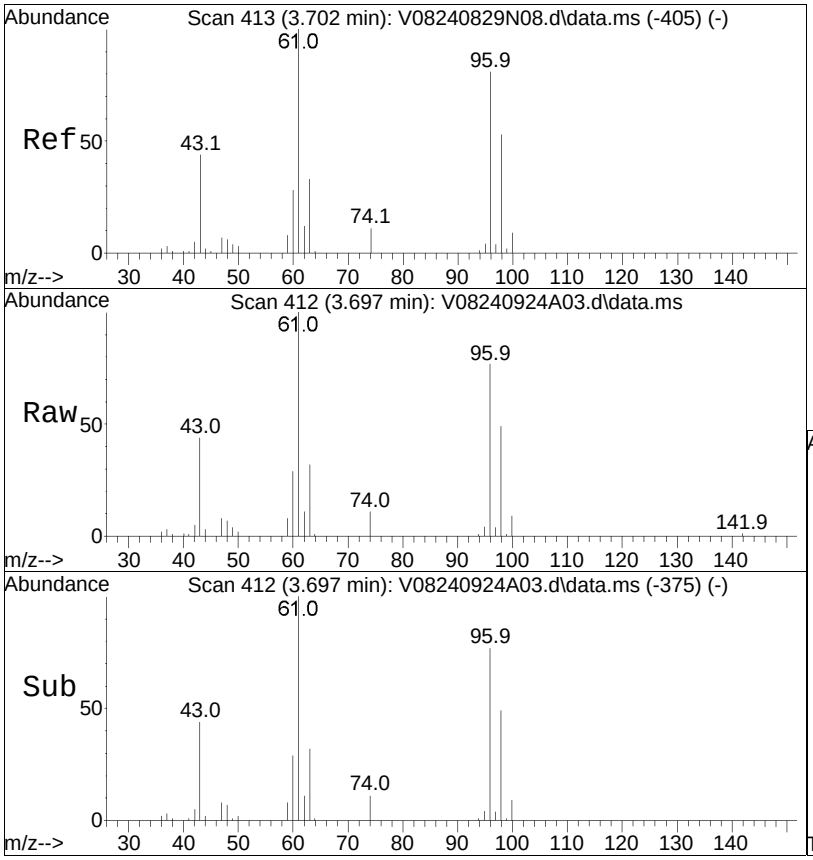


#18
trans-1,2-Dichloroethene
Concen: 10.40 ug/L
RT: 3.692 min Scan# 411
Delta R.T. -0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 96 Resp: 47327

Ion	Ratio	Lower	Upper
96	100		
61	136.3	124.0	257.6
98	63.1	41.2	85.6
63	42.3	38.4	79.7

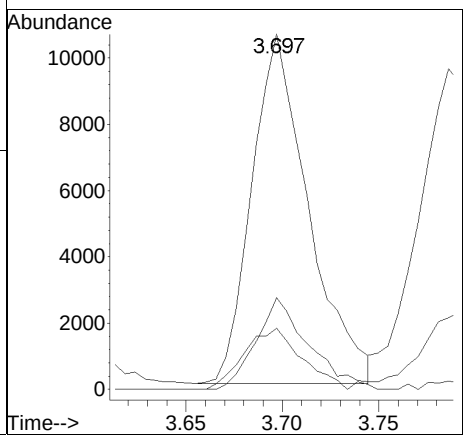


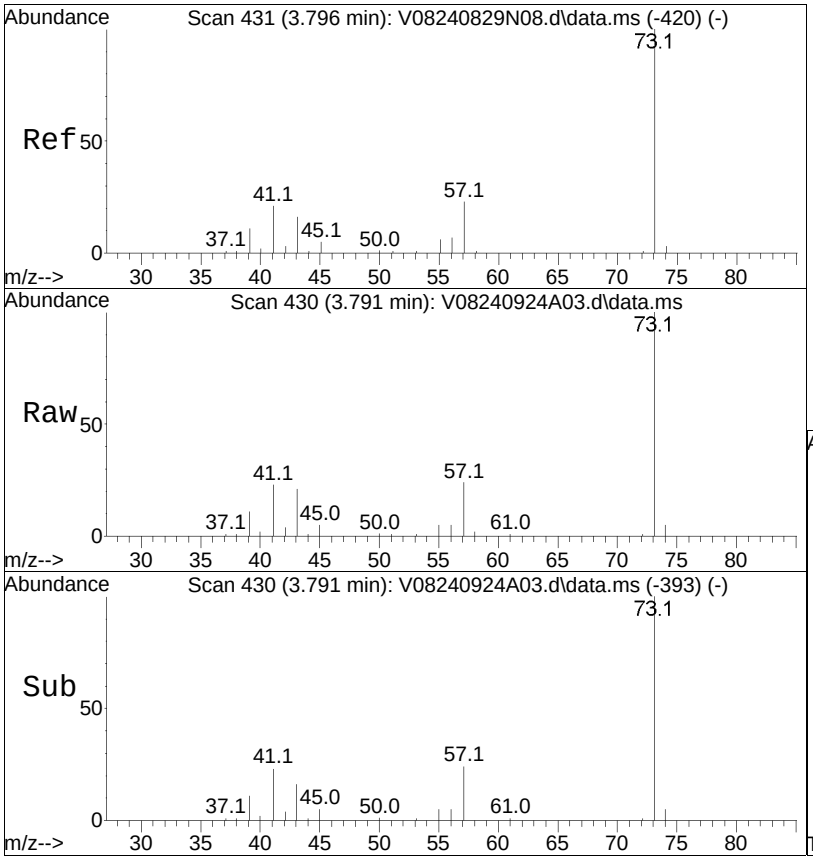


#19
Methyl acetate
Concen: 10.03 ug/L
RT: 3.697 min Scan# 412
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 43 Resp: 21539

Ion	Ratio	Lower	Upper
43	100		
74	24.7	14.2	21.4#
59	17.8	5.0	7.6#

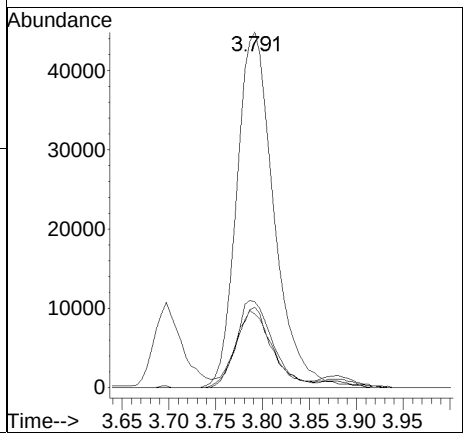


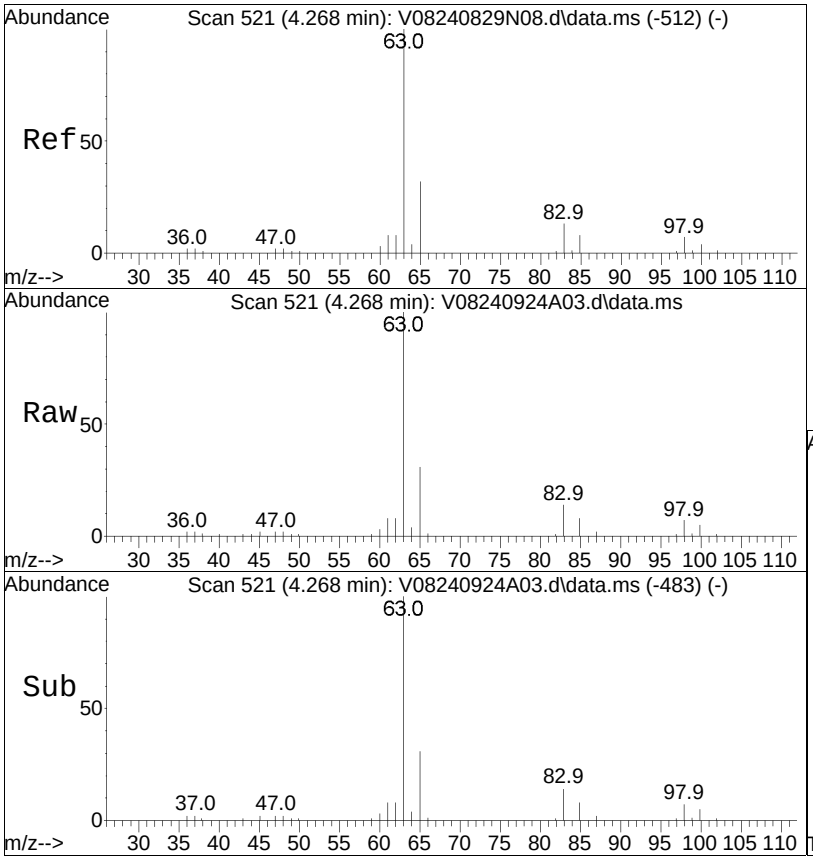


#20
Methyl tert-butyl ether
Concen: 9.90 ug/L
RT: 3.791 min Scan# 430
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 73 Resp: 123602

Ion	Ratio	Lower	Upper
73	100		
57	24.1	17.5	36.3
43	21.2	15.3	31.9
41	22.0	15.3	31.7

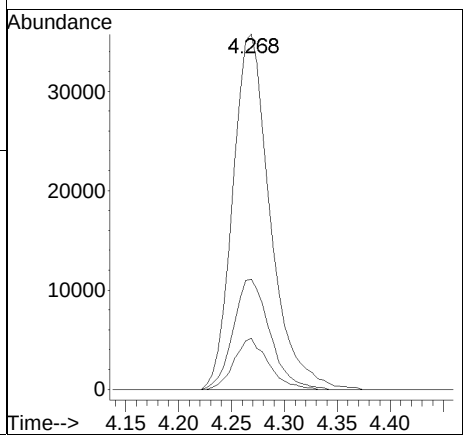


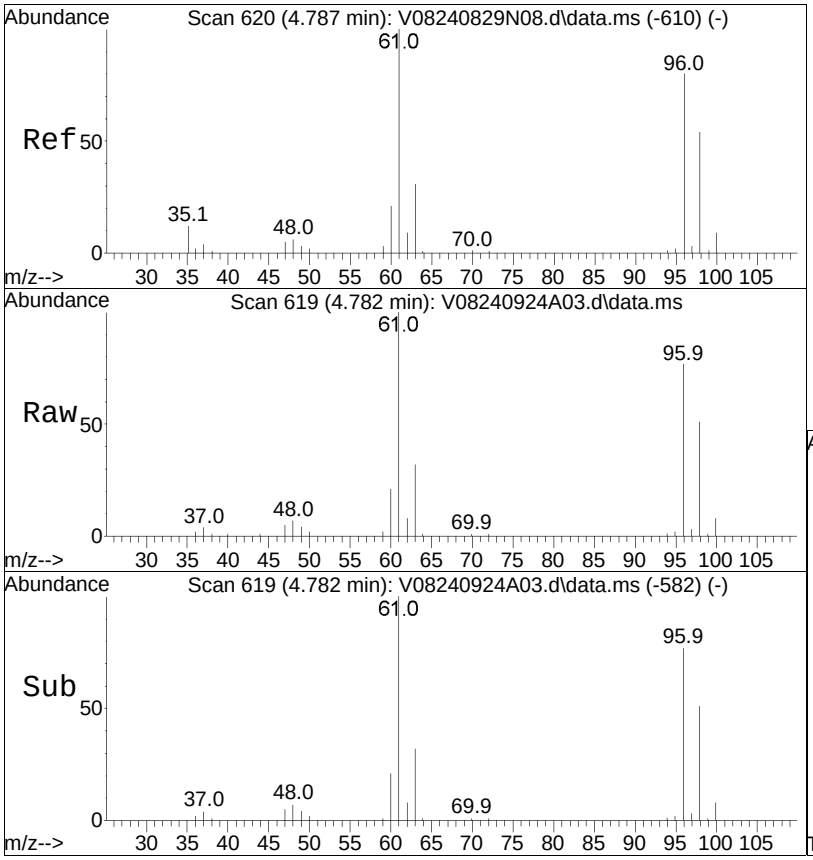


#23
1,1-Dichloroethane
Concen: 11.11 ug/L
RT: 4.268 min Scan# 521
Delta R.T. 0.000 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 63 Resp: 87895

Ion	Ratio	Lower	Upper
63	100		
65	30.3	11.0	51.0
83	13.2	0.0	31.8

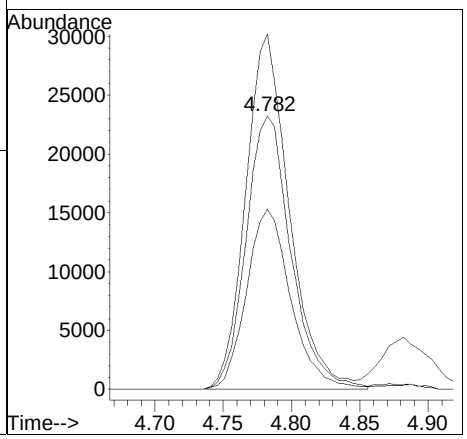


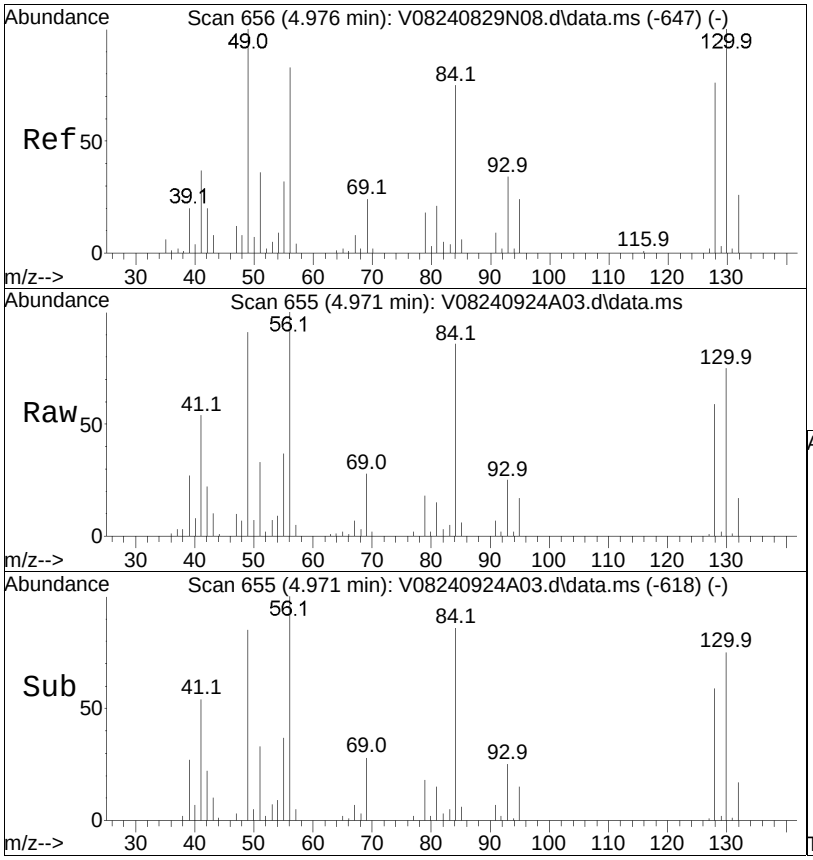


#28
cis-1,2-Dichloroethene
Concen: 10.17 ug/L
RT: 4.782 min Scan# 619
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 96 Resp: 53261

Ion	Ratio	Lower	Upper
96	100		
61	125.8	149.4	224.2#
98	65.1	53.4	80.2

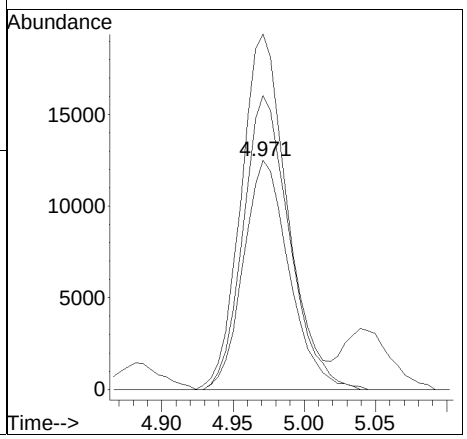


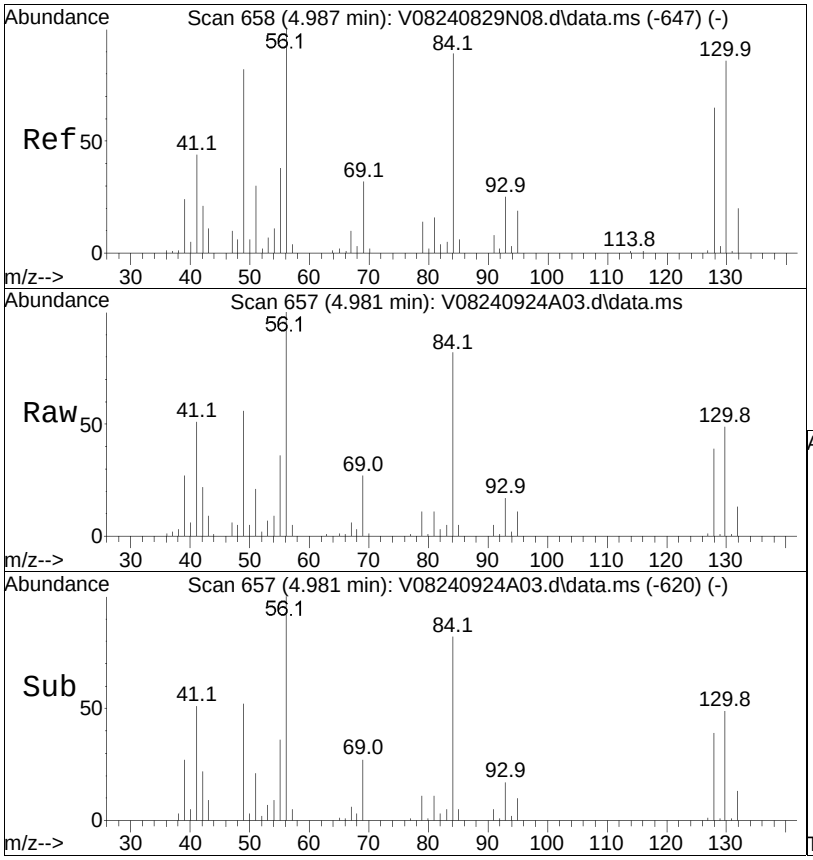


#30
Bromochloromethane
Concen: 9.34 ug/L
RT: 4.971 min Scan# 655
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:128 Resp: 27958

Ion	Ratio	Lower	Upper
128	100		
49	157.5	223.0	334.4#
130	129.7	111.4	167.0

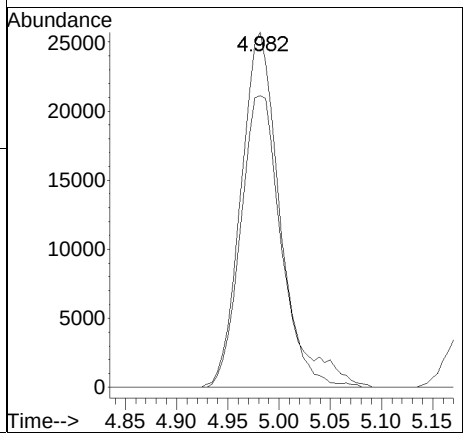


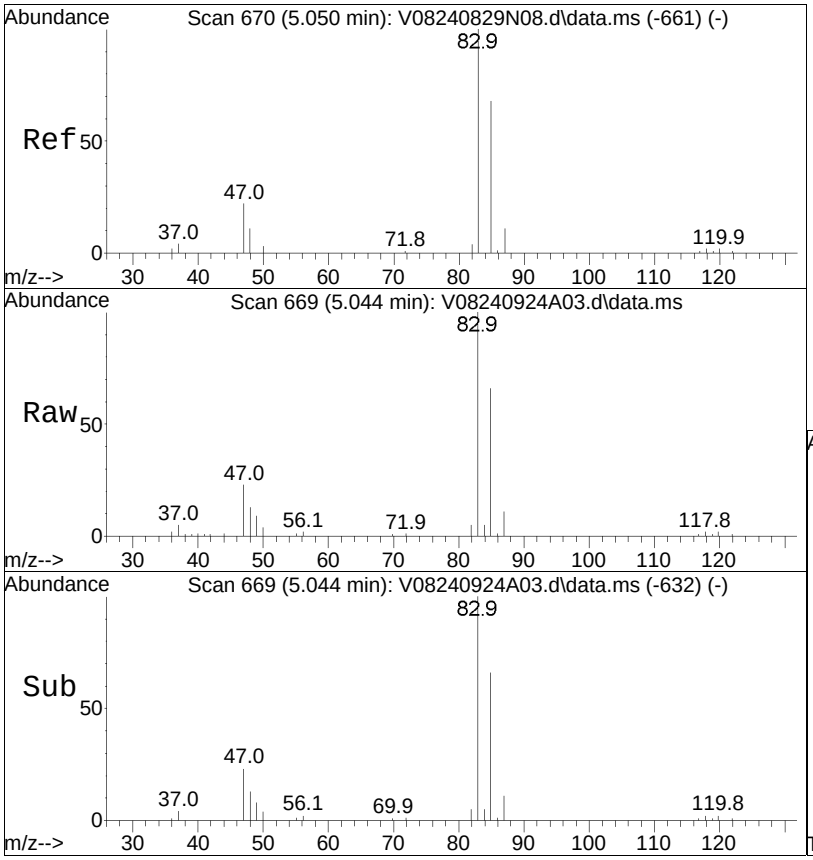


#31
Cyclohexane
Concen: 16.54 ug/L
RT: 4.981 min Scan# 657
Delta R.T. -0.006 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 56 Resp: 66857

Ion	Ratio	Lower	Upper
56	100		
84	91.0	38.4	79.8#

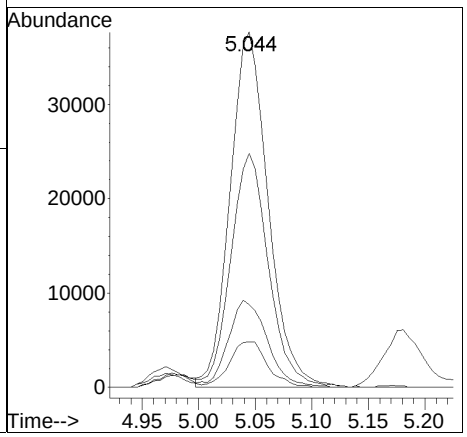


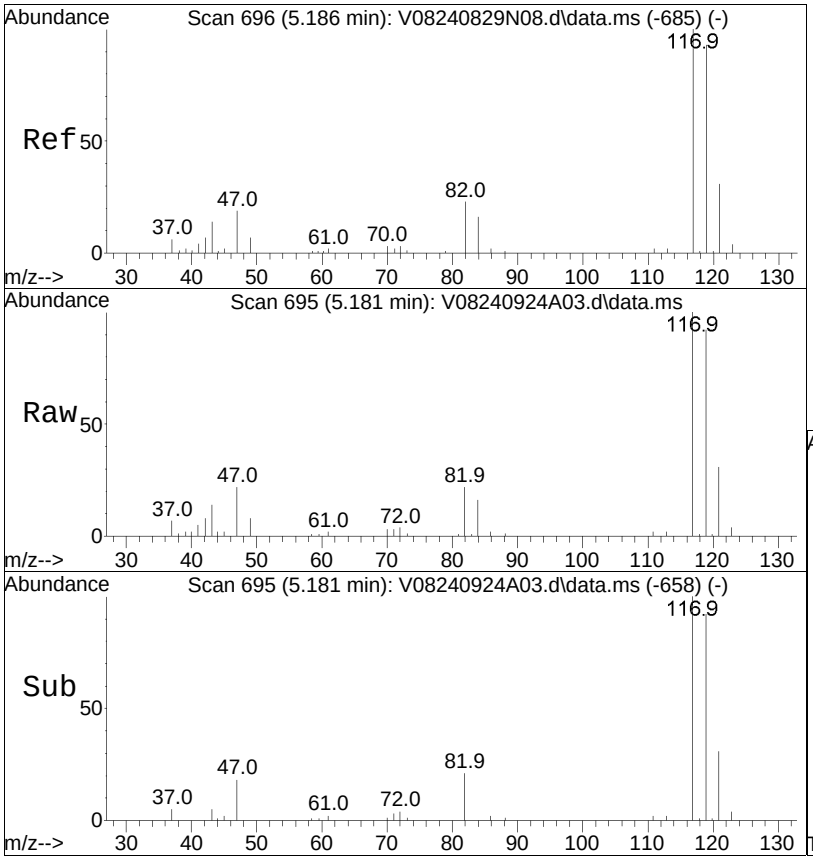


#32
Chloroform
Concen: 10.51 ug/L
RT: 5.044 min Scan# 669
Delta R.T. -0.006 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 83 Resp: 88645

Ion	Ratio	Lower	Upper
83	100		
85	65.5	41.5	86.1
47	24.8	19.0	39.4
48	12.9	9.9	20.5

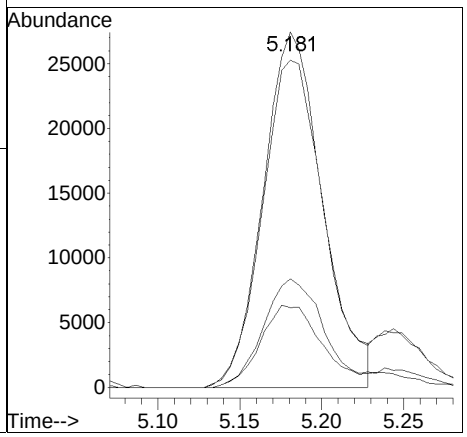


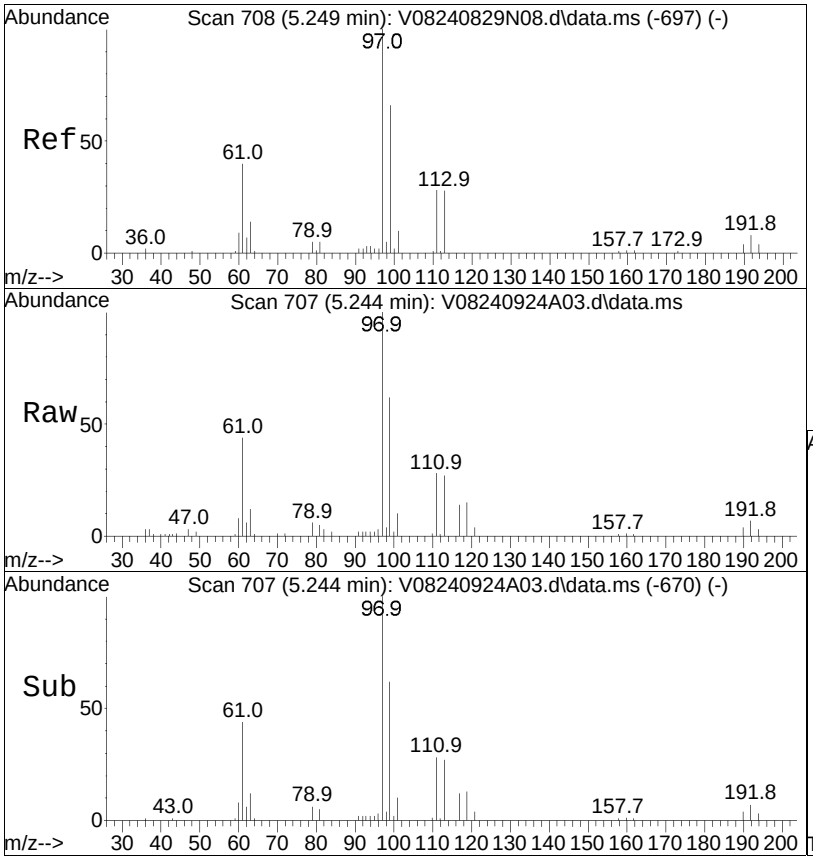


#34
Carbon tetrachloride
Concen: 10.51 ug/L
RT: 5.181 min Scan# 695
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:117 Resp: 69153

Ion	Ratio	Lower	Upper
117	100		
119	95.8	62.4	129.6
121	31.8	19.5	40.5
82	24.5	17.0	35.4

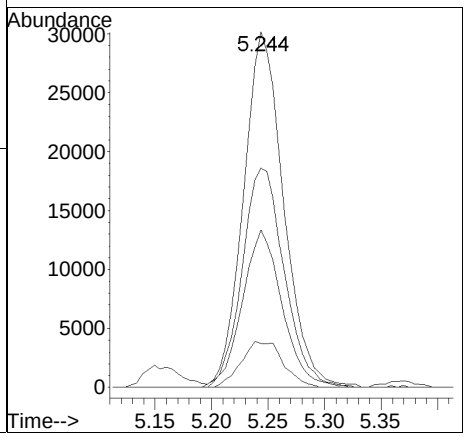


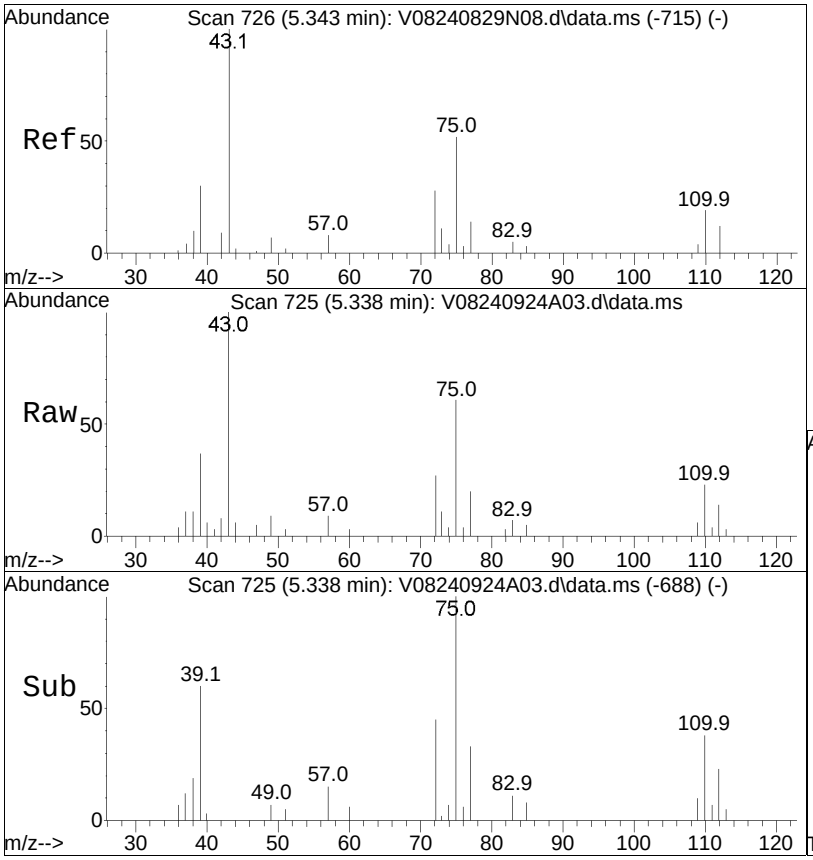


#37
1,1,1-Trichloroethane
Concen: 10.63 ug/L
RT: 5.244 min Scan# 707
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 97 Resp: 74752

Ion	Ratio	Lower	Upper
97	100		
99	64.5	40.7	84.5
61	43.9	35.4	73.4
63	13.5	5.0	10.4#

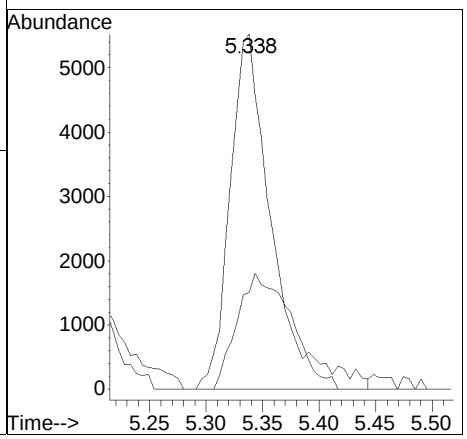


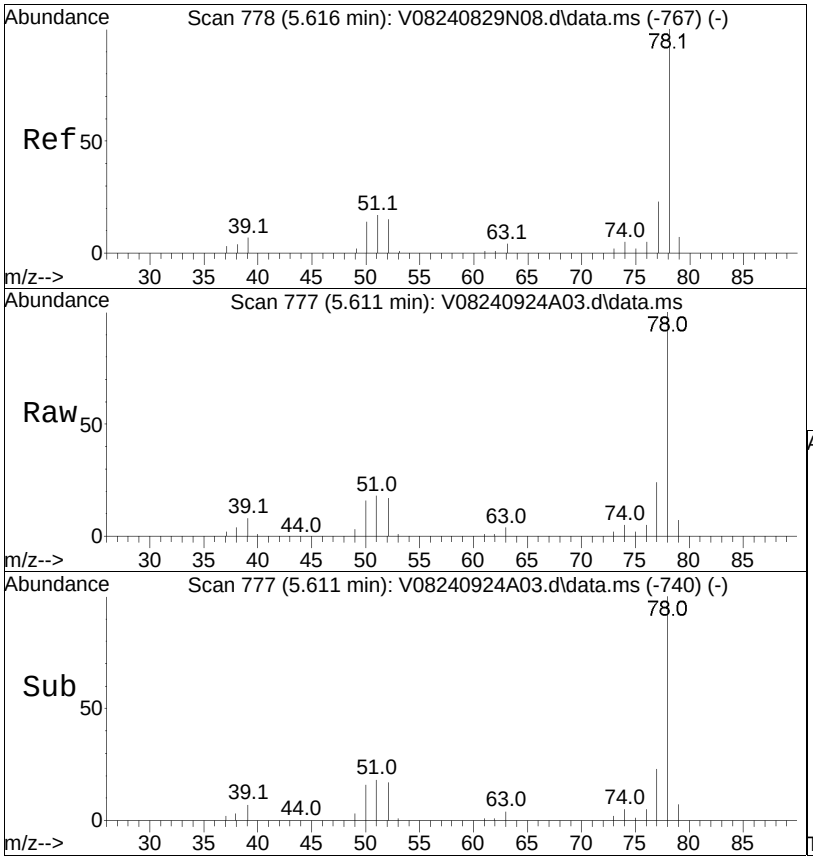


#39
2-Butanone
Concen: 11.26 ug/L
RT: 5.338 min Scan# 725
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 43 Resp: 14373

Ion	Ratio	Lower	Upper
43	100		
72	41.7	10.9	16.3#

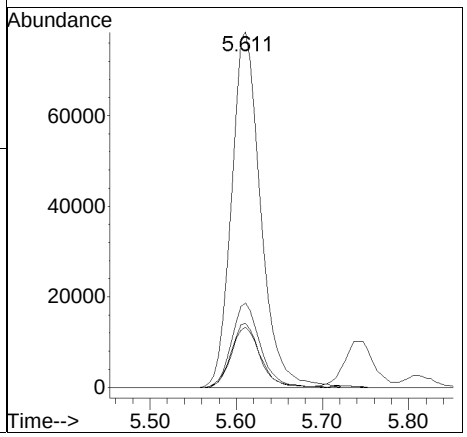


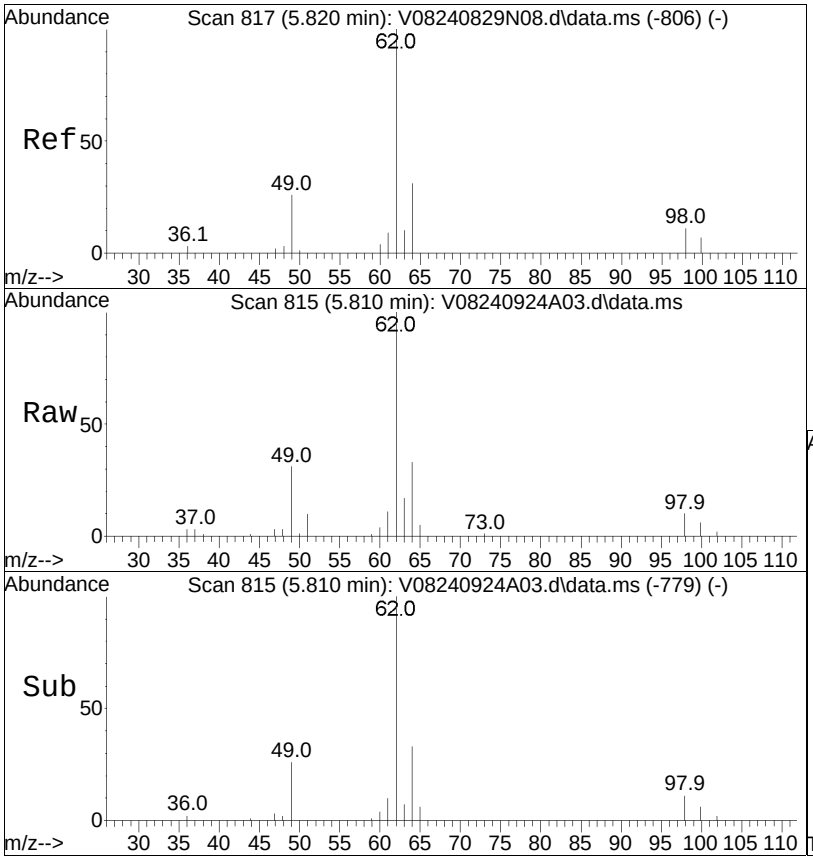


#41
Benzene
Concen: 10.44 ug/L
RT: 5.611 min Scan# 777
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 78 Resp: 184662

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.7	32.7
51	17.8	16.0	33.2
52	16.9	15.3	31.9

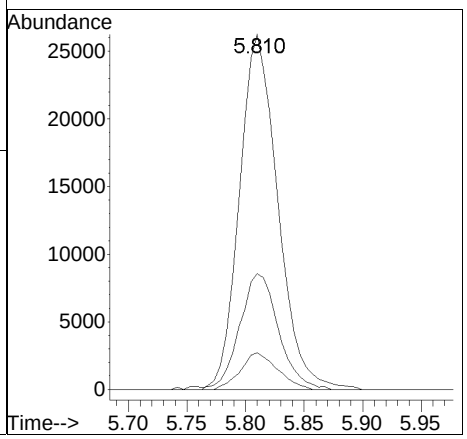


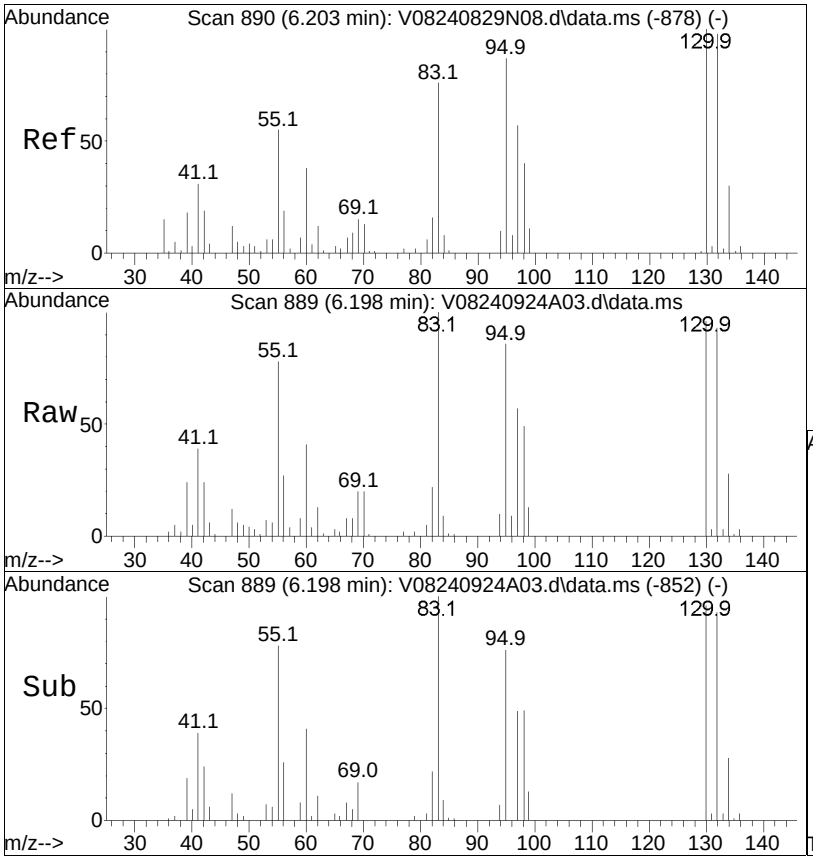


#44
1,2-Dichloroethane
Concen: 10.44 ug/L
RT: 5.810 min Scan# 815
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 62 Resp: 59840

Ion	Ratio	Lower	Upper
62	100		
64	33.3	11.2	51.2
98	10.0	0.0	26.1

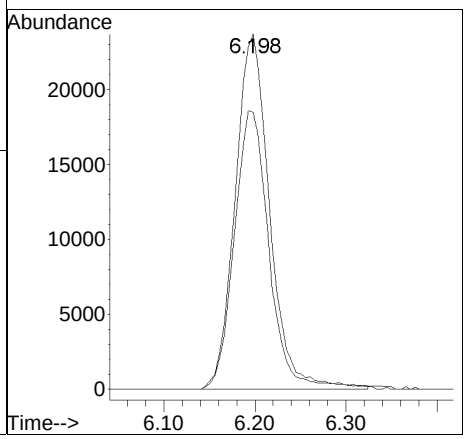


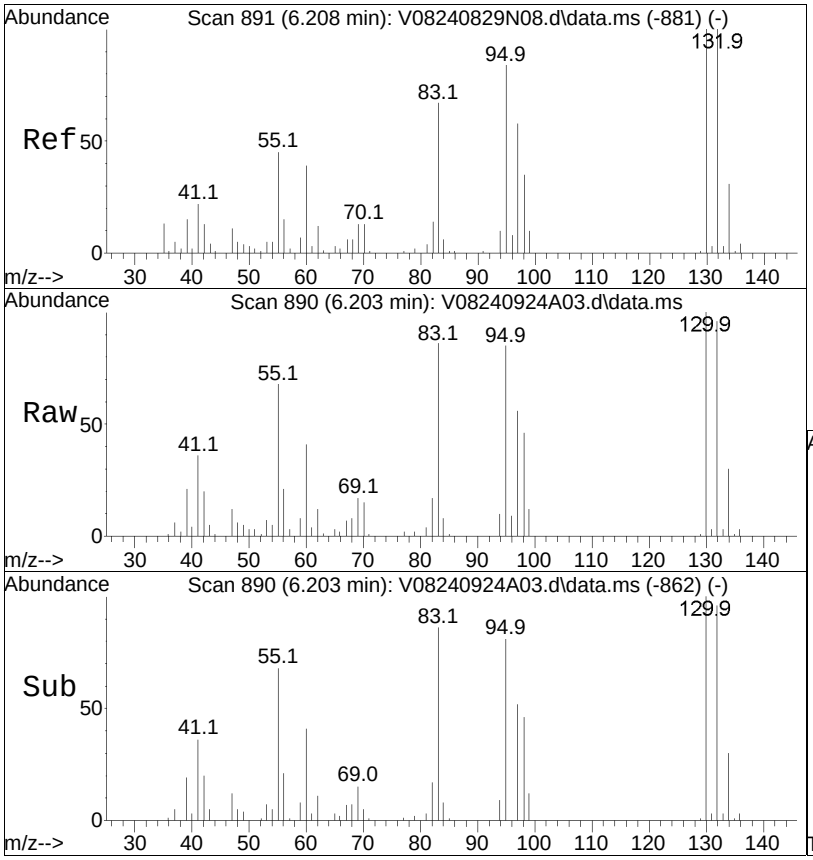


#47
Methyl cyclohexane
Concen: 16.27 ug/L
RT: 6.198 min Scan# 889
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 83 Resp: 62682

Ion	Ratio	Lower	Upper
83	100		
55	79.1	88.3	132.5#

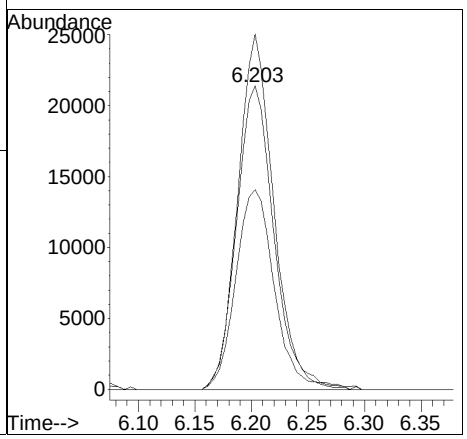


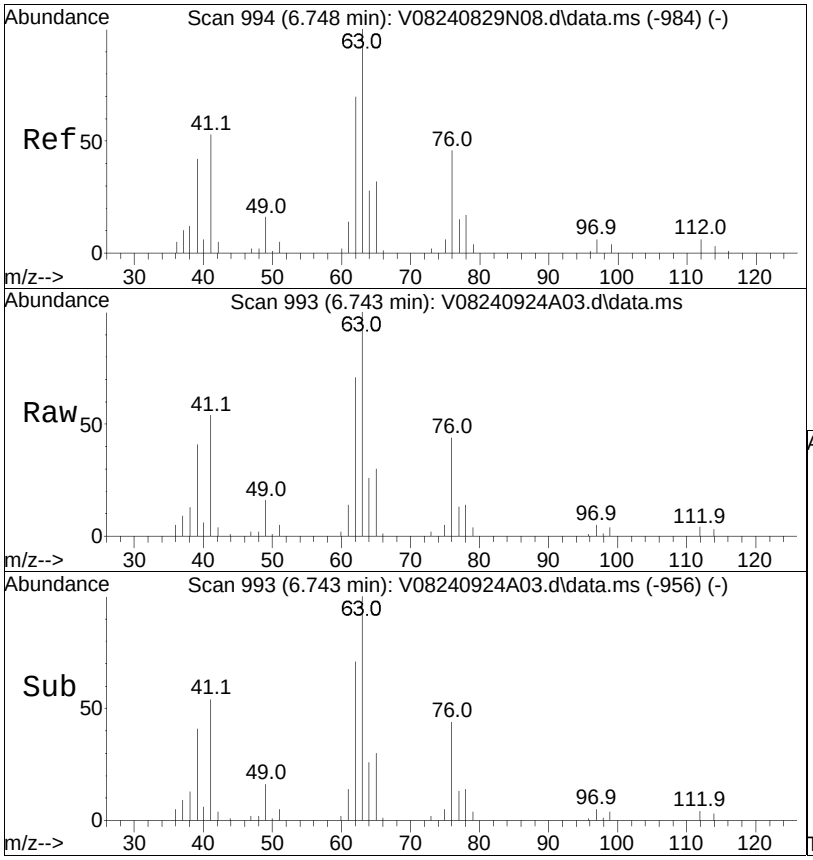


#48
Trichloroethene
Concen: 10.13 ug/L
RT: 6.203 min Scan# 890
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 95 Resp: 49192

Ion	Ratio	Lower	Upper
95	100		
97	67.9	55.5	83.3
130	113.1	76.6	115.0

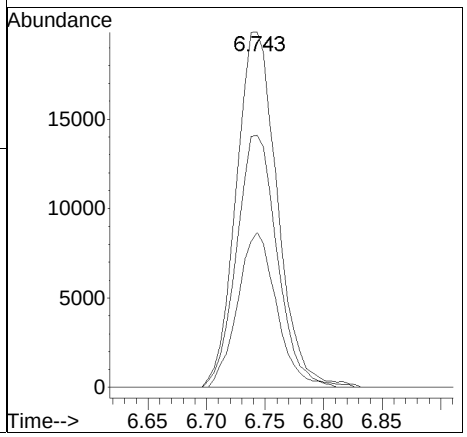


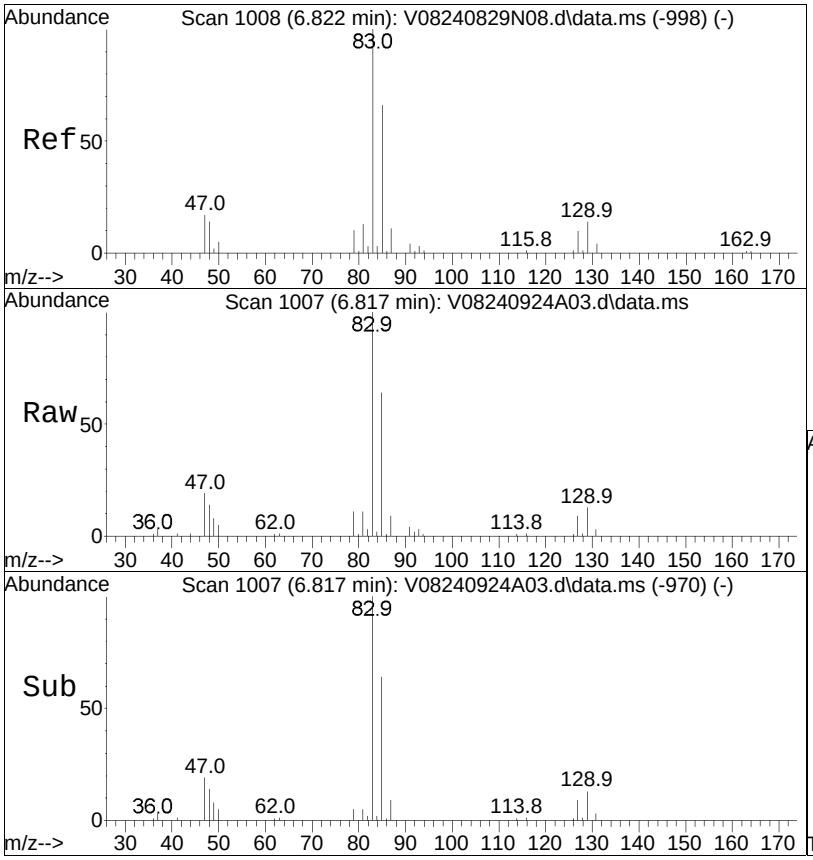


#51
1,2-Dichloropropane
Concen: 11.03 ug/L
RT: 6.743 min Scan# 993
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 63 Resp: 48673

Ion	Ratio	Lower	Upper
63	100		
62	70.3	58.6	87.8
76	41.4	38.0	57.0

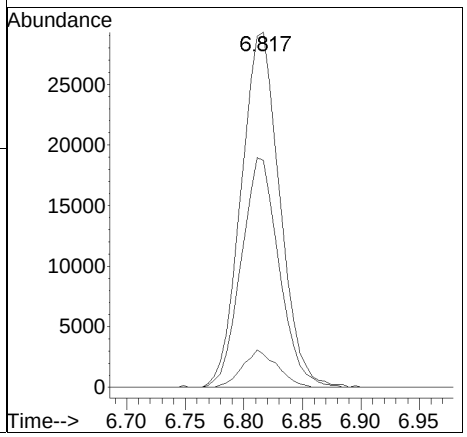


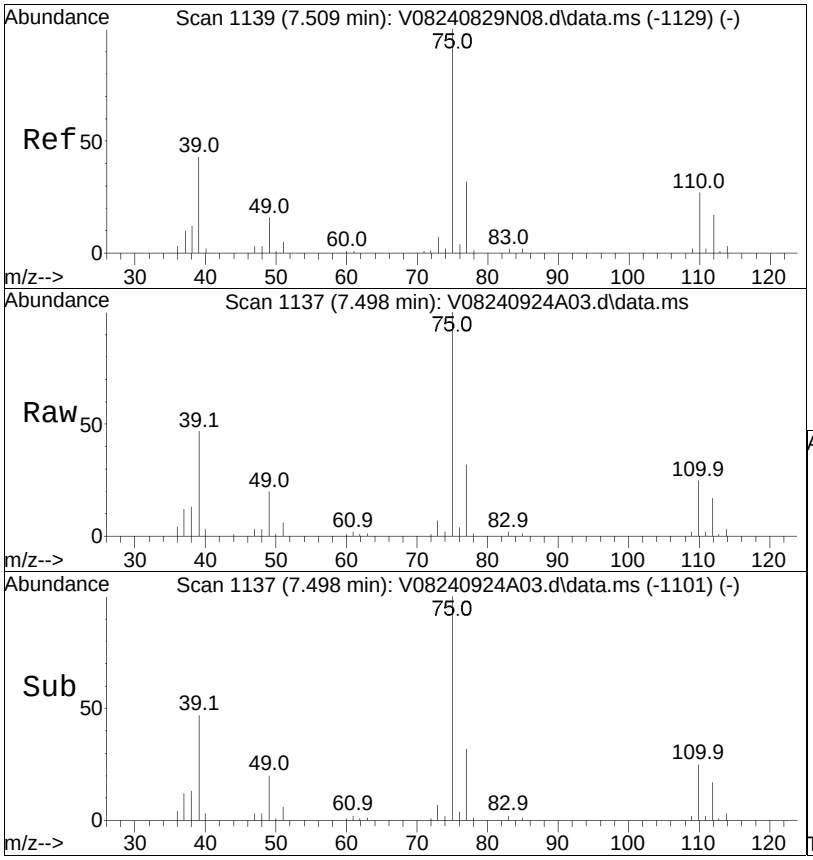


#54
Bromodichloromethane
Concen: 10.22 ug/L
RT: 6.817 min Scan# 1007
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 83 Resp: 67546

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.3	78.5
127	9.6	6.2	9.4#

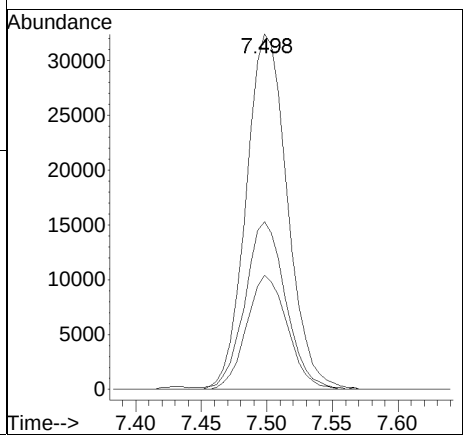


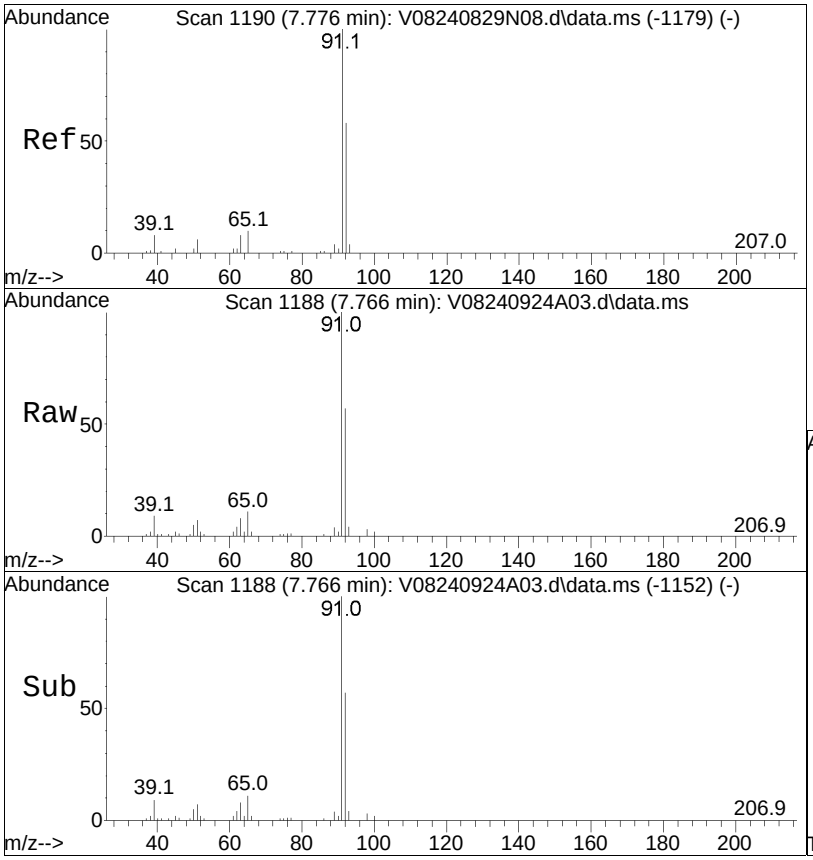


#58
cis-1,3-Dichloropropene
Concen: 10.13 ug/L
RT: 7.498 min Scan# 1137
Delta R.T. -0.011 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 75 Resp: 70969

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	46.7	50.1	75.1#

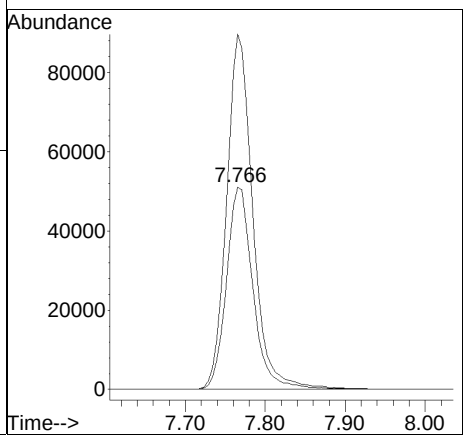


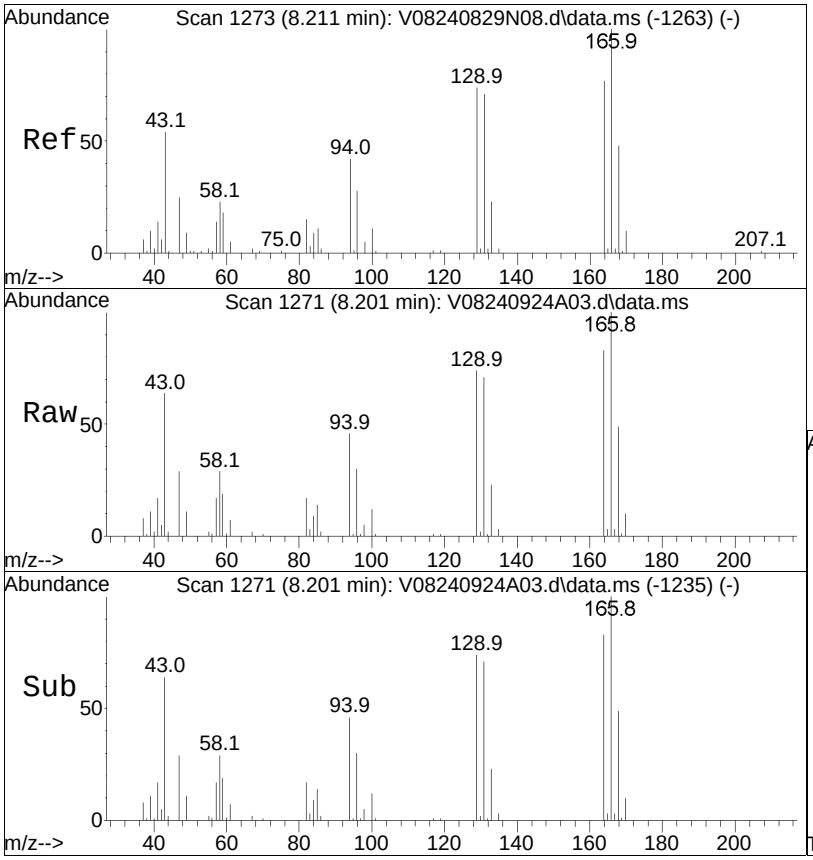


#61
Toluene
Concen: 10.82 ug/L
RT: 7.766 min Scan# 1188
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 92 Resp: 118127

Ion	Ratio	Lower	Upper
92	100		
91	172.8	139.8	209.6

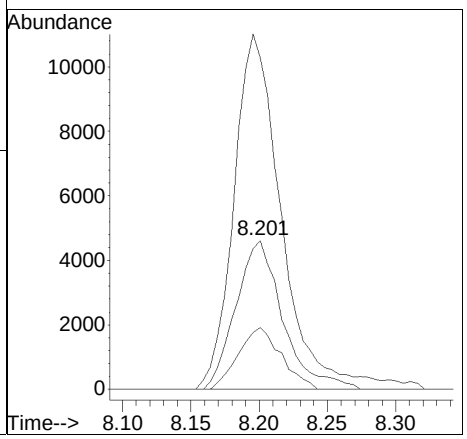


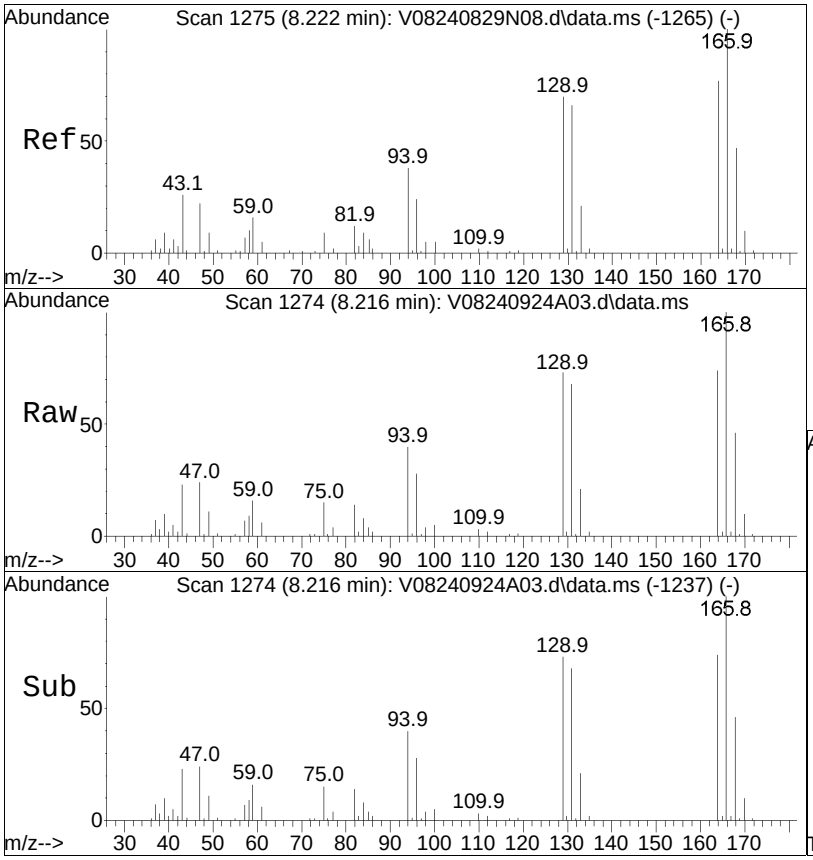


#62
4-Methyl-2-pentanone
Concen: 9.91 ug/L
RT: 8.201 min Scan# 1271
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 58 Resp: 11051

Ion	Ratio	Lower	Upper
58	100		
100	38.0	20.2	30.2#
43	243.4	196.6	295.0

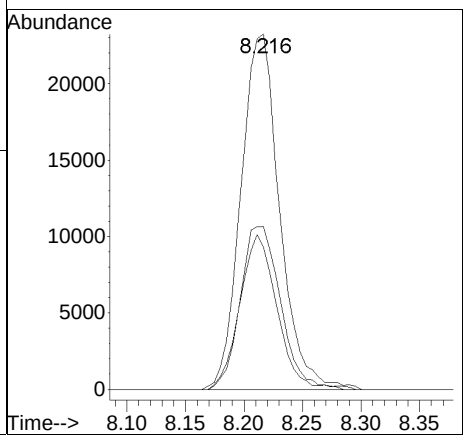


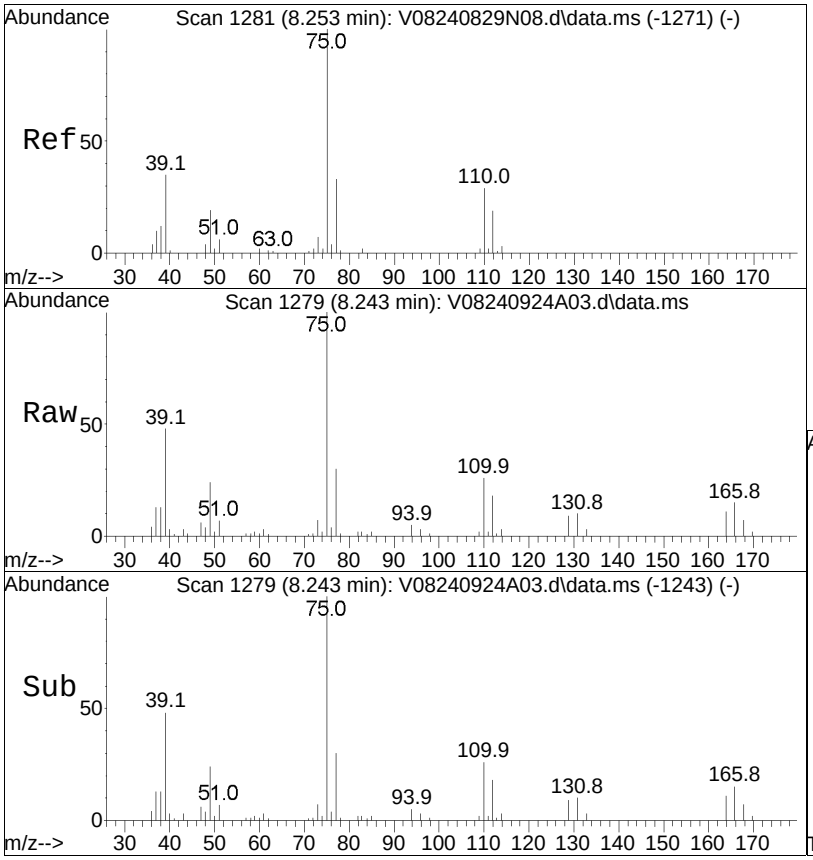


#63
Tetrachloroethene
Concen: 10.48 ug/L
RT: 8.216 min Scan# 1274
Delta R.T. -0.006 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:166 Resp: 53641

Ion	Ratio	Lower	Upper
166	100		
168	47.6	28.2	68.2
94	41.5	38.4	78.4

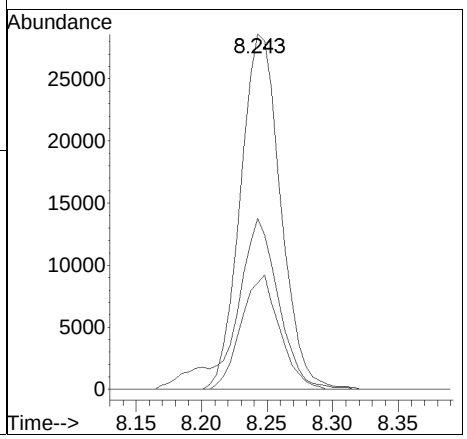


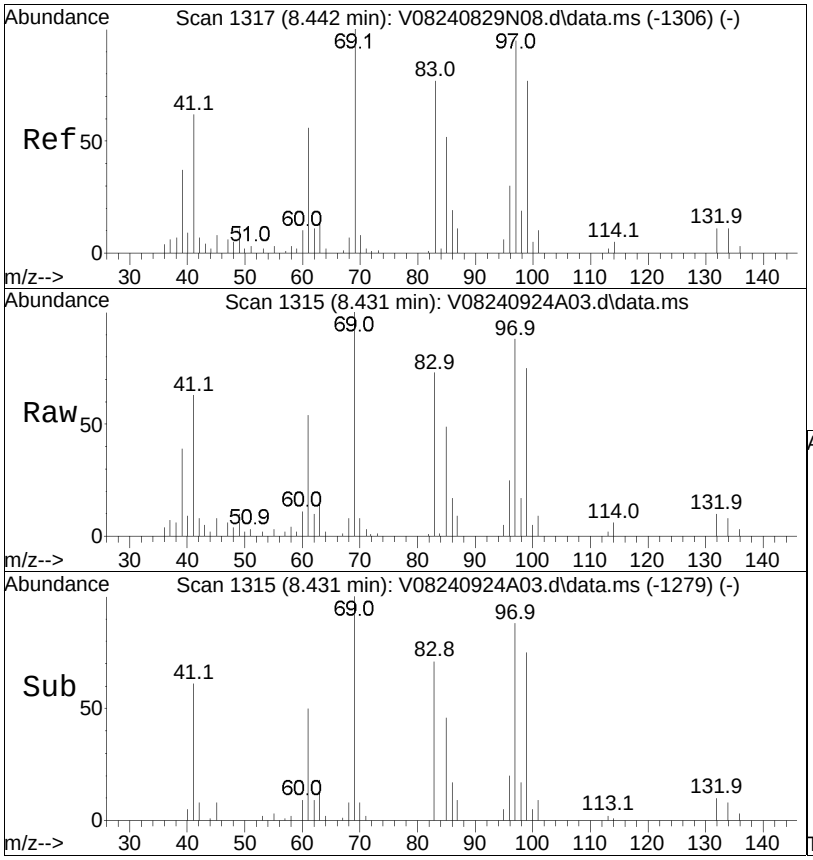


#65
trans-1,3-Dichloropropene
Concen: 10.58 ug/L
RT: 8.243 min Scan# 1279
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 75 Resp: 61037

Ion	Ratio	Lower	Upper
75	100		
77	30.9	12.4	52.4
39	51.6	42.8	82.8

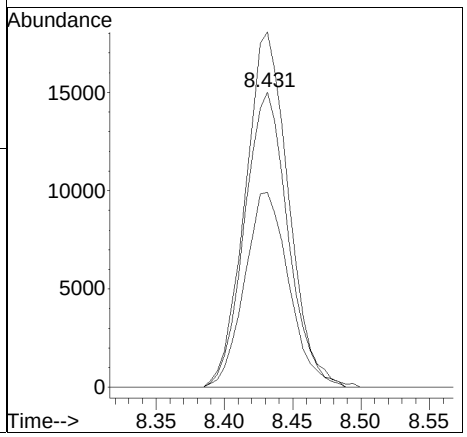


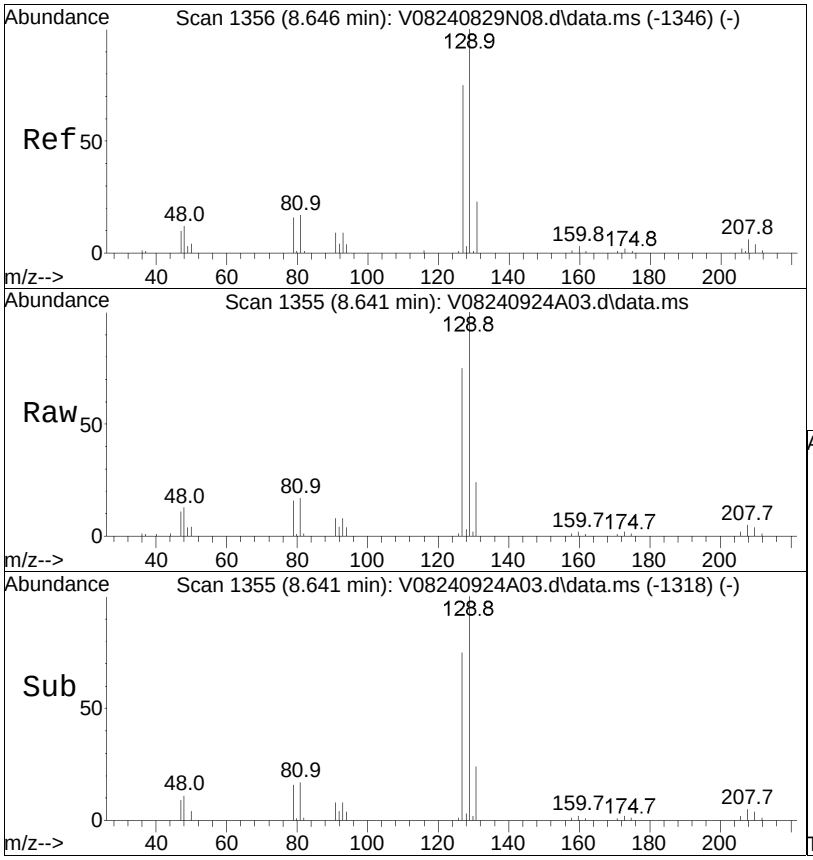


#68
1,1,2-Trichloroethane
Concen: 10.72 ug/L
RT: 8.431 min Scan# 1315
Delta R.T. -0.011 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 83 Resp: 33374

Ion	Ratio	Lower	Upper
83	100		
97	119.6	89.8	129.8
85	67.1	44.4	84.4

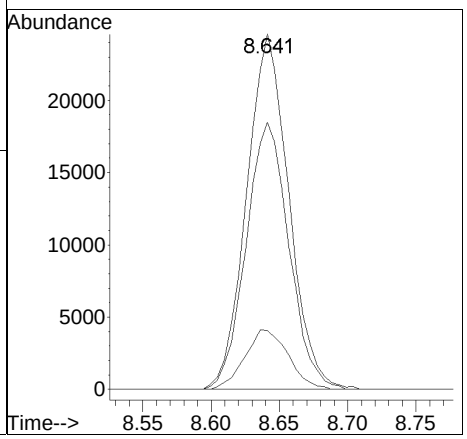


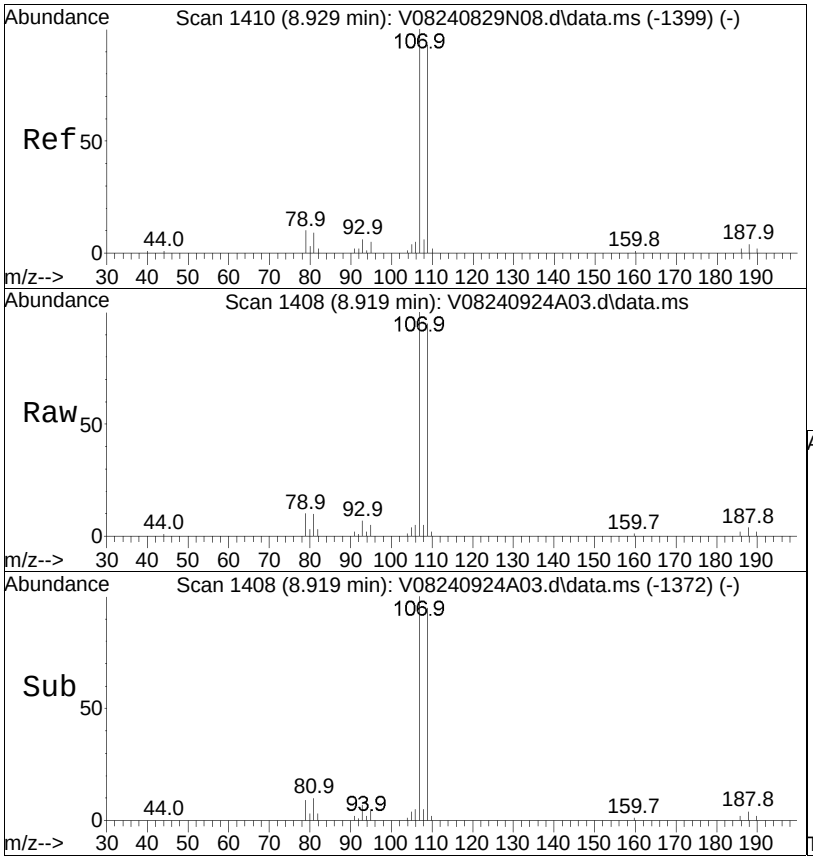


#69
Chlorodibromomethane
Concen: 9.56 ug/L
RT: 8.641 min Scan# 1355
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:129 Resp: 52769

Ion	Ratio	Lower	Upper
129	100		
81	17.3	2.9	42.9
127	76.4	57.8	97.8

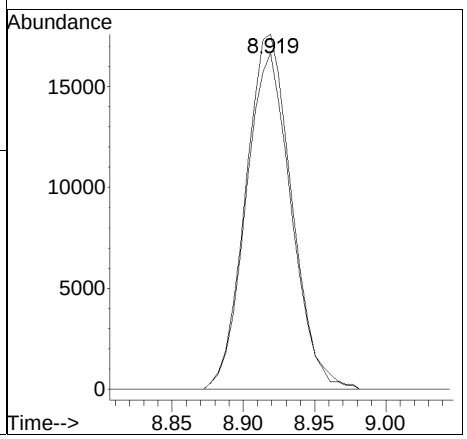


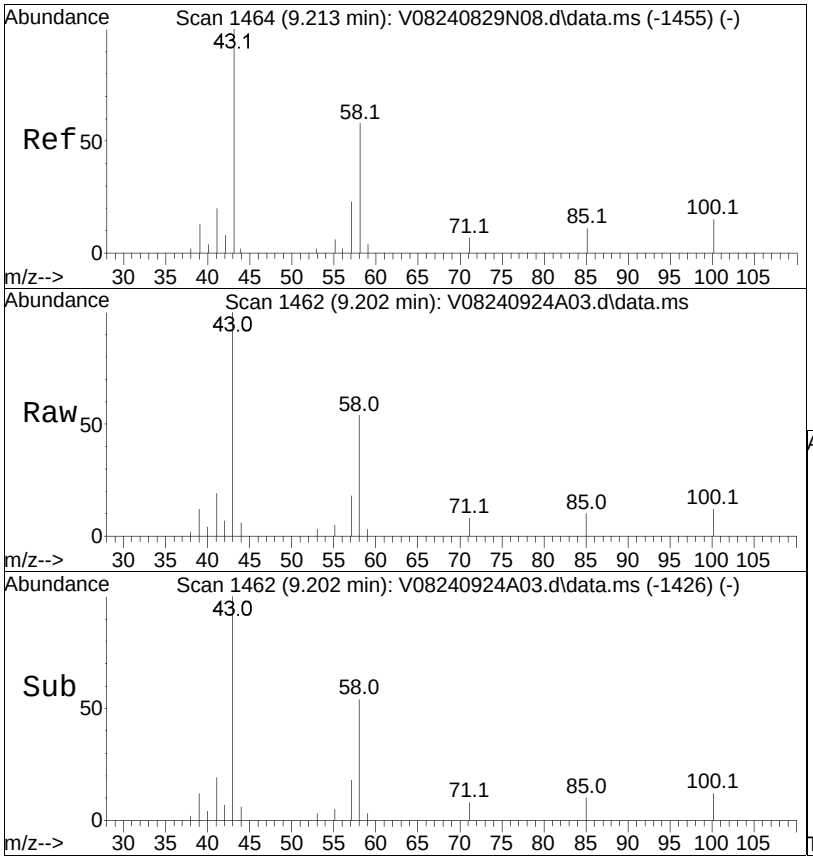


#71
1,2-Dibromoethane
Concen: 10.45 ug/L
RT: 8.919 min Scan# 1408
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:107 Resp: 39655

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.3	111.5

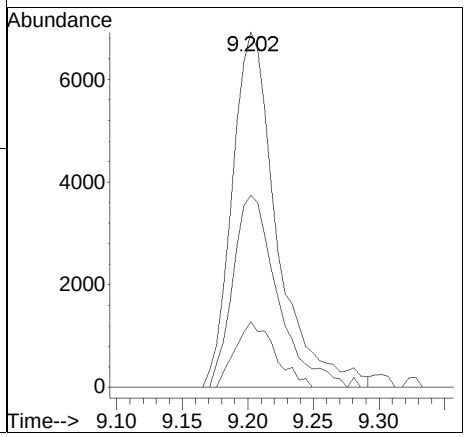


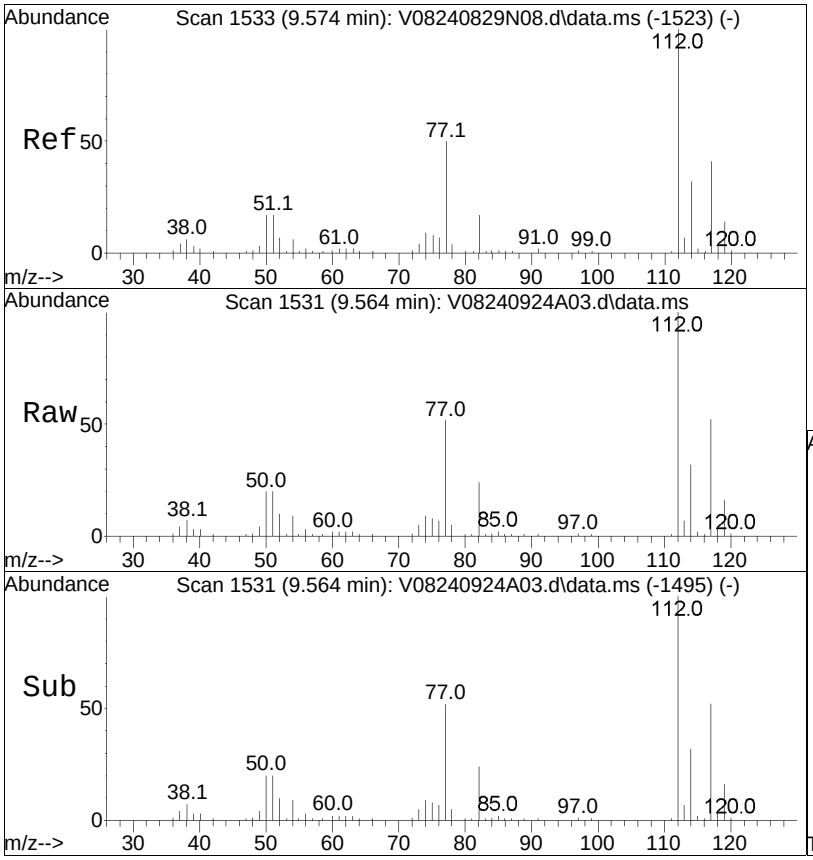


#72
2-Hexanone
Concen: 9.86 ug/L
RT: 9.202 min Scan# 1462
Delta R.T. -0.011 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 43 Resp: 16486

Ion	Ratio	Lower	Upper
43	100		
58	53.9	41.2	61.8
57	16.5	17.2	25.8#

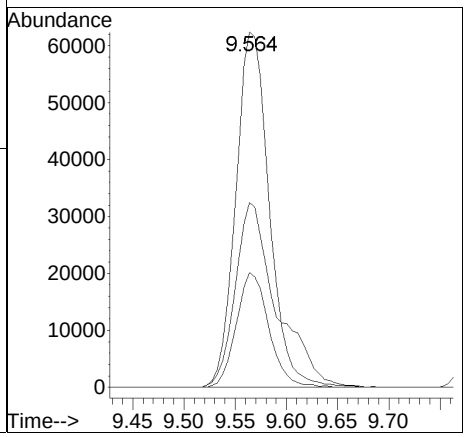


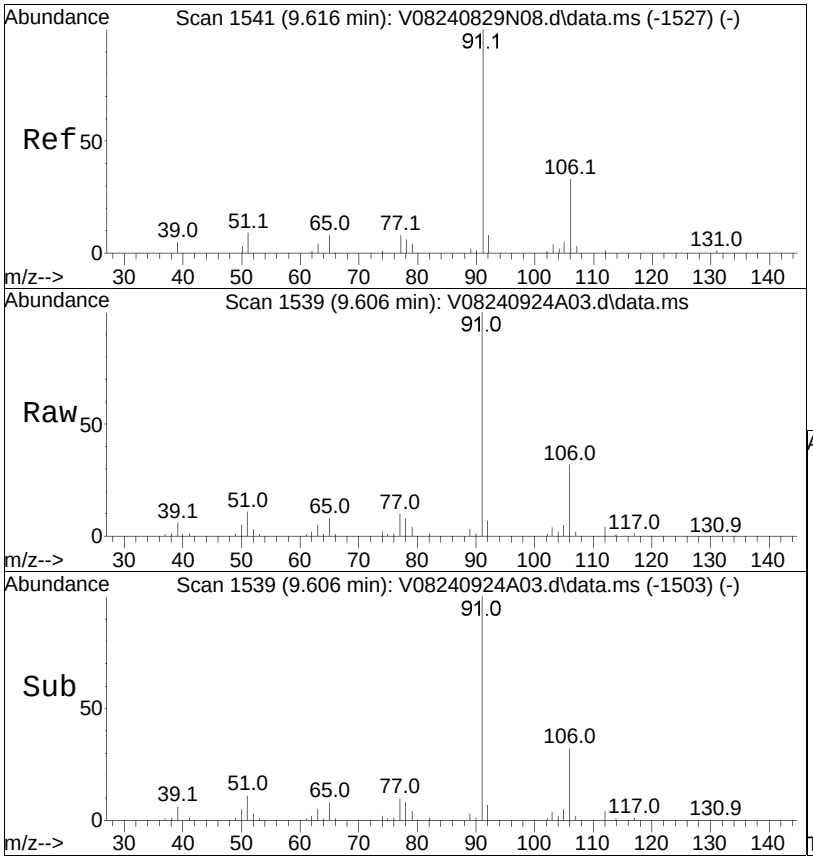


#73
Chlorobenzene
Concen: 10.47 ug/L
RT: 9.564 min Scan# 1531
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:112 Resp: 141752

Ion	Ratio	Lower	Upper
112	100		
77	64.5	55.4	83.0
114	31.6	25.4	38.2

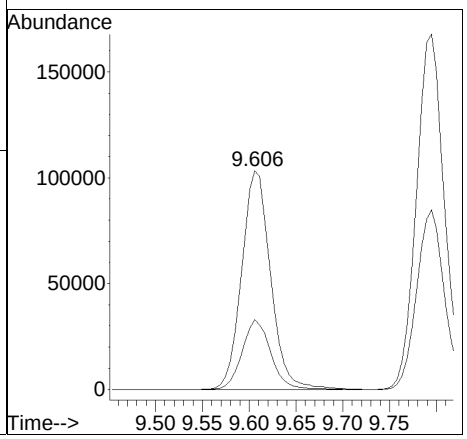


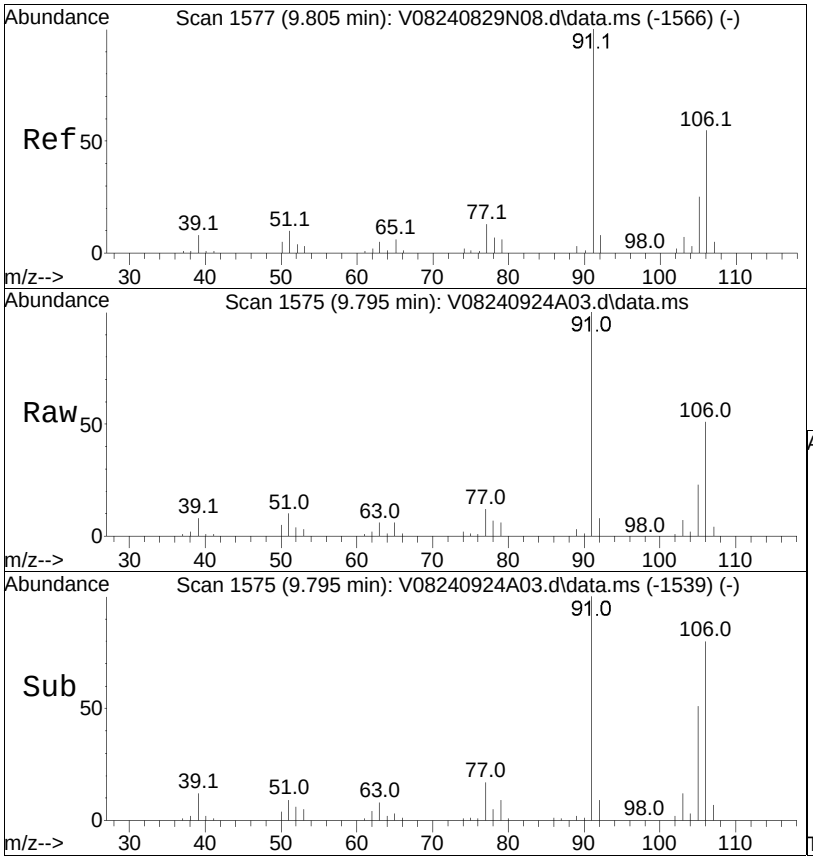


#74
Ethylbenzene
Concen: 11.16 ug/L
RT: 9.606 min Scan# 1539
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 91 Resp: 221881

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.3	36.5

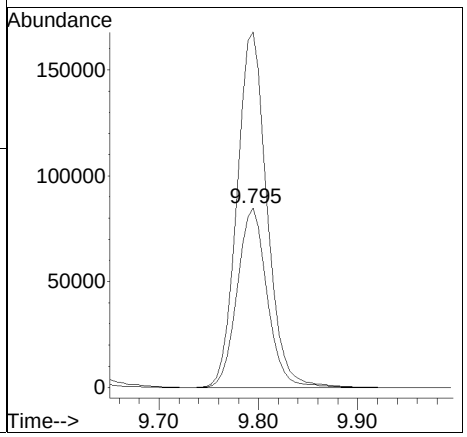


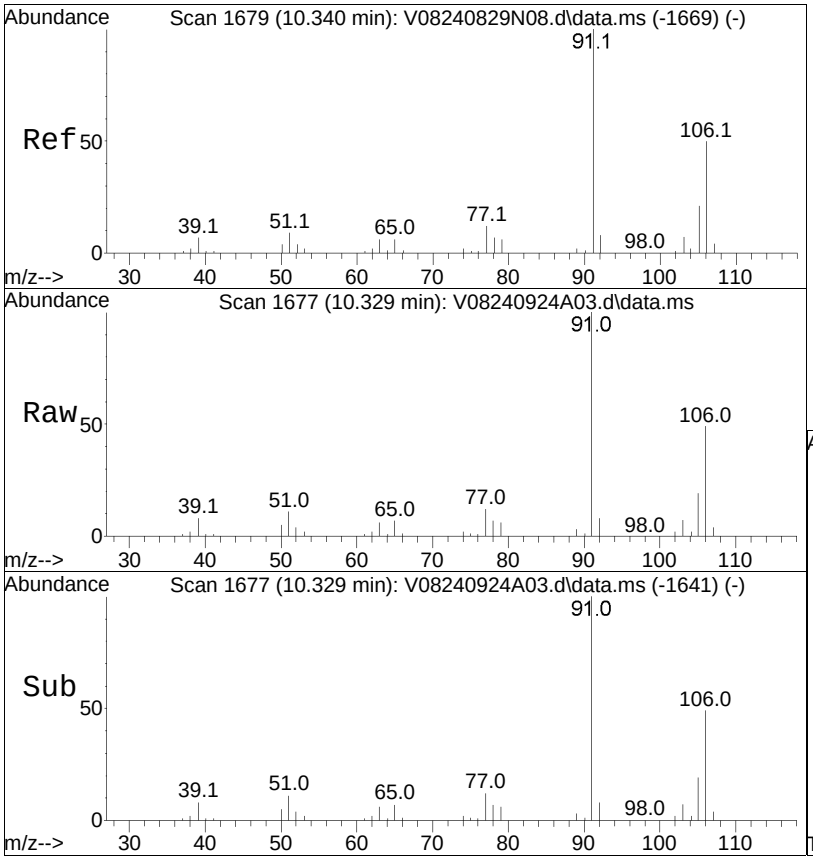


#76
p/m Xylene
Concen: 21.21 ug/L
RT: 9.795 min Scan# 1575
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:106 Resp: 177298

Ion	Ratio	Lower	Upper
106	100		
91	198.7	166.4	249.6

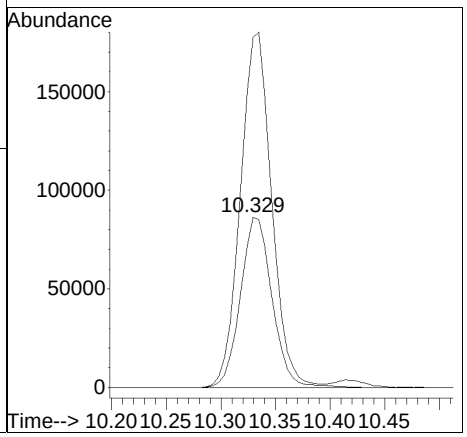


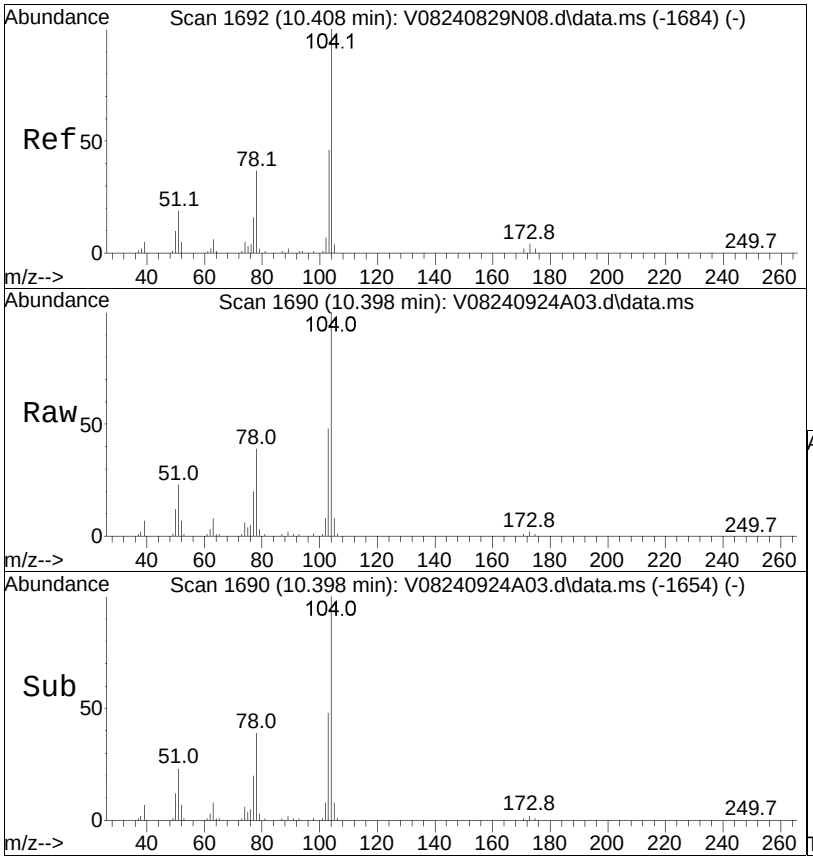


#77
o Xylene
Concen: 20.91 ug/L
RT: 10.329 min Scan# 1677
Delta R.T. -0.011 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:106 Resp: 173099

Ion	Ratio	Lower	Upper
106	100		
91	206.5	182.6	273.8

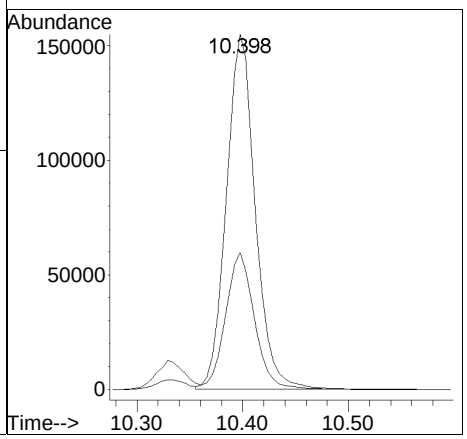


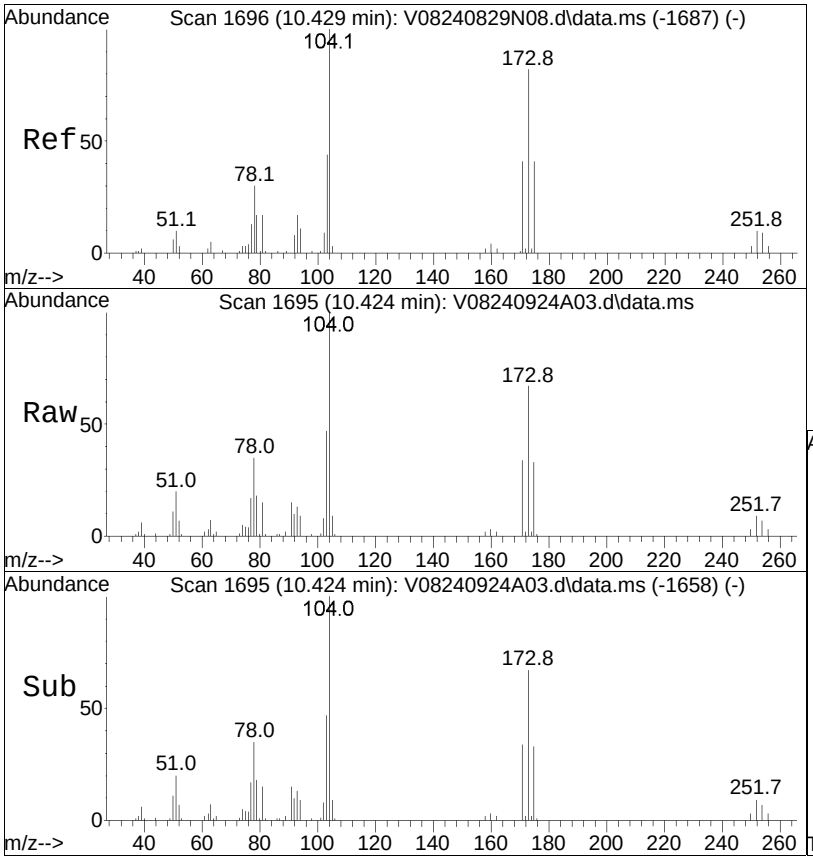


#78
Styrene
Concen: 19.63 ug/L
RT: 10.398 min Scan# 1690
Delta R.T. -0.010 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:104 Resp: 293882

Ion	Ratio	Lower	Upper
104	100		
78	38.4	39.8	59.6#

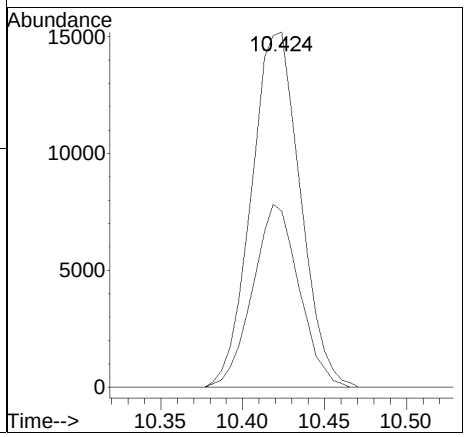


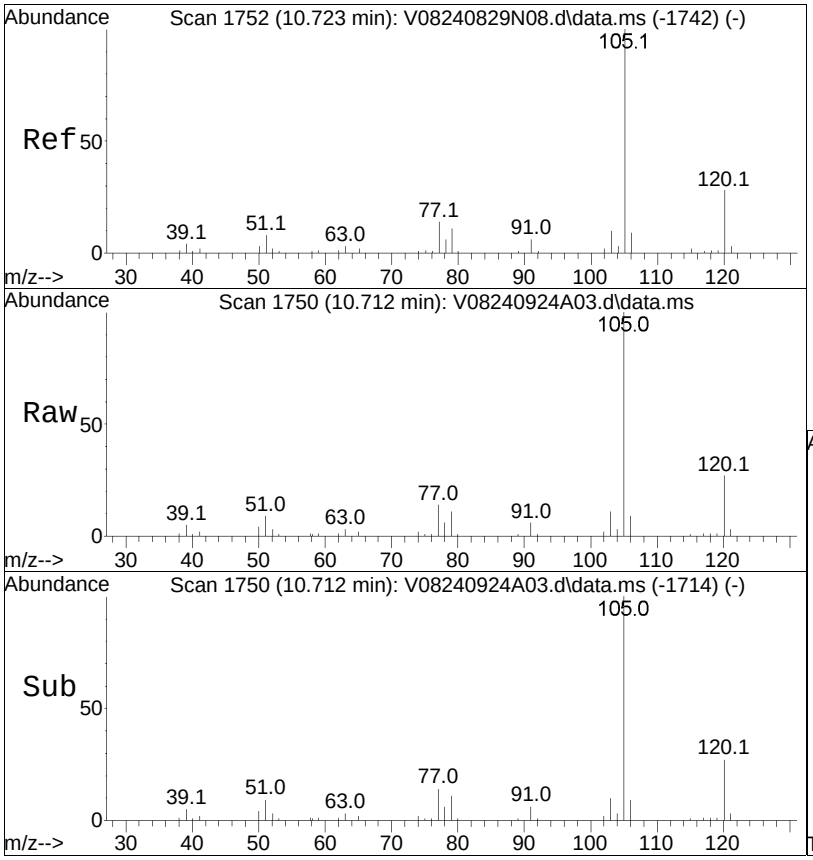


#80
Bromoform
Concen: 9.05 ug/L
RT: 10.424 min Scan# 1695
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:173 Resp: 31592

Ion	Ratio	Lower	Upper
173	100		
175	48.8	31.5	71.5

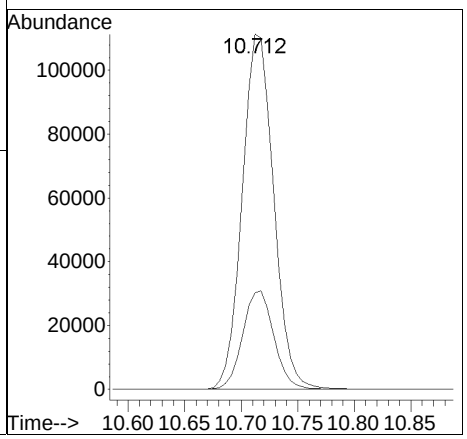


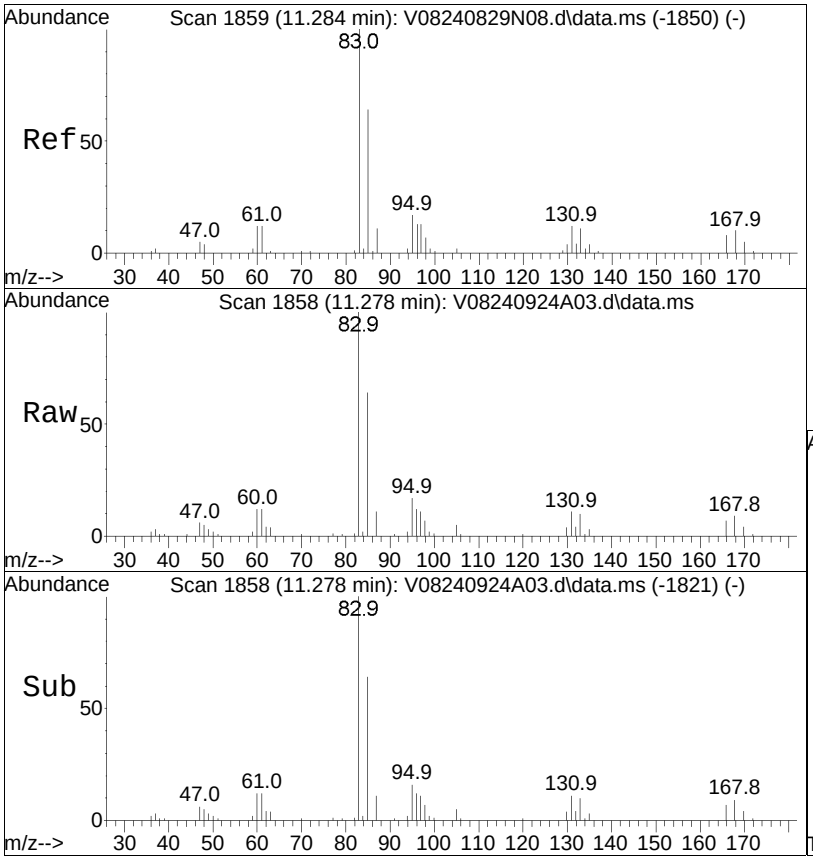


#82
Isopropylbenzene
Concen: 11.66 ug/L
RT: 10.712 min Scan# 1750
Delta R.T. -0.011 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:105 Resp: 215622

Ion	Ratio	Lower	Upper
105	100		
120	27.5	4.8	44.8

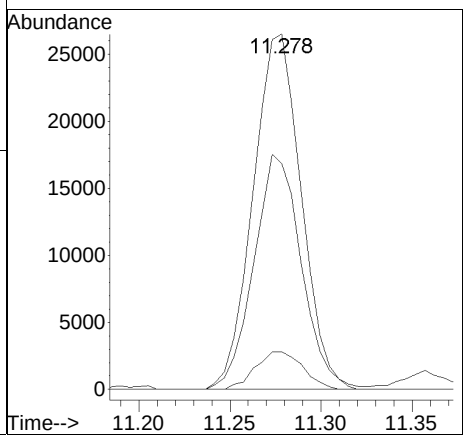


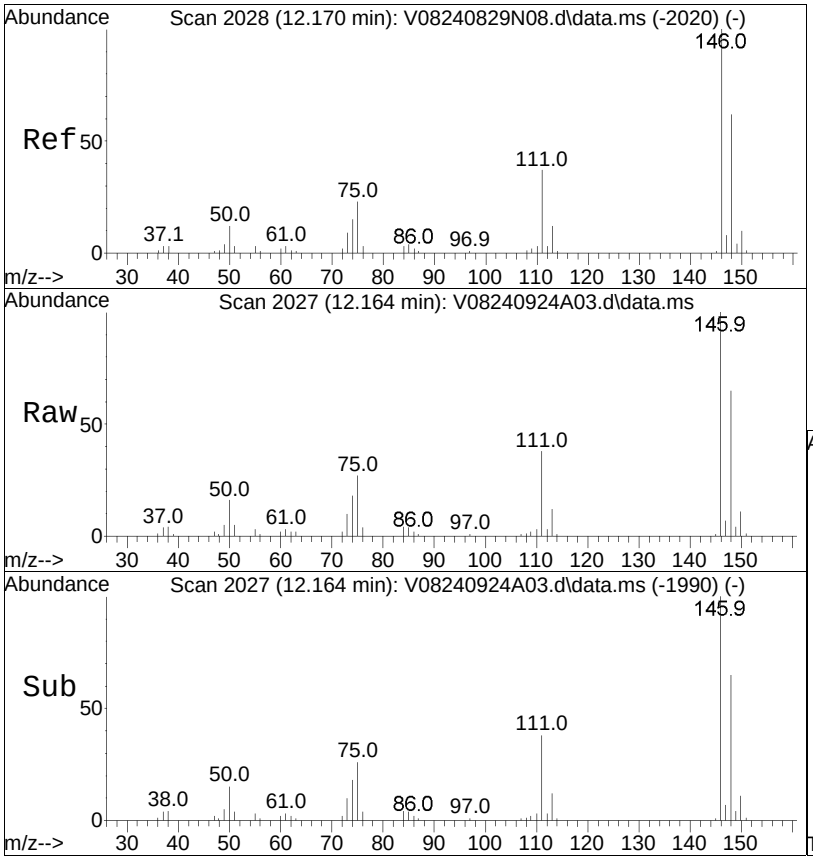


#87
1,1,2,2-Tetrachloroethane
Concen: 11.15 ug/L
RT: 11.278 min Scan# 1858
Delta R.T. -0.006 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion: 83 Resp: 48619

Ion	Ratio	Lower	Upper
83	100		
131	10.5	0.0	30.4
85	65.4	45.4	85.4

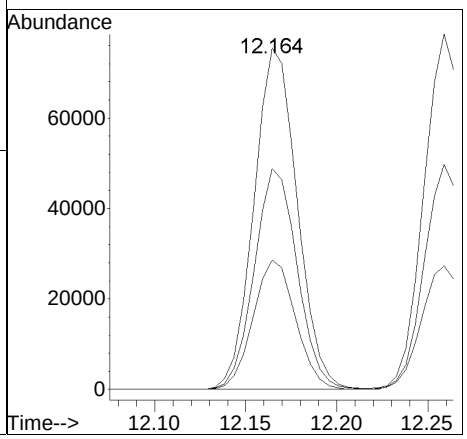


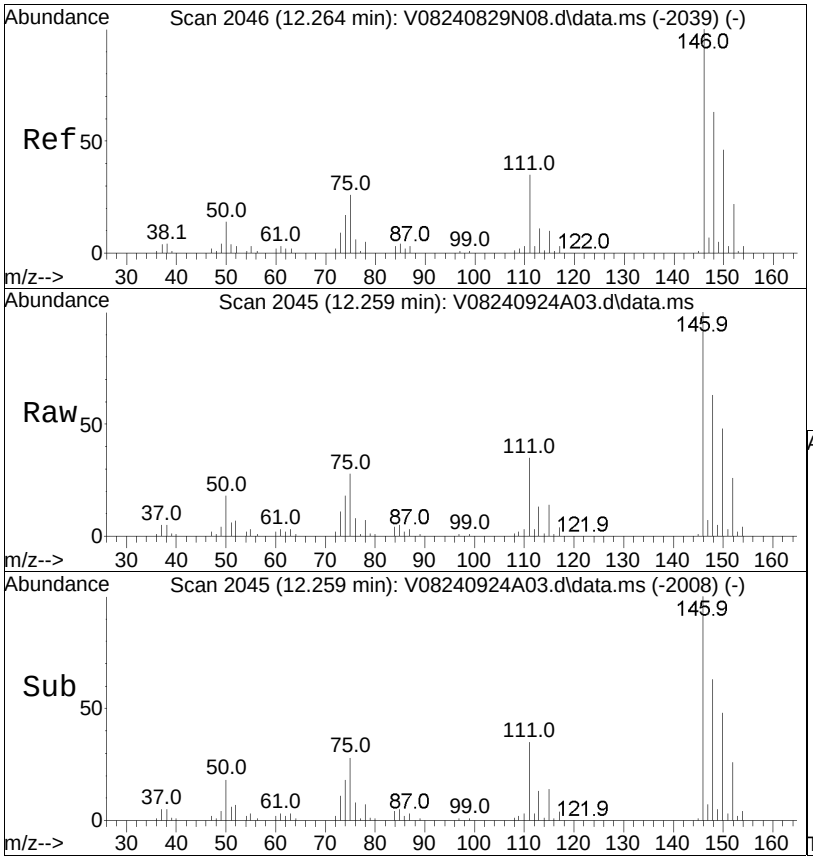


#100
1,3-Dichlorobenzene
Concen: 10.69 ug/L
RT: 12.164 min Scan# 2027
Delta R.T. -0.006 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:146 Resp: 124787

Ion	Ratio	Lower	Upper
146	100		
111	37.2	27.5	57.1
148	64.1	41.9	86.9

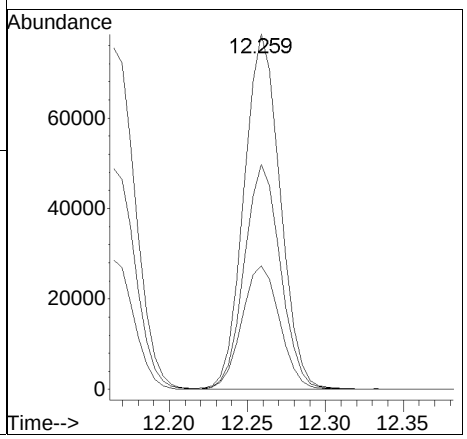


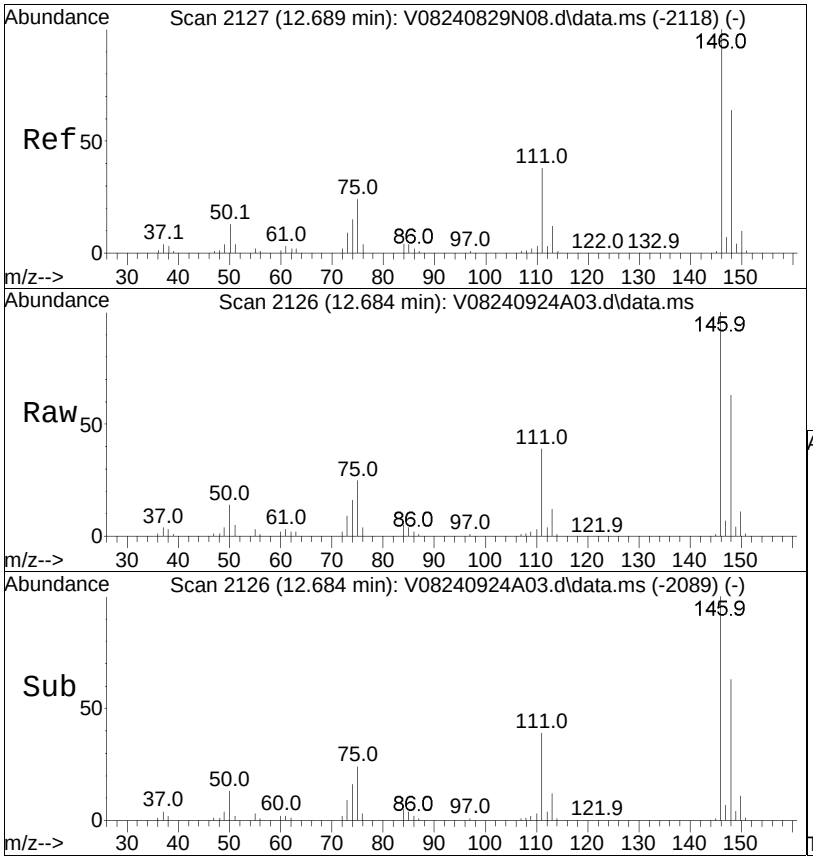


#101
1,4-Dichlorobenzene
Concen: 10.60 ug/L
RT: 12.259 min Scan# 2045
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:146 Resp: 127066

Ion	Ratio	Lower	Upper
146	100		
111	36.4	32.3	48.5
148	63.2	49.9	74.9

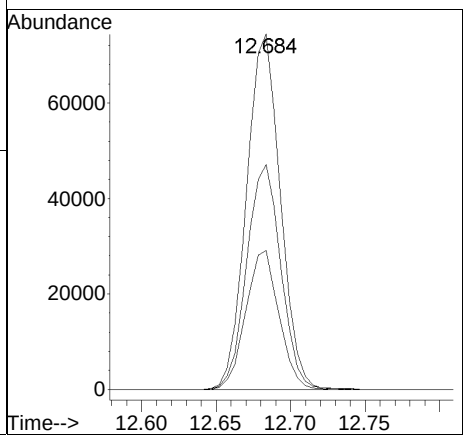


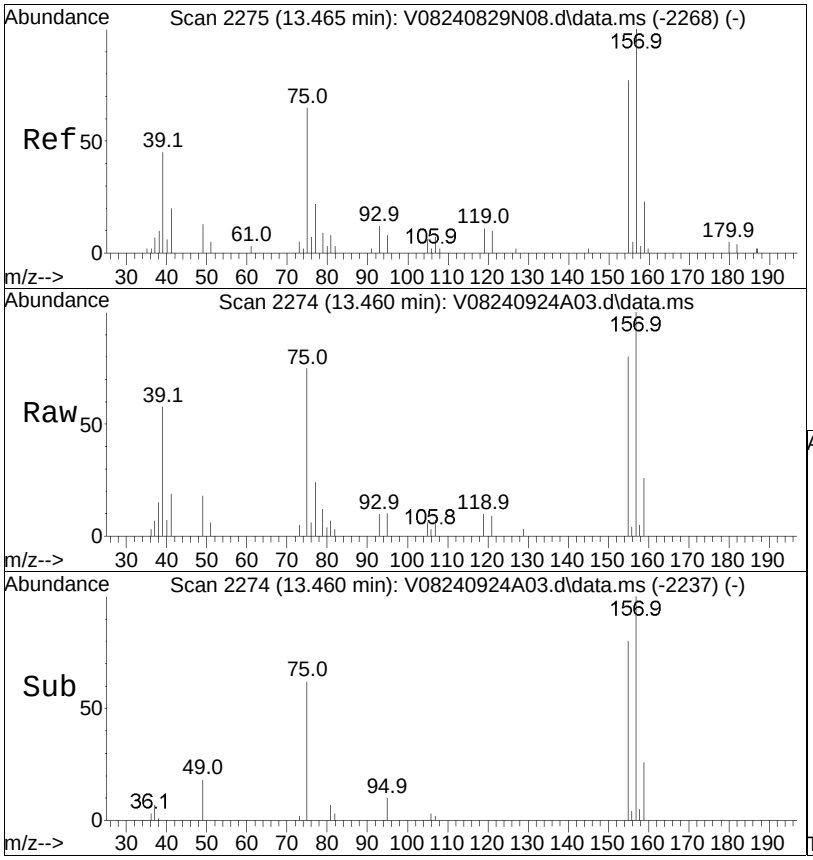


#104
1,2-Dichlorobenzene
Concen: 10.39 ug/L
RT: 12.684 min Scan# 2126
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:146 Resp: 117754

Ion	Ratio	Lower	Upper
146	100		
111	38.3	28.3	58.7
148	63.7	42.3	87.8

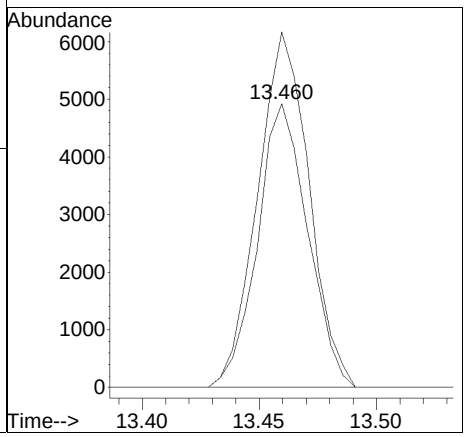


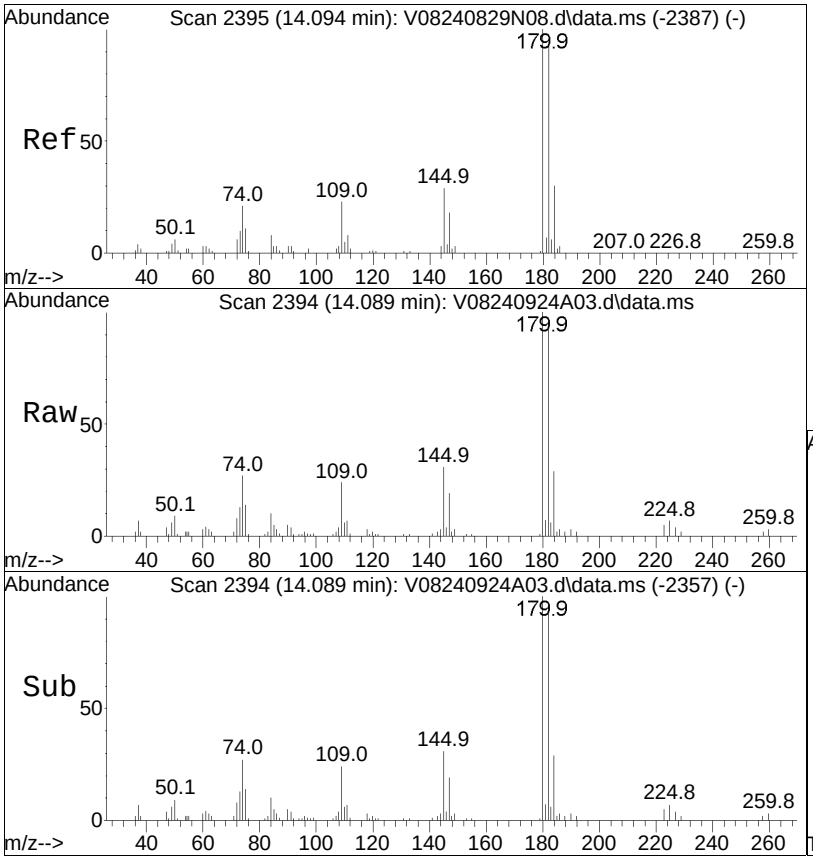


#106
1,2-Dibromo-3-chloropropane
Concen: 9.47 ug/L
RT: 13.460 min Scan# 2274
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:155 Resp: 7342

Ion	Ratio	Lower	Upper
155	100		
157	128.1	94.8	142.2

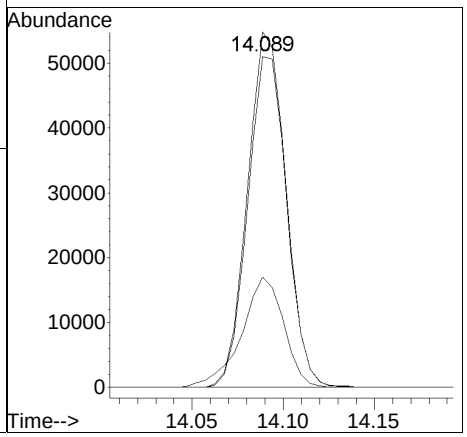


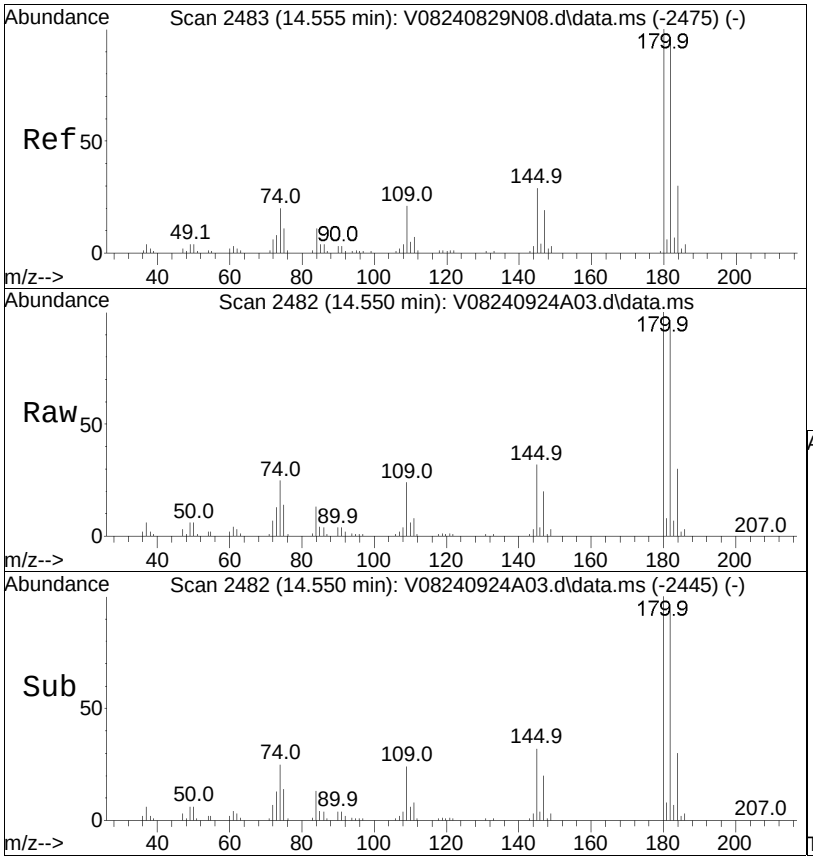


#109
1,2,4-Trichlorobenzene
Concen: 10.23 ug/L
RT: 14.089 min Scan# 2394
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:180 Resp: 80589

Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.3	115.9
145	34.1	28.1	42.1

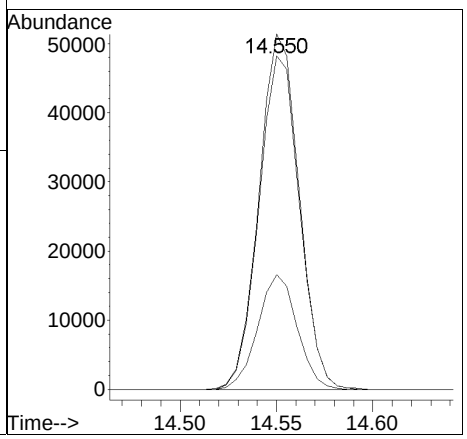




#111
1,2,3-Trichlorobenzene
Concen: 10.14 ug/L
RT: 14.550 min Scan# 2482
Delta R.T. -0.005 min
Lab File: V08240924A03.d
Acq: 24 Sep 2024 7:36 am

Tgt Ion:180 Resp: 74209

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
145	31.7	26.4	39.6



Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 24 2024, 01:18 pm

Work Group: WG1975156 for Department: 31 GC/MS - Volatiles

Created: 23-SEP-24 Due: Operator: MKS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453072-05	MW0610-01-091624	S	NYTCL-8260-R2	WATER	DONE	U	0930	0923	S0	Vial-B
L2453072-07	MW-63-091624	S	NYTCL-8260-R2	WATER	DONE	U	0930	0923	S0	Vial-B
L2453125-07	B1-GW	S	NYTCL-8260	WATER	DONE	U	0930	0924	S0	Vial-B
L2453125-08	B2-GW	S	NYTCL-8260	WATER	DONE	U	0930	0924	S0	Vial-B
L2453125-09	B5-GW	S	NYTCL-8260	WATER	DONE	U	0930	0924	S0	Vial-B
L2453125-10	B6-GW	S	NYTCL-8260	WATER	DONE	U	0930	0924	S0	Vial-B
L2453183-01	SB-1 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-02	SB-2 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-03	SB-3 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-04	SB-5 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-05	SB-7 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-06	SB-9 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-07	SB-11 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453183-08	SB-12 WATER	S	NYTCL-8260-R2	WATER	DONE	U	0930	0924	5E	Vial-B
L2453311-05	FB02_091724	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-11	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453405-01	TW-1	S	NYTCL-8260-R2	WATER	DONE	U	1001	0924	3E	Vial-B
L2453405-02	TW-2	S	NYTCL-8260-R2	WATER	DONE	U	1001	0924	3E	Vial-B
L2453405-03	TW-3	S	NYTCL-8260-R2	WATER	DONE	U	1001	0924	3E	Vial-B
WG1975156-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1975156-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1975156-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1975156-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1975156-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1975156-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1975156-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1975156-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1975156-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1975156-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1975156-4 WG1975156-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 24 2024, 01:18 pm

Work Group: WG1975613 for Department: 31 GC/MS - Volatiles

Created: 24-SEP-24 Due: Operator: LAC

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453342-01	MP-1	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-02	MP-1D	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-03	MW-13D	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-04	MW-13S	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-05	MW-10D	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-06	MW-10S	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-07	MW-6D	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-08	PZ-6	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2453342-10	EQUIPMENT BLANK	S	NYTCL-8260	WATER	DONE	U	1001	0924	S0	Vial-B
L2454673-08	TB20240923	S	NYTCL-8260	WATER	DONE	U	1002	0924	1A	Vial-B
WG1975613-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1975613-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1975613-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1975613-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1975613-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1975613-4 WG1975613-3

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

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

Method

Inst: VOA101 BFB: V10618 GC: 8260

Initials: MAG IS/SS: V10647 Autosampler: 8260water

Date: **09/11/24** ICAL: V10649A,V10662 Concentrator: 8260water

Run: **N** ICV: V10652, V10620, V10621, V10638, V10653, V10654 QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	
1	V01240911NBF1	BFB TUNE	
1	V01240911NBF2	BFB TUNE	
2	V01240911NBF3	BFB TUNE	
3	V01240911NBF4	BFB TUNE	
4	V01240911N01	BLK	
5	V01240911N02	BLK	
6	V01240911N03	I8260STD0.19PPB	
7	V01240911N04	I8260STD0.19PPB	
8	V01240911N05	I8260STD0.5PPB	
9	V01240911N06	I8260STD0.5PPB	
10	V01240911N07	I8260STD2PPB	
11	V01240911N08	I8260STD10PPB	
12	V01240911N09	I8260STD30PPB	
13	V01240911N10	I8260STD80PPB	
14	V01240911N11	I8260STD120PPB	
15	V01240911N12	I8260STD200PPB	
16	V01240911N13	BLK	
17	V01240911N14	BLK	
18	V01240911N15	BLK	
19	V01240911N16	BLK	
20	V01240911N17	C8260STD10PPB	
21	V01240911N18	C8260STD10PPB	
22	V01240911N19	BLK	
23	V01240911N20	BLK	

Inst: VOA101 BFB: V10678 Method GC: 8260
Initials: PID IS/SS: V10670 Autosampler: 8260water
Date: **09/22/24** ICAL: V10683A,V10679 Concentrator: 8260water
Run: **A** QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE			
1	V01240922ABF1	BFB TUNE 16:14			
1	V01240922A01	8260 CCAL LCS			
2	V01240922A02	8260 CCAL LCSD			
3	V01240922A03	8260 CCAL			
4	V01240922A04	BLK			
5	V01240922A05	METHOD BLK			
6	V01240922A06	L2453311-05,31,10,10,,A	NYCURVE	FB	pH<2
7	V01240922A07	L2453342-11,31,10,10,,A	NYTCL	TB	pH<2
8	V01240922A08	L2453405-01,31,10,10,,A,R3E	NY/R2		pH<2
9	V01240922A09	L2453405-02,31,10,10,,A,R3E	NY/R2		pH<2
10	V01240922A10	L2453405-03,31,10,10,,A,R3E	NY/R2		pH>2
11	V01240922A11	L2453072-05,31,10,10,,A	NY/R2		pH>2
12	V01240922A12	L2453072-06D,31,5.0,10,,A	NY/R2		pH<2
13	V01240922A13	L2453072-07D,31,4.0,10,,A	NY/R2		pH<2
14	V01240922A14	BLK			
15	V01240922A15	L2453125-07,31,10,10,,A	NYTCL		pH<2
16	V01240922A16	L2453125-08,31,10,10,,A	NYTCL	SED	pH>2
17	V01240922A17	L2453125-09,31,10,10,,A	NYTCL	SED	pH>2
18	V01240922A18	L2453125-10,31,10,10,,A	NYTCL	SED	pH<2
19	V01240922A19	L2453183-01,31,10,10,,A,R5E	NY/R2/10		pH<2
20	V01240922A20	L2453183-02,31,10,10,,A,R5E	NY/R2/10		pH<2
21	V01240922A21	L2453183-03,31,10,10,,A,R5E	NY/R2/10		pH<2
22	V01240922A22	L2453183-05,31,10,10,,A,R5E	NY/R2/10		pH<2
23	V01240922A23	L2453183-06,31,10,10,,A,R5E	NY/R2/10		pH<2
24	V01240922A24	L2453183-07,31,10,10,,A,R5E	NY/R2/10		pH<2
25	V01240922A25	L2453183-04,31,10,10,,A,R5E	NY/R2/10		pH<2
26	V01240922A26	L2453183-08,31,10,10,,A,R5E	NY/R2/10		pH>2
27	V01240922A27	HSTD			
28	V01240922A28	BLK			
29	V01240922A29	BLK			

Inst: VOA108 BFB: V10678 Method GC: 8260-ATOMX
Initials: PID IS/SS: V10670 Autosampler: 8260
Date **09/24/24** ICAL: V10683A,V10679 Concentrator: 8260
Run **A** QC: Seq:

Vial	DATA FILE	SAMPLE			pH<2
1	V08240924ABF1	BFB TUNE 06:37			
1	V08240924A01	8260 CCAL QC FAILS			
2	V08240924A02	8260 CCAL LCS			
3	V08240924A03	8260 CCAL LCSD			
4	V08240924A04	BLK			
5	V08240924A05	METHOD BLK			
6	V08240924A06	L2454673-08,31,10,10,,A,R1A	NYTCL/10	TB	
7	V08240924A07	L2453342-10,31,10,10,,A	NYCURVE		
8	V08240924A08	L2453342-01,31,10,10,,A	NYCURVE		
9	V08240924A09	L2453342-02,31,10,10,,A	NYCURVE		
10	V08240924A10	L2453342-03,31,10,10,,A	NYCURVE		
11	V08240924A11	L2453342-04,31,10,10,,A	NYCURVE		
12	V08240924A12	L2453342-05,31,10,10,,A	NYCURVE		
13	V08240924A13	L2453342-06,31,10,10,,A	NYCURVE		
14	V08240924A14	L2453342-08,31,10,10,,A	NYCURVE		
15	V08240924A15	L2453342-07,31,10,10,,A	NYCURVE		
16	V08240924A16	DSTD			
17	V08240924A17	l2453622-02D,31,5.0,10,,a	NYTCL		pH<2
18	V08240924A18	L2453622-01,31,10,10,,A	NYTCL		
19	V08240924A19	L2453613-01,31,10,10,,A	NY/R2		
20	V08240924A20	L2453613-02,31,10,10,,A	NY/R2		
21	V08240924A21	L2453613-03,31,10,10,,A	NY/R2		
22	V08240924A22	L2453613-04,31,10,10,,A	NY/R2		
23	V08240924A23	L2453613-05,31,10,10,,A	NY/R2		
24	V08240924A24	L2453613-06,31,10,10,,A	NY/R2		
25	V08240924A25	L2453613-07,31,10,10,,A	NY/R2		
26	V08240924A26	L2453613-08,31,10,10,,A	NY/R2		
27	V08240924A27	L2453613-02MS,31,10,10,,A1	NY/R2		
28	V08240924A28	L2453613-02MSD,31,10,10,,A2	NY/R2		
29	V08240924A29	BLK			
30	V08240924A30	BLK			
31	V08240924A31	BLK			
32	V08240924A32	L2451458-01,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
33	V08240924A33	L2451458-02,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
34	V08240924A34	L2451458-03,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
35	V08240924A35	L2451458-04,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
36	V08240924A36	L2451458-05,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
37	V08240924A37	L2451458-06,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
38	V08240924A38	L2451458-07,31,10,10,,A	8260/RFB	UNPRES VIAL	pH>2
39	V08240924A39	HSTD			
40	V08240924A40	BLK			
41	V08240924A41	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974885-2 Analysis Date : 09/24/24 10:51	**File ID**	: 974885-2
LCSD Sample ID	: WG1974885-3 Analysis Date : 09/24/24 11:13	**File ID**	: 974885-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	19.	93	20	18.	91	2	40-140	30
2,4-Dinitrotoluene	20	18.	88	20	17.	87	1	48-143	30
2,6-Dinitrotoluene	20	18.	88	20	16.	82	7	40-140	30
4-Chlorophenyl phenyl ether	20	15.	74	20	14.	69	7	40-140	30
4-Bromophenyl phenyl ether	20	15.	74	20	14.	70	6	40-140	30
Bis(2-chloroisopropyl)ether	20	16.	81	20	15.	76	6	40-140	30
Bis(2-chloroethoxy)methane	20	14.	68	20	13.	65	5	40-140	30
Hexachlorocyclopentadiene	20	12.	58	20	10.	51	13	40-140	30
Isophorone	20	14.	69	20	13.	64	8	40-140	30
Nitrobenzene	20	14.	69	20	12.	61	12	40-140	30
NDPA/DPA	20	16.	78	20	15.	75	4	40-140	30
n-Nitrosodi-n-propylamine	20	13.	66	20	12.	63	5	29-132	30
Bis(2-ethylhexyl)phthalate	20	23.	114	20	21.	105	8	40-140	30
Butyl benzyl phthalate	20	21.	106	20	20.	100	6	40-140	30
Di-n-butylphthalate	20	19.	95	20	18.	92	3	40-140	30
Di-n-octylphthalate	20	21.	106	20	20.	101	5	40-140	30
Diethyl phthalate	20	16.	78	20	15.	76	3	40-140	30
Dimethyl phthalate	20	16.	79	20	15.	75	5	40-140	30
Biphenyl	20	14.	69	20	13.	65	6	40-140	30
4-Chloroaniline	20	12.	60	20	12.	61	2	40-140	30
2-Nitroaniline	20	19.	94	20	18.	88	7	52-143	30
3-Nitroaniline	20	17.	87	20	17.	87	0	25-145	30
4-Nitroaniline	20	18.	91	20	18.	91	0	51-143	30
Dibenzofuran	20	15.	77	20	14.	72	7	40-140	30
1,2,4,5-Tetrachlorobenzene	20	13.	65	20	12.	62	5	2-134	30
Acetophenone	20	14.	70	20	13.	64	9	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974885-2 Analysis Date : 09/24/24 10:51	**File ID**	: 974885-2
LCSD Sample ID	: WG1974885-3 Analysis Date : 09/24/24 11:13	**File ID**	: 974885-3

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	16.	80	20	9.6	48	50	Q	30-130	30
p-Chloro-m-cresol	20	15.	77	20	14.	68	12		23-97	30
2-Chlorophenol	20	15.	75	20	10.	50	40	Q	27-123	30
2,4-Dichlorophenol	20	16.	81	20	11.	57	35	Q	30-130	30
2,4-Dimethylphenol	20	11.	56	20	11.	55	2		30-130	30
2-Nitrophenol	20	18.	89	20	11.	57	44	Q	30-130	30
4-Nitrophenol	20	8.4	42	20	4.6	23	58	Q	10-80	30
2,4-Dinitrophenol	20	17.	86	20	7.5	38	77	Q	20-130	30
4,6-Dinitro-o-cresol	20	18.	88	20	11.	57	43	Q	20-164	30
Phenol	20	8.1	40	20	6.1	30	29		12-110	30
2-Methylphenol	20	14.	69	20	12.	61	12		30-130	30
3-Methylphenol/4-Methylphenol	20	13.	64	20	11.	57	12		30-130	30
2,4,5-Trichlorophenol	20	17.	85	20	11.	57	39	Q	30-130	30
Carbazole	20	18.	88	20	17.	84	5		55-144	30
Atrazine	20	18.	91	20	17.	84	8		40-140	30
Benzaldehyde	20	12.	61	20	12.	58	5		40-140	30
Caprolactam	20	9.1	46	20	9.4	47	2		10-130	30

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MP-1 (L2453342-01)	29	22	65	70	48	79	0
MP-1D (L2453342-02)	44	29	57	67	73	76	0
MW-13D (L2453342-03)	45	31	65	72	81	83	0
MW-13S (L2453342-04)	41	28	66	69	71	81	0
MW-10D (L2453342-05)	48	33	63	73	78	83	0
MW-10S (L2453342-06)	23	19	61	64	38	74	0
MW-6D (L2453342-07)	42	27	61	70	71	82	0
PZ-6 (L2453342-08)	31	22	61	67	52	77	0
EQUIPMENT BLANK (L2453342-10)	48	30	60	70	70	81	0
WG1974885-1BLANK	28	21	57	64	38	64	0
WG1974885-2LCS	54	37	68	71	79	82	0
WG1974885-3LCSD	35	26	62	66	52	78	0

QC LIMITS

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

*** Values outside of QC limits**

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974885-1	**Lab File ID**	: 974885-1
Instrument ID	: SV112	**Extraction Date**	: 09/23/24
Matrix	: WATER	**Analysis Date**	: 09/24/24 10:28
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1974885-2LCS	WG1974885-2	09/24/24 10:51
WG1974885-3LCSD	WG1974885-3	09/24/24 11:13
MP-1	L2453342-01	09/24/24 14:14
MP-1D	L2453342-02	09/24/24 14:37
MW-13D	L2453342-03	09/24/24 15:00
MW-13S	L2453342-04	09/24/24 15:22
MW-10D	L2453342-05	09/24/24 15:45
MW-10S	L2453342-06	09/24/24 16:07
MW-6D	L2453342-07	09/24/24 16:30
PZ-6	L2453342-08	09/24/24 16:53
EQUIPMENT BLANK	L2453342-10	09/24/24 17:15

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 06/25/24 19:55
Tune Standard	: R1846237-4	**Tune File ID**	: Tune1_tune

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

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

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

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 06/26/24 04:02
Tune Standard	: R1846237-5	**Tune File ID**	: Tune2_tune

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

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

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

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/24/24 08:35
Tune Standard	: WG1975506-1	**Tune File ID**	: DEG0924_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32
68	Less than 2.0% of mass 69	0.5 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	44.3
197	Less than 2.0% of mass 198	0.5
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	28.6
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	86
443	15.0 - 24.0% of mass 442	17.3 (20.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975506-6TFACTOR-B	WG1975506-6	DEG0924	09/24/24 08:35
WG1975506-7TFACTOR-P	WG1975506-7	DEG0924	09/24/24 08:35
WG1975506-3CCAL	WG1975506-3	ABN0924	09/24/24 08:58
WG1975506-5CCAL	WG1975506-5	ADP0924	09/24/24 09:43
WG1975506-4CCAL	WG1975506-4	AP90924A	09/24/24 10:06
WG1974885-1BLANK	WG1974885-1	974885-1	09/24/24 10:28
WG1974885-2LCS	WG1974885-2	974885-2	09/24/24 10:51
WG1974885-3LCSD	WG1974885-3	974885-3	09/24/24 11:13
MP-1	L2453342-01	53342-01	09/24/24 14:14
MP-1D	L2453342-02	53342-02	09/24/24 14:37
MW-13D	L2453342-03	53342-03	09/24/24 15:00
MW-13S	L2453342-04	53342-04	09/24/24 15:22
MW-10D	L2453342-05	53342-05	09/24/24 15:45
MW-10S	L2453342-06	53342-06	09/24/24 16:07
MW-6D	L2453342-07	53342-07	09/24/24 16:30
PZ-6	L2453342-08	53342-08	09/24/24 16:53
EQUIPMENT BLANK	L2453342-10	53342-10	09/24/24 17:15

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/24/24 08:58:00
Sample No	: WG1975506-3	**Lab File ID**	: ABN0924

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975506-3	17786	4.74	66392	5.98	44283	7.68
Upper Limit	35572	5.24	132784	6.48	88566	8.18
Lower Limit	8893	4.24	33196	5.48	22142	7.18
Sample ID						
WG1975506-5 CCAL	17404	4.74	-	-	38891	7.68
WG1975506-4 CCAL	17349	4.74	63812	5.98	39230	7.68
WG1974885-1 BLANK	20897	4.74	77047	5.98	51455	7.68
WG1974885-2 LCS	17881	4.74	67688	5.98	42396	7.68
WG1974885-3 LCSD	18392	4.74	68753	5.98	43357	7.68
MP-1	19229	4.74	71974	5.98	44515	7.68
MP-1D	19402	4.74	69548	5.98	43744	7.68
MW-13D	18719	4.74	69385	5.98	43394	7.68
MW-13S	18436	4.74	68255	5.98	42166	7.68
MW-10D	18999	4.74	70811	5.98	43829	7.68
MW-10S	19205	4.74	70721	5.98	43148	7.68
MW-6D	19589	4.74	70749	5.98	43641	7.68
PZ-6	20283	4.74	75728	5.98	46650	7.68
EQUIPMENT BLANK	19429	4.74	70302	5.98	42910	7.68

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV112	**Analysis Date**	: 09/24/24 08:58:00
Sample No	: WG1975506-3	**Lab File ID**	: ABN0924

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975506-3	94364	9.10	112377	11.74	132148	13.21
Upper Limit	188728	9.60	224754	12.24	264296	13.71
Lower Limit	47182	8.60	56189	11.24	66074	12.71
Sample ID						
WG1975506-5 CCAL	87342	9.10	-	-	-	-
WG1975506-4 CCAL	86328	9.10	-	-	-	-
WG1974885-1 BLANK	112472	9.10	138362	11.74	170485	13.21
WG1974885-2 LCS	91227	9.10	109322	11.74	132189	13.21
WG1974885-3 LCSD	92790	9.10	112187	11.74	135876	13.21
MP-1	94168	9.10	113317	11.74	138678	13.21
MP-1D	94493	9.10	108926	11.74	128873	13.21
MW-13D	92358	9.10	109234	11.74	130879	13.21
MW-13S	91585	9.10	109223	11.74	129846	13.21
MW-10D	93769	9.10	109075	11.74	131455	13.21
MW-10S	93254	9.10	110372	11.74	131965	13.21
MW-6D	93415	9.10	109711	11.74	130833	13.21
PZ-6	101467	9.10	115180	11.74	134984	13.21
EQUIPMENT BLANK	92881	9.10	112389	11.74	131520	13.21

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

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

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

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

ABN Extractables - EPA 8270E (WATER)

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

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

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

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

ABN Extractables - EPA 8270E (SOIL)

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

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

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

ABN Extractables - EPA 8270E (SOIL)

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

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

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:14
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-01	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.7	3.0	1.4	J
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:14
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-01	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:37
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-02	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.9	3.0	1.4	J
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:37
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-02	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:00
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:00
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:22
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:22
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-05	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-05	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:07
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:07
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:30
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-07	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.5	3.0	1.4	J
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:30
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-07	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	3.7	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:53
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-08	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	3.2	3.0	1.4	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:53
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-08	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.8	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:15
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-10	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:15
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53342-10	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	4.5	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974885-1	**Date Collected**	: NA
Client ID	: WG1974885-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 10:28
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 974885-1	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.9	3.0	1.4	J
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974885-1	**Date Collected**	: NA
Client ID	: WG1974885-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 10:28
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 974885-1	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV112
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-01.D
Acq On : 24 Sep 2024 02:14 pm
Operator : SV112:slr
Sample : L2453342-01,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 14:50:47 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	19229	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 108.11%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	19229	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 110.84%			
35) IS1_Naphthalene-d8	5.975	136	71974	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 108.41%			
55) IS2_Naphthalene-d8	5.975	136	71974	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 112.79%			
63) IS1_Acenaphthene-d10	7.675	164	44515	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 100.52%			
83) IS2_Acenaphthene-d10	7.675	164	44515	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 113.47%			
86) IS3_Acenaphthene-d10	7.675	164	44515	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 114.46%			
88) IS1_Phenanthrene-d10	9.104	188	94168	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 99.79%			
100) IS3_Phenanthrene-d10	9.104	188	94168	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 107.82%			
104) IS1_Chrysene-d12	11.740	240	113317	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 100.84%			
113) IS1_Perylene-d12	13.210	264	138678	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 104.94%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	2913	0.577	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.85%			
7) Phenol-d6	4.416	99	2833	0.434	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.70%			
19) Nitrobenzene-d5	5.281	82	4016	0.646	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.60%			
46) 2-Fluorobiphenyl	7.040	172	11317	0.695	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.50%			
79) 2,4,6-Tribromophenol	8.440	330	2732	0.956	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 47.80%			
96) 4-Terphenyl-d14	10.687	244	19136	0.790	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 79.00%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-01.D
Acq On : 24 Sep 2024 02:14 pm
Operator : SV112:slr
Sample : L2453342-01,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 14:50:47 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-01.D
Acq On : 24 Sep 2024 02:14 pm
Operator : SV112:slr
Sample : L2453342-01,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 14:50:47 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	4879	0.270	ug/ml#	96
109) Di-n-octylphthalate	0.000		0	N.D.	d	

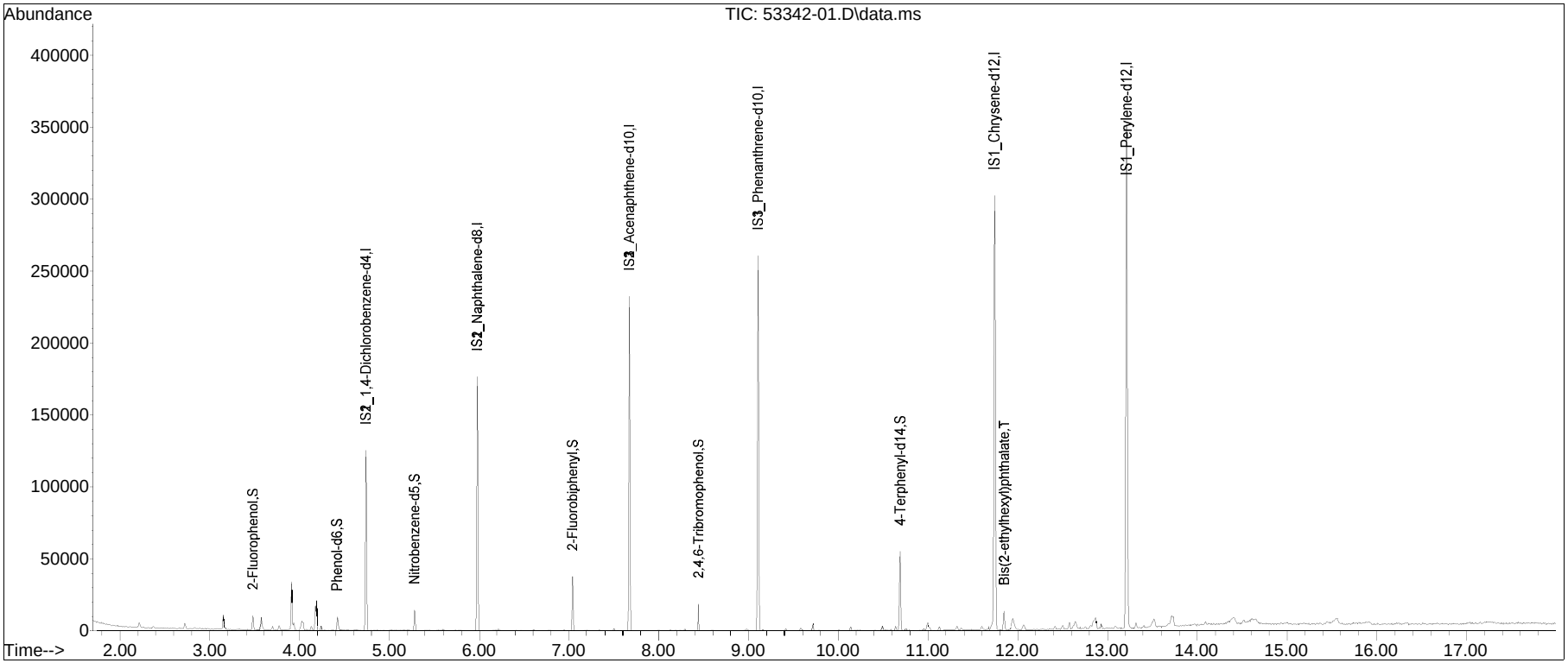
(#) = qualifier out of range (m) = manual integration (+) = signals summed

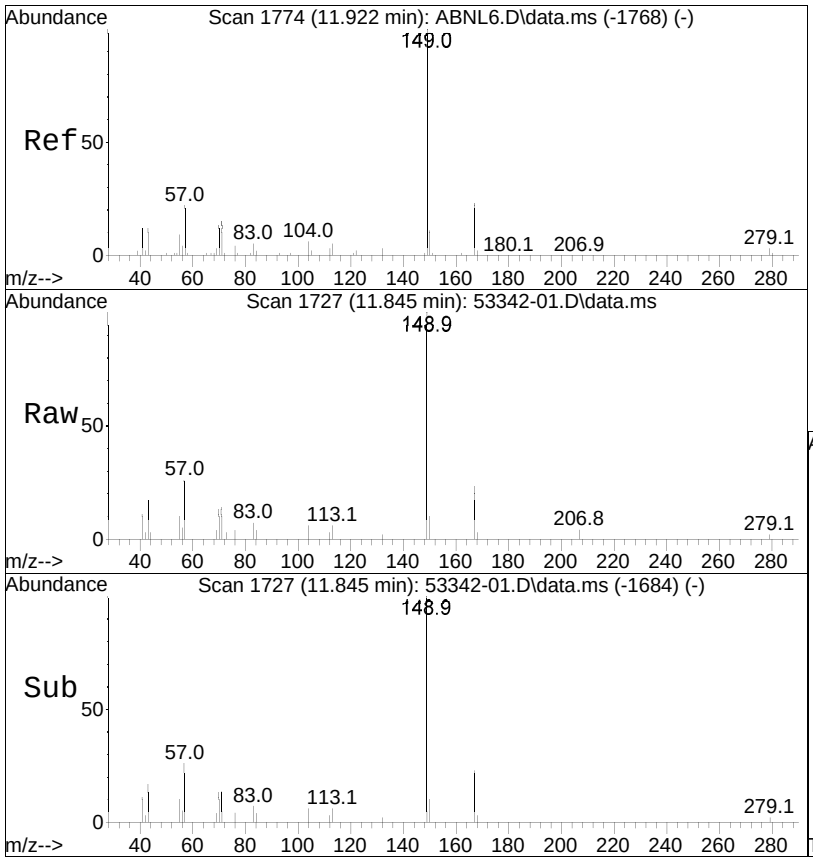
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-01.D
Acq On : 24 Sep 2024 02:14 pm
Operator : SV112:slr
Sample : L2453342-01,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 14:50:47 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

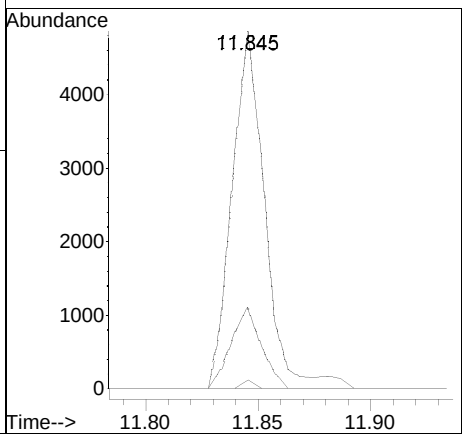




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.27 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-01.D
Acq: 24 Sep 2024 02:14 pm

Tgt Ion:149 Resp: 4879

Ion	Ratio	Lower	Upper
149	100		
167	21.2	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-01.D	Operator	: SV112:slr
Date Inj'd	: 9/24/2024 2:14 pm	Instrument	: SV112
Sample	: L2453342-01,32,,gmr	Quant Date	: 9/24/2024 2:33 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-02.D
Acq On : 24 Sep 2024 02:37 pm
Operator : SV112:slr
Sample : L2453342-02,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 15:10:54 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	19402	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 109.09%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	19402	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 111.83%			
35) IS1_Naphthalene-d8	5.975	136	69548	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 104.75%			
55) IS2_Naphthalene-d8	5.975	136	69548	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 108.99%			
63) IS1_Acenaphthene-d10	7.675	164	43744	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 98.78%			
83) IS2_Acenaphthene-d10	7.675	164	43744	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 111.51%			
86) IS3_Acenaphthene-d10	7.675	164	43744	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 112.48%			
88) IS1_Phenanthrene-d10	9.104	188	94493	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 100.14%			
100) IS3_Phenanthrene-d10	9.104	188	94493	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 108.19%			
104) IS1_Chrysene-d12	11.740	240	108926	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 96.93%			
113) IS1_Perylene-d12	13.210	264	128873	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 97.52%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	4465	0.876	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.80%			
7) Phenol-d6	4.416	99	3796	0.577	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.85%			
19) Nitrobenzene-d5	5.281	82	3592	0.572	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.20%			
46) 2-Fluorobiphenyl	7.040	172	10503	0.668	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.80%			
79) 2,4,6-Tribromophenol	8.440	330	4125	1.469	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 73.45%			
96) 4-Terphenyl-d14	10.687	244	18424	0.758	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.80%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-02.D
Acq On : 24 Sep 2024 02:37 pm
Operator : SV112:slr
Sample : L2453342-02,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 15:10:54 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-02.D
Acq On : 24 Sep 2024 02:37 pm
Operator : SV112:slr
Sample : L2453342-02,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 15:10:54 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	5011	0.288	ug/ml#	98
109) Di-n-octylphthalate	0.000		0	N.D.		

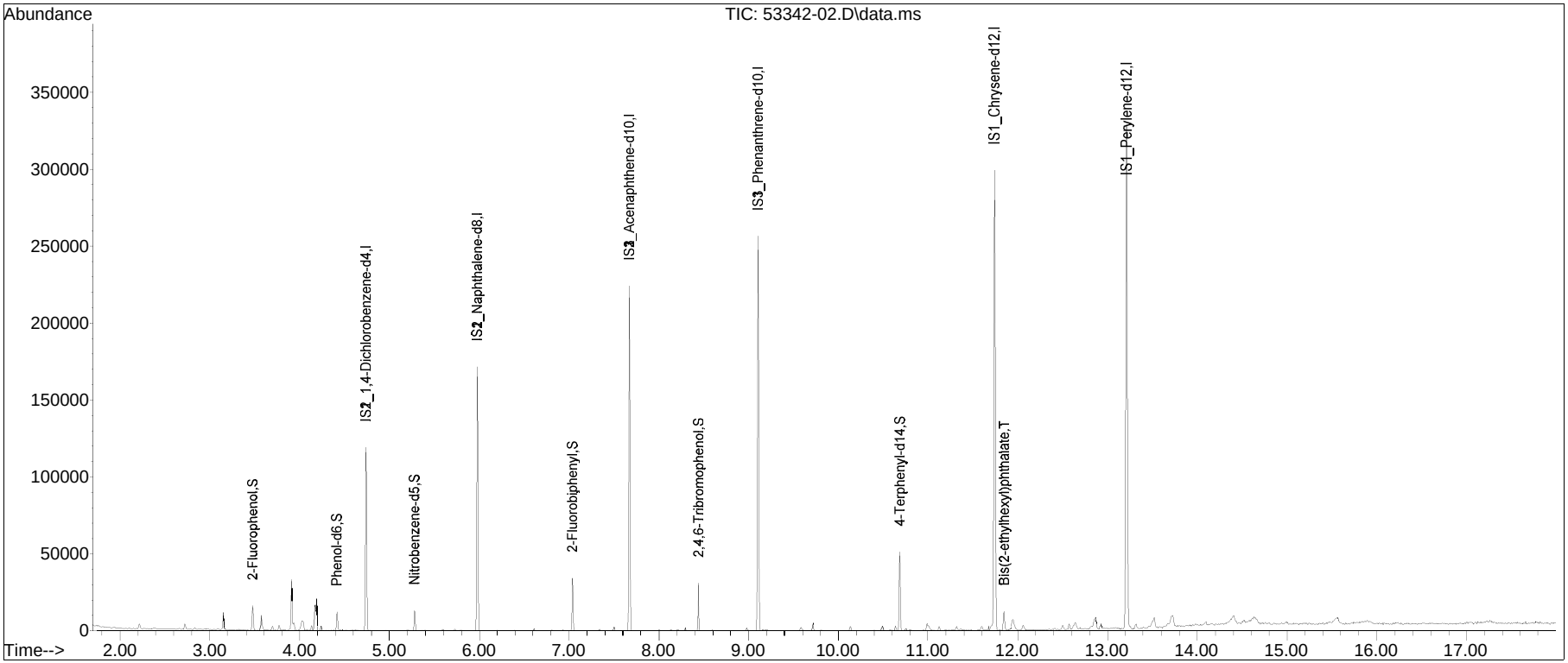
(#) = qualifier out of range (m) = manual integration (+) = signals summed

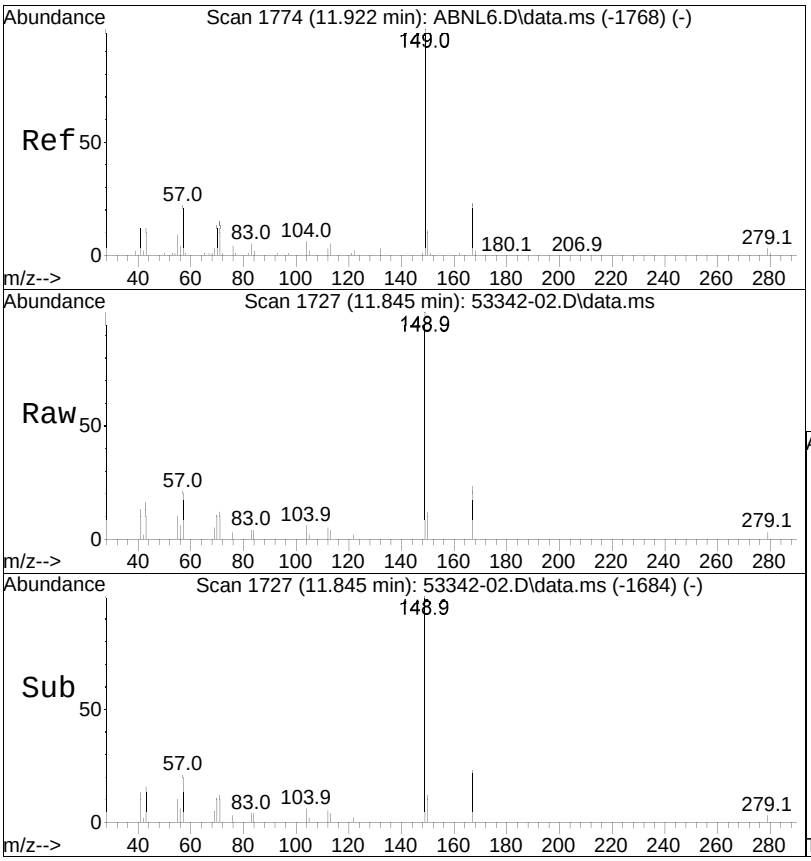
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-02.D
Acq On : 24 Sep 2024 02:37 pm
Operator : SV112:slr
Sample : L2453342-02,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 15:10:54 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

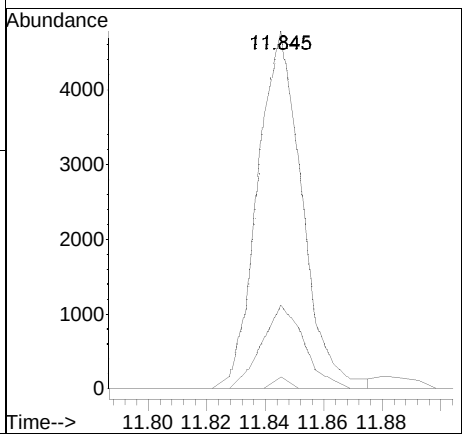




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.29 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-02.D
Acq: 24 Sep 2024 02:37 pm

Tgt Ion:149 Resp: 5011

Ion	Ratio	Lower	Upper
149	100		
167	22.4	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-02.D	Operator	: SV112:slr
Date Inj'd	: 9/24/2024 2:37 pm	Instrument	: SV112
Sample	: L2453342-02,32,,gmr	Quant Date	: 9/24/2024 2:55 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-03.D
Acq On : 24 Sep 2024 03:00 pm
Operator : SV112:ek
Sample : L2453342-03,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 17:38:48 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	18719	4.000	ug/ml		0.00
Standard Area 1 = 17786			Recovery = 105.25%				
27) IS2_1,4-Dichlorobenzen...	4.740	152	18719	4.000	ug/ml		0.00
Standard Area 3 = 17349			Recovery = 107.90%				
35) IS1_Naphthalene-d8	5.975	136	69385	4.000	ug/ml	#	0.00
Standard Area 1 = 66392			Recovery = 104.51%				
55) IS2_Naphthalene-d8	5.975	136	69385	4.000	ug/ml	#	0.00
Standard Area 3 = 63812			Recovery = 108.73%				
63) IS1_Acenaphthene-d10	7.675	164	43394	4.000	ug/ml		0.00
Standard Area 1 = 44283			Recovery = 97.99%				
83) IS2_Acenaphthene-d10	7.675	164	43394	4.000	ug/ml		0.00
Standard Area 3 = 39230			Recovery = 110.61%				
86) IS3_Acenaphthene-d10	7.675	164	43394	4.000	ug/ml		0.00
Standard Area 2 = 38891			Recovery = 111.58%				
88) IS1_Phenanthrene-d10	9.104	188	92358	4.000	ug/ml	#	0.00
Standard Area 1 = 94364			Recovery = 97.87%				
100) IS3_Phenanthrene-d10	9.104	188	92358	4.000	ug/ml	#	0.00
Standard Area 2 = 87342			Recovery = 105.74%				
104) IS1_Chrysene-d12	11.739	240	109234	4.000	ug/ml	#	0.00
Standard Area 1 = 112377			Recovery = 97.20%				
113) IS1_Perylene-d12	13.210	264	130879	4.000	ug/ml		0.00
Standard Area 1 = 132148			Recovery = 99.04%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	4393	0.894	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.70%				
7) Phenol-d6	4.416	99	3883	0.612	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.60%				
19) Nitrobenzene-d5	5.281	82	3918	0.647	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.70%				
46) 2-Fluorobiphenyl	7.040	172	11348	0.723	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.30%				
79) 2,4,6-Tribromophenol	8.440	330	4499	1.615	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 80.75%				
96) 4-Terphenyl-d14	10.687	244	19679	0.828	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 82.80%				

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-03.D
Acq On : 24 Sep 2024 03:00 pm
Operator : SV112:ek
Sample : L2453342-03,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 17:38:48 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.428	94	900	0.122	ug/ml#	63
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-03.D
Acq On : 24 Sep 2024 03:00 pm
Operator : SV112:ek
Sample : L2453342-03,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 17:38:48 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

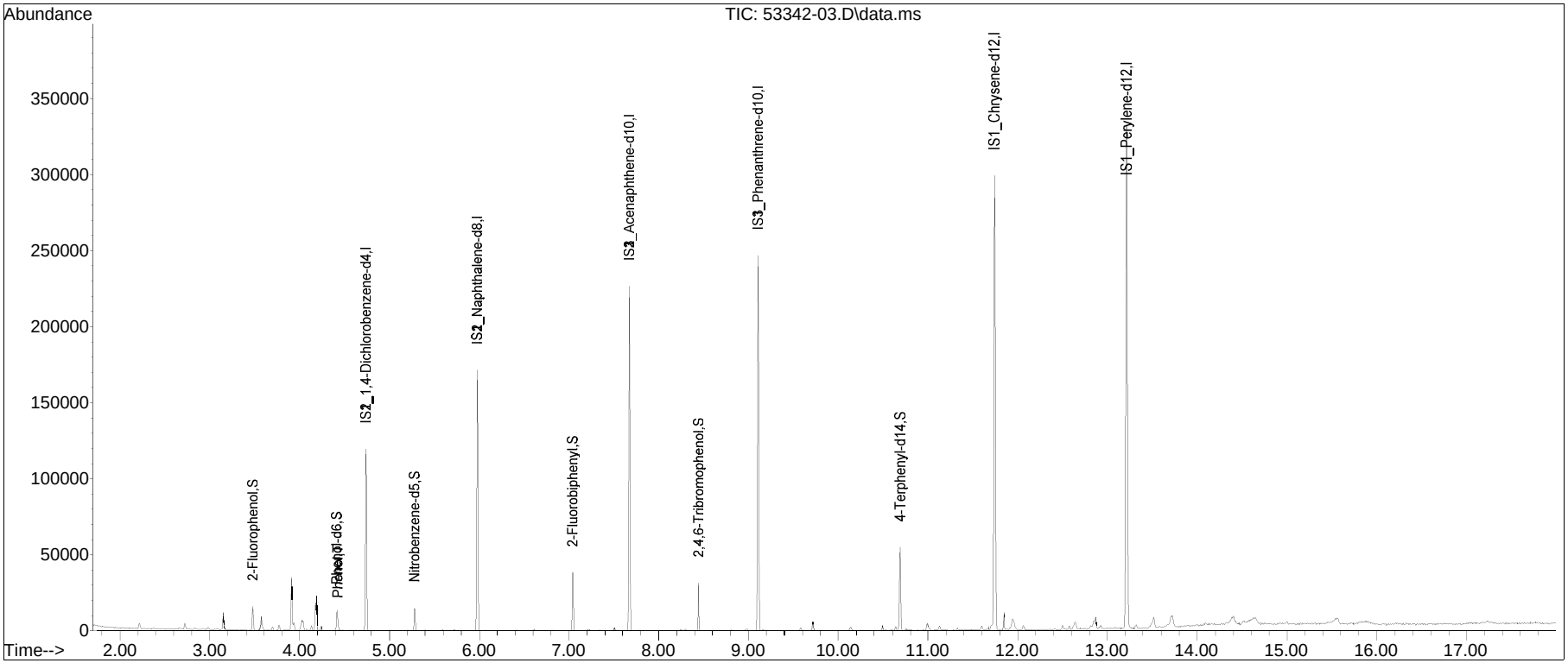
(#) = qualifier out of range (m) = manual integration (+) = signals summed

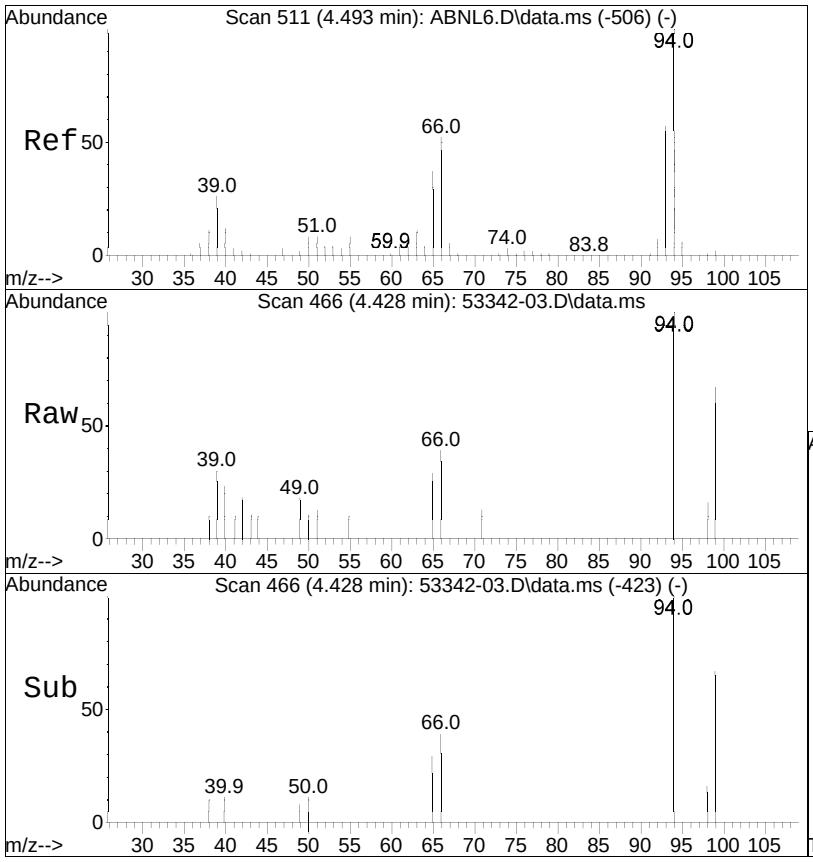
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-03.D
Acq On : 24 Sep 2024 03:00 pm
Operator : SV112:ek
Sample : L2453342-03,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 17:38:48 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

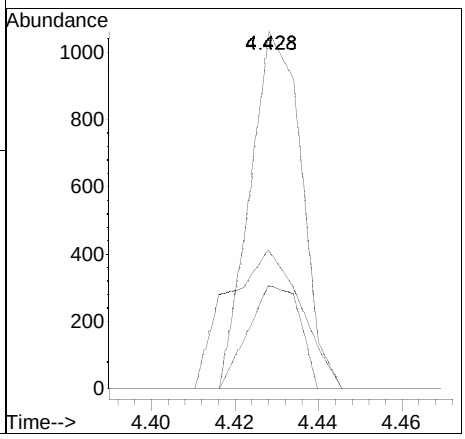




#8
Phenol
Concen: 0.12 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. -0.000 min
Lab File: 53342-03.D
Acq: 24 Sep 2024 03:00 pm

Tgt Ion: 94 Resp: 900

Ion	Ratio	Lower	Upper
94	100		
65	0.0	23.0	34.6#
66	55.6	32.1	48.1#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-03.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 3:00 pm	Instrument	: SV112
Sample	: L2453342-03,32,,gmr	Quant Date	: 9/24/2024 3:18 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-04.D
Acq On : 24 Sep 2024 03:22 pm
Operator : SV112:ek
Sample : L2453342-04,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 17:39:01 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	18436	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 103.65%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	18436	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 106.27%			
35) IS1_Naphthalene-d8	5.975	136	68255	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 102.81%			
55) IS2_Naphthalene-d8	5.975	136	68255	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 106.96%			
63) IS1_Acenaphthene-d10	7.675	164	42166	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 95.22%			
83) IS2_Acenaphthene-d10	7.675	164	42166	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 107.48%			
86) IS3_Acenaphthene-d10	7.675	164	42166	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 108.42%			
88) IS1_Phenanthrene-d10	9.104	188	91585	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 97.06%			
100) IS3_Phenanthrene-d10	9.104	188	91585	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 104.86%			
104) IS1_Chrysene-d12	11.739	240	109223	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 97.19%			
113) IS1_Perylene-d12	13.210	264	129846	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 98.26%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	3978	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	4.416	99	3470	0.555	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.75%			
19) Nitrobenzene-d5	5.281	82	3913	0.656	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.60%			
46) 2-Fluorobiphenyl	7.040	172	10589	0.686	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.60%			
79) 2,4,6-Tribromophenol	8.440	330	3856	1.425	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 71.25%			
96) 4-Terphenyl-d14	10.687	244	19079	0.810	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.00%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-04.D
Acq On : 24 Sep 2024 03:22 pm
Operator : SV112:ek
Sample : L2453342-04,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 17:39:01 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-04.D
Acq On : 24 Sep 2024 03:22 pm
Operator : SV112:ek
Sample : L2453342-04,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 17:39:01 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

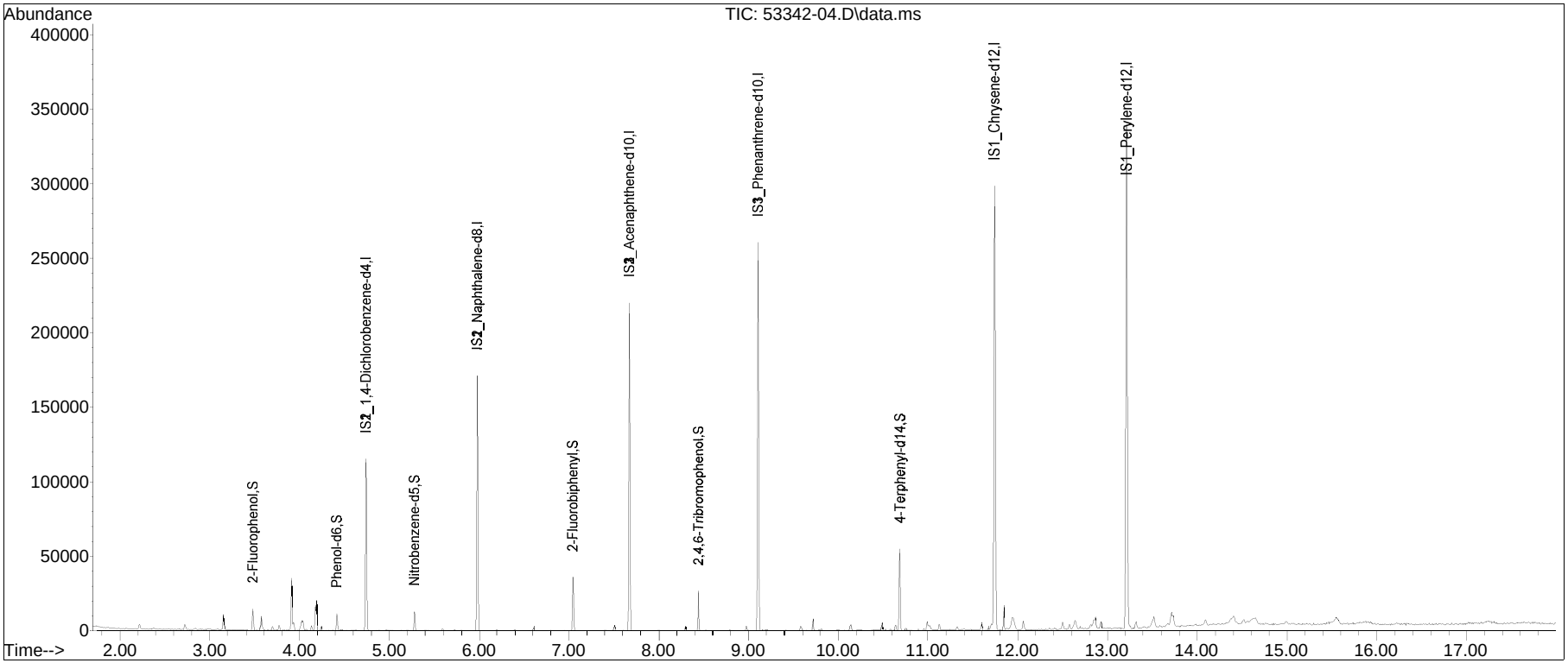
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-04.D
Acq On : 24 Sep 2024 03:22 pm
Operator : SV112:ek
Sample : L2453342-04,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 17:39:01 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-04.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 3:22 pm	Instrument	: SV112
Sample	: L2453342-04,32,,gmr	Quant Date	: 9/24/2024 3:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-05.D
Acq On : 24 Sep 2024 03:45 pm
Operator : SV112:ek
Sample : L2453342-05,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 17:39:28 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	18999	4.000	ug/ml		0.00
Standard Area 1 = 17786			Recovery = 106.82%				
27) IS2_1,4-Dichlorobenzen...	4.740	152	18999	4.000	ug/ml		0.00
Standard Area 3 = 17349			Recovery = 109.51%				
35) IS1_Naphthalene-d8	5.975	136	70811	4.000	ug/ml		0.00
Standard Area 1 = 66392			Recovery = 106.66%				
55) IS2_Naphthalene-d8	5.975	136	70811	4.000	ug/ml		0.00
Standard Area 3 = 63812			Recovery = 110.97%				
63) IS1_Acenaphthene-d10	7.675	164	43829	4.000	ug/ml		0.00
Standard Area 1 = 44283			Recovery = 98.97%				
83) IS2_Acenaphthene-d10	7.675	164	43829	4.000	ug/ml		0.00
Standard Area 3 = 39230			Recovery = 111.72%				
86) IS3_Acenaphthene-d10	7.675	164	43829	4.000	ug/ml		0.00
Standard Area 2 = 38891			Recovery = 112.70%				
88) IS1_Phenanthrene-d10	9.104	188	93769	4.000	ug/ml	#	0.00
Standard Area 1 = 94364			Recovery = 99.37%				
100) IS3_Phenanthrene-d10	9.104	188	93769	4.000	ug/ml	#	0.00
Standard Area 2 = 87342			Recovery = 107.36%				
104) IS1_Chrysene-d12	11.739	240	109075	4.000	ug/ml	#	0.00
Standard Area 1 = 112377			Recovery = 97.06%				
113) IS1_Perylene-d12	13.210	264	131455	4.000	ug/ml		0.00
Standard Area 1 = 132148			Recovery = 99.48%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	4787	0.960	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.00%				
7) Phenol-d6	4.416	99	4250	0.660	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.00%				
19) Nitrobenzene-d5	5.281	82	3896	0.634	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.40%				
46) 2-Fluorobiphenyl	7.040	172	11692	0.730	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.00%				
79) 2,4,6-Tribromophenol	8.440	330	4399	1.564	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 78.20%				
96) 4-Terphenyl-d14	10.687	244	19954	0.827	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 82.70%				

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-05.D
Acq On : 24 Sep 2024 03:45 pm
Operator : SV112:ek
Sample : L2453342-05,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 17:39:28 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-05.D
Acq On : 24 Sep 2024 03:45 pm
Operator : SV112:ek
Sample : L2453342-05,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 17:39:28 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	5225	0.300	ug/ml#	94
109) Di-n-octylphthalate	0.000		0	N.D.	d	

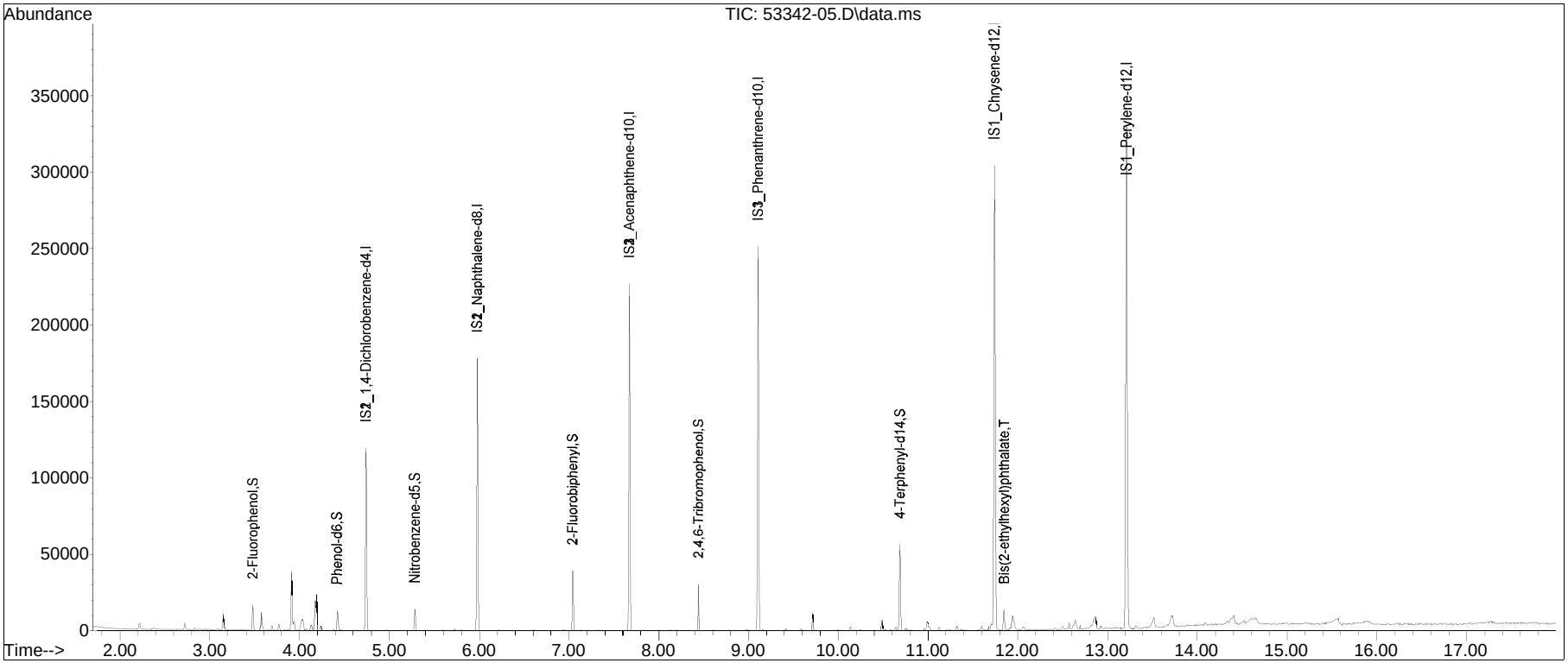
(#) = qualifier out of range (m) = manual integration (+) = signals summed

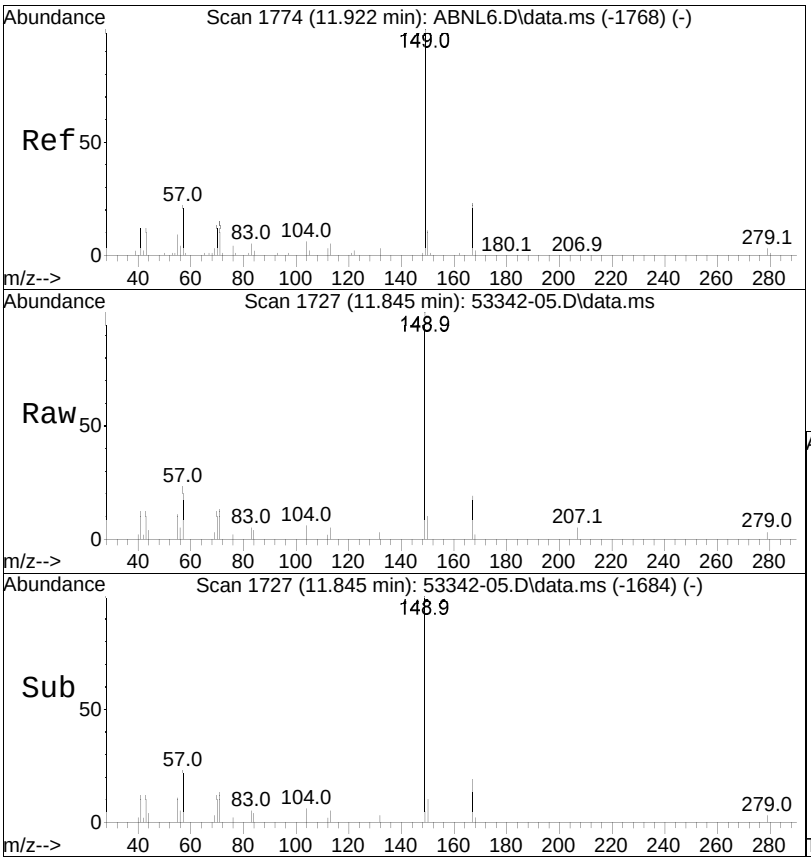
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-05.D
Acq On : 24 Sep 2024 03:45 pm
Operator : SV112:ek
Sample : L2453342-05,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 17:39:28 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

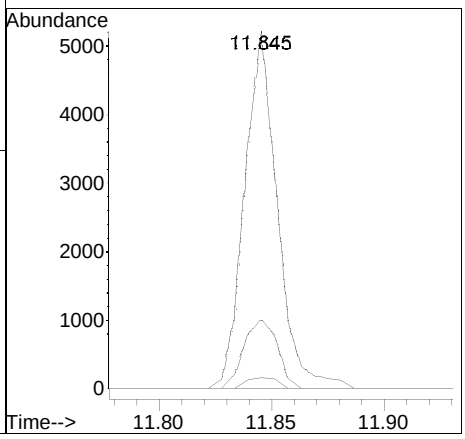




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.30 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-05.D
Acq: 24 Sep 2024 03:45 pm

Tgt Ion:149 Resp: 5225

Ion	Ratio	Lower	Upper
149	100		
167	19.9	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-05.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 3:45 pm	Instrument	: SV112
Sample	: L2453342-05,32,,gmr	Quant Date	: 9/24/2024 4:03 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-06.D
Acq On : 24 Sep 2024 04:07 pm
Operator : SV112:ek
Sample : L2453342-06,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 17:39:41 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	19205	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 107.98%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	19205	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 110.70%			
35) IS1_Naphthalene-d8	5.975	136	70721	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 106.52%			
55) IS2_Naphthalene-d8	5.975	136	70721	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 110.83%			
63) IS1_Acenaphthene-d10	7.675	164	43148	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 97.44%			
83) IS2_Acenaphthene-d10	7.675	164	43148	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 109.99%			
86) IS3_Acenaphthene-d10	7.675	164	43148	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 110.95%			
88) IS1_Phenanthrene-d10	9.104	188	93254	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 98.82%			
100) IS3_Phenanthrene-d10	9.104	188	93254	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 106.77%			
104) IS1_Chrysene-d12	11.739	240	110372	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 98.22%			
113) IS1_Perylene-d12	13.210	264	131965	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 99.86%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	2344	0.465	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.25%			
7) Phenol-d6	4.416	99	2442	0.375	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.75%			
19) Nitrobenzene-d5	5.281	82	3795	0.611	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.10%			
46) 2-Fluorobiphenyl	7.040	172	10256	0.641	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.10%			
79) 2,4,6-Tribromophenol	8.440	330	2107	0.761	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.05%			
96) 4-Terphenyl-d14	10.687	244	17630	0.735	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.50%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-06.D
Acq On : 24 Sep 2024 04:07 pm
Operator : SV112:ek
Sample : L2453342-06,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 17:39:41 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-06.D
Acq On : 24 Sep 2024 04:07 pm
Operator : SV112:ek
Sample : L2453342-06,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 17:39:41 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	4622	0.262	ug/ml#	96
109) Di-n-octylphthalate	0.000		0	N.D.		

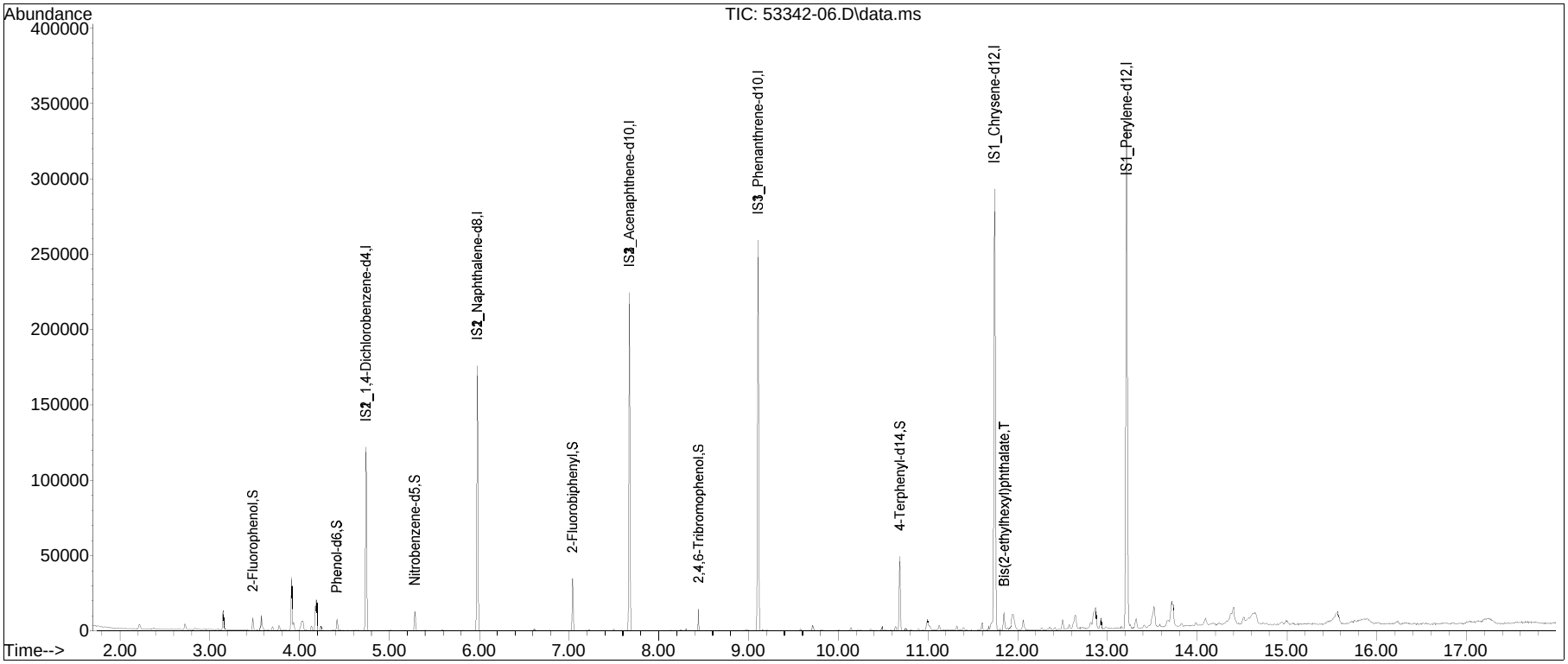
(#) = qualifier out of range (m) = manual integration (+) = signals summed

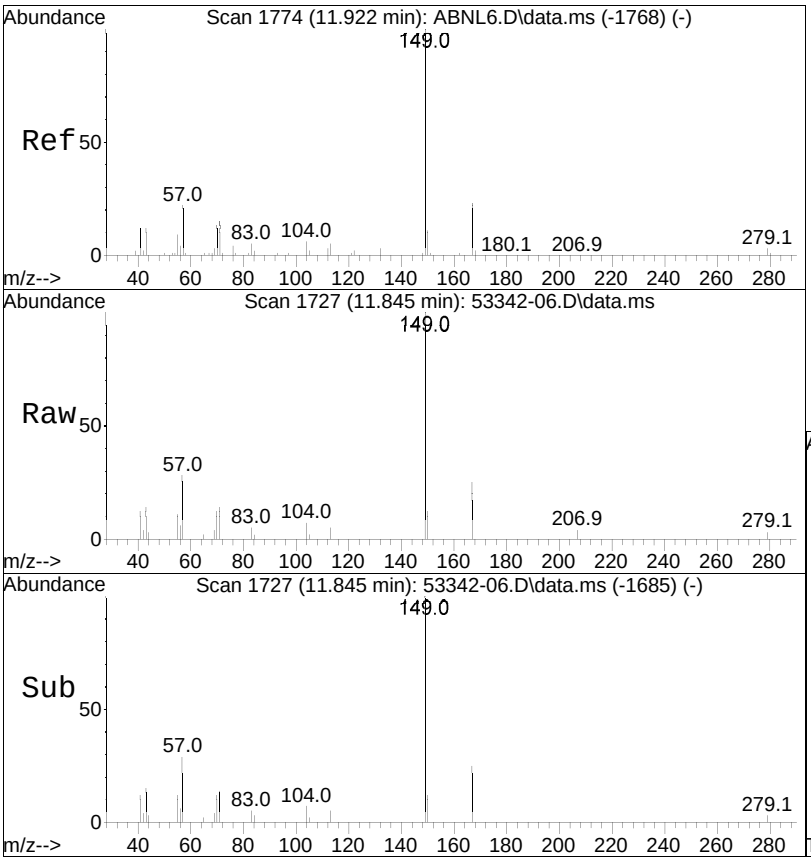
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-06.D
Acq On : 24 Sep 2024 04:07 pm
Operator : SV112:ek
Sample : L2453342-06,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 17:39:41 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

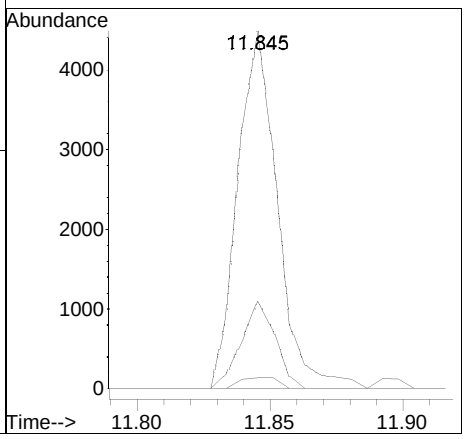




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.26 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. -0.000 min
Lab File: 53342-06.D
Acq: 24 Sep 2024 04:07 pm

Tgt Ion:149 Resp: 4622

Ion	Ratio	Lower	Upper
149	100		
167	21.2	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-06.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 4:07 pm	Instrument	: SV112
Sample	: L2453342-06,32,,gmr	Quant Date	: 9/24/2024 4:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-07.D
Acq On : 24 Sep 2024 04:30 pm
Operator : SV112:ek
Sample : L2453342-07,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 17:40:04 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	19589	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 110.14%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	19589	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 112.91%			
35) IS1_Naphthalene-d8	5.975	136	70749	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 106.56%			
55) IS2_Naphthalene-d8	5.975	136	70749	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 110.87%			
63) IS1_Acenaphthene-d10	7.675	164	43641	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 98.55%			
83) IS2_Acenaphthene-d10	7.675	164	43641	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 111.24%			
86) IS3_Acenaphthene-d10	7.675	164	43641	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 112.21%			
88) IS1_Phenanthrene-d10	9.104	188	93415	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 98.99%			
100) IS3_Phenanthrene-d10	9.104	188	93415	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 106.95%			
104) IS1_Chrysene-d12	11.740	240	109711	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 97.63%			
113) IS1_Perylene-d12	13.210	264	130833	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 99.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	4311	0.838	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.90%			
7) Phenol-d6	4.416	99	3537	0.532	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.60%			
19) Nitrobenzene-d5	5.281	82	3882	0.613	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.30%			
46) 2-Fluorobiphenyl	7.040	172	11255	0.704	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 70.40%			
79) 2,4,6-Tribromophenol	8.440	330	3993	1.425	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 71.25%			
96) 4-Terphenyl-d14	10.687	244	19602	0.816	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.60%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-07.D
Acq On : 24 Sep 2024 04:30 pm
Operator : SV112:ek
Sample : L2453342-07,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 17:40:04 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.428	94	2840	0.368	ug/ml	95
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-07.D
Acq On : 24 Sep 2024 04:30 pm
Operator : SV112:ek
Sample : L2453342-07,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 17:40:04 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.		
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	11.845	149	4414	0.252	ug/ml#	96
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

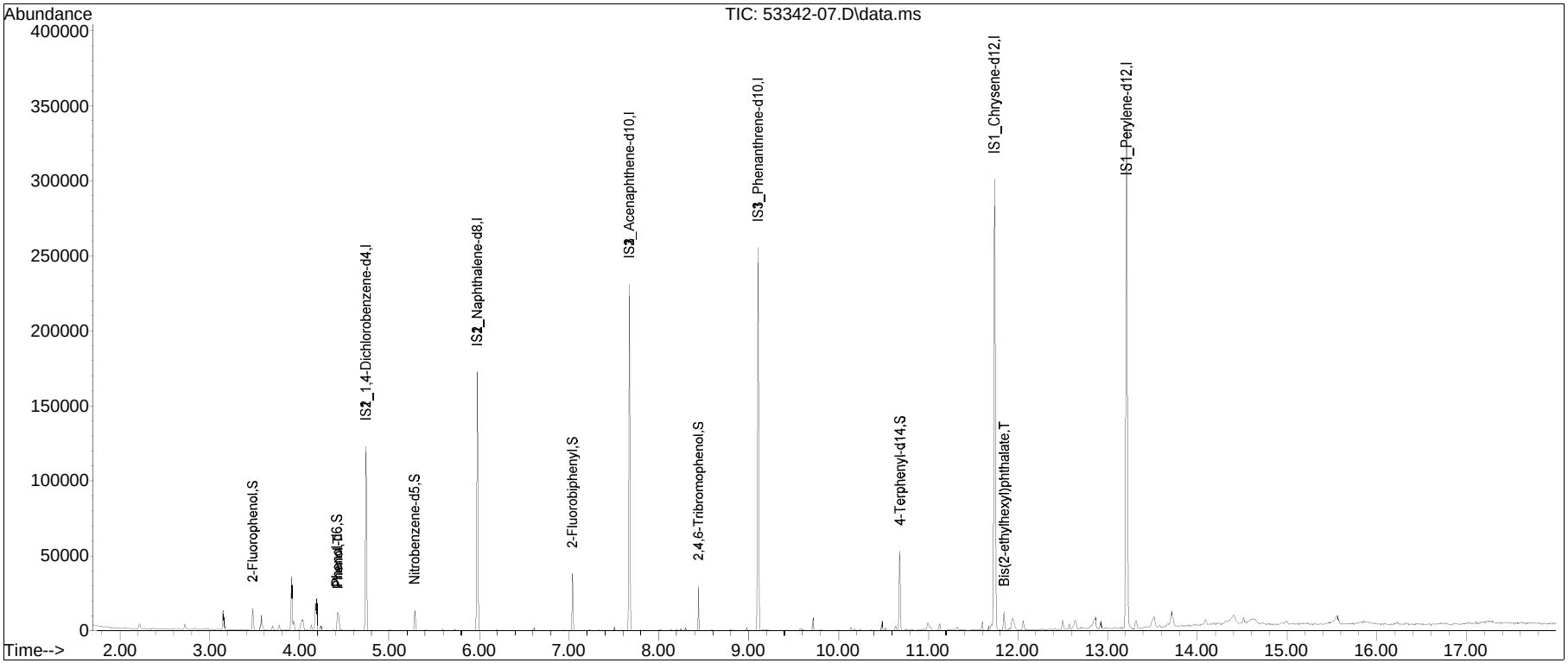
(#) = qualifier out of range (m) = manual integration (+) = signals summed

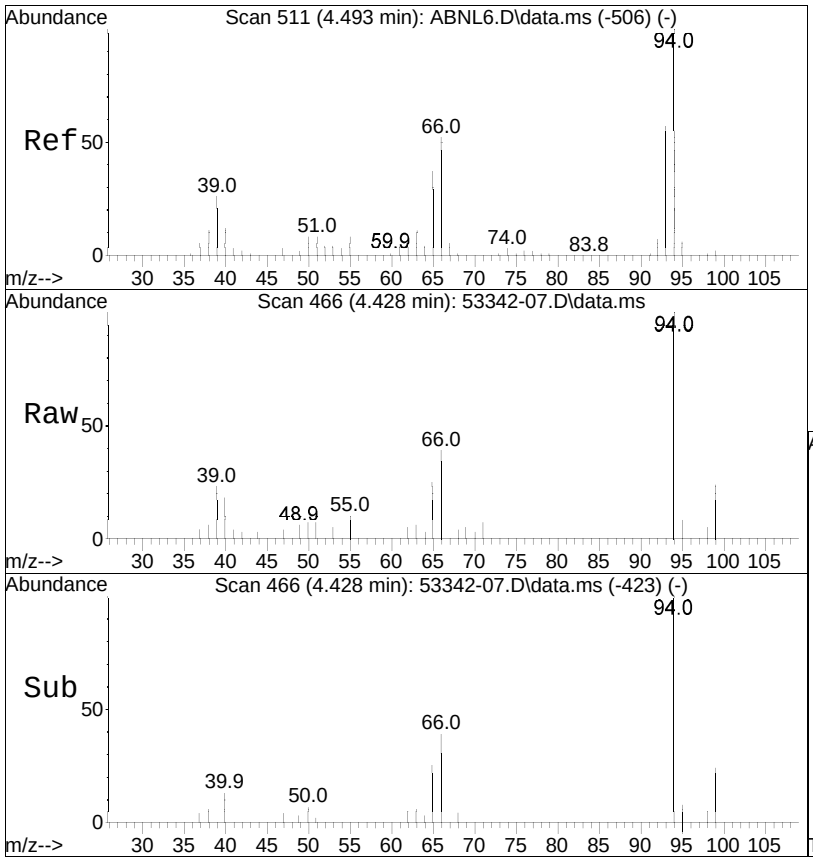
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-07.D
Acq On : 24 Sep 2024 04:30 pm
Operator : SV112:ek
Sample : L2453342-07,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 17:40:04 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

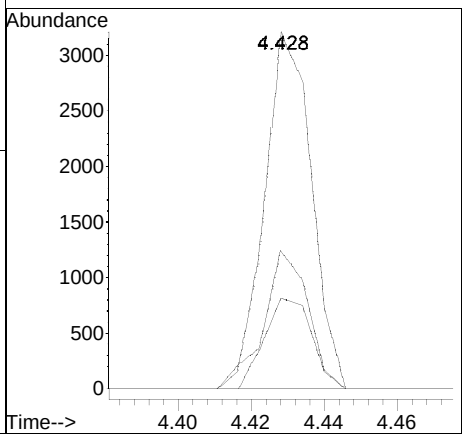


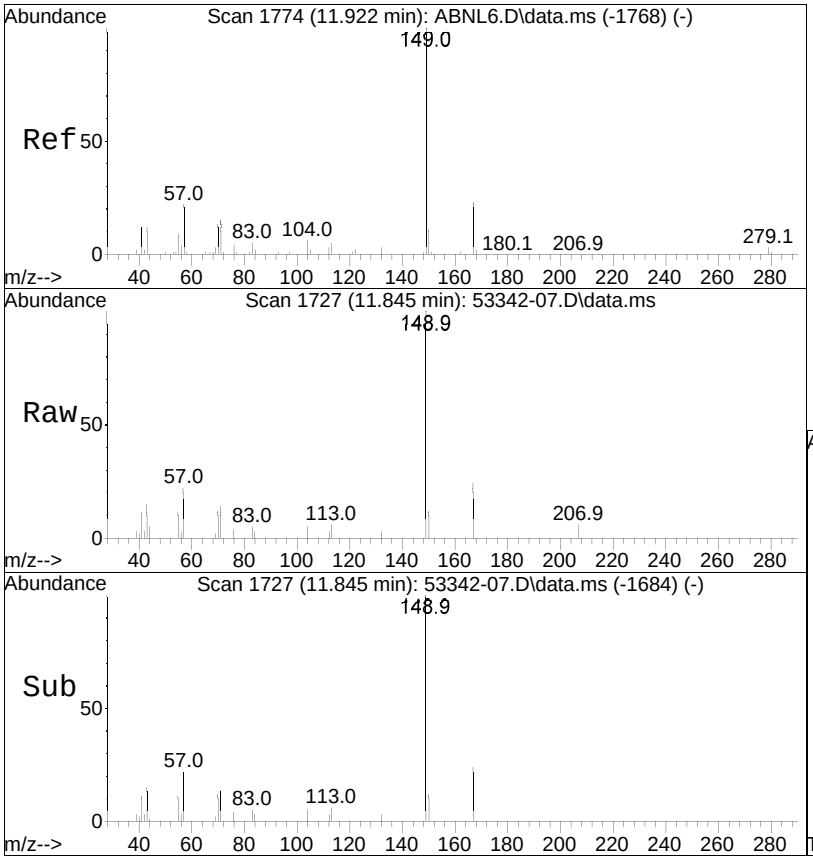


#8
Phenol
Concen: 0.37 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: 53342-07.D
Acq: 24 Sep 2024 04:30 pm

Tgt Ion: 94 Resp: 2840

Ion	Ratio	Lower	Upper
94	100		
65	25.7	23.0	34.6
66	36.9	32.1	48.1

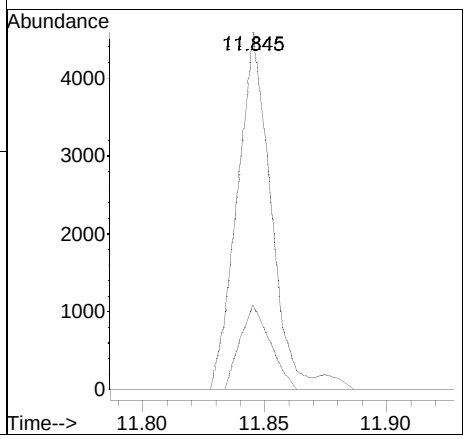




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.25 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-07.D
Acq: 24 Sep 2024 04:30 pm

Tgt Ion:149 Resp: 4414

Ion	Ratio	Lower	Upper
149	100		
167	21.0	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-07.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 4:30 pm	Instrument	: SV112
Sample	: L2453342-07,32,,gmr	Quant Date	: 9/24/2024 4:49 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-08.D
Acq On : 24 Sep 2024 04:53 pm
Operator : SV112:ek
Sample : L2453342-08,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 17:40:24 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	20283	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 114.04%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	20283	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 116.91%			
35) IS1_Naphthalene-d8	5.975	136	75728	4.000	ug/ml	# 0.00
Standard Area 1 = 66392			Recovery = 114.06%			
55) IS2_Naphthalene-d8	5.975	136	75728	4.000	ug/ml	# 0.00
Standard Area 3 = 63812			Recovery = 118.67%			
63) IS1_Acenaphthene-d10	7.675	164	46650	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 105.35%			
83) IS2_Acenaphthene-d10	7.675	164	46650	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 118.91%			
86) IS3_Acenaphthene-d10	7.675	164	46650	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 119.95%			
88) IS1_Phenanthrene-d10	9.104	188	101467	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 107.53%			
100) IS3_Phenanthrene-d10	9.104	188	101467	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 116.17%			
104) IS1_Chrysene-d12	11.739	240	115180	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 102.49%			
113) IS1_Perylene-d12	13.210	264	134984	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 102.15%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	3255	0.611	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.55%			
7) Phenol-d6	4.416	99	3015	0.438	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.90%			
19) Nitrobenzene-d5	5.281	82	3985	0.607	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.70%			
46) 2-Fluorobiphenyl	7.040	172	11474	0.670	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.00%			
79) 2,4,6-Tribromophenol	8.440	330	3090	1.032	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.60%			
96) 4-Terphenyl-d14	10.687	244	19978	0.766	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 76.60%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-08.D
Acq On : 24 Sep 2024 04:53 pm
Operator : SV112:ek
Sample : L2453342-08,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 17:40:24 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.428	94	2206	0.276	ug/ml	95
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-08.D
Acq On : 24 Sep 2024 04:53 pm
Operator : SV112:ek
Sample : L2453342-08,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 17:40:24 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	5986	0.325	ug/ml#	98
109) Di-n-octylphthalate	0.000		0	N.D.	d	

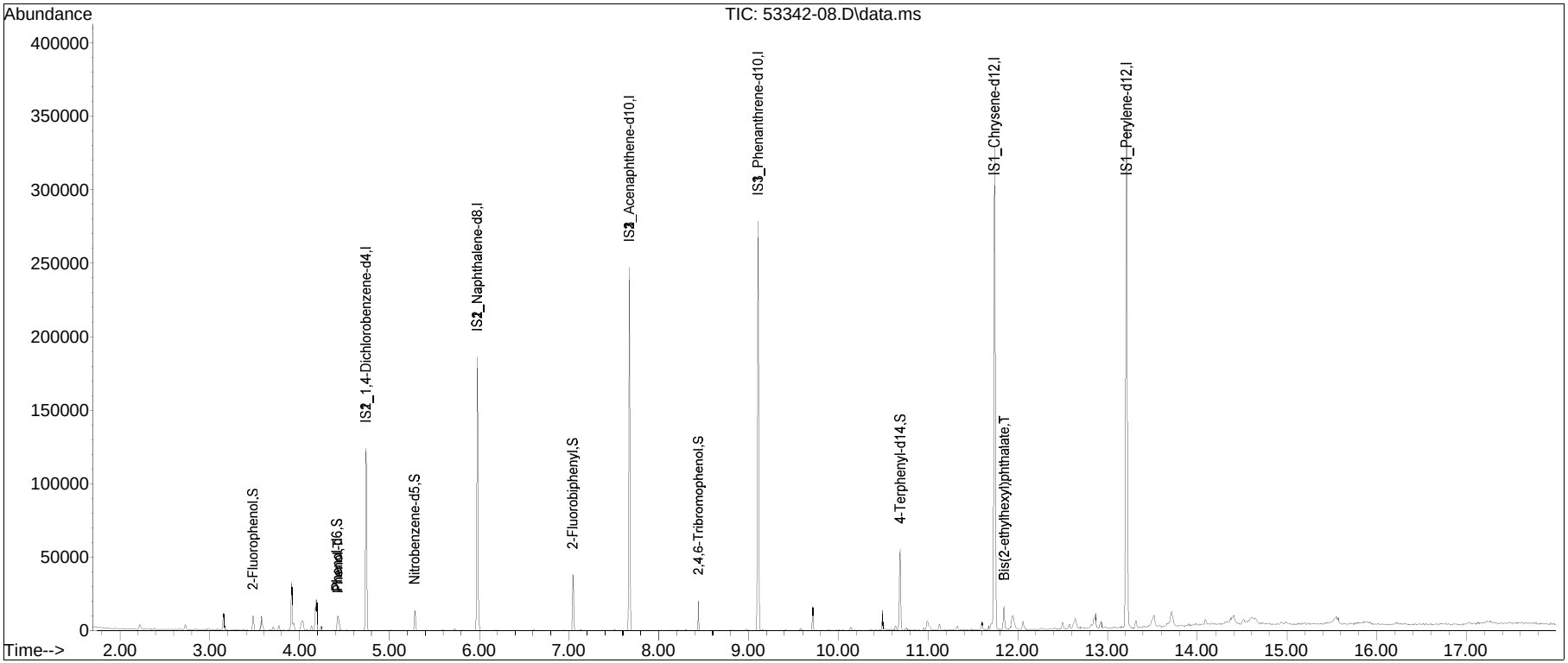
(#) = qualifier out of range (m) = manual integration (+) = signals summed

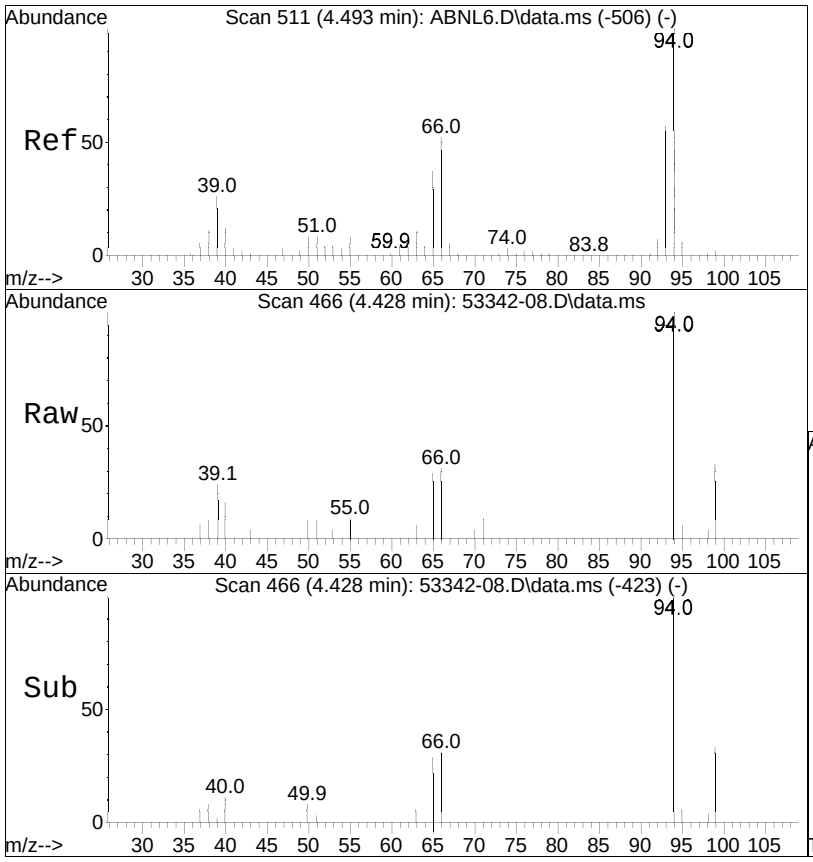
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-08.D
Acq On : 24 Sep 2024 04:53 pm
Operator : SV112:ek
Sample : L2453342-08,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 17:40:24 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

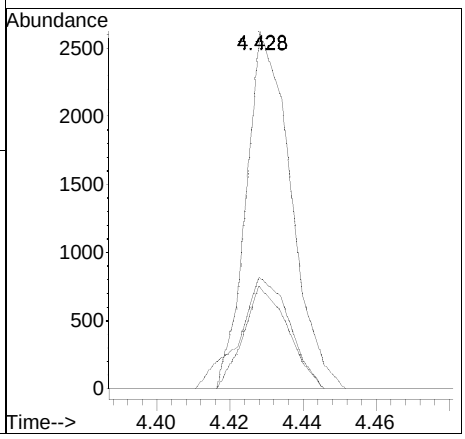


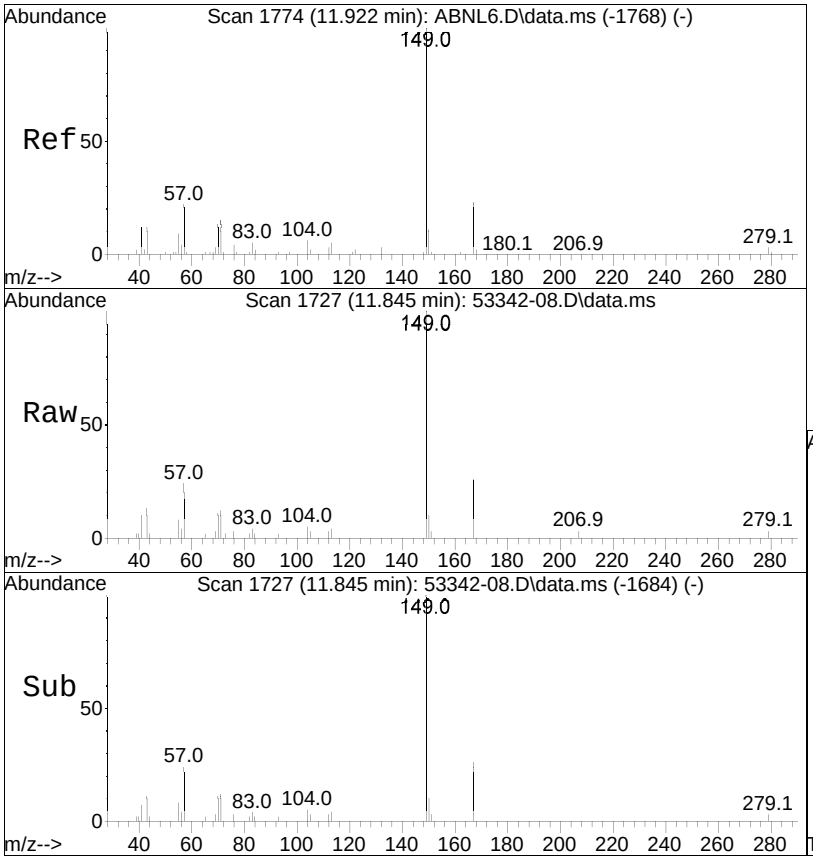


#8
Phenol
Concen: 0.28 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: 53342-08.D
Acq: 24 Sep 2024 04:53 pm

Tgt Ion: 94 Resp: 2206

Ion	Ratio	Lower	Upper
94	100		
65	28.6	23.0	34.6
66	35.4	32.1	48.1

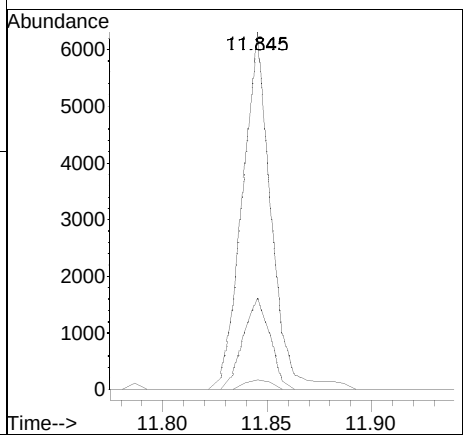




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.33 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-08.D
Acq: 24 Sep 2024 04:53 pm

Tgt Ion:149 Resp: 5986

Ion	Ratio	Lower	Upper
149	100		
167	24.0	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-08.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 4:53 pm	Instrument	: SV112
Sample	: L2453342-08,32,,gmr	Quant Date	: 9/24/2024 5:11 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-10.D
Acq On : 24 Sep 2024 05:15 pm
Operator : SV112:ek
Sample : L2453342-10,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 17:40:45 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.740	152	19429	4.000	ug/ml	0.00
Standard Area 1 = 17786			Recovery = 109.24%			
27) IS2_1,4-Dichlorobenzen...	4.740	152	19429	4.000	ug/ml	0.00
Standard Area 3 = 17349			Recovery = 111.99%			
35) IS1_Naphthalene-d8	5.975	136	70302	4.000	ug/ml	0.00
Standard Area 1 = 66392			Recovery = 105.89%			
55) IS2_Naphthalene-d8	5.975	136	70302	4.000	ug/ml	0.00
Standard Area 3 = 63812			Recovery = 110.17%			
63) IS1_Acenaphthene-d10	7.675	164	42910	4.000	ug/ml	0.00
Standard Area 1 = 44283			Recovery = 96.90%			
83) IS2_Acenaphthene-d10	7.675	164	42910	4.000	ug/ml	0.00
Standard Area 3 = 39230			Recovery = 109.38%			
86) IS3_Acenaphthene-d10	7.675	164	42910	4.000	ug/ml	0.00
Standard Area 2 = 38891			Recovery = 110.33%			
88) IS1_Phenanthrene-d10	9.104	188	92881	4.000	ug/ml	# 0.00
Standard Area 1 = 94364			Recovery = 98.43%			
100) IS3_Phenanthrene-d10	9.104	188	92881	4.000	ug/ml	# 0.00
Standard Area 2 = 87342			Recovery = 106.34%			
104) IS1_Chrysene-d12	11.739	240	112389	4.000	ug/ml	# 0.00
Standard Area 1 = 112377			Recovery = 100.01%			
113) IS1_Perylene-d12	13.210	264	131520	4.000	ug/ml	0.00
Standard Area 1 = 132148			Recovery = 99.52%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.475	112	4862	0.953	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 47.65%			
7) Phenol-d6	4.416	99	3952	0.600	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.00%			
19) Nitrobenzene-d5	5.281	82	3750	0.597	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.70%			
46) 2-Fluorobiphenyl	7.040	172	11135	0.700	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 70.00%			
79) 2,4,6-Tribromophenol	8.440	330	3873	1.406	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 70.30%			
96) 4-Terphenyl-d14	10.687	244	19302	0.808	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 80.80%			

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-10.D
Acq On : 24 Sep 2024 05:15 pm
Operator : SV112:ek
Sample : L2453342-10,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 17:40:45 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.428	94	3450	0.450	ug/ml	99
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-10.D
Acq On : 24 Sep 2024 05:15 pm
Operator : SV112:ek
Sample : L2453342-10,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 17:40:45 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	4176	0.233	ug/ml#	93
109) Di-n-octylphthalate	0.000		0	N.D.	d	

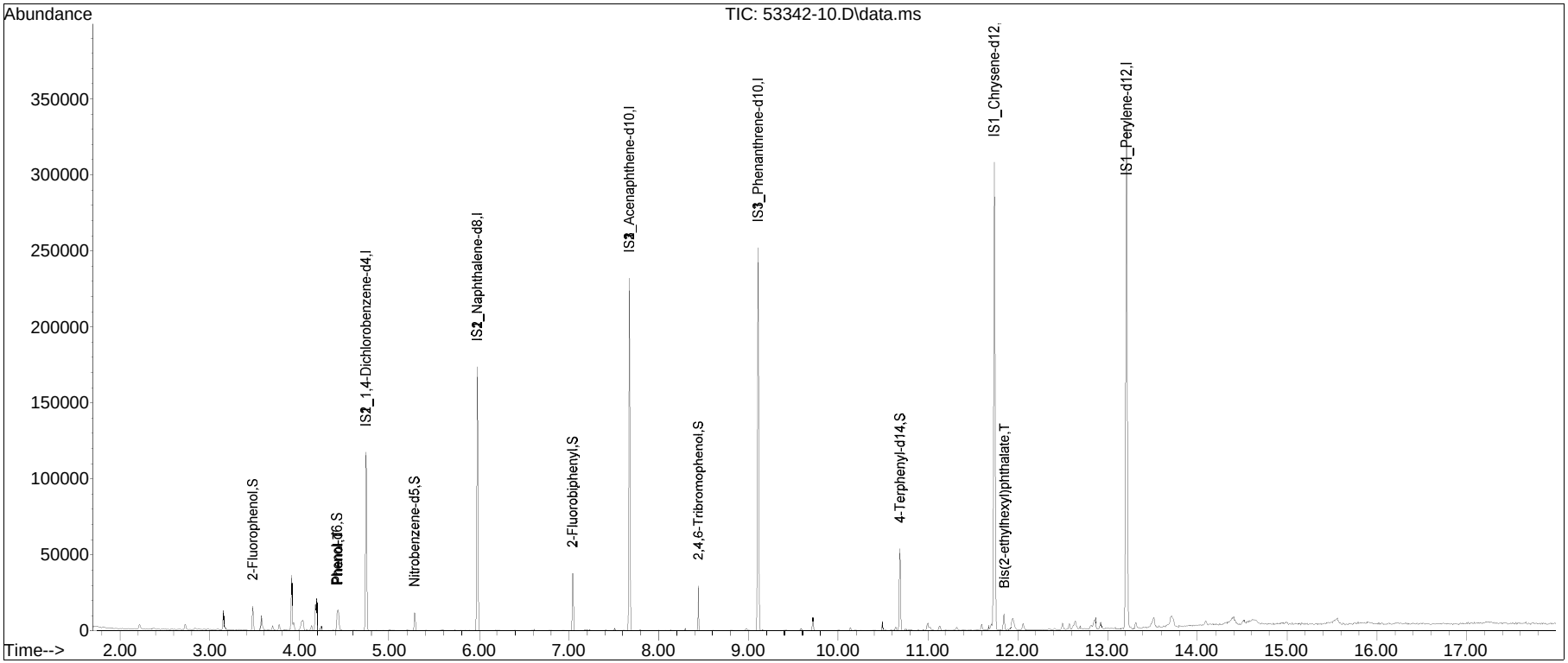
(#) = qualifier out of range (m) = manual integration (+) = signals summed

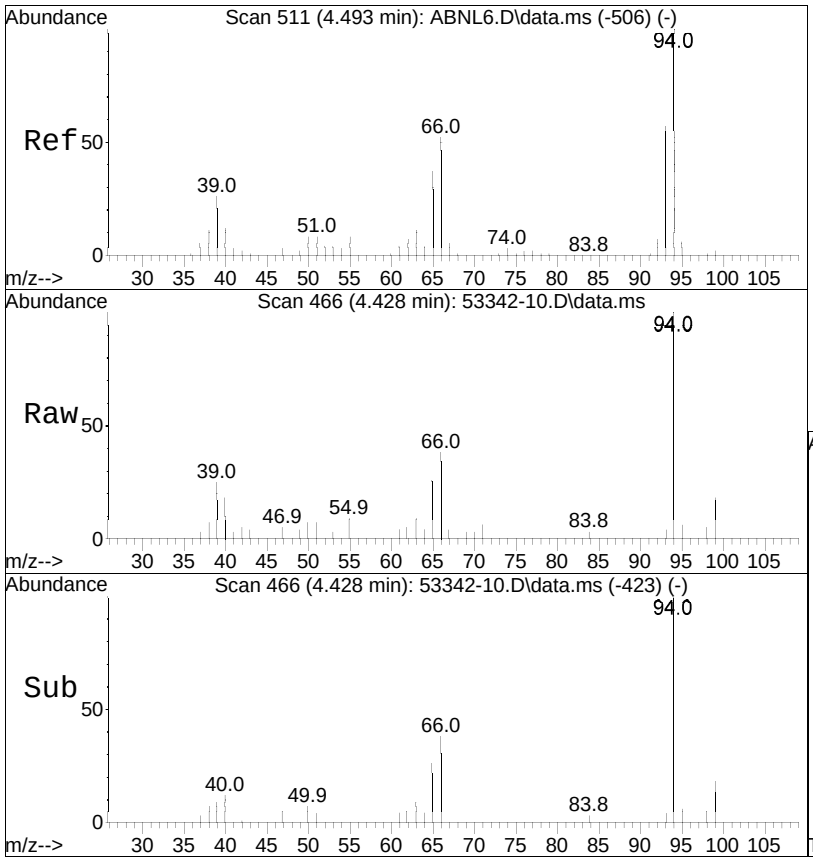
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 53342-10.D
Acq On : 24 Sep 2024 05:15 pm
Operator : SV112:ek
Sample : L2453342-10,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 17:40:45 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924a.D•

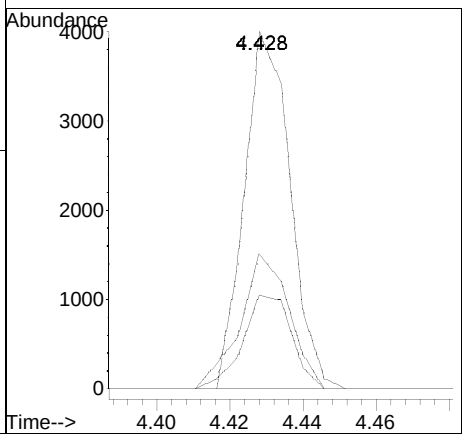


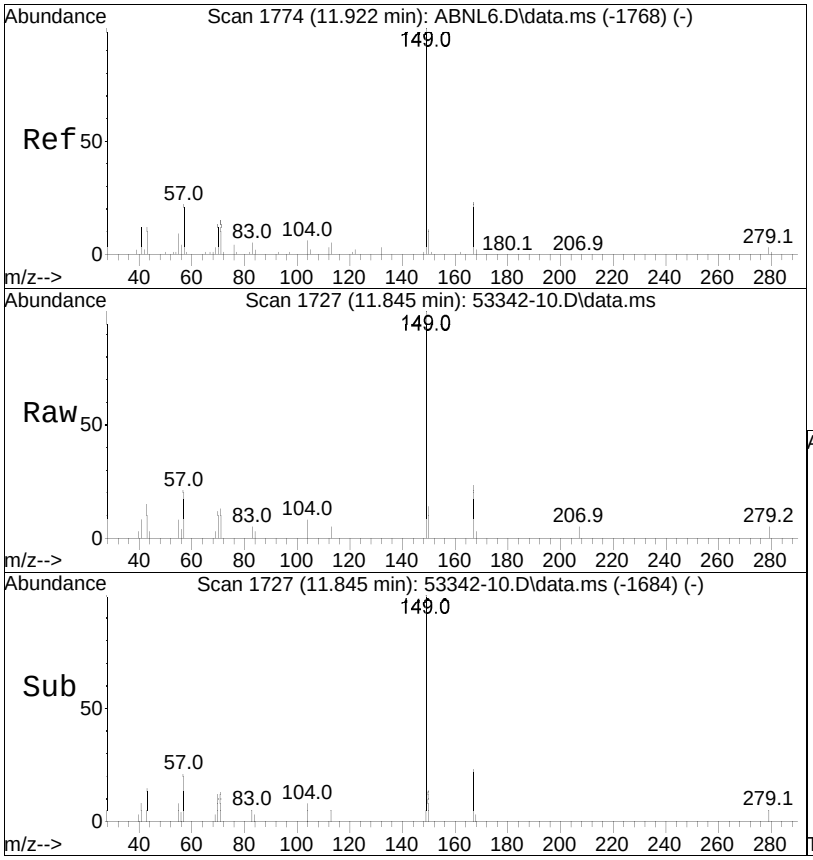


#8
Phenol
Concen: 0.45 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: 53342-10.D
Acq: 24 Sep 2024 05:15 pm

Tgt Ion: 94 Resp: 3450

Ion	Ratio	Lower	Upper
94	100		
65	28.2	23.0	34.6
66	40.5	32.1	48.1

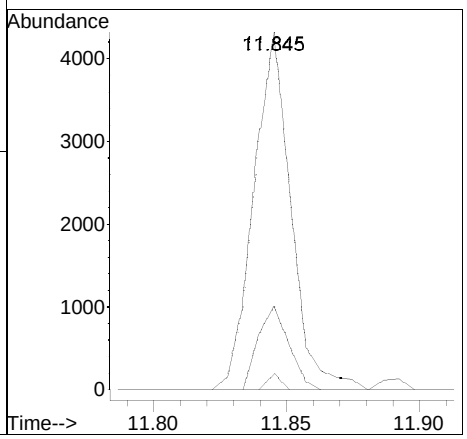




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.23 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 53342-10.D
Acq: 24 Sep 2024 05:15 pm

Tgt Ion:149 Resp: 4176

Ion	Ratio	Lower	Upper
149	100		
167	19.4	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 53342-10.D	Operator	: SV112:ek
Date Inj'd	: 9/24/2024 5:15 pm	Instrument	: SV112
Sample	: L2453342-10,32,,gmr	Quant Date	: 9/24/2024 5:34 pm

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	T	N-Nitrosodimethylamine	0.562	0.547	0.668	0.671	0.658	0.715	0.737	0.691	0.666	0.657	9.69
3)	T	Pyridine	0.765	0.804	1.096	1.064	1.020	1.187	1.214	1.164	1.068	1.043	15.30
4)	S	2-Fluorophenol	1.042	0.902	1.137	1.062	1.020	1.069	1.112	1.061	1.048	1.050	6.30
5)	T	Aniline	2.034	1.689	1.779	1.844	1.753	1.761	1.854	1.790	1.794	1.811	5.35
6)	T	2-Chlorophenol	1.446	1.123	1.293	1.241	1.188	1.224	1.274	1.223	1.242	1.251	7.06
7)	S	Phenol-d6	1.528	1.195	1.365	1.305	1.289	1.368	1.414	1.357	1.387	1.357	6.75
8)	T	Phenol	1.817	1.428	1.559	1.538	1.527	1.566	1.627	1.557	1.574	1.577	6.62
9)	T	bis(2-Chloroethyl)ether	1.421	1.058	1.219	1.151	1.143	1.120	1.163	1.115	1.115	1.167	8.96
10)	T	1,3-Dichlorobenzene	1.825	1.427	1.538	1.518	1.438	1.487	1.482	1.424	1.436	1.508	8.33
11)	T	1,4-Dichlorobenzene	1.923	1.640	1.694	1.536	1.486	1.486	1.516	1.438	1.453	1.575	9.88
12)	T	1,2-Dichlorobenzene	1.745	1.340	1.594	1.450	1.424	1.428	1.446	1.404	1.447	1.475	8.21
13)	T	Benzyl alcohol	0.853	0.833	0.903	0.958	0.947	0.948	1.013	1.009	1.039	0.945	7.55
14)	T	bis(2-chloroisopropyl)ether	1.542	1.444	1.529	1.423	1.507	1.427	1.472	1.462	1.466	1.475	2.91
15)	T	2-Methylphenol	1.068	0.979	1.057	1.054	1.005	1.051	1.101	1.074	1.118	1.056	4.08
16)	T	Hexachloroethane	0.605	0.534	0.540	0.589	0.515	0.542	0.556	0.550	0.587	0.558	5.34
17)	T	n-Nitrosodi-n-propylamine	0.857	0.797	0.848	0.850	0.863	0.844	0.894	0.895	0.940	0.865	4.65
18)	T	3-Methylphenol/4-Methylphenol	1.109	1.056	1.147	1.130	1.122	1.166	1.205	1.181	1.237	1.150	4.72
19)	S	Nitrobenzene-d5	1.364	1.174	1.284	1.255	1.256	1.289	1.357	1.316	1.350	1.294	4.73
20)	T	Nitrobenzene	1.374	1.167	1.255	1.249	1.268	1.288	1.348	1.313	1.342	1.289	4.92
21)	T	Isophorone	2.526	2.023	2.282	2.274	2.361	2.267	2.412	2.399	2.410	2.328	6.09
22)	T	2-Nitrophenol	0.572	0.455	0.543	0.529	0.574	0.574	0.614	0.643	0.665	0.574	10.96
23)	T	2,4-Dimethylphenol	1.050	0.967	1.174	1.119	1.111	1.004	1.135	1.146	1.205	1.101	7.16
24)	T	bis(2-Chloroethoxy)methane	1.755	1.546	1.604	1.513	1.557	1.463	1.547	1.531	1.587	1.567	5.19
25)	T	2,4-Dichlorophenol	1.200	1.008	1.072	1.112	1.136	1.123	1.219	1.218	1.285	1.153	7.42
26)	T	1,2,4-Trichlorobenzene	1.821	1.484	1.450	1.478	1.378	1.332	1.381	1.373	1.442	1.460	9.94
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.040	0.972	1.109	1.072	1.093	1.082	1.162	1.162	1.149	1.094	5.70
29)	T	Acetophenone	1.672	1.587	1.917	1.903	1.905	1.998	2.059	2.064	2.024	1.903	8.87
30)	T	m-Toluidine	1.624	1.422	1.775	1.781	1.812	1.920	2.030	2.045	2.045	1.828	11.53
31)	T	2-Chloroaniline	1.694	1.374	1.765	1.690	1.753	1.785	1.883	1.869	1.863	1.742	8.93
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.421	0.595	0.567	0.467	0.415	0.448	0.424	0.426	0.470	15.01
34)	T	n-Decane	1.220	0.970	1.192	1.255	1.127	1.060	1.191	1.145	1.149	1.145	7.58
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.266	1.035	1.152	1.087	1.005	0.997	1.043	0.966	0.888	1.049	10.49

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files

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

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	Benzoic Acid					0.129	0.163	0.217	0.243	0.251	*L	0.9992
38) T	4-Chloroaniline	0.080	0.126	0.116	0.116	0.123	0.117	0.126	0.128	0.129	0.118	12.79
39) T	Hexachlorobutadiene	0.283	0.225	0.275	0.254	0.226	0.226	0.241	0.236	0.246	0.246	8.74
40) T	p-Chloro-m-cresol	0.262	0.248	0.265	0.272	0.279	0.270	0.296	0.299	0.302	0.277	6.77
41) T	2-Methylnaphthalene	0.846	0.703	0.755	0.742	0.670	0.650	0.700	0.683	0.670	0.713	8.47
42) T	1-Methylnaphthalene	0.316	0.233	0.258	0.237	0.231	0.218	0.236	0.235	0.243	0.245	11.70
43) T	Hexachlorocyclopentadiene	0.245	0.228	0.273	0.253	0.241	0.226	0.253	0.261	0.279	0.251	7.32
44) T	2,4,6-Trichlorophenol	0.256	0.222	0.245	0.252	0.255	0.249	0.272	0.275	0.281	0.256	7.06
45) T	2,4,5-Trichlorophenol	0.242	0.215	0.272	0.252	0.257	0.258	0.278	0.287	0.301	0.262	9.81
46) S	2-Fluorobiphenyl	1.108	0.906	0.959	0.931	0.893	0.820	0.871	0.845	0.809	0.904	10.04
47) T	2-Chloronaphthalene	0.947	0.735	0.788	0.772	0.738	0.697	0.735	0.717	0.699	0.759	10.11
48) T	2-Nitroaniline	0.189	0.160	0.201	0.186	0.193	0.191	0.219	0.231	0.235	0.200	11.96
49) T	1,4-Dinitrobenzene	0.083	0.069	0.090	0.093	0.097	0.095	0.111	0.122	0.125	0.098	18.43
50) T	1,3-Dinitrobenzene	0.094	0.088	0.105	0.107	0.111	0.110	0.126	0.138	0.147	0.114	17.21
51) T	Dimethyl phthalate	1.140	0.882	1.009	0.933	0.924	0.827	0.876	0.885	0.829	0.923	10.69
52) T	Acenaphthylene	1.278	1.043	1.196	1.115	1.136	1.059	1.125	1.115	1.011	1.120	7.23
53) T	2,6-Dinitrotoluene	0.173	0.138	0.163	0.165	0.177	0.163	0.181	0.195	0.199	0.173	10.72
54) T	1,2-Dinitrobenzene			0.062	0.068	0.072	0.070	0.080	0.088	0.091	0.076	14.13
55) I	IS2_Naphthalene-d8	----------ISTD----------										
56) T	a-Terpineol	0.269	0.222	0.274	0.268	0.264	0.279	0.299	0.310	0.310	0.277	9.94
57) T	3-Chloroaniline		0.104	0.168	0.149	0.143	0.149	0.158	0.163	0.168	0.150	13.96
58) T	2,6-Dichlorophenol	0.313	0.261	0.306	0.302	0.317	0.335	0.366	0.365	0.371	0.326	11.19
59) T	1-chloro-2-nitrobenzene	0.113	0.111	0.143	0.146	0.133	0.146	0.162	0.167	0.168	0.143	14.67
60) T	Caprolactam				0.126	0.131	0.155	0.174	0.178	0.183	*L	0.9990
61) T	1,2,4,5-Tetrachlorobenzene	0.481	0.431	0.503	0.503	0.461	0.474	0.493	0.488	0.478	0.479	4.71
62) T	Biphenyl	1.095	0.927	1.090	1.060	1.016	1.018	1.066	1.031	0.935	1.026	5.96
63) I	IS1_Acenaphthene-d10	----------ISTD----------										
64) T	3-Nitroaniline	0.252	0.237	0.287	0.294	0.299	0.308	0.339	0.336	0.337	0.299	12.23
65) T	Acenaphthene	1.314	1.113	1.226	1.123	1.053	1.036	1.084	1.054	1.029	1.115	8.64
66) T	2,4-Dinitrophenol			0.079	0.095	0.133	0.147	0.168	0.191	0.195	*Q	0.9985
67) T	Dibenzofuran	2.211	1.799	2.086	1.945	1.751	1.726	1.777	1.698	1.542	1.837	11.29
68) T	2,4-Dinitrotoluene	0.319	0.294	0.352	0.365	0.387	0.389	0.418	0.459	0.468	0.383	15.30
69) T	4-Nitrophenol	0.317	0.249	0.284	0.274	0.264	0.286	0.308	0.313	0.311	0.290	8.32
70) T	2,3,5,6-Tetrachlorophenol	0.349	0.273	0.359	0.360	0.382	0.387	0.416	0.430	0.434	0.377	13.18
71) T	2,3,4,6-Tetrachlorophenol	0.327	0.272	0.371	0.360	0.389	0.365	0.400	0.421	0.424	0.370	12.93
72) T	Diethyl phthalate	1.798	1.445	1.599	1.494	1.494	1.341	1.413	1.434	1.361	1.487	9.42

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	Fluorene	1.722	1.358	1.548	1.423	1.385	1.344	1.395	1.386	1.317	1.431	8.89	
74)	T	4-Chlorophenyl-phenylether	0.957	0.826	0.818	0.791	0.738	0.691	0.715	0.740	0.741	0.780	10.31	
75)	T	4-Nitroaniline	0.243	0.230	0.295	0.325	0.330	0.334	0.361	0.368	0.344	0.314	15.56	
76)	T	4,6-Dinitro-o-cresol		0.090	0.161	0.181	0.205	0.204	0.232	0.261	0.263		*L	0.9966
77)	T	NDPA/DPA	1.445	1.148	1.297	1.268	1.198	1.152	1.215	1.205	1.148	1.231	7.78	
78)	T	Azobenzene	1.524	1.129	1.373	1.336	1.302	1.260	1.305	1.296	1.220	1.305	8.30	
79)	S	2,4,6-Tribromophenol			0.253	0.239	0.249	0.236	0.255	0.277	0.288	0.257	7.47	
80)	T	4-Bromophenyl-phenylether	0.639	0.500	0.517	0.492	0.471	0.440	0.462	0.485	0.490	0.500	11.37	
81)	T	Hexachlorobenzene	0.879	0.616	0.680	0.640	0.584	0.529	0.554	0.574	0.592	0.628	16.66	
82)	T	Pentachlorophenol			0.259	0.272	0.303	0.302	0.345	0.384	0.391	0.322	16.23	
83)	I	IS2_Acenaphthene-d10	----------ISTD----------											
84)	T	Dichloran				0.160	0.184	0.198	0.225	0.256	0.269		*L	0.9964
85)	T	Pentachloronitrobenzene			0.200	0.205	0.213	0.226	0.246	0.272	0.282	0.235	13.89	
86)	I	IS3_Acenaphthene-d10	----------ISTD----------											
87)	T	Atrazine	0.389	0.299	0.438	0.468	0.450	0.397	0.506	0.509	0.516	0.441	16.04	
88)	I	IS1_Phenanthrene-d10	----------ISTD----------											
89)	T	Phenanthrene	1.320	1.071	1.173	1.090	1.015	1.012	1.045	0.947	0.850	1.058	12.62	
90)	T	Anthracene	1.256	1.017	1.087	1.043	1.001	0.996	1.069	0.971	0.876	1.035	9.97	
91)	T	Carbazole	1.052	0.896	1.012	0.948	0.942	0.948	1.001	0.904	0.827	0.948	7.18	
92)	T	Di-n-butylphthalate	1.109	0.955	1.058	1.048	1.078	0.981	1.100	1.066	0.910	1.034	6.68	
93)	T	Fluoranthene	1.499	1.186	1.326	1.251	1.214	1.178	1.266	1.147	0.982	1.228	11.39	
94)	T	Benzidine	0.637	0.494	0.641	0.646	0.698	0.700	0.797	0.760	0.702	0.675	12.87	
95)	T	Pyrene	1.601	1.214	1.406	1.321	1.304	1.289	1.345	1.209	1.024	1.301	12.03	
96)	S	4-Terphenyl-d14	1.228	0.991	1.112	1.049	1.046	0.959	1.026	0.978	0.869	1.029	9.83	
97)	T	Butyl benzyl phthalate	0.487	0.361	0.434	0.413	0.452	0.421	0.491	0.535	0.524	0.458	12.35	
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid	0.509	0.383	0.468	0.508	0.502	0.532	0.578	0.597	0.558	0.515	12.43	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.312	0.243	0.299	0.318	0.319	0.280	0.358	0.350	0.355	0.315	12.02	
102)	T	Parathion		0.054	0.076	0.080	0.077	0.074	0.098	0.109	0.122		*Q	0.9982
103)	T	3,3'-Dimethylbenzidine			0.593	0.660	0.700	0.676	0.865	0.857	0.806		*L	0.9971
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.601	1.212	1.376	1.301	1.272	1.244	1.317	1.203	1.034	1.284	11.88	
106)	T	3,3'-Dichlorobenzidine	0.484	0.379	0.450	0.441	0.460	0.466	0.523	0.512	0.497	0.468	9.31	
107)	T	Chrysene	1.675	1.240	1.402	1.329	1.232	1.205	1.249	1.091	0.910	1.259	16.66	
108)	T	bis(2-Ethylhexyl)phthalate	0.620	0.525	0.597	0.603	0.661	0.610	0.702	0.753	0.677	0.639	10.51	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL21241**
Calibration dates	**: 06/25/24 20:18 06/26/24 07:31**		

Calibration Files

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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate	0.924	0.768	0.917	0.888	1.018	0.992	1.151	1.177	0.974	0.979	13.03
110)	T	Benzo(b)fluoranthene	1.582	1.244	1.467	1.388	1.283	1.299	1.315	1.163	1.116	1.317	11.01
111)	T	Benzo(k)fluoranthene	1.265	1.114	1.303	1.202	1.228	1.278	1.375	1.175	0.881	1.202	11.84
112)	T	Benzo(a)pyrene	1.261	1.054	1.246	1.174	1.126	1.174	1.245	1.108	0.956	1.149	8.76
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.192	0.988	1.118	1.057	1.007	1.143	1.162	1.212	1.186	1.118	7.36
115)	T	Dibenzo[a,h]anthracene	1.040	0.931	1.151	1.098	1.025	1.080	1.151	1.109	1.027	1.068	6.60
116)	T	Benzo(g,h,i)perylene	1.205	1.041	1.145	1.079	1.012	1.062	1.104	1.049	1.001	1.078	6.06

Response Factor Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	T	N-Nitrosodimethylamine	0.562	0.547	0.668	0.671	0.658	0.715	0.737	0.691	0.666	0.657	9.69
3)	T	Pyridine	0.765	0.804	1.096	1.064	1.020	1.187	1.214	1.164	1.068	1.043	15.30
4)	S	2-Fluorophenol	1.042	0.902	1.137	1.062	1.020	1.069	1.112	1.061	1.048	1.050	6.30
5)	T	Aniline	2.034	1.689	1.779	1.844	1.753	1.761	1.854	1.790	1.794	1.811	5.35
6)	T	2-Chlorophenol	1.446	1.123	1.293	1.241	1.188	1.224	1.274	1.223	1.242	1.251	7.06
7)	S	Phenol-d6	1.528	1.195	1.365	1.305	1.289	1.368	1.414	1.357	1.387	1.357	6.75
8)	T	Phenol	1.817	1.428	1.559	1.538	1.527	1.566	1.627	1.557	1.574	1.577	6.62
9)	T	bis(2-Chloroethyl)ether	1.421	1.058	1.219	1.151	1.143	1.120	1.163	1.115	1.115	1.167	8.96
10)	T	1,3-Dichlorobenzene	1.825	1.427	1.538	1.518	1.438	1.487	1.482	1.424	1.436	1.508	8.33
11)	T	1,4-Dichlorobenzene	1.923	1.640	1.694	1.536	1.486	1.486	1.516	1.438	1.453	1.575	9.88
12)	T	1,2-Dichlorobenzene	1.745	1.340	1.594	1.450	1.424	1.428	1.446	1.404	1.447	1.475	8.21
13)	T	Benzyl alcohol	0.853	0.833	0.903	0.958	0.947	0.948	1.013	1.009	1.039	0.945	7.55
14)	T	bis(2-chloroisopropyl)ether	1.542	1.444	1.529	1.423	1.507	1.427	1.472	1.462	1.466	1.475	2.91
15)	T	2-Methylphenol	1.068	0.979	1.057	1.054	1.005	1.051	1.101	1.074	1.118	1.056	4.08
16)	T	Hexachloroethane	0.605	0.534	0.540	0.589	0.515	0.542	0.556	0.550	0.587	0.558	5.34
17)	T	n-Nitrosodi-n-propylamine	0.857	0.797	0.848	0.850	0.863	0.844	0.894	0.895	0.940	0.865	4.65
18)	T	3-Methylphenol/4-Methylphenol	1.109	1.056	1.147	1.130	1.122	1.166	1.205	1.181	1.237	1.150	4.72
19)	S	Nitrobenzene-d5	1.364	1.174	1.284	1.255	1.256	1.289	1.357	1.316	1.350	1.294	4.73
20)	T	Nitrobenzene	1.374	1.167	1.255	1.249	1.268	1.288	1.348	1.313	1.342	1.289	4.92
21)	T	Isophorone	2.526	2.023	2.282	2.274	2.361	2.267	2.412	2.399	2.410	2.328	6.09
22)	T	2-Nitrophenol	0.572	0.455	0.543	0.529	0.574	0.574	0.614	0.643	0.665	0.574	10.96
23)	T	2,4-Dimethylphenol	1.050	0.967	1.174	1.119	1.111	1.004	1.135	1.146	1.205	1.101	7.16
24)	T	bis(2-Chloroethoxy)methane	1.755	1.546	1.604	1.513	1.557	1.463	1.547	1.531	1.587	1.567	5.19
25)	T	2,4-Dichlorophenol	1.200	1.008	1.072	1.112	1.136	1.123	1.219	1.218	1.285	1.153	7.42
26)	T	1,2,4-Trichlorobenzene	1.821	1.484	1.450	1.478	1.378	1.332	1.381	1.373	1.442	1.460	9.94
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.040	0.972	1.109	1.072	1.093	1.082	1.162	1.162	1.149	1.094	5.70
29)	T	Acetophenone	1.672	1.587	1.917	1.903	1.905	1.998	2.059	2.064	2.024	1.903	8.87
30)	T	m-Toluidine	1.624	1.422	1.775	1.781	1.812	1.920	2.030	2.045	2.045	1.828	11.53
31)	T	2-Chloroaniline	1.694	1.374	1.765	1.690	1.753	1.785	1.883	1.869	1.863	1.742	8.93
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.421	0.595	0.567	0.467	0.415	0.448	0.424	0.426	0.470	15.01
34)	T	n-Decane	1.220	0.970	1.192	1.255	1.127	1.060	1.191	1.145	1.149	1.145	7.58
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.266	1.035	1.152	1.087	1.005	0.997	1.043	0.966	0.888	1.049	10.49
37)	T	Benzoic Acid					0.129	0.163	0.217	0.243	0.251	*L	0.9992
38)	T	4-Chloroaniline	0.080	0.126	0.116	0.116	0.123	0.117	0.126	0.128	0.129	0.118	12.79
39)	T	Hexachlorobutadiene	0.283	0.225	0.275	0.254	0.226	0.226	0.241	0.236	0.246	0.246	8.74
40)	T	p-Chloro-m-cresol	0.262	0.248	0.265	0.272	0.279	0.270	0.296	0.299	0.302	0.277	6.77
41)	T	2-Methylnaphthalene	0.846	0.703	0.755	0.742	0.670	0.650	0.700	0.683	0.670	0.713	8.47
42)	T	1-Methylnaphthalene	0.316	0.233	0.258	0.237	0.231	0.218	0.236	0.235	0.243	0.245	11.70
43)	T	Hexachlorocyclopentadiene	0.245	0.228	0.273	0.253	0.241	0.226	0.253	0.261	0.279	0.251	7.32
44)	T	2,4,6-Trichlorophenol	0.256	0.222	0.245	0.252	0.255	0.249	0.272	0.275	0.281	0.256	7.06
45)	T	2,4,5-Trichlorophenol	0.242	0.215	0.272	0.252	0.257	0.258	0.278	0.287	0.301	0.262	9.81

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.108	0.906	0.959	0.931	0.893	0.820	0.871	0.845	0.809	0.904	10.04
47)	T	2-Chloronaphthalene	0.947	0.735	0.788	0.772	0.738	0.697	0.735	0.717	0.699	0.759	10.11
48)	T	2-Nitroaniline	0.189	0.160	0.201	0.186	0.193	0.191	0.219	0.231	0.235	0.200	11.96
49)	T	1,4-Dinitrobenzene	0.083	0.069	0.090	0.093	0.097	0.095	0.111	0.122	0.125	0.098	18.43
50)	T	1,3-Dinitrobenzene	0.094	0.088	0.105	0.107	0.111	0.110	0.126	0.138	0.147	0.114	17.21
51)	T	Dimethyl phthalate	1.140	0.882	1.009	0.933	0.924	0.827	0.876	0.885	0.829	0.923	10.69
52)	T	Acenaphthylene	1.278	1.043	1.196	1.115	1.136	1.059	1.125	1.115	1.011	1.120	7.23
53)	T	2,6-Dinitrotoluene	0.173	0.138	0.163	0.165	0.177	0.163	0.181	0.195	0.199	0.173	10.72
54)	T	1,2-Dinitrobenzene			0.062	0.068	0.072	0.070	0.080	0.088	0.091	0.076	14.13
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.269	0.222	0.274	0.268	0.264	0.279	0.299	0.310	0.310	0.277	9.94
57)	T	3-Chloroaniline		0.104	0.168	0.149	0.143	0.149	0.158	0.163	0.168	0.150	13.96
58)	T	2,6-Dichlorophenol	0.313	0.261	0.306	0.302	0.317	0.335	0.366	0.365	0.371	0.326	11.19
59)	T	1-chloro-2-nitrobenzene	0.113	0.111	0.143	0.146	0.133	0.146	0.162	0.167	0.168	0.143	14.67
60)	T	Caprolactam				0.126	0.131	0.155	0.174	0.178	0.183	*L	0.9990
61)	T	1,2,4,5-Tetrachlorobenzene	0.481	0.431	0.503	0.503	0.461	0.474	0.493	0.488	0.478	0.479	4.71
62)	T	Biphenyl	1.095	0.927	1.090	1.060	1.016	1.018	1.066	1.031	0.935	1.026	5.96
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.252	0.237	0.287	0.294	0.299	0.308	0.339	0.336	0.337	0.299	12.23
65)	T	Acenaphthene	1.314	1.113	1.226	1.123	1.053	1.036	1.084	1.054	1.029	1.115	8.64
66)	T	2,4-Dinitrophenol			0.079	0.095	0.133	0.147	0.168	0.191	0.195	*Q	0.9985
67)	T	Dibenzofuran	2.211	1.799	2.086	1.945	1.751	1.726	1.777	1.698	1.542	1.837	11.29
68)	T	2,4-Dinitrotoluene	0.319	0.294	0.352	0.365	0.387	0.389	0.418	0.459	0.468	0.383	15.30
69)	T	4-Nitrophenol	0.317	0.249	0.284	0.274	0.264	0.286	0.308	0.313	0.311	0.290	8.32
70)	T	2,3,5,6-Tetrachlorophenol	0.349	0.273	0.359	0.360	0.382	0.387	0.416	0.430	0.434	0.377	13.18
71)	T	2,3,4,6-Tetrachlorophenol	0.327	0.272	0.371	0.360	0.389	0.365	0.400	0.421	0.424	0.370	12.93
72)	T	Diethyl phthalate	1.798	1.445	1.599	1.494	1.494	1.341	1.413	1.434	1.361	1.487	9.42
73)	T	Fluorene	1.722	1.358	1.548	1.423	1.385	1.344	1.395	1.386	1.317	1.431	8.89
74)	T	4-Chlorophenyl-phenylether	0.957	0.826	0.818	0.791	0.738	0.691	0.715	0.740	0.741	0.780	10.31
75)	T	4-Nitroaniline	0.243	0.230	0.295	0.325	0.330	0.334	0.361	0.368	0.344	0.314	15.56
76)	T	4,6-Dinitro-o-cresol		0.090	0.161	0.181	0.205	0.204	0.232	0.261	0.263	*L	0.9966
77)	T	NDPA/DPA	1.445	1.148	1.297	1.268	1.198	1.152	1.215	1.205	1.148	1.231	7.78
78)	T	Azobenzene	1.524	1.129	1.373	1.336	1.302	1.260	1.305	1.296	1.220	1.305	8.30
79)	S	2,4,6-Tribromophenol			0.253	0.239	0.249	0.236	0.255	0.277	0.288	0.257	7.47
80)	T	4-Bromophenyl-phenylether	0.639	0.500	0.517	0.492	0.471	0.440	0.462	0.485	0.490	0.500	11.37
81)	T	Hexachlorobenzene	0.879	0.616	0.680	0.640	0.584	0.529	0.554	0.574	0.592	0.628	16.66
82)	T	Pentachlorophenol			0.259	0.272	0.303	0.302	0.345	0.384	0.391	0.322	16.23
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.160	0.184	0.198	0.225	0.256	0.269	*L	0.9964
85)	T	Pentachloronitrobenzene			0.200	0.205	0.213	0.226	0.246	0.272	0.282	0.235	13.89
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.389	0.299	0.438	0.468	0.450	0.397	0.506	0.509	0.516	0.441	16.04
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.320	1.071	1.173	1.090	1.015	1.012	1.045	0.947	0.850	1.058	12.62
90)	T	Anthracene	1.256	1.017	1.087	1.043	1.001	0.996	1.069	0.971	0.876	1.035	9.97

Response Factor Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jul 01 06:16:22 2024
Response Via : Initial Calibration

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

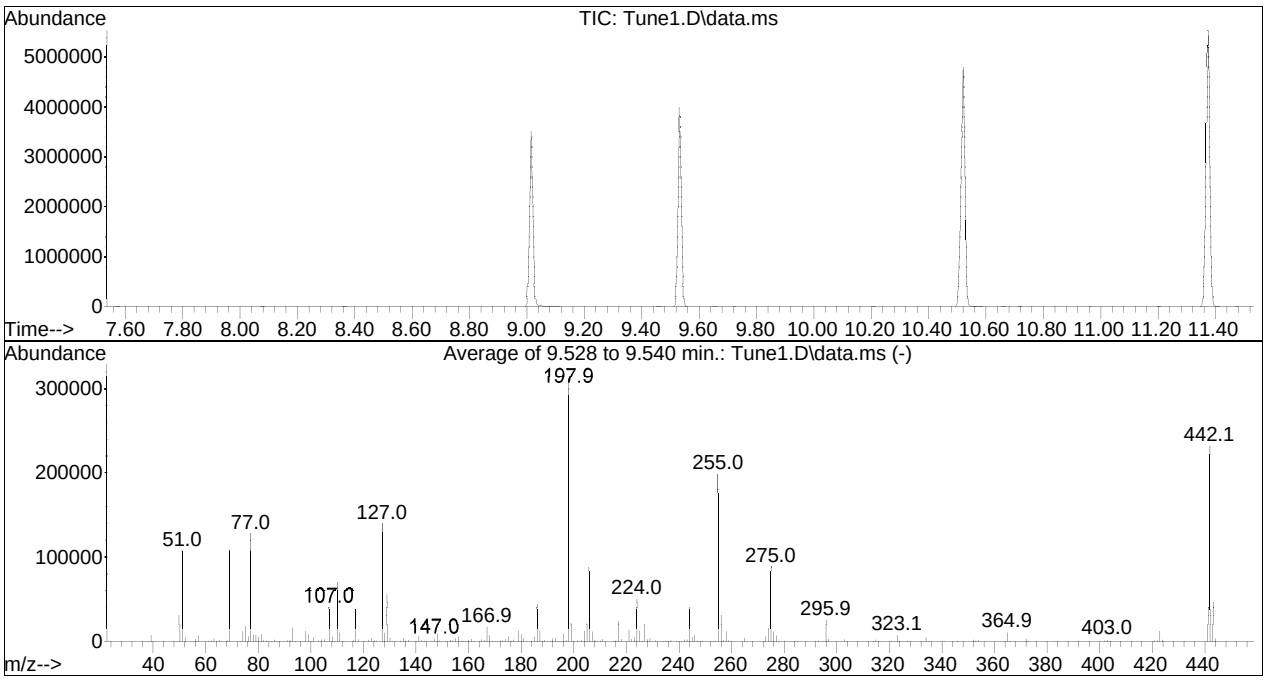
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	1.052	0.896	1.012	0.948	0.942	0.948	1.001	0.904	0.827	0.948	7.18
92)	T	Di-n-butylphthalate	1.109	0.955	1.058	1.048	1.078	0.981	1.100	1.066	0.910	1.034	6.68
93)	T	Fluoranthene	1.499	1.186	1.326	1.251	1.214	1.178	1.266	1.147	0.982	1.228	11.39
94)	T	Benzidine	0.637	0.494	0.641	0.646	0.698	0.700	0.797	0.760	0.702	0.675	12.87
95)	T	Pyrene	1.601	1.214	1.406	1.321	1.304	1.289	1.345	1.209	1.024	1.301	12.03
96)	S	4-Terphenyl-d14	1.228	0.991	1.112	1.049	1.046	0.959	1.026	0.978	0.869	1.029	9.83
97)	T	Butyl benzyl phthalate	0.487	0.361	0.434	0.413	0.452	0.421	0.491	0.535	0.524	0.458	12.35
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.509	0.383	0.468	0.508	0.502	0.532	0.578	0.597	0.558	0.515	12.43
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.312	0.243	0.299	0.318	0.319	0.280	0.358	0.350	0.355	0.315	12.02
102)	T	Parathion		0.054	0.076	0.080	0.077	0.074	0.098	0.109	0.122	*Q	0.9982
103)	T	3,3'-Dimethylbenzidine			0.593	0.660	0.700	0.676	0.865	0.857	0.806	*L	0.9971
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.601	1.212	1.376	1.301	1.272	1.244	1.317	1.203	1.034	1.284	11.88
106)	T	3,3'-Dichlorobenzidine	0.484	0.379	0.450	0.441	0.460	0.466	0.523	0.512	0.497	0.468	9.31
107)	T	Chrysene	1.675	1.240	1.402	1.329	1.232	1.205	1.249	1.091	0.910	1.259	16.66
108)	T	bis(2-Ethylhexyl)phthalate	0.620	0.525	0.597	0.603	0.661	0.610	0.702	0.753	0.677	0.639	10.51
109)	T	Di-n-octylphthalate	0.924	0.768	0.917	0.888	1.018	0.992	1.151	1.177	0.974	0.979	13.03
110)	T	Benzo(b)fluoranthene	1.582	1.244	1.467	1.388	1.283	1.299	1.315	1.163	1.116	1.317	11.01
111)	T	Benzo(k)fluoranthene	1.265	1.114	1.303	1.202	1.228	1.278	1.375	1.175	0.881	1.202	11.84
112)	T	Benzo(a)pyrene	1.261	1.054	1.246	1.174	1.126	1.174	1.245	1.108	0.956	1.149	8.76
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.192	0.988	1.118	1.057	1.007	1.143	1.162	1.212	1.186	1.118	7.36
115)	T	Dibenzo[a,h]anthracene	1.040	0.931	1.151	1.098	1.025	1.080	1.151	1.109	1.027	1.068	6.60
116)	T	Benzo(g,h,i)perylene	1.205	1.041	1.145	1.079	1.012	1.062	1.104	1.049	1.001	1.078	6.06

(#) = Out of Range

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 21:26:04 2024



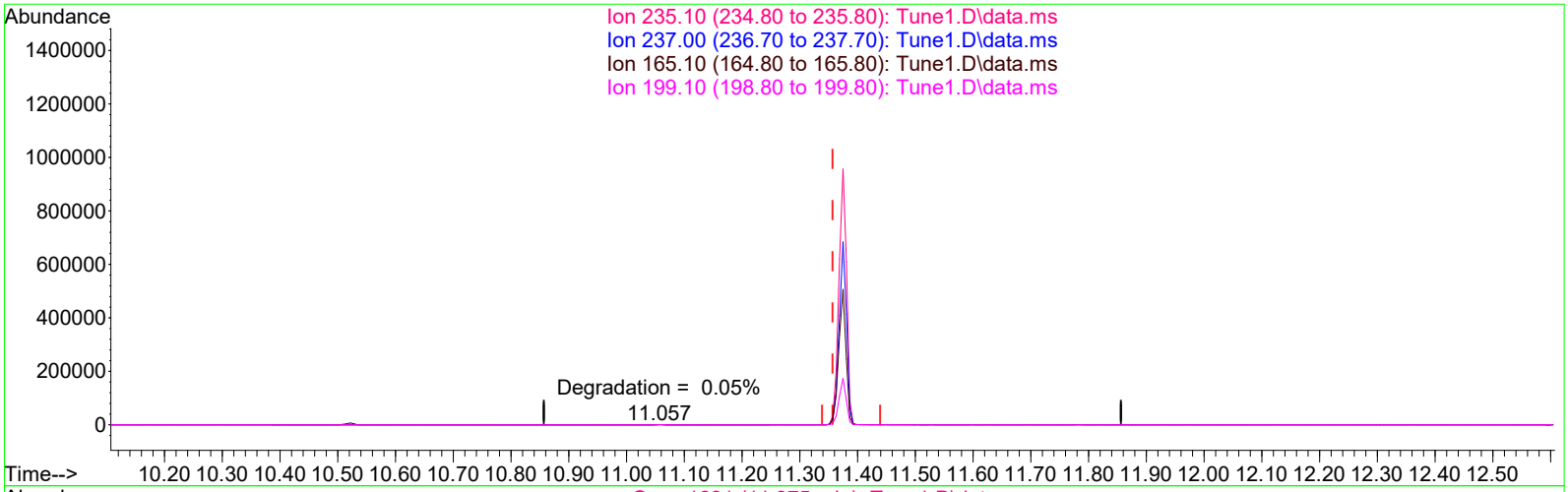
Spectrum Information: Average of 9.528 to 9.540 min.

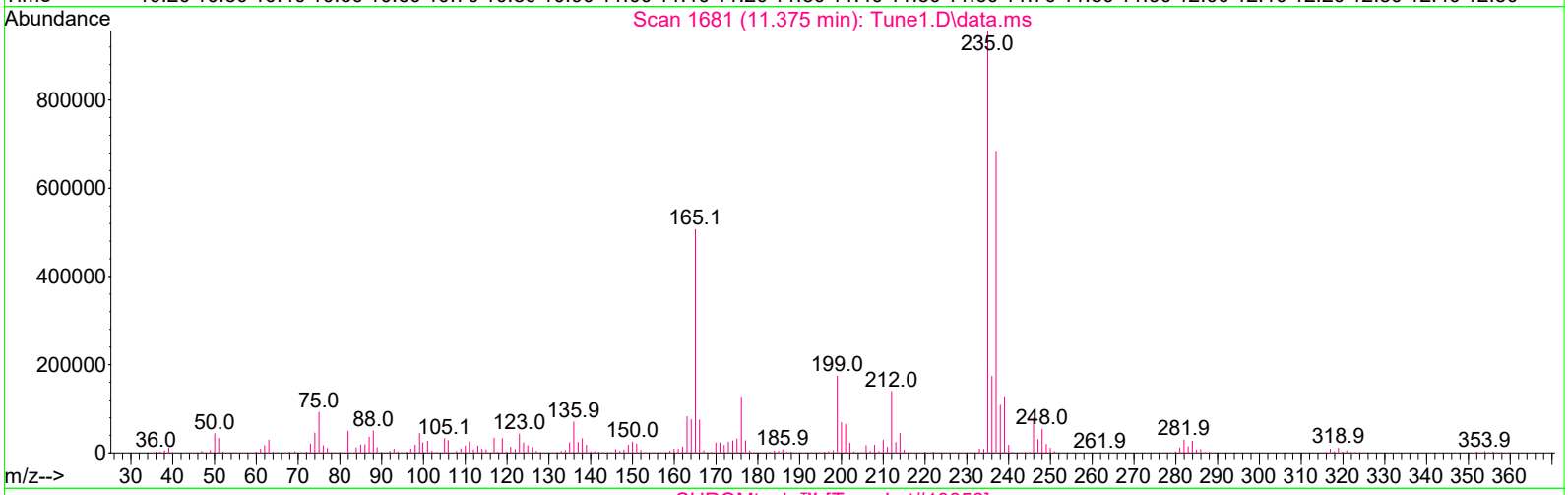
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	107589	PASS
68	69	0.00	2	1.7	1867	PASS
69	69	100	100	100.0	108645	PASS
70	69	0.00	2	0.5	539	PASS
127	198	10	80	44.6	139515	PASS
197	198	0.00	2	0.7	2272	PASS
198	198	100	100	100.0	313131	PASS
199	198	5	9	7.0	22069	PASS
275	198	10	60	28.2	88349	PASS
365	198	1	100	3.4	10597	PASS
441	442	0.01	24	17.5	40525	PASS
442	198	50	100	74.0	231659	PASS
443	442	15	24	20.0	46224	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(6) DDT (T)

11.375min (+ 0.018) 145.99

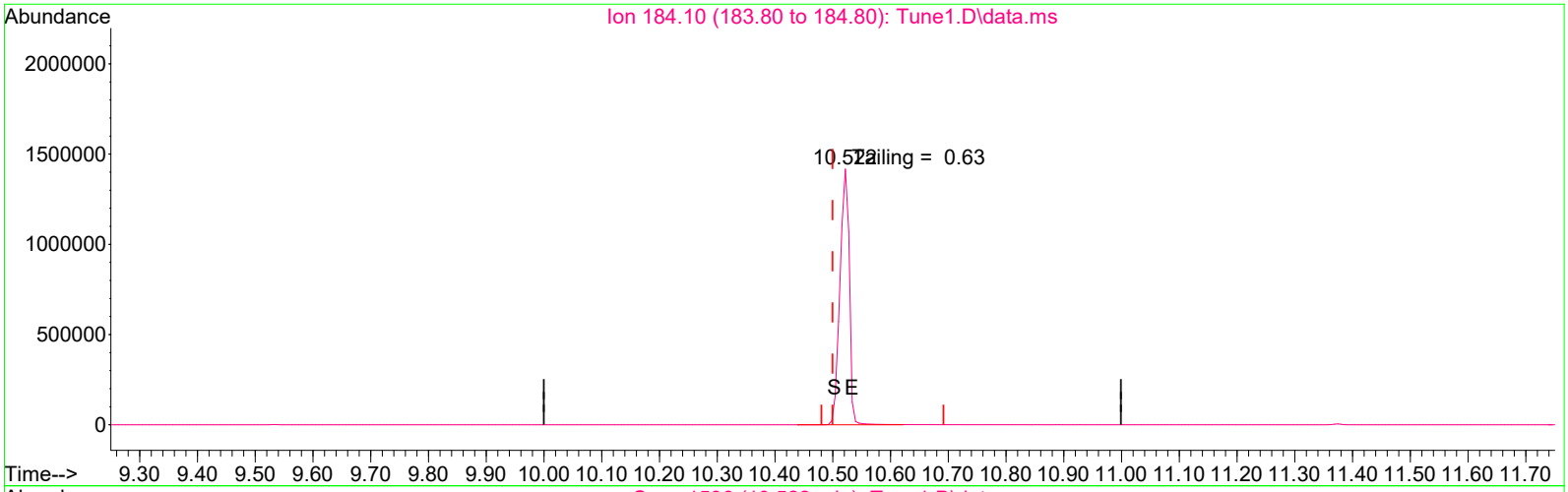
response 889919

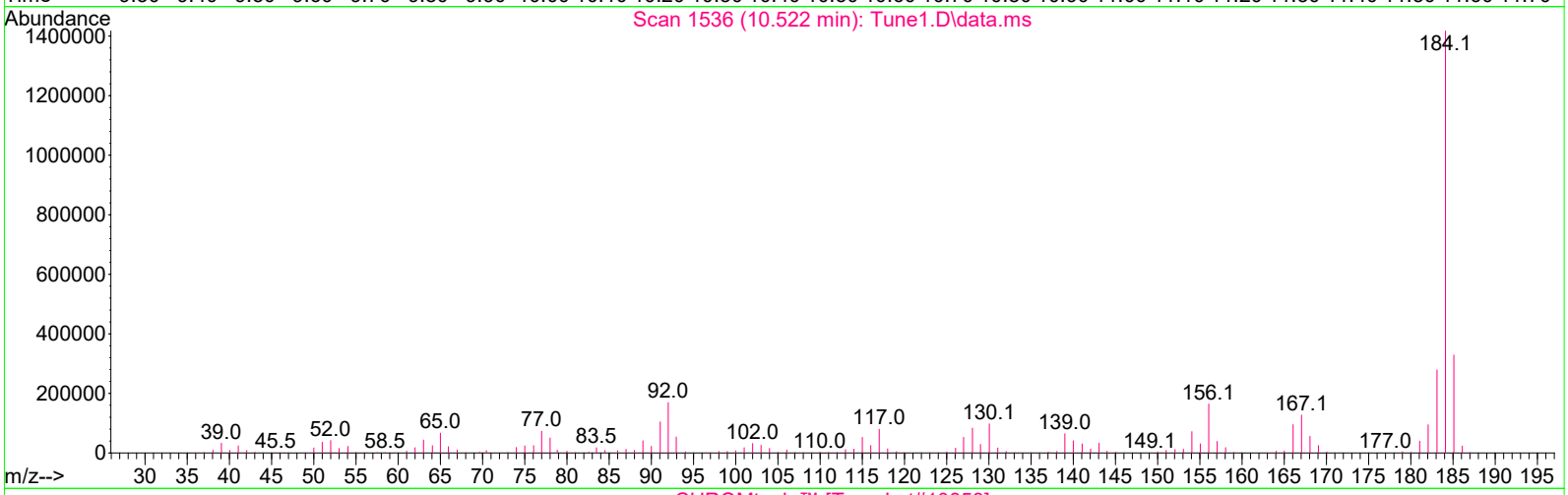
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	68.37
165.10	42.20	49.70
199.10	13.70	16.82

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(3) Benzidine (T)

10.522min (+ 0.022) 157.43

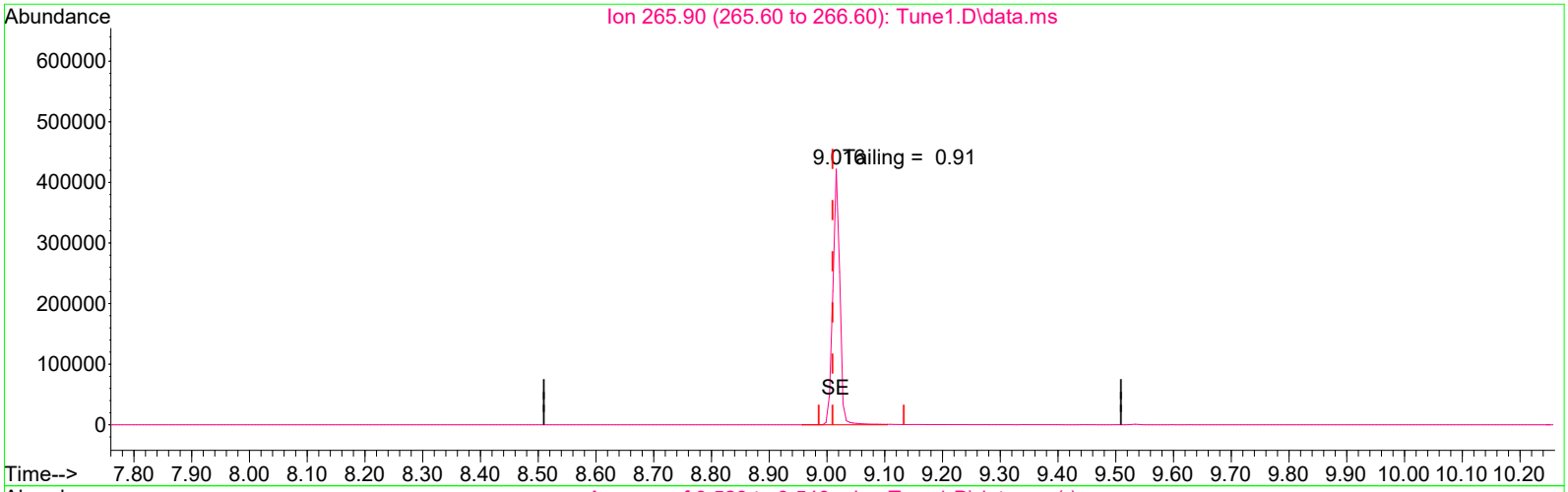
response 1602665

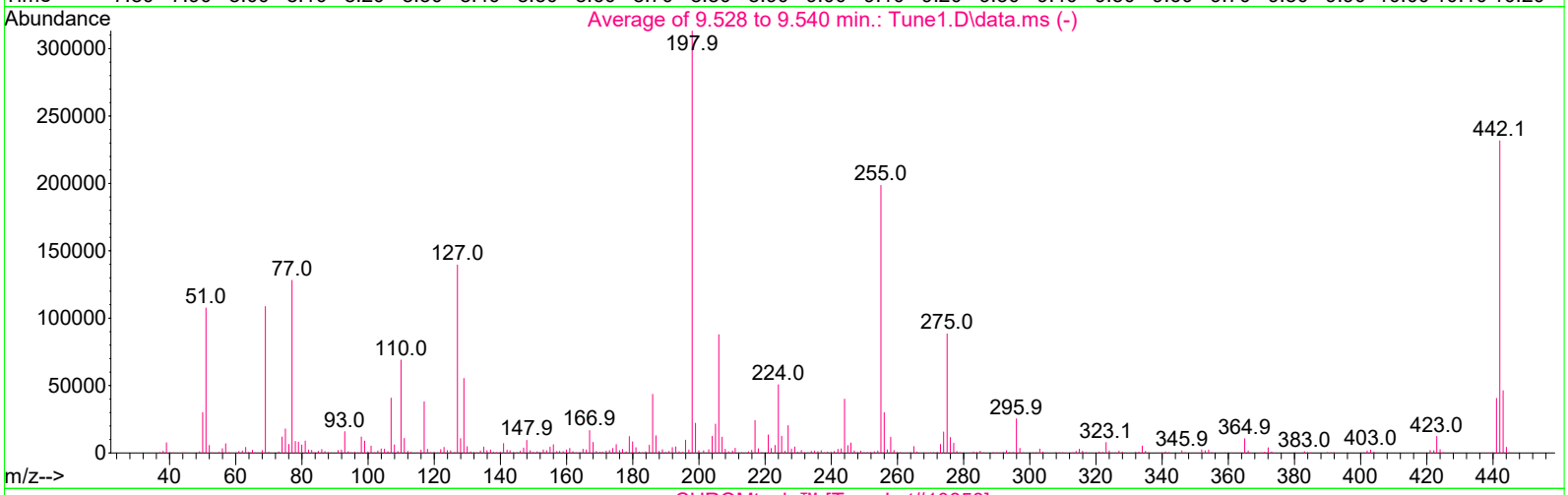
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune1.D
Acq On : 25 Jun 2024 07:55 pm
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:45:59 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(1) Pentachlorophenol (T)

9.016min (+ 0.006) 169.73

response 356498

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(5) DDD 235.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	23708	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 111.49%		
35) IS1_Naphthalene-d8	6.046	136	94057	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 115.12%		
63) IS1_Acenaphthene-d10	7.752	164	61295	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 124.61%		
88) IS1_Phenanthrene-d10	9.181	188	128794	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 124.01%		
104) IS1_Chrysene-d12	11.834	240	145276	4.000 ug/ml	# 0.01
Standard Area 1 = 111228			Recovery = 130.61%		
113) IS1_Perylene-d12	13.304	264	150213	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 114.32%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	310628	49.898 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2494.90%#		
7) Phenol-d6	4.487	99	410892	51.106 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2555.30%#		
19) Nitrobenzene-d5	5.346	82	400136	52.175 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5217.50%#		
46) 2-Fluorobiphenyl	7.110	172	951461	44.737 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4473.70%#		
79) 2,4,6-Tribromophenol	8.516	330	220777	61.071 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3053.55%#		
96) 4-Terphenyl-d14	10.763	244	1399064	42.234 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4223.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.158	74	197238	50.642 ug/ml	97
3) Pyridine	2.187	79	316483	51.217 ug/ml	84
5) Aniline	4.487	93	531545	49.526 ug/ml#	48
6) 2-Chlorophenol	4.605	128	368119	49.662 ug/ml	96
8) Phenol	4.499	94	466545	49.917 ug/ml#	44
9) Bis(2-chloroethyl)ether	4.569	93	330552	47.780 ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	425498	47.593 ug/ml	97
11) 1,4-Dichlorobenzene	4.822	146	430635	46.143 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	428672	49.023 ug/ml	96
13) Benzyl alcohol	4.958	79	308011	55.012 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	434355	49.697 ug/ml#	53

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	331313	52.912	ug/ml	98
16) Hexachloroethane	5.299	117	173998	52.641	ug/ml#	67
17) n-Nitrosodi-n-propylamine	5.228	70	278423	54.294	ug/ml	100
18) 3-Methylphenol/4-Methy...	5.240	108	366732	53.785	ug/ml	98
20) Nitrobenzene	5.369	77	397558	52.020	ug/ml	98
21) Isophorone	5.610	82	714103	51.753	ug/ml	96
22) 2-Nitrophenol	5.681	139	197090	57.903	ug/ml	96
23) 2,4-Dimethylphenol	5.752	107	357001	54.697	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.840	93	470425	50.649	ug/ml	97
25) 2,4-Dichlorophenol	5.922	162	380910	55.749	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.999	180	427420	49.395	ug/ml	97
36) Naphthalene	6.063	128	1044031	42.342	ug/ml#	92
37) Benzoic Acid	5.910	105	294521	52.720	ug/ml	97
38) 4-Chloroaniline	6.128	65	151590	54.707	ug/ml	97
39) Hexachlorobutadiene	6.210	225	289606	50.112	ug/ml	98
40) p-Chloro-m-cresol	6.622	107	355399	54.588	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	787243	46.948	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	285956	49.582	ug/ml	94
43) Hexachlorocyclopentadiene	6.910	237	327740	55.561	ug/ml	99
44) 2,4,6-Trichlorophenol	7.028	196	330658	54.830	ug/ml	99
45) 2,4,5-Trichlorophenol	7.057	196	354106	57.390	ug/ml	99
47) 2-Chloronaphthalene	7.210	162	821632	46.065	ug/ml	95
48) 2-Nitroaniline	7.322	138	276153	58.593	ug/ml	93
49) 1,4-Dinitrobenzene	7.452	168	146630	63.425	ug/ml	83
50) 1,3-Dinitrobenzene	7.528	168	172762	64.450	ug/ml	82
51) Dimethyl phthalate	7.528	163	974978	44.937	ug/ml#	95
52) Acenaphthylene	7.610	152	1188835	45.150	ug/ml#	89
53) 2,6-Dinitrotoluene	7.569	165	233918	57.642	ug/ml	92
54) 1,2-Dinitrobenzene	7.616	168	106780	68.592	ug/ml#	1
64) 3-Nitroaniline	7.722	138	258315	56.419	ug/ml	92
65) Acenaphthene	7.781	154	788708	46.174	ug/ml	97
66) 2,4-Dinitrophenol	7.822	184	149405	49.564	ug/ml#	84
67) Dibenzofuran	7.952	168	1181251	41.960	ug/ml	97
68) 2,4-Dinitrotoluene	7.957	165	358412	61.016	ug/ml	88
69) 4-Nitrophenol	7.322	65	238463	53.752	ug/ml#	11
70) 2,3,5,6-Tetrachlorophenol	8.040	232	332419	57.606	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.081	232	325008	57.329	ug/ml	99
72) Diethyl phthalate	8.216	149	1042470	45.763	ug/ml#	92
73) Fluorene	8.281	166	1008800	46.015	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.299	204	567955	47.539	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.322	138	263319	54.666	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.352	198	201559	51.288	ug/ml#	74
77)	NDPA/DPA	8.416	169	879551	46.640	ug/ml	89
78)	Azobenzene	8.452	77	934596	46.731	ug/ml#	91
80)	4-Bromophenyl phenyl e...	8.769	248	375483	49.055	ug/ml#	83
81)	Hexachlorobenzene	8.822	284	453546	47.160	ug/ml#	86
82)	Pentachlorophenol	9.016	266	299901	68.944	ug/ml	99
89)	Phenanthrene	9.204	178	1368984	40.184	ug/ml#	86
90)	Anthracene	9.257	178	1410608	42.318	ug/ml#	86
91)	Carbazole	9.422	167	1331588	43.628	ug/ml#	88
92)	Di-n-butylphthalate	9.804	149	1465236	44.009	ug/ml#	90
93)	Fluoranthene	10.363	202	1581098	39.994	ug/ml#	91
94)	Benzidine	10.516	184	1129713	51.974	ug/ml	96
95)	Pyrene	10.581	202	1648954	39.352	ug/ml#	82
97)	Butyl benzyl phthalate	11.287	149	842924	57.220	ug/ml#	97
105)	Benzo(a)anthracene	11.828	228	1878103	40.261	ug/ml#	82
106)	3,3'-Dichlorobenzidine	11.822	252	902789	53.129	ug/ml#	94
107)	Chrysene	11.869	228	1652363	36.131	ug/ml#	81
108)	Bis(2-ethylhexyl)phtha...	11.928	149	1229491	53.003	ug/ml#	89
109)	Di-n-octylphthalate	12.610	149	1768108	49.738	ug/ml#	95
110)	Benzo(b)fluoranthene	12.945	252	2026755	42.361	ug/ml#	91
111)	Benzo(k)fluoranthene	12.975	252	1600001M3	36.638	ug/ml	
112)	Benzo(a)pyrene	13.257	252	1735579	41.576	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	14.322	276	2226872M6	53.020	ug/mL	
115)	Dibenzo(a,h)anthracene	14.345	278	1928257	48.074	ug/ml#	90
116)	Benzo(ghi)perylene	14.592	276	1880012	46.449	ug/ml#	92

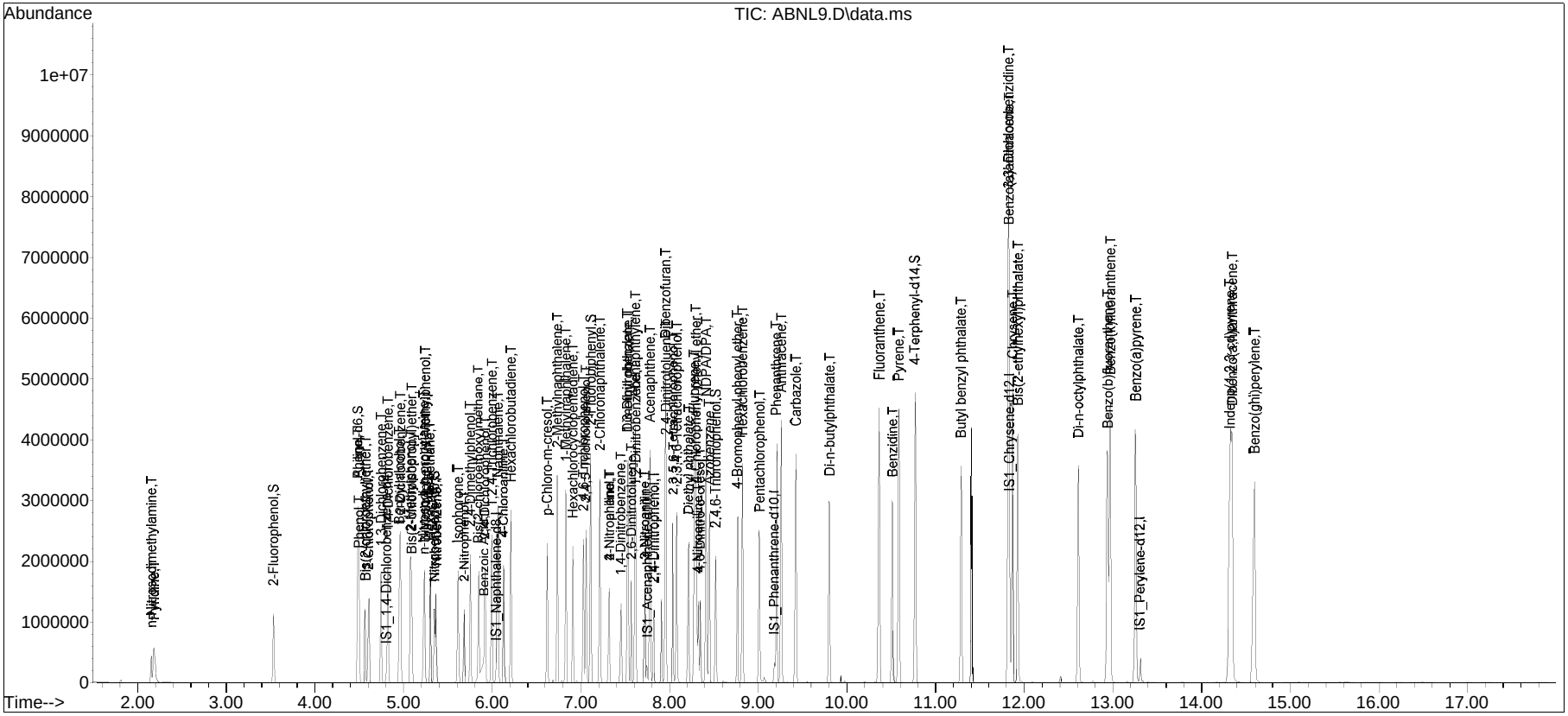
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL9.D
Acq On : 25 Jun 2024 08:18 pm
Operator : SV112:mrg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 14:02:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

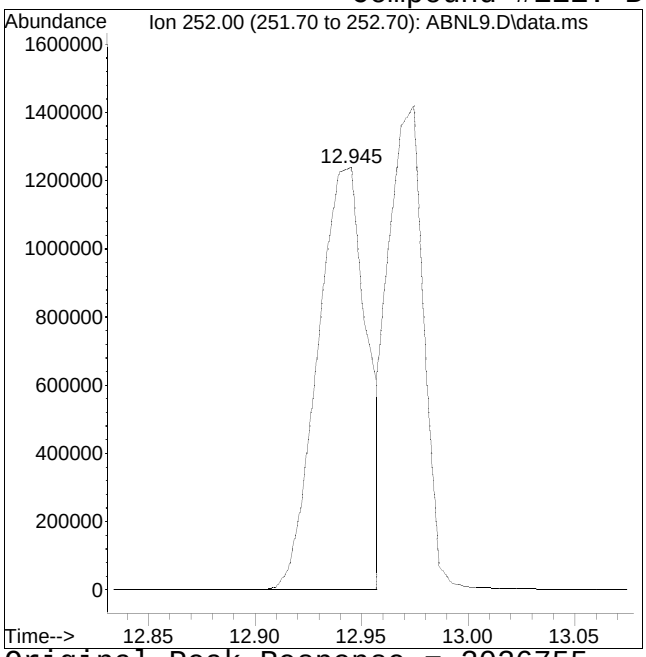
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

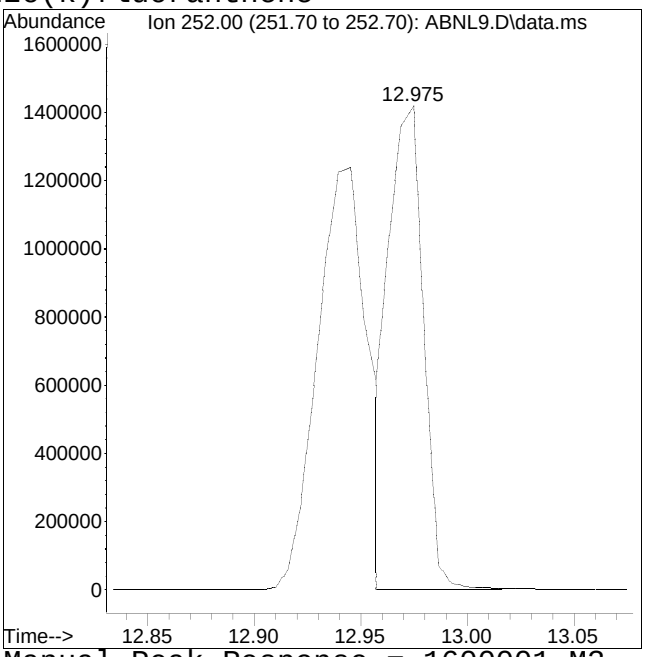


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL9.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:18 pm Instrument : SV112
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



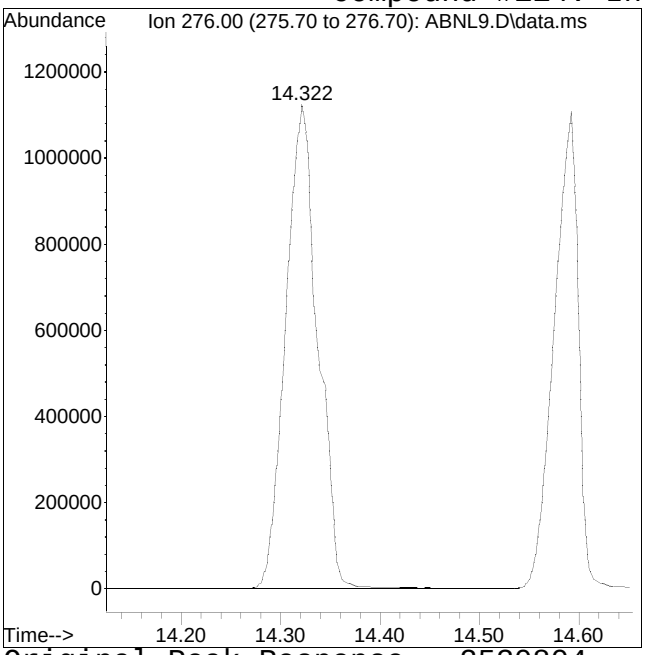


Original Peak Response = 2026755 Manual Peak Response = 1600001 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

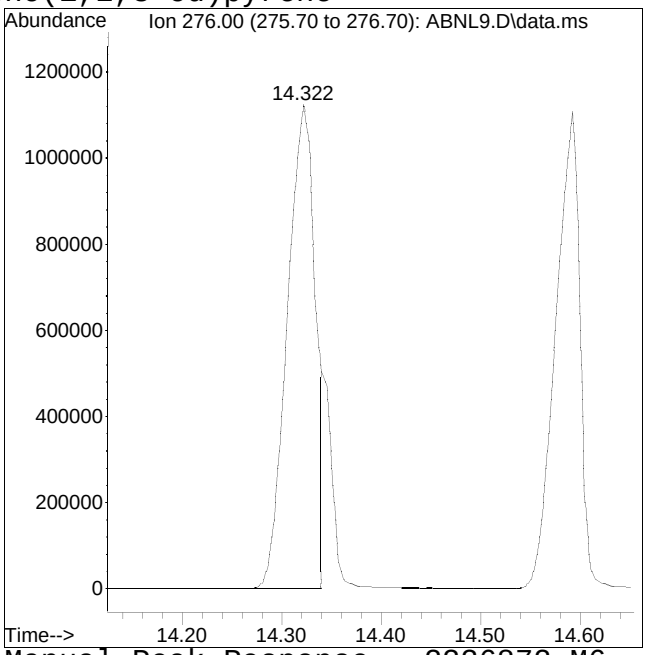
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL9.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:18 pm Instrument : SV112
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2530804



Manual Peak Response = 2226872 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	23361	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 109.86%		
35) IS1_Naphthalene-d8	6.040	136	89632	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 109.70%		
63) IS1_Acenaphthene-d10	7.746	164	57238	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 116.36%		
88) IS1_Phenanthrene-d10	9.181	188	127467	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 122.73%		
104) IS1_Chrysene-d12	11.828	240	141623	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 127.33%		
113) IS1_Perylene-d12	13.298	264	152512	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 116.07%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	154909	25.253 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1262.65%#		
7) Phenol-d6	4.481	99	198121	25.008 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1250.40%#		
19) Nitrobenzene-d5	5.346	82	192079	25.418 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2541.80%#		
46) 2-Fluorobiphenyl	7.110	172	473165	23.346 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2334.60%#		
79) 2,4,6-Tribromophenol	8.510	330	99010	29.329 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1466.45%#		
96) 4-Terphenyl-d14	10.763	244	779402	23.773 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2377.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.152	74	100835	26.275 ug/ml#	96
3) Pyridine	2.187	79	169913	27.906 ug/ml	84
5) Aniline	4.487	93	261313	24.709 ug/ml#	49
6) 2-Chlorophenol	4.599	128	178547	24.445 ug/ml	96
8) Phenol	4.493	94	227310	24.682 ug/ml#	45
9) Bis(2-chloroethyl)ether	4.563	93	162747	23.874 ug/ml	97
10) 1,3-Dichlorobenzene	4.746	146	207980	23.609 ug/ml	97
11) 1,4-Dichlorobenzene	4.822	146	209957	22.831 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	204963	23.788 ug/ml	96
13) Benzyl alcohol	4.952	79	147370	26.712 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	213410	24.780 ug/ml#	58

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	156869	25.425	ug/ml	97
16) Hexachloroethane	5.299	117	80365	24.675	ug/ml#	66
17) n-Nitrosodi-n-propylamine	5.222	70	130659	25.858	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.234	108	172439	25.666	ug/ml	97
20) Nitrobenzene	5.363	77	191658	25.451	ug/ml	100
21) Isophorone	5.605	82	350263	25.762	ug/ml	98
22) 2-Nitrophenol	5.675	139	93862	27.985	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	167321	26.017	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	223575	24.429	ug/ml	98
25) 2,4-Dichlorophenol	5.916	162	177771	26.405	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.993	180	200491	23.514	ug/ml	96
36) Naphthalene	6.063	128	540920	23.021	ug/ml	97
37) Benzoic Acid	5.869	105	135966	25.649	ug/ml	98
38) 4-Chloroaniline	6.128	65	71436	27.053	ug/ml	96
39) Hexachlorobutadiene	6.210	225	132422	24.045	ug/ml	99
40) p-Chloro-m-cresol	6.616	107	167398	26.981	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	382577	23.942	ug/ml	97
42) 1-Methylnaphthalene	6.834	115	131664	23.956	ug/ml	98
43) Hexachlorocyclopentadiene	6.910	237	146351	26.035	ug/ml	100
44) 2,4,6-Trichlorophenol	7.022	196	154290	26.847	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	160980M3	27.378	ug/ml	
47) 2-Chloronaphthalene	7.205	162	401390	23.615	ug/ml	94
48) 2-Nitroaniline	7.316	138	129369	28.804	ug/ml	93
49) 1,4-Dinitrobenzene	7.446	168	68409	31.051	ug/ml	84
50) 1,3-Dinitrobenzene	7.522	168	77473	30.329	ug/ml	87
51) Dimethyl phthalate	7.516	163	496005	23.990	ug/ml	98
52) Acenaphthylene	7.604	152	624802	24.900	ug/ml	95
53) 2,6-Dinitrotoluene	7.563	165	109328	28.271	ug/ml	91
54) 1,2-Dinitrobenzene	7.604	168	49511	33.374	ug/ml#	1
64) 3-Nitroaniline	7.716	138	120173	28.108	ug/ml	94
65) Acenaphthene	7.781	154	376895	23.629	ug/ml	97
66) 2,4-Dinitrophenol	7.816	184	68455	26.120	ug/ml#	83
67) Dibenzofuran	7.946	168	607351	23.103	ug/ml	96
68) 2,4-Dinitrotoluene	7.946	165	164108	29.918	ug/ml	88
69) 4-Nitrophenol	7.316	65	111882	27.007	ug/ml#	11
70) 2,3,5,6-Tetrachlorophenol	8.034	232	153668	28.517	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	150622	28.452	ug/ml	99
72) Diethyl phthalate	8.210	149	512861	24.110	ug/ml	95
73) Fluorene	8.281	166	495678	24.212	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.293	204	264737	23.729	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.310	138	131636	29.265	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.340	198	93202	25.514	ug/ml#	75
77)	NDPA/DPA	8.410	169	431193	24.486	ug/ml	92
78)	Azobenzene	8.446	77	463782	24.834	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	173402M3	24.260	ug/ml	
81)	Hexachlorobenzene	8.816	284	205275	22.857	ug/ml#	86
82)	Pentachlorophenol	9.010	266	137366	33.817	ug/ml	99
89)	Phenanthrene	9.204	178	754687	22.383	ug/ml	95
90)	Anthracene	9.251	178	773477	23.446	ug/ml	94
91)	Carbazole	9.416	167	720325	23.847	ug/ml	94
92)	Di-n-butylphthalate	9.799	149	849485	25.781	ug/ml	97
93)	Fluoranthene	10.357	202	913651	23.352	ug/ml	94
94)	Benzidine	10.510	184	605842	28.163	ug/ml	97
95)	Pyrene	10.575	202	963293	23.228	ug/ml	93
97)	Butyl benzyl phthalate	11.287	149	426248	29.236	ug/ml#	95
105)	Benzo(a)anthracene	11.822	228	1064604	23.410	ug/ml	92
106)	3,3'-Dichlorobenzidine	11.816	252	453219	27.360	ug/ml#	95
107)	Chrysene	11.857	228	965858	21.664	ug/ml	92
108)	Bis(2-ethylhexyl)phtha...	11.922	149	666575	29.477	ug/ml#	95
109)	Di-n-octylphthalate	12.604	149	1042242	30.075	ug/ml	99
110)	Benzo(b)fluoranthene	12.934	252	1029857	22.080	ug/ml	95
111)	Benzo(k)fluoranthene	12.963	252	1039846M3	24.425	ug/ml	
112)	Benzo(a)pyrene	13.251	252	980731	24.100	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	14.310	276	1154840M6	27.081	ug/mL	
115)	Dibenzo(a,h)anthracene	14.334	278	1057237	25.961	ug/ml#	92
116)	Benzo(ghi)perylene	14.581	276	999904	24.332	ug/ml	93

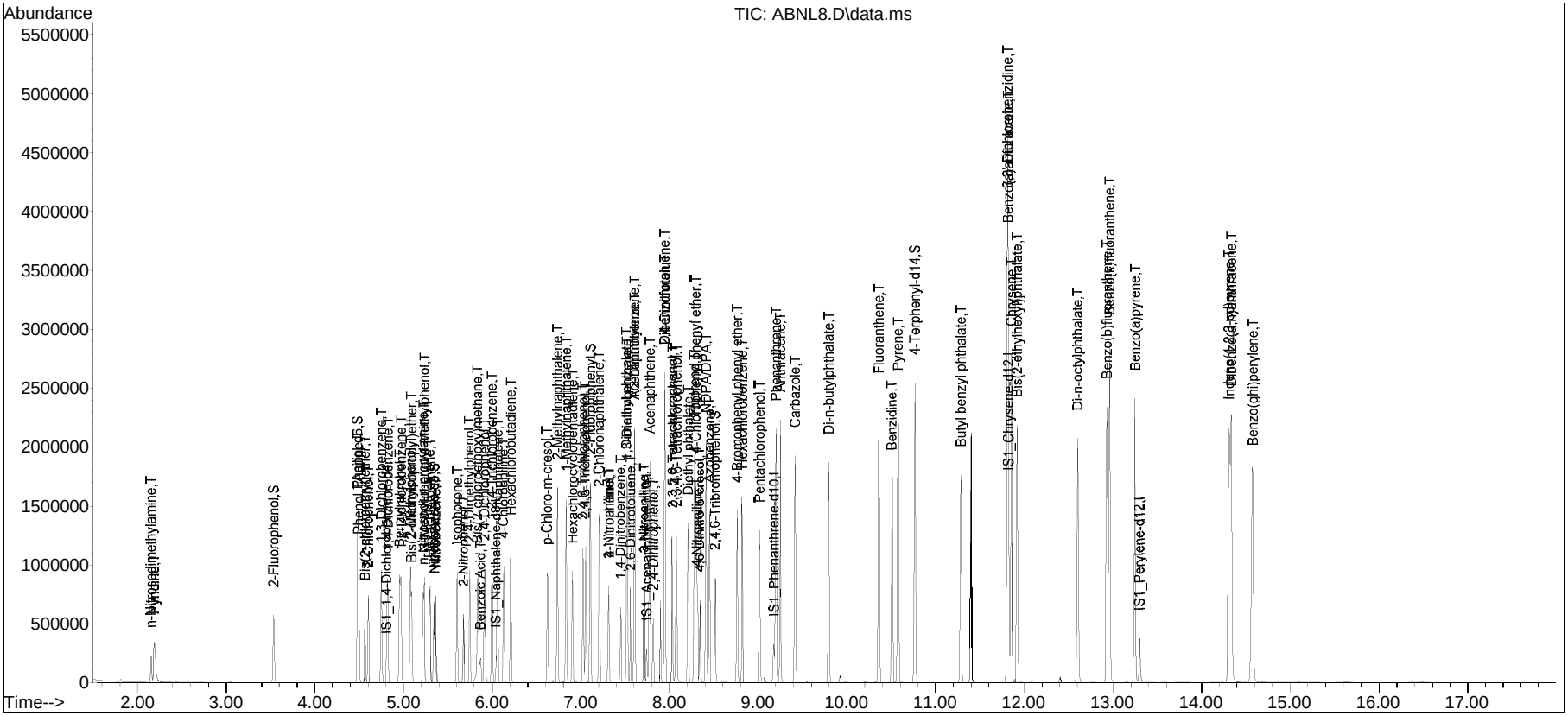
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL8.D
Acq On : 25 Jun 2024 08:41 pm
Operator : SV112:mrg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 14:02:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

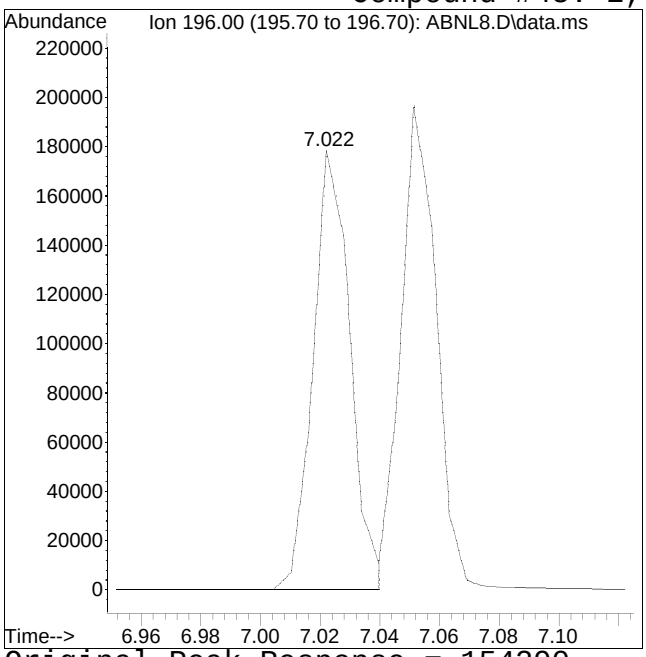
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

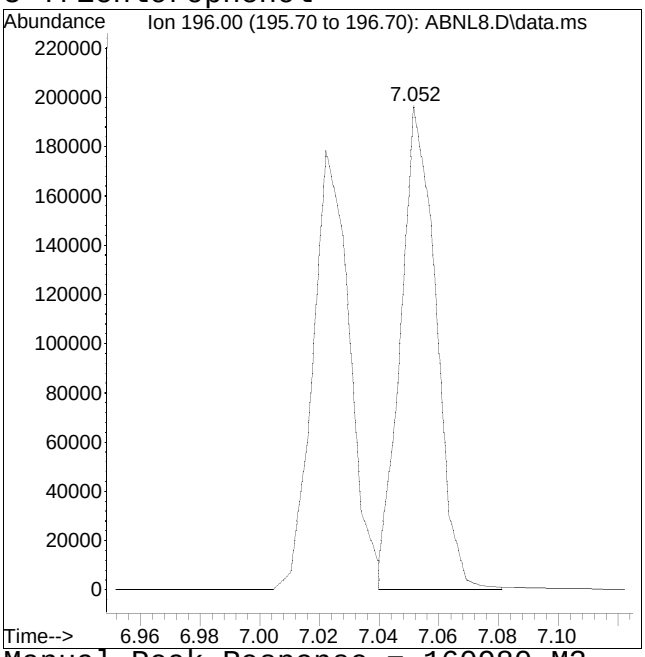


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





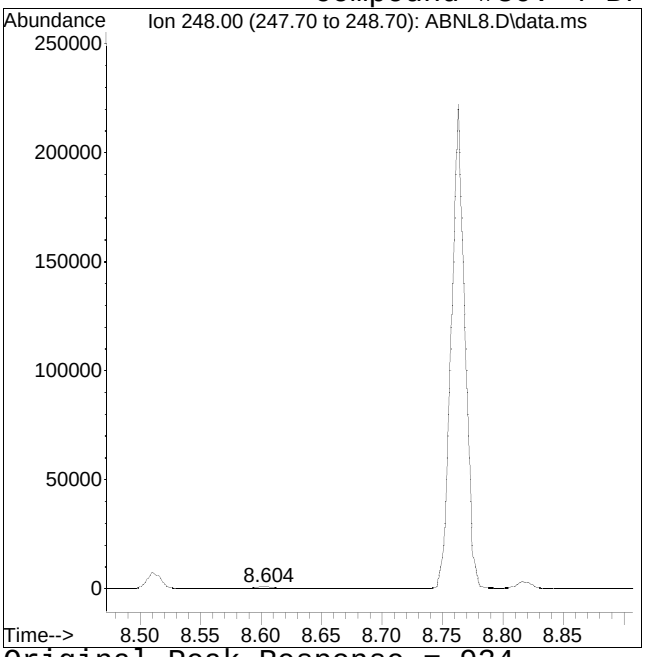
Original Peak Response = 154290 Manual Peak Response = 160980 M3

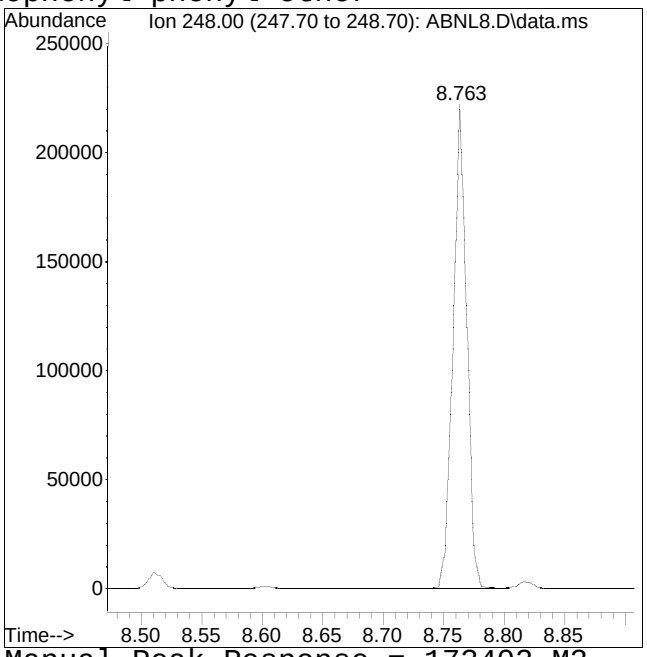
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #80: 4-Bromophenyl phenyl ether





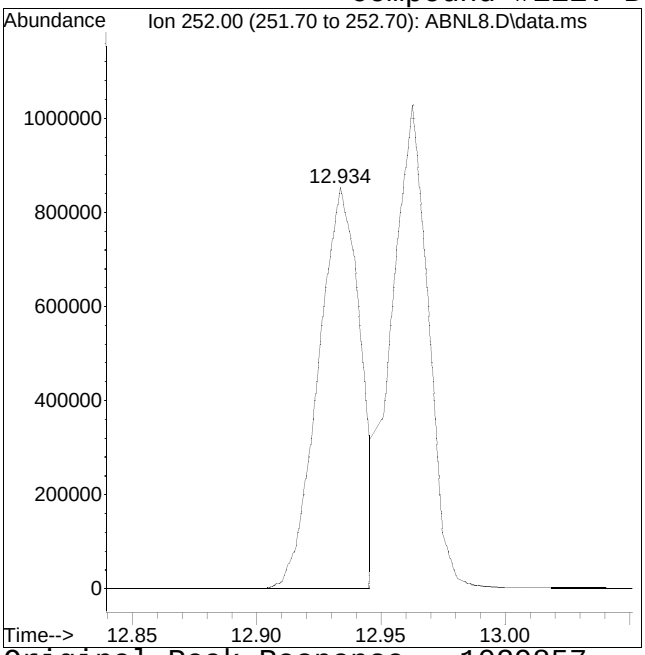
Original Peak Response = 934 Manual Peak Response = 173402 M3

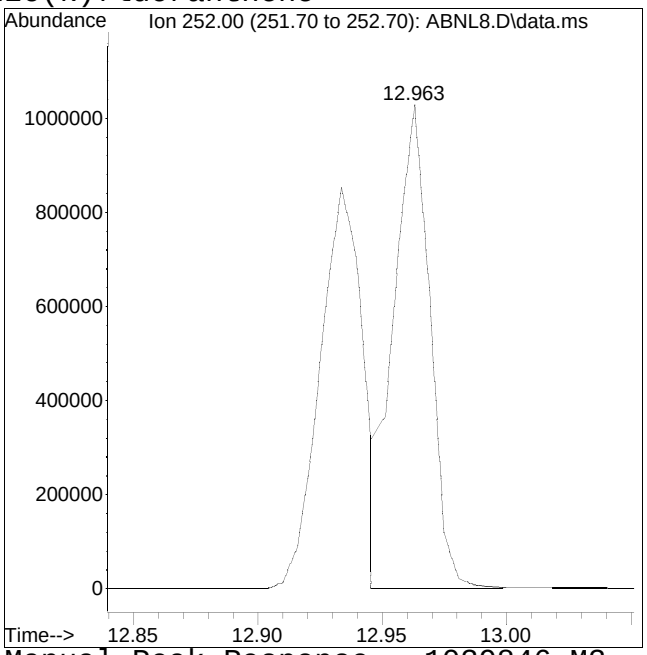
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



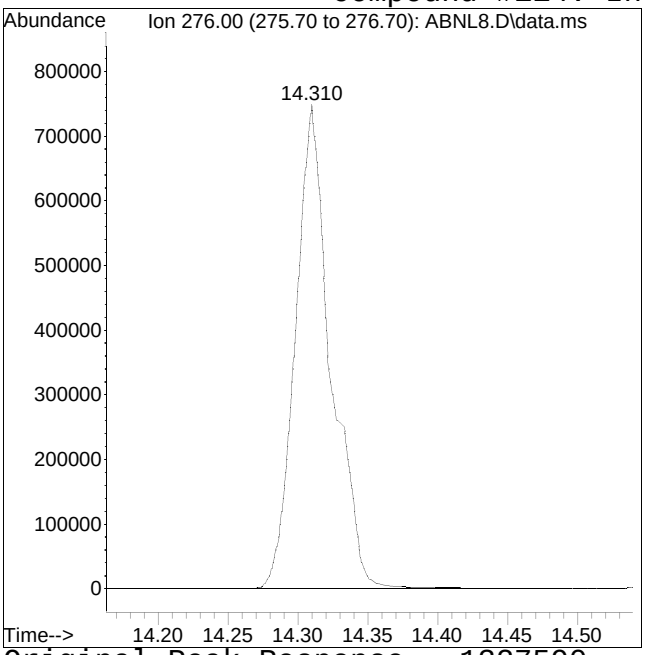


Original Peak Response = 1029857 Manual Peak Response = 1039846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

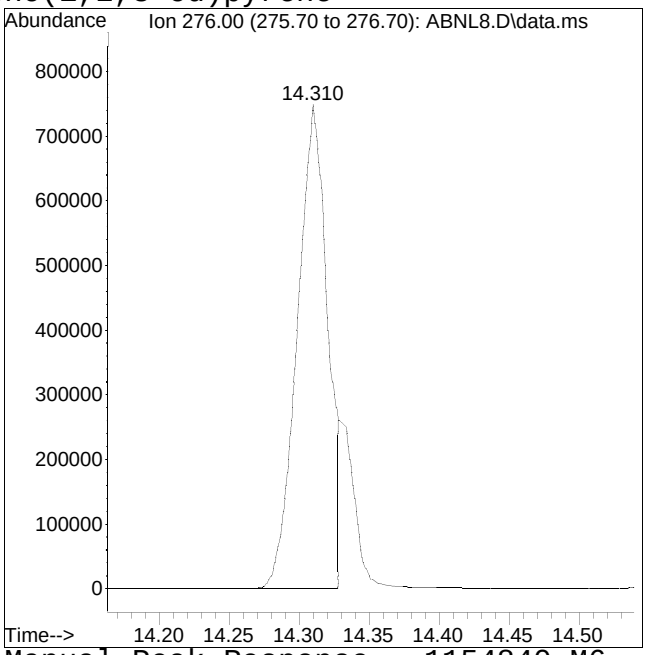
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL8.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 8:41 pm Instrument : SV112
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1327590



Manual Peak Response = 1154840 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21476	4.000 ug/ml	# 0.00
Standard Area 1 = 21265			Recovery = 100.99%		
35) IS1_Naphthalene-d8	6.040	136	80743	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.82%		
63) IS1_Acenaphthene-d10	7.746	164	50162	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 101.98%		
88) IS1_Phenanthrene-d10	9.175	188	105182	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 101.27%		
104) IS1_Chrysene-d12	11.828	240	116399	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 104.65%		
113) IS1_Perylene-d12	13.298	264	135461	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 103.09%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	59729	10.592 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 529.60%#		
7) Phenol-d6	4.481	99	75930	10.426 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 521.30%#		
19) Nitrobenzene-d5	5.346	82	72854	10.487 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1048.70%#		
46) 2-Fluorobiphenyl	7.110	172	175781	9.628 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 962.80%#		
79) 2,4,6-Tribromophenol	8.510	330	31976	10.808 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 540.40%#		
96) 4-Terphenyl-d14	10.757	244	269895	9.976 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 997.60%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	39574	11.217 ug/ml	97
3) Pyridine	2.205	79	65204	11.649 ug/ml	85
5) Aniline	4.487	93	99553	10.240 ug/ml#	50
6) 2-Chlorophenol	4.599	128	68421	10.190 ug/ml	96
8) Phenol	4.493	94	87347	10.317 ug/ml#	46
9) Bis(2-chloroethyl)ether	4.564	93	62434	9.963 ug/ml	97
10) 1,3-Dichlorobenzene	4.752	146	79579	9.826 ug/ml	98
11) 1,4-Dichlorobenzene	4.822	146	81378	9.626 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	77634	9.801 ug/ml	96
13) Benzyl alcohol	4.952	79	54366	10.719 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	79023	9.981 ug/ml#	57

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	59138	10.426	ug/ml	98
16) Hexachloroethane	5.299	117	29872	9.977	ug/ml#	65
17) n-Nitrosodi-n-propylamine	5.216	70	47976	10.328	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.234	108	64683	10.472	ug/ml	96
20) Nitrobenzene	5.363	77	72400	10.458	ug/ml	99
21) Isophorone	5.599	82	129481	10.359	ug/ml	98
22) 2-Nitrophenol	5.675	139	32940	10.683	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	60962	10.311	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	83082	9.875	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	65466	10.577	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.993	180	74135	9.458	ug/ml	95
36) Naphthalene	6.058	128	210448	9.942	ug/ml	99
37) Benzoic Acid	5.834	105	43865	9.322	ug/ml	99
38) 4-Chloroaniline	6.128	65	25347	10.656	ug/ml	91
39) Hexachlorobutadiene	6.210	225	48635	9.803	ug/ml	98
40) p-Chloro-m-cresol	6.616	107	59753	10.691	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	141331	9.818	ug/ml	97
42) 1-Methylnaphthalene	6.834	115	47724	9.639	ug/ml	97
43) Hexachlorocyclopentadiene	6.910	237	51016	10.075	ug/ml	99
44) 2,4,6-Trichlorophenol	7.022	196	54964	10.617	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	56138M3	10.599	ug/ml	
47) 2-Chloronaphthalene	7.205	162	148455	9.696	ug/ml	94
48) 2-Nitroaniline	7.310	138	44168	10.917	ug/ml	94
49) 1,4-Dinitrobenzene	7.446	168	22377	11.275	ug/ml	88
50) 1,3-Dinitrobenzene	7.516	168	25446	11.058	ug/ml	89
51) Dimethyl phthalate	7.510	163	176799	9.492	ug/ml	99
52) Acenaphthylene	7.605	152	227136	10.049	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	36452	10.464	ug/ml	94
54) 1,2-Dinitrobenzene	7.599	168	16118	12.061	ug/ml#	1
64) 3-Nitroaniline	7.710	138	42491	11.340	ug/ml	94
65) Acenaphthene	7.775	154	135917	9.723	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	21119	9.878	ug/ml#	85
67) Dibenzofuran	7.946	168	222891	9.675	ug/ml	93
68) 2,4-Dinitrotoluene	7.946	165	52394	10.899	ug/ml	91
69) 4-Nitrophenol	7.310	65	38608	10.634	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	52121	11.037	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	8.075	232	50211	10.823	ug/ml	99
72) Diethyl phthalate	8.204	149	177146	9.502	ug/ml	97
73) Fluorene	8.275	166	174896	9.748	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.293	204	89679	9.172	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	45225	11.473	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.334	198	29082	9.234	ug/ml#	78
77)	NDPA/DPA	8.404	169	152382	9.874	ug/ml	95
78)	Azobenzene	8.440	77	163681	10.001	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	57922	9.247	ug/ml#	82
81)	Hexachlorobenzene	8.816	284	69475	8.827	ug/ml#	86
82)	Pentachlorophenol	9.010	266	43211	12.138	ug/ml	99
89)	Phenanthrene	9.199	178	274753	9.875	ug/ml	98
90)	Anthracene	9.251	178	281146	10.328	ug/ml	98
91)	Carbazole	9.416	167	263327	10.564	ug/ml	97
92)	Di-n-butylphthalate	9.799	149	289191	10.636	ug/ml	99
93)	Fluoranthene	10.357	202	332906M3	10.311	ug/ml	
94)	Benzidine	10.504	184	209641	11.810	ug/ml#	97
95)	Pyrene	10.575	202	353575	10.332	ug/ml	98
97)	Butyl benzyl phthalate	11.281	149	129222	10.741	ug/ml	95
105)	Benzo(a)anthracene	11.816	228	383220	10.253	ug/ml	97
106)	3,3'-Dichlorobenzidine	11.810	252	152179	11.178	ug/ml#	97
107)	Chrysene	11.851	228	363469	9.919	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.922	149	204221	10.988	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	334815	11.755	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	382689	9.983	ug/ml#	96
111)	Benzo(k)fluoranthene	12.957	252	400155M3	11.436	ug/ml	
112)	Benzo(a)pyrene	13.245	252	362257	10.831	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.304	276	393528M6	10.390	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	389820	10.777	ug/ml#	92
116)	Benzo(ghi)perylene	14.569	276	373879	10.243	ug/ml#	93

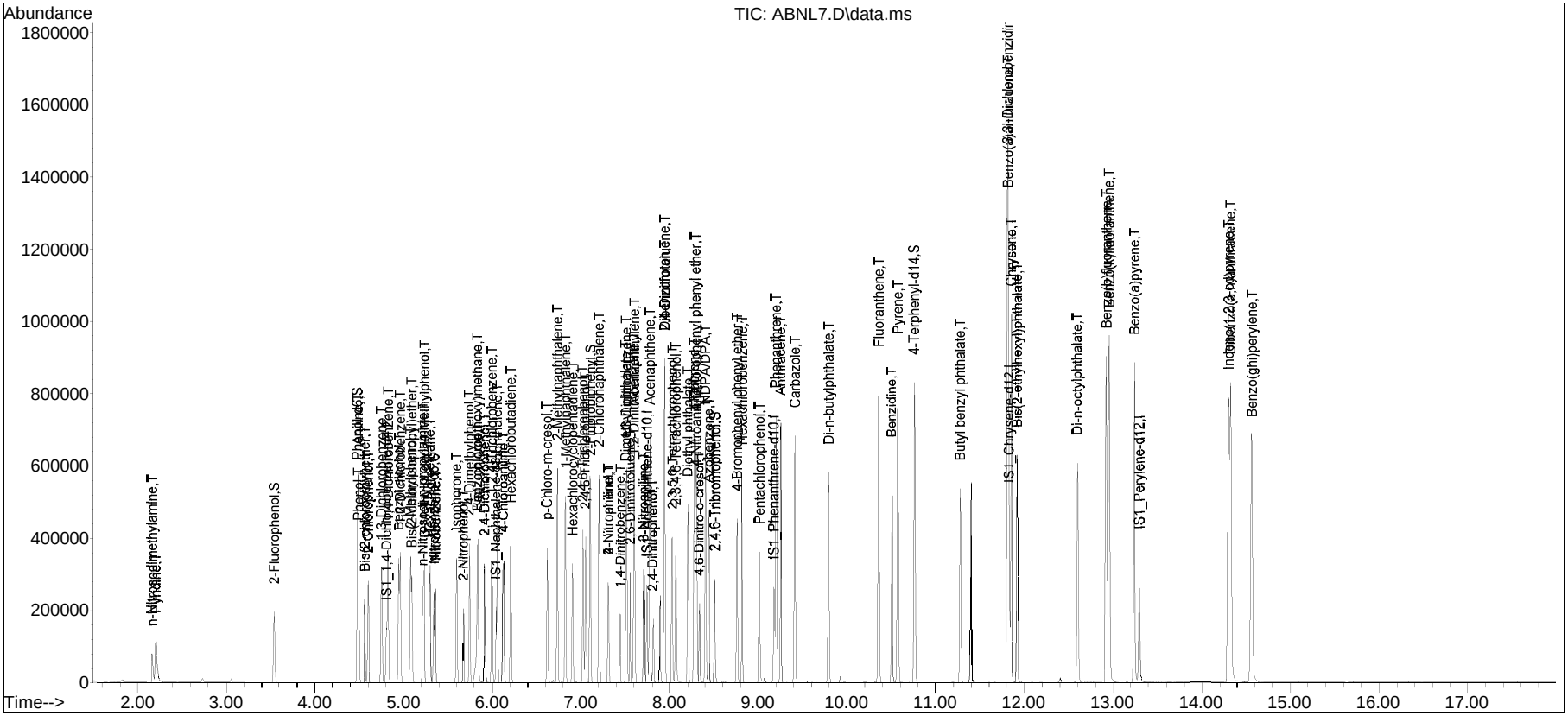
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL7.D
Acq On : 25 Jun 2024 09:04 pm
Operator : SV112:mrg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939943
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 14:01:51 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

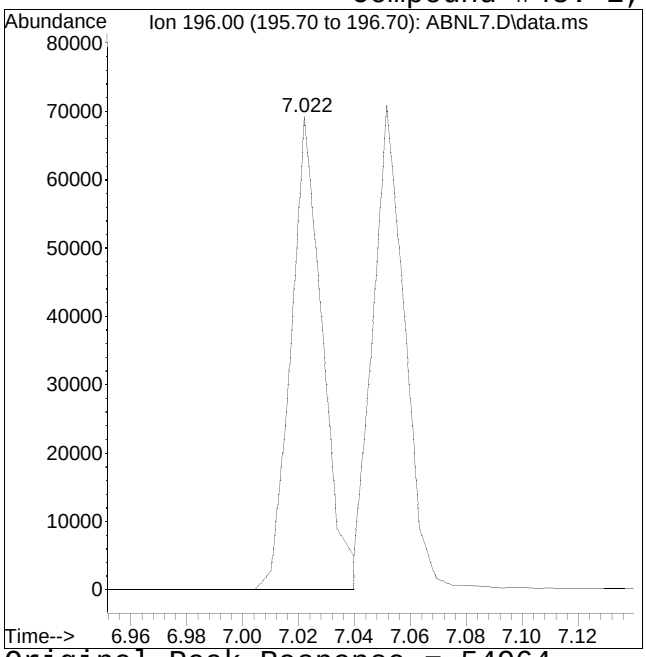
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

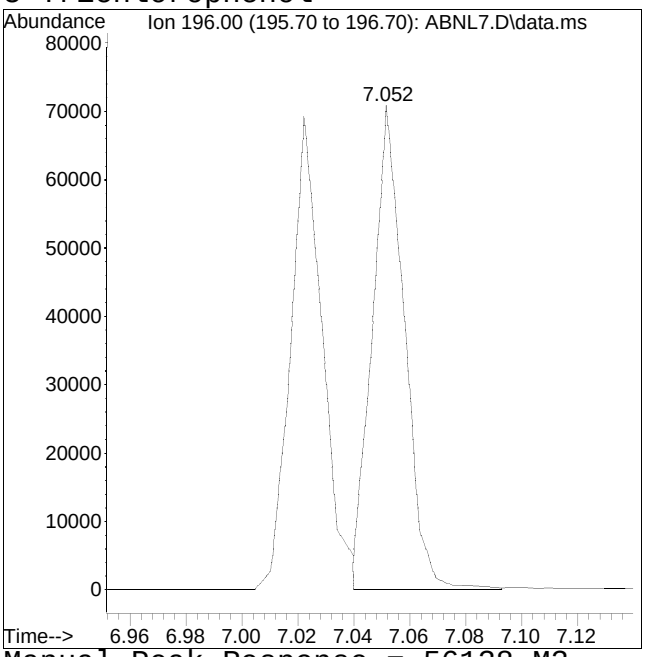


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





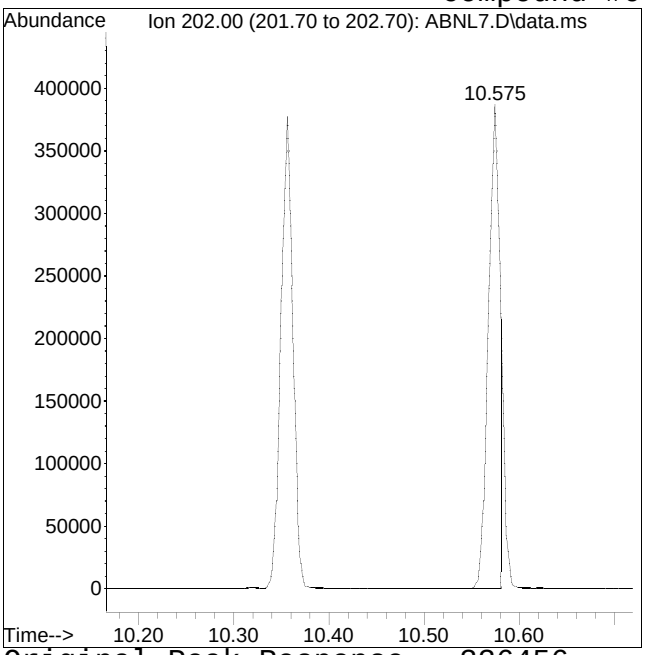
Original Peak Response = 54964 Manual Peak Response = 56138 M3

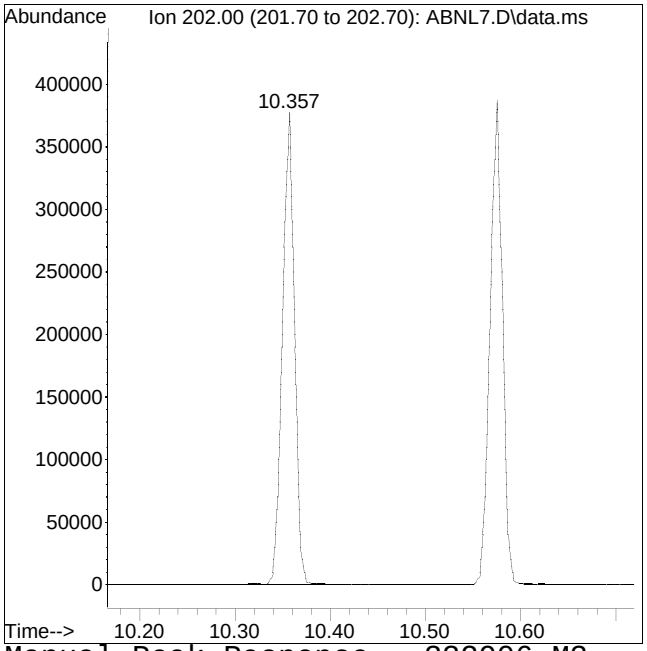
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene





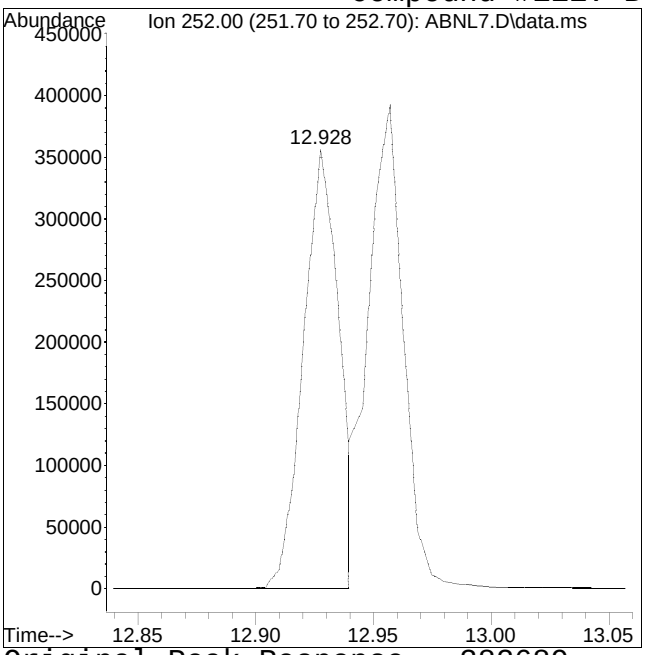
Original Peak Response = 336456 Manual Peak Response = 332906 M3

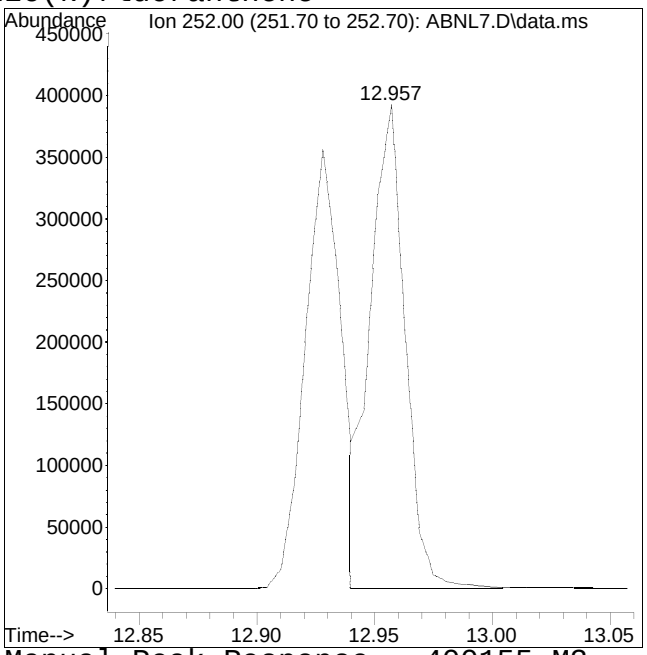
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



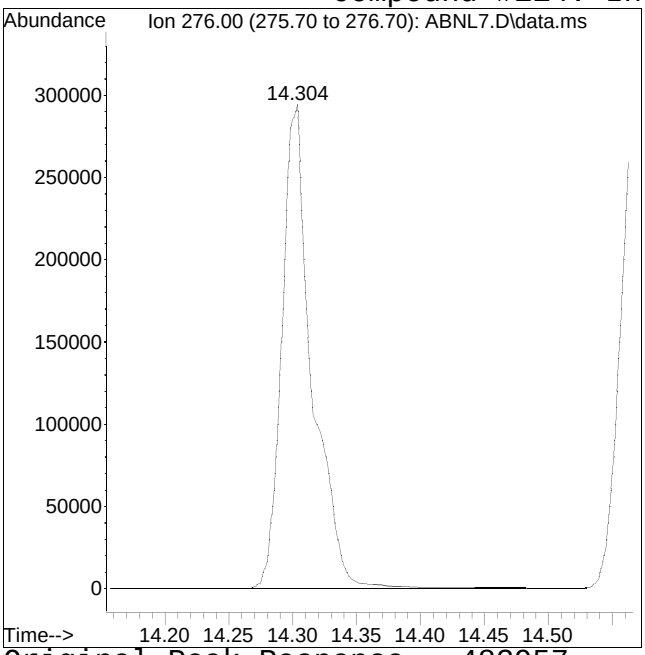


Original Peak Response = 382689 Manual Peak Response = 400155 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

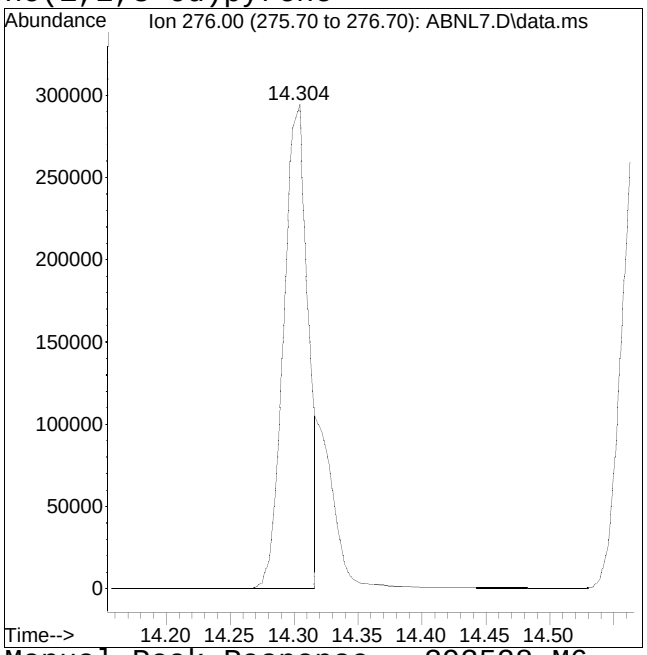
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL7.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:04 pm Instrument : SV112
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 483957



Manual Peak Response = 393528 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21265	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 100.00%		
35) IS1_Naphthalene-d8	6.040	136	81706	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 100.00%		
63) IS1_Acenaphthene-d10	7.746	164	49189	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 100.00%		
88) IS1_Phenanthrene-d10	9.175	188	103858	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 100.00%		
104) IS1_Chrysene-d12	11.822	240	111228	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 100.00%		
113) IS1_Perylene-d12	13.298	264	131396	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 100.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	28423	5.090 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 254.50%#		
7) Phenol-d6	4.481	99	36360	5.042 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 252.10%#		
19) Nitrobenzene-d5	5.346	82	34266	4.981 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 498.10%#		
46) 2-Fluorobiphenyl	7.104	172	83703	4.531 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 453.10%#		
79) 2,4,6-Tribromophenol	8.510	330	14492	4.995 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 249.75%#		
96) 4-Terphenyl-d14	10.757	244	124497	4.661 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 466.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.175	74	18995	5.437 ug/ml	95
3) Pyridine	2.211	79	31564	5.695 ug/ml	85
5) Aniline	4.487	93	46800	4.862 ug/ml#	49
6) 2-Chlorophenol	4.599	128	32542	4.894 ug/ml	96
8) Phenol	4.493	94	41620	4.965 ug/ml#	47
9) Bis(2-chloroethyl)ether	4.563	93	29770	4.798 ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	39529	4.929 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	39493	4.718 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	37964	4.840 ug/ml	96
13) Benzyl alcohol	4.952	79	25194	5.017 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.093	45	37919	4.837 ug/ml#	59

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	27940	4.975	ug/ml	98
16) Hexachloroethane	5.299	117	14415	4.862	ug/ml#	66
17) n-Nitrosodi-n-propylamine	5.216	70	22432	4.877	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.234	108	30998	5.068	ug/ml	98
20) Nitrobenzene	5.363	77	34247	4.996	ug/ml	97
21) Isophorone	5.599	82	60249	4.868	ug/ml	99
22) 2-Nitrophenol	5.675	139	15267	5.001	ug/ml	95
23) 2,4-Dimethylphenol	5.746	107	26689	4.559	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	38883	4.667	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	29856	4.872	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.993	180	35413	4.563	ug/ml	96
36) Naphthalene	6.057	128	101806	4.753	ug/ml	99
37) Benzoic Acid	5.816	105	16602	3.620	ug/ml	92
38) 4-Chloroaniline	6.122	65	11970	4.973	ug/ml	91
39) Hexachlorobutadiene	6.210	225	23051	4.592	ug/ml	99
40) p-Chloro-m-cresol	6.616	107	27572	4.875	ug/ml	94
41) 2-Methylnaphthalene	6.740	142	66348	4.555	ug/ml	96
42) 1-Methylnaphthalene	6.828	115	22232	4.437	ug/ml	95
43) Hexachlorocyclopentadiene	6.910	237	23071	4.502	ug/ml	100
44) 2,4,6-Trichlorophenol	7.022	196	25423	4.853	ug/ml	99
45) 2,4,5-Trichlorophenol	7.051	196	26339	4.914	ug/ml	99
47) 2-Chloronaphthalene	7.204	162	71163	4.593	ug/ml	94
48) 2-Nitroaniline	7.310	138	19492	4.761	ug/ml	95
49) 1,4-Dinitrobenzene	7.440	168	9710	4.835	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	11279	4.844	ug/ml	90
51) Dimethyl phthalate	7.510	163	84473	4.482	ug/ml	100
52) Acenaphthylene	7.604	152	108184	4.730	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	16668	4.728	ug/ml	94
54) 1,2-Dinitrobenzene	7.599	168	7184	5.312	ug/ml#	1
64) 3-Nitroaniline	7.710	138	18953	5.158	ug/ml	94
65) Acenaphthene	7.775	154	63705	4.647	ug/ml	96
66) 2,4-Dinitrophenol	7.810	184	9041	4.592	ug/ml#	83
67) Dibenzofuran	7.946	168	106110	4.697	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	23907	5.072	ug/ml	92
69) 4-Nitrophenol	7.310	65	17559	4.932	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	23788	5.137	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.075	232	22430	4.930	ug/ml	98
72) Diethyl phthalate	8.198	149	82467	4.511	ug/ml	95
73) Fluorene	8.275	166	82653	4.698	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.293	204	42516	4.434	ug/ml#	82

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.298	138	20520	5.308	ug/ml	96
76)	4,6-Dinitro-o-cresol	8.334	198	12548	4.193	ug/ml#	78
77)	NDPA/DPA	8.404	169	70812	4.679	ug/ml	95
78)	Azobenzene	8.440	77	77468	4.827	ug/ml	94
80)	4-Bromophenyl phenyl e...	8.763	248	27083	4.409	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	32534	4.215	ug/ml#	86
82)	Pentachlorophenol	9.010	266	18544	5.312	ug/ml	99
89)	Phenanthrene	9.198	178	131334	4.781	ug/ml	99
90)	Anthracene	9.251	178	129313	4.811	ug/ml	98
91)	Carbazole	9.416	167	123110	5.002	ug/ml	98
92)	Di-n-butylphthalate	9.798	149	127369	4.744	ug/ml	99
93)	Fluoranthene	10.357	202	152966M3	4.798	ug/ml	
94)	Benzidine	10.504	184	90848	5.183	ug/ml#	97
95)	Pyrene	10.575	202	167321	4.952	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	54658	4.601	ug/ml	93
105)	Benzo(a)anthracene	11.816	228	172947	4.842	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	64802	4.981	ug/ml#	96
107)	Chrysene	11.851	228	167510	4.784	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.922	149	84757	4.772	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	137975	5.069	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	180541	4.929	ug/ml#	96
111)	Benzo(k)fluoranthene	12.951	252	177737M3	5.316	ug/ml	
112)	Benzo(a)pyrene	13.239	252	163243	5.108	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.298	276	187791M6	5.111	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	177411	5.057	ug/ml#	92
116)	Benzo(ghi)perylene	14.563	276	174444	4.927	ug/ml#	93

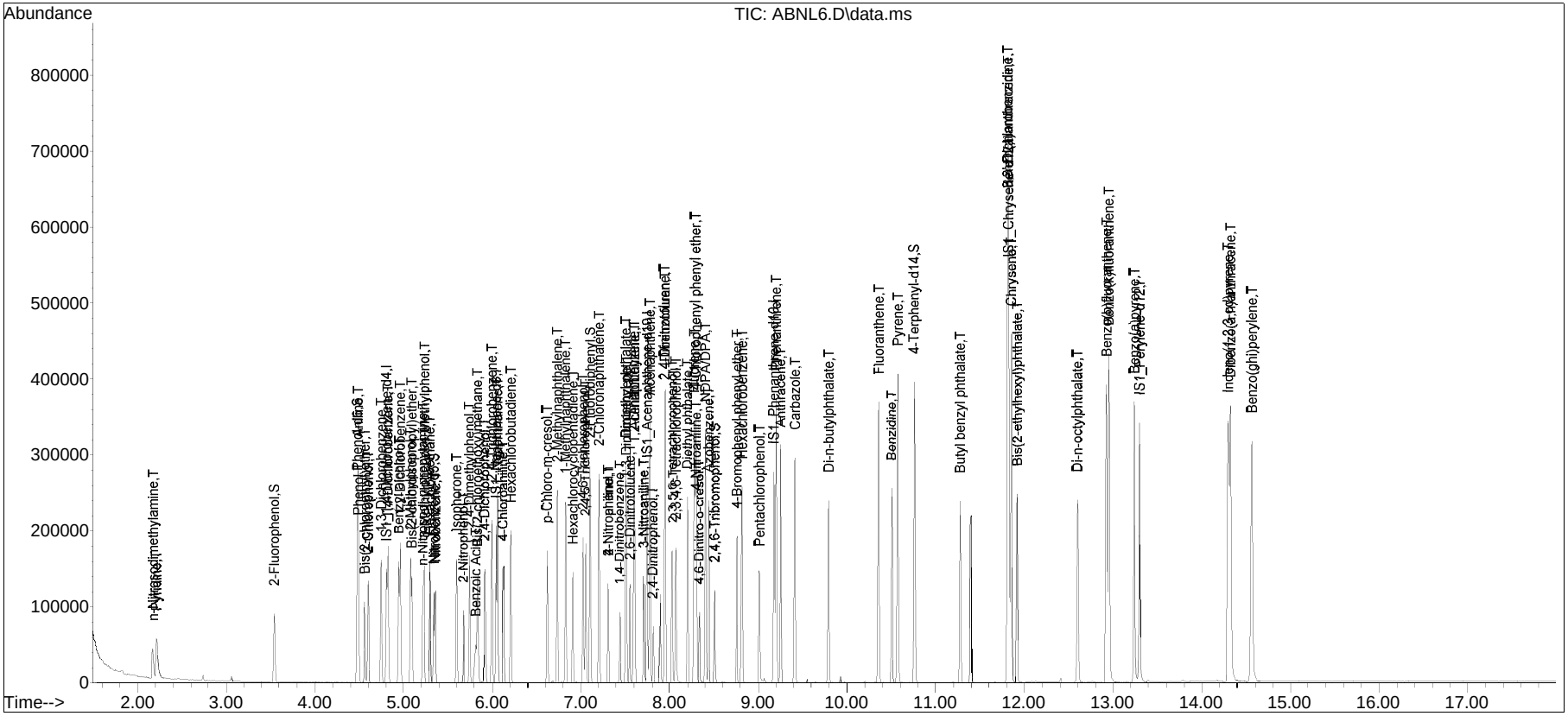
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL6.D
Acq On : 25 Jun 2024 09:27 pm
Operator : SV112:mrg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939943
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 30 14:01:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

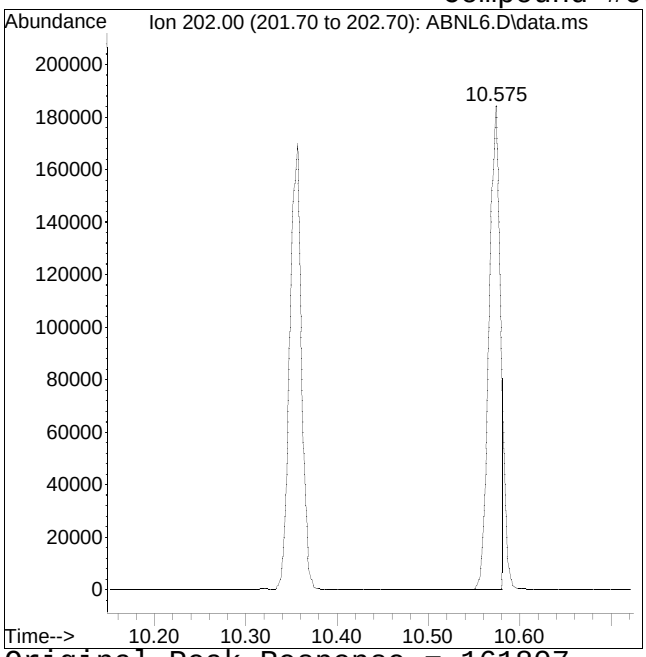
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

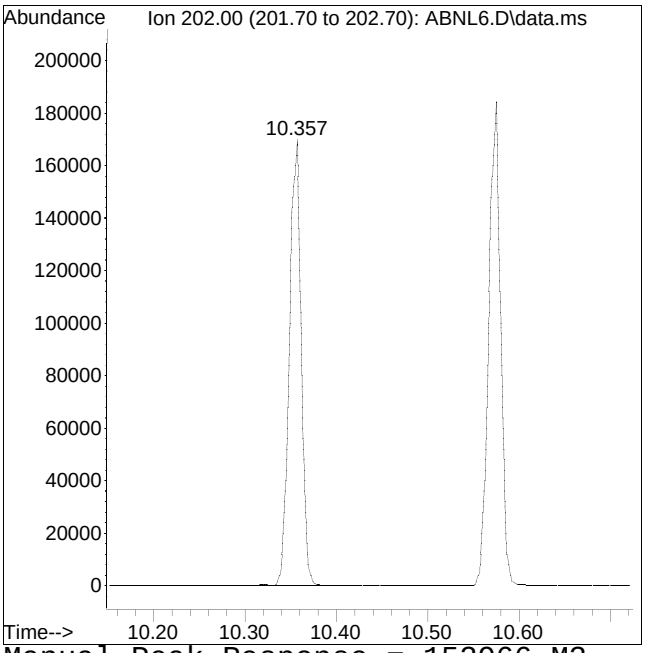


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



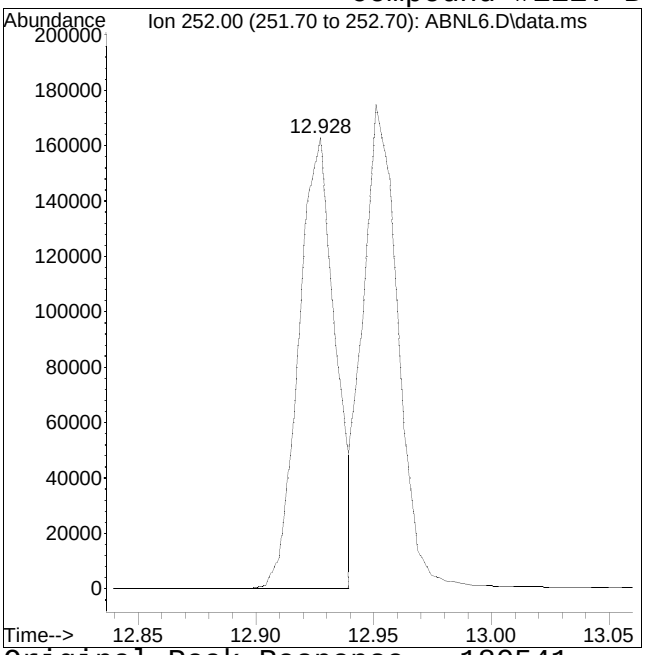


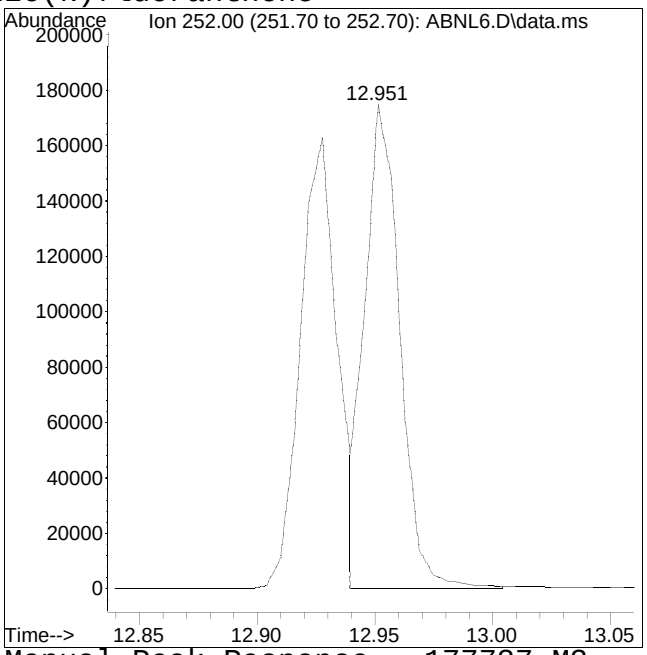
Original Peak Response = 161807 Manual Peak Response = 152966 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



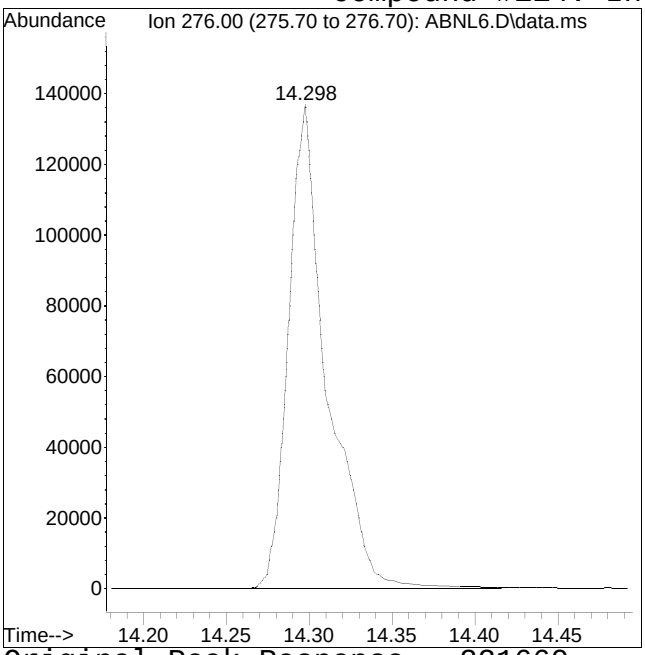


Original Peak Response = 180541 Manual Peak Response = 177737 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

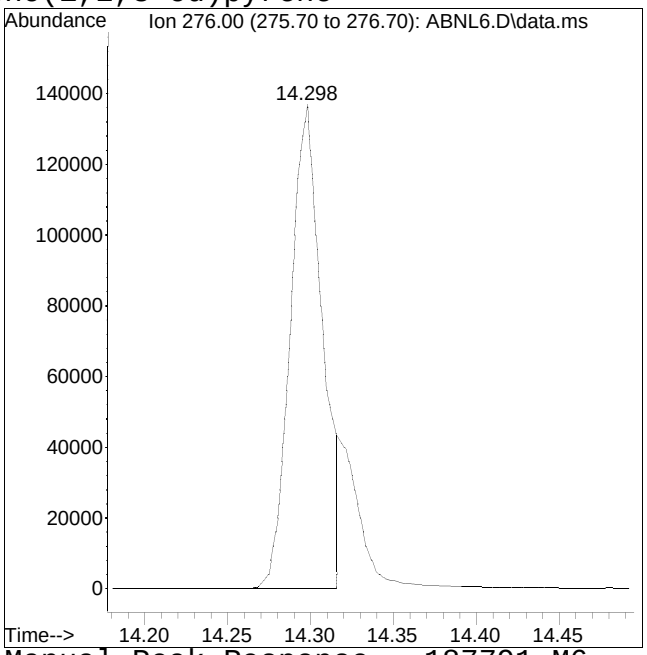
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL6.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:27 pm Instrument : SV112
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 221660



Manual Peak Response = 187791 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	22768	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 107.07%		
35) IS1_Naphthalene-d8	6.040	136	89068	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 109.01%		
63) IS1_Acenaphthene-d10	7.746	164	57600	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 117.10%		
88) IS1_Phenanthrene-d10	9.175	188	128913	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 124.12%		
104) IS1_Chrysene-d12	11.822	240	140560	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 126.37%		
113) IS1_Perylene-d12	13.298	264	160405	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 122.08%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	14512	2.427 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.35%#		
7) Phenol-d6	4.475	99	18344	2.376 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 118.80%#		
19) Nitrobenzene-d5	5.346	82	17874	2.427 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 242.70%#		
46) 2-Fluorobiphenyl	7.104	172	49719	2.469 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 246.90%#		
79) 2,4,6-Tribromophenol	8.510	330	8972	2.641 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 132.05%#		
96) 4-Terphenyl-d14	10.757	244	84283	2.542 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 254.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	9366	2.504 ug/ml#	90
3) Pyridine	2.205	79	14518	2.446 ug/ml	83
5) Aniline	4.487	93	24945	2.420 ug/ml#	51
6) 2-Chlorophenol	4.599	128	16905	2.375 ug/ml	95
8) Phenol	4.487	94	21723	2.420 ug/ml#	46
9) Bis(2-chloroethyl)ether	4.563	93	16266	2.448 ug/ml	96
10) 1,3-Dichlorobenzene	4.746	146	20468	2.384 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	21148	2.360 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	20265	2.413 ug/ml	97
13) Benzyl alcohol	4.952	79	13478	2.507 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	21443	2.555 ug/ml#	62

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.075	108	14305	2.379	ug/ml	96
16) Hexachloroethane	5.299	117	7327	2.308	ug/ml#	62
17) n-Nitrosodi-n-propylamine	5.216	70	12281	2.494	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.234	108	15964	2.438	ug/ml	97
20) Nitrobenzene	5.363	77	18050	2.459	ug/ml	97
21) Isophorone	5.599	82	33596	2.535	ug/ml	98
22) 2-Nitrophenol	5.675	139	8162	2.497	ug/ml	93
23) 2,4-Dimethylphenol	5.746	107	15804	2.521	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	22151	2.483	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	16167	2.464	ug/ml#	93
26) 1,2,4-Trichlorobenzene	5.993	180	19613	2.360	ug/ml	95
36) Naphthalene	6.057	128	55949	2.396	ug/ml	99
37) Benzoic Acid	5.805	105	7164	1.561	ug/ml	98
38) 4-Chloroaniline	6.122	65	6841	2.607	ug/ml	98
39) Hexachlorobutadiene	6.210	225	12562	2.295	ug/ml	97
40) p-Chloro-m-cresol	6.616	107	15516	2.517	ug/ml	97
41) 2-Methylnaphthalene	6.740	142	37292	2.348	ug/ml	96
42) 1-Methylnaphthalene	6.828	115	12837	2.350	ug/ml	95
43) Hexachlorocyclopentadiene	6.910	237	13409	2.401	ug/ml	99
44) 2,4,6-Trichlorophenol	7.022	196	14191	2.485	ug/ml	99
45) 2,4,5-Trichlorophenol	7.051	196	14289M3	2.446	ug/ml	
47) 2-Chloronaphthalene	7.204	162	41100	2.433	ug/ml	94
48) 2-Nitroaniline	7.310	138	10733	2.405	ug/ml	94
49) 1,4-Dinitrobenzene	7.440	168	5423	2.477	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	6188	2.438	ug/ml	95
51) Dimethyl phthalate	7.510	163	51429	2.503	ug/ml	99
52) Acenaphthylene	7.604	152	63219	2.535	ug/ml	99
53) 2,6-Dinitrotoluene	7.551	165	9849	2.563	ug/ml	95
54) 1,2-Dinitrobenzene	7.599	168	4033	2.736	ug/ml#	1
64) 3-Nitroaniline	7.710	138	10758	2.500	ug/ml	97
65) Acenaphthene	7.775	154	37917	2.362	ug/ml	96
66) 2,4-Dinitrophenol	7.810	184	4775	2.291	ug/ml#	83
67) Dibenzofuran	7.946	168	63041	2.383	ug/ml	94
68) 2,4-Dinitrotoluene	7.940	165	13917	2.521	ug/ml	93
69) 4-Nitrophenol	7.310	65	9511	2.281	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	13736	2.533	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.075	232	14002	2.628	ug/ml	98
72) Diethyl phthalate	8.198	149	53794	2.513	ug/ml	97
73) Fluorene	8.275	166	49869	2.421	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	26566	2.366	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.298	138	11886	2.626	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.334	198	7380	2.221	ug/ml#	76
77)	NDPA/DPA	8.404	169	43143	2.435	ug/ml	94
78)	Azobenzene	8.440	77	46861	2.493	ug/ml#	94
80)	4-Bromophenyl phenyl e...	8.763	248	16949	2.356	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	21027	2.327	ug/ml#	84
82)	Pentachlorophenol	9.010	266	10924	2.672	ug/ml	98
89)	Phenanthrene	9.198	178	81747	2.397	ug/ml	98
90)	Anthracene	9.245	178	80680	2.418	ug/ml	99
91)	Carbazole	9.410	167	75932	2.486	ug/ml	99
92)	Di-n-butylphthalate	9.798	149	86882	2.607	ug/ml	99
93)	Fluoranthene	10.357	202	97797M3	2.472	ug/ml	
94)	Benzidine	10.504	184	56239	2.585	ug/ml#	98
95)	Pyrene	10.575	202	105090	2.506	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	36400	2.469	ug/ml	94
105)	Benzo(a)anthracene	11.816	228	111753	2.476	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	40371	2.456	ug/ml#	96
107)	Chrysene	11.851	228	108259	2.447	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.922	149	58065	2.587	ug/ml#	99
109)	Di-n-octylphthalate	12.598	149	89425	2.600	ug/ml	97
110)	Benzo(b)fluoranthene	12.928	252	112721	2.435	ug/ml#	95
111)	Benzo(k)fluoranthene	12.951	252	107892M3	2.553	ug/ml	
112)	Benzo(a)pyrene	13.239	252	98942	2.450	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.298	276	100988M6	2.252	ug/mL	
115)	Dibenzo(a,h)anthracene	14.322	278	102782	2.400	ug/ml#	91
116)	Benzo(ghi)perylene	14.557	276	101454	2.347	ug/ml#	93

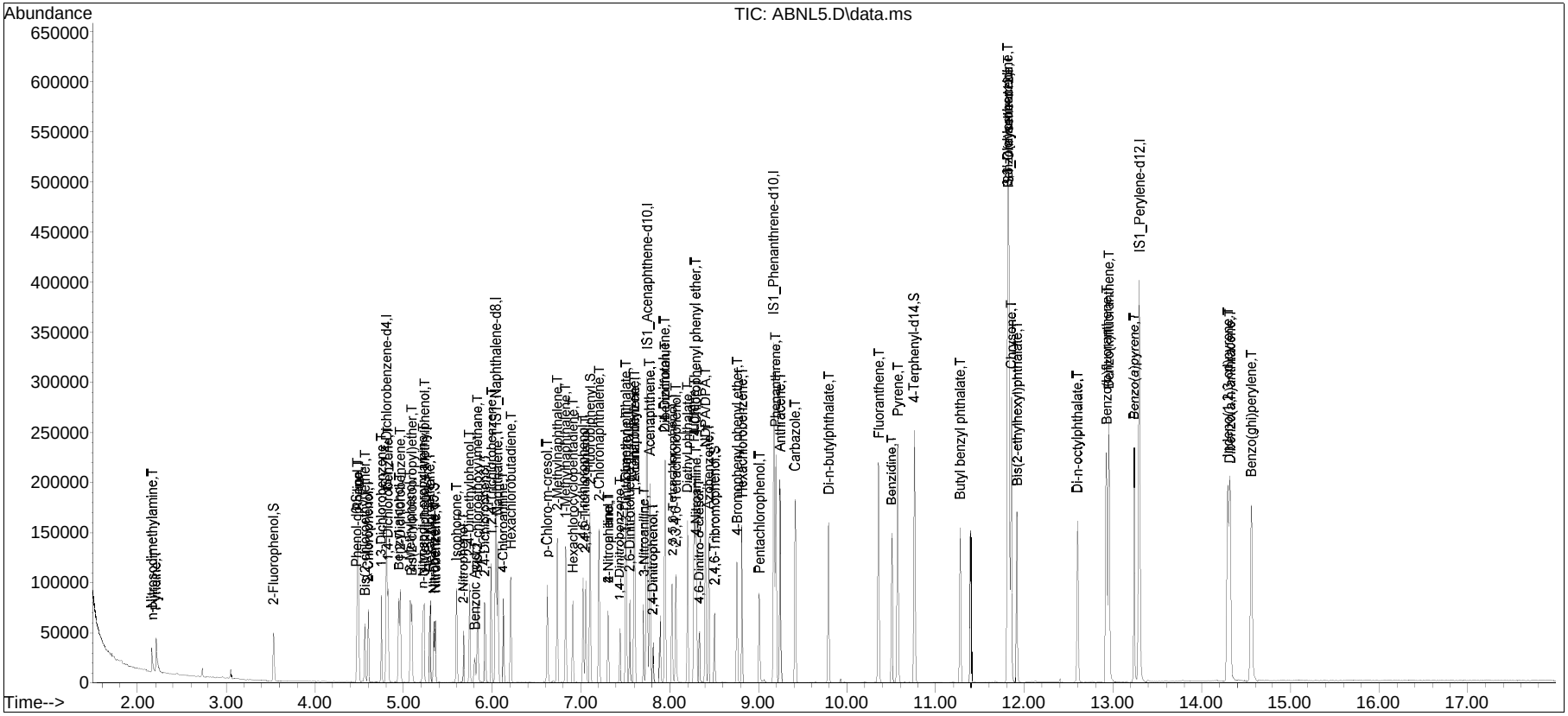
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL5.D
Acq On : 25 Jun 2024 09:50 pm
Operator : SV112:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939943
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 14:01:31 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

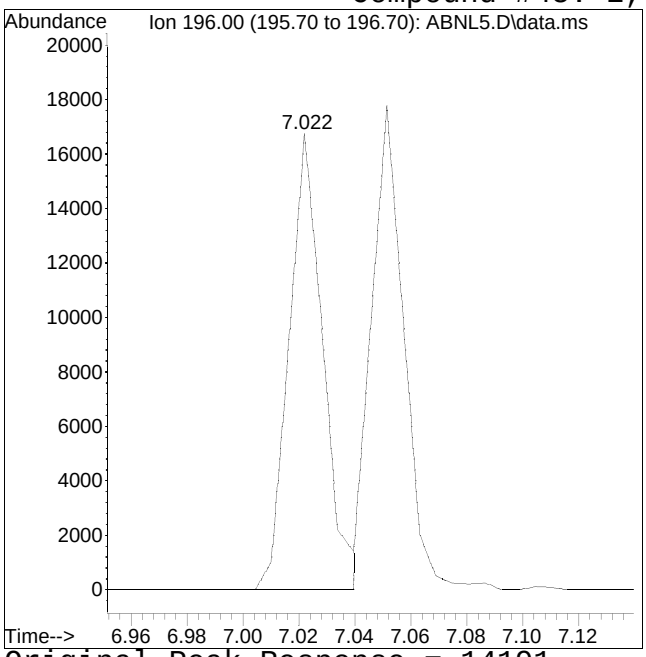
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

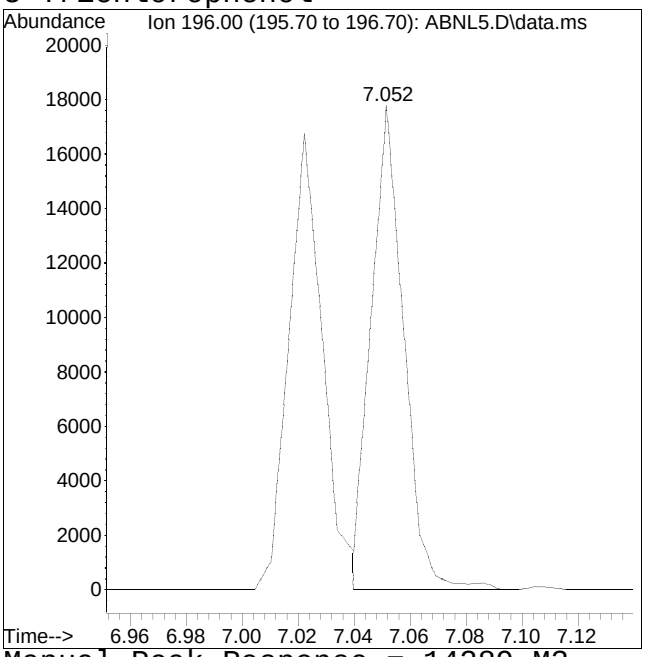


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





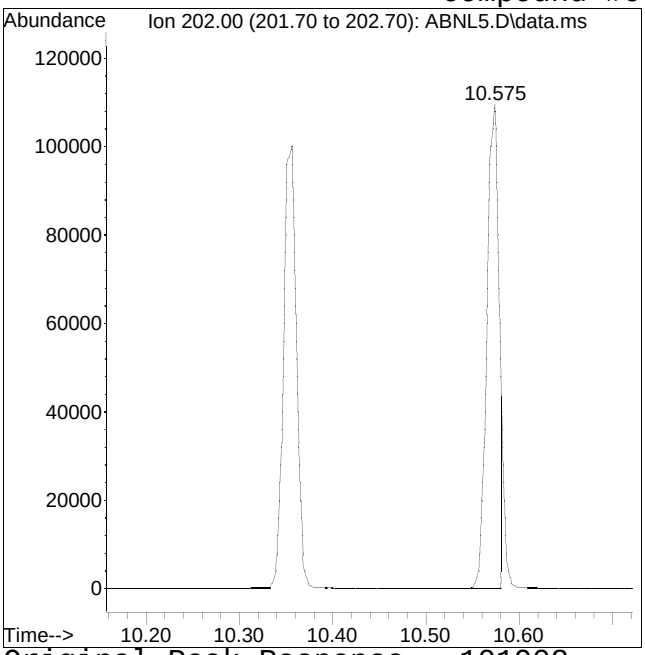
Original Peak Response = 14191 Manual Peak Response = 14289 M3

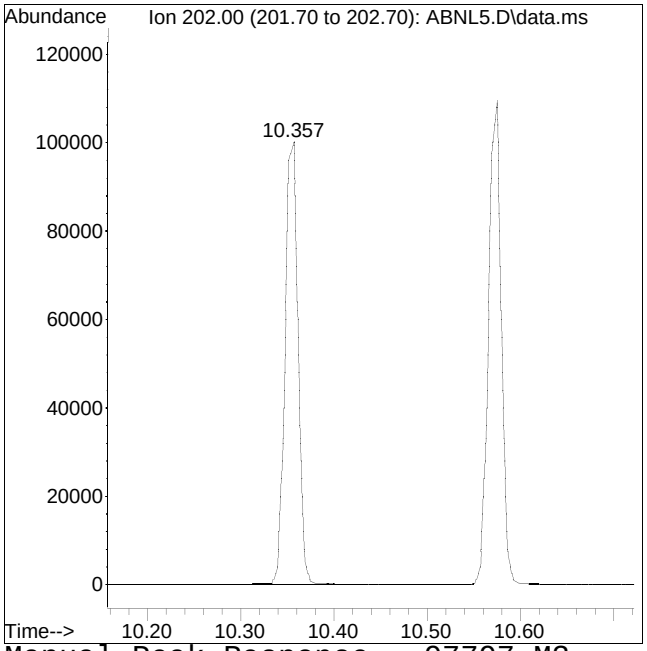
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



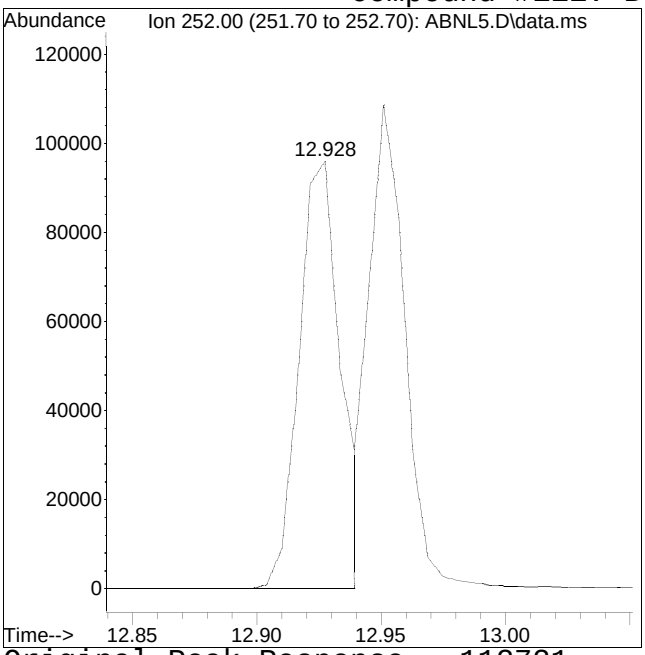


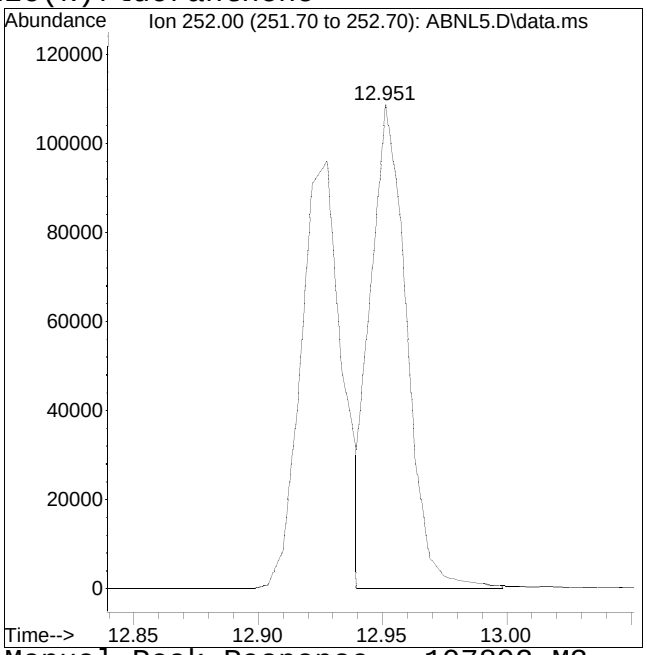
Original Peak Response = 101902 Manual Peak Response = 97797 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene





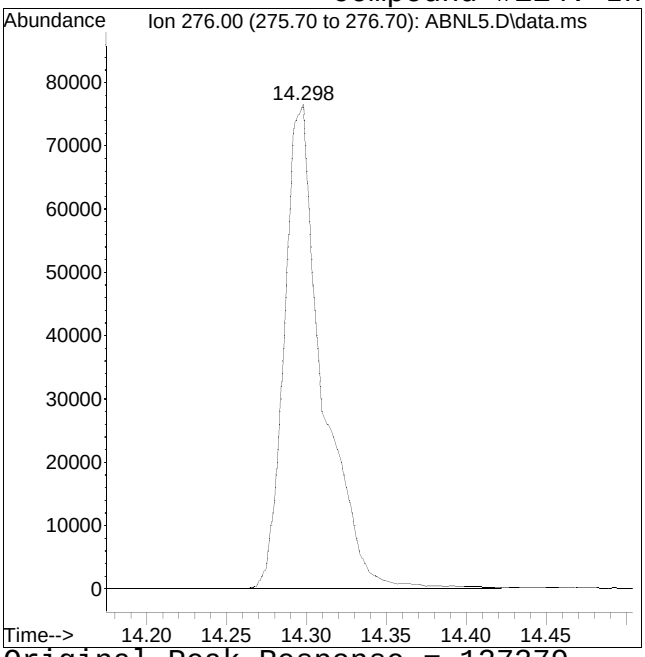
Original Peak Response = 112721 Manual Peak Response = 107892 M3

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

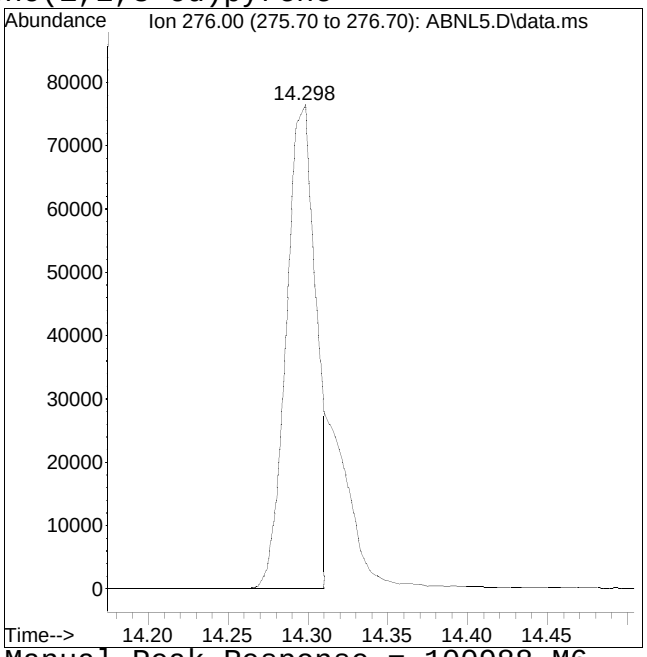
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL5.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 9:50 pm Instrument : SV112
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 127379



Manual Peak Response = 100988 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21971	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 103.32%		
35) IS1_Naphthalene-d8	6.040	136	81871	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 100.20%		
63) IS1_Acenaphthene-d10	7.746	164	51003	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 103.69%		
88) IS1_Phenanthrene-d10	9.175	188	114527	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 110.27%		
104) IS1_Chrysene-d12	11.822	240	118727	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 106.74%		
113) IS1_Perylene-d12	13.298	264	135825	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 103.37%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	5831	1.011 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.55%		
7) Phenol-d6	4.475	99	7170	0.962 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.10%		
19) Nitrobenzene-d5	5.346	82	6892	0.970 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 97.00%		
46) 2-Fluorobiphenyl	7.105	172	19055	1.029 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 102.90%		
79) 2,4,6-Tribromophenol	8.510	330	3052	1.015 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.75%		
96) 4-Terphenyl-d14	10.757	244	30038	1.020 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 102.00%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.170	74	3686	1.021 ug/ml#	93
3) Pyridine	2.223	79	5843	1.020 ug/ml	86
5) Aniline	4.487	93	10129	1.018 ug/ml#	57
6) 2-Chlorophenol	4.599	128	6816	0.992 ug/ml	91
8) Phenol	4.487	94	8446	0.975 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.564	93	6320	0.986 ug/ml	96
10) 1,3-Dichlorobenzene	4.752	146	8338	1.006 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	8437	0.975 ug/ml	95
12) 1,2-Dichlorobenzene	4.969	146	7964	0.983 ug/ml	96
13) Benzyl alcohol	4.952	79	5260	1.014 ug/ml	97
14) Bis(2-chloroisopropyl)...	5.093	45	7818	0.965 ug/ml#	54

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	5788	0.997	ug/ml	97
16) Hexachloroethane	5.299	117	3236	1.056	ug/ml#	68
17) n-Nitrosodi-n-propylamine	5.216	70	4669	0.982	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.234	108	6209	0.983	ug/ml	97
20) Nitrobenzene	5.364	77	6860	0.969	ug/ml	97
21) Isophorone	5.599	82	12488	0.977	ug/ml	98
22) 2-Nitrophenol	5.675	139	2906	0.921	ug/ml	96
23) 2,4-Dimethylphenol	5.746	107	6147	1.016	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.834	93	8312	0.966	ug/ml	98
25) 2,4-Dichlorophenol	5.916	162	6110	0.965	ug/ml#	94
26) 1,2,4-Trichlorobenzene	5.993	180	8116	1.012	ug/ml#	95
36) Naphthalene	6.058	128	22245	1.036	ug/ml	98
37) Benzoic Acid	5.799	105	1481	0.516	ug/ml#	76
38) 4-Chloroaniline	6.122	65	2368	0.982	ug/ml	83
39) Hexachlorobutadiene	6.211	225	5202	1.034	ug/ml	100
40) p-Chloro-m-cresol	6.616	107	5573	0.983	ug/ml	94
41) 2-Methylnaphthalene	6.740	142	15181	1.040	ug/ml	98
42) 1-Methylnaphthalene	6.828	115	4843	0.965	ug/ml	93
43) Hexachlorocyclopentadiene	6.910	237	5175	1.008	ug/ml	98
44) 2,4,6-Trichlorophenol	7.022	196	5165	0.984	ug/ml	98
45) 2,4,5-Trichlorophenol	7.052	196	5154M3	0.960	ug/ml	
47) 2-Chloronaphthalene	7.205	162	15791	1.017	ug/ml	93
48) 2-Nitroaniline	7.310	138	3812	0.929	ug/ml	96
49) 1,4-Dinitrobenzene	7.440	168	1908	0.948	ug/ml	93
50) 1,3-Dinitrobenzene	7.516	168	2180	0.934	ug/ml	97
51) Dimethyl phthalate	7.510	163	19090	1.011	ug/ml	100
52) Acenaphthylene	7.605	152	22822	0.996	ug/ml	98
53) 2,6-Dinitrotoluene	7.552	165	3378	0.956	ug/ml	93
54) 1,2-Dinitrobenzene	7.599	168	1385	1.022	ug/ml#	1
64) 3-Nitroaniline	7.710	138	3743	0.982	ug/ml#	91
65) Acenaphthene	7.775	154	14322	1.008	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	1211	0.928	ug/ml	90
67) Dibenzofuran	7.946	168	24795	1.058	ug/ml	90
68) 2,4-Dinitrotoluene	7.940	165	4660	0.953	ug/ml	96
69) 4-Nitrophenol	7.310	65	3499	0.948	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	4594	0.957	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.075	232	4589	0.973	ug/ml	96
72) Diethyl phthalate	8.199	149	19050	1.005	ug/ml	95
73) Fluorene	8.275	166	18140	0.994	ug/ml	95
74) 4-Chlorophenyl phenyl ...	8.293	204	10082	1.014	ug/ml#	80

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	4142	1.033	ug/ml	95
76)	4,6-Dinitro-o-cresol	8.334	198	2313	0.936	ug/ml#	72
77)	NDPA/DPA	8.405	169	16167	1.030	ug/ml	96
78)	Azobenzene	8.440	77	17038	1.024	ug/ml	92
80)	4-Bromophenyl phenyl e...	8.763	248	6271	0.985	ug/ml#	81
81)	Hexachlorobenzene	8.816	284	8157	1.019	ug/ml#	86
82)	Pentachlorophenol	9.005	266	3465	0.957	ug/ml	98
89)	Phenanthrene	9.199	178	31199	1.030	ug/ml	98
90)	Anthracene	9.246	178	29870	1.008	ug/ml	99
91)	Carbazole	9.410	167	27149	1.000	ug/ml	98
92)	Di-n-butylphthalate	9.793	149	30017	1.014	ug/ml	99
93)	Fluoranthene	10.351	202	35822M3	1.019	ug/ml	
94)	Benzidine	10.504	184	18506	0.957	ug/ml#	96
95)	Pyrene	10.569	202	37816	1.015	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	11835	0.903	ug/ml#	93
105)	Benzo(a)anthracene	11.810	228	38609	1.013	ug/ml	100
106)	3,3'-Dichlorobenzidine	11.810	252	13078	0.942	ug/ml#	96
107)	Chrysene	11.851	228	39448	1.055	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.916	149	17903	0.944	ug/ml#	97
109)	Di-n-octylphthalate	12.598	149	26346	0.907	ug/ml#	97
110)	Benzo(b)fluoranthene	12.922	252	41187	1.053	ug/ml#	92
111)	Benzo(k)fluoranthene	12.951	252	35681M3	1.000	ug/ml	
112)	Benzo(a)pyrene	13.240	252	34861	1.022	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.292	276	35897M6	0.945	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	37295	1.028	ug/ml#	92
116)	Benzo(ghi)perylene	14.557	276	36653	1.002	ug/ml#	92

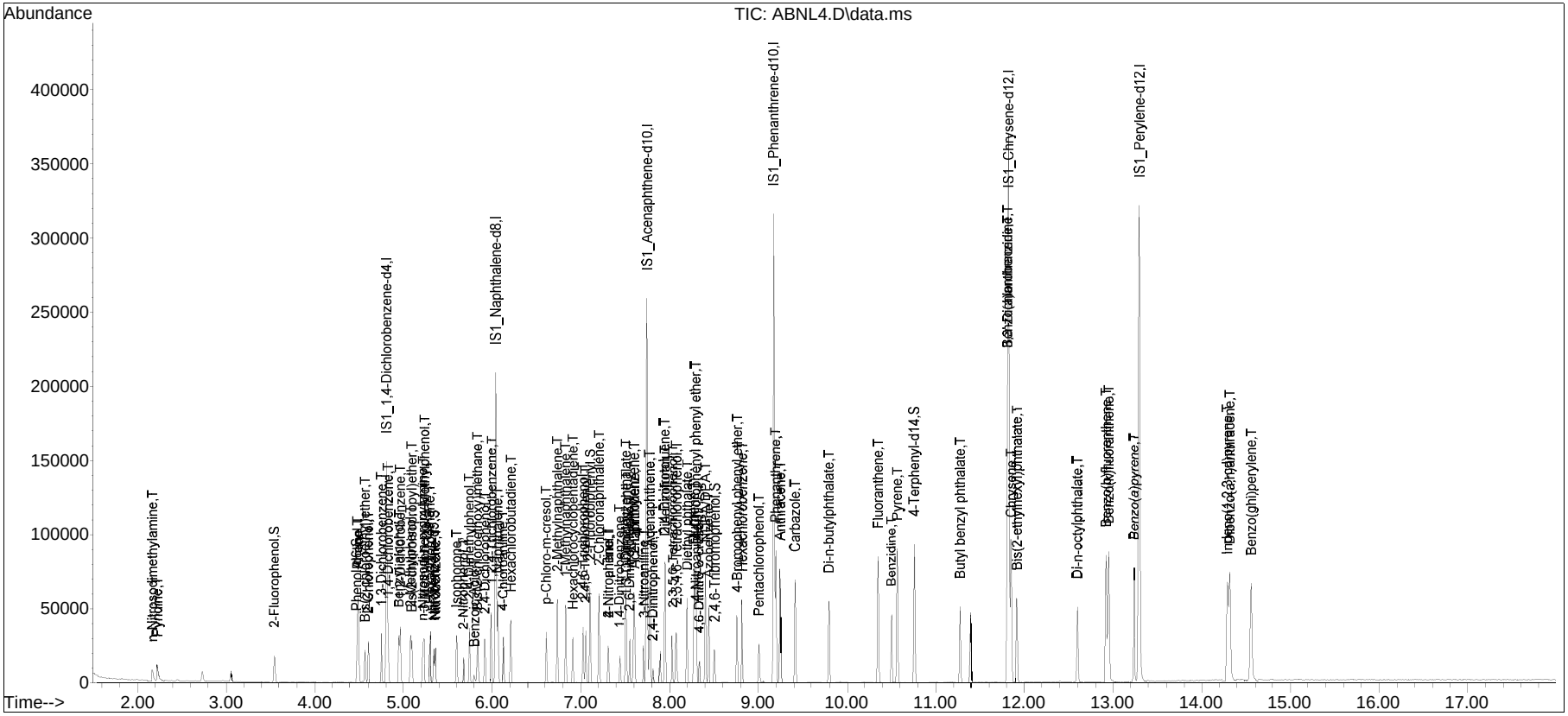
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL4.D
Acq On : 25 Jun 2024 10:14 pm
Operator : SV112:mrg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939943
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 14:01:23 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

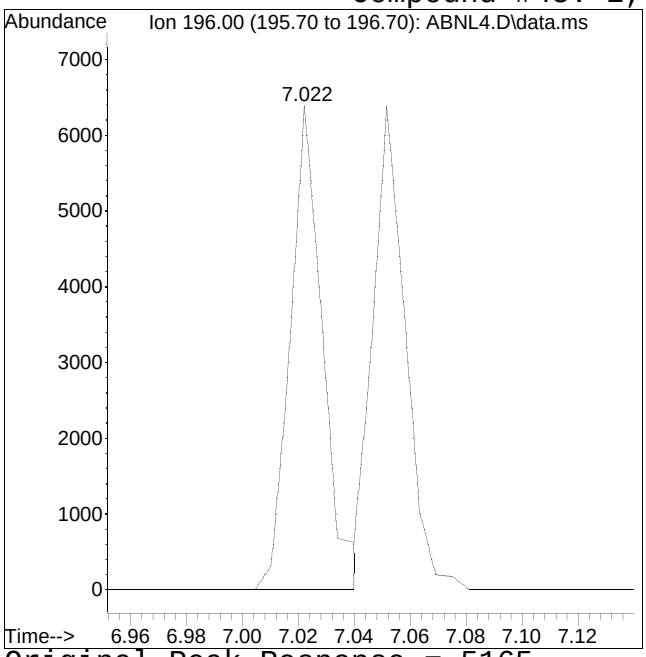
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

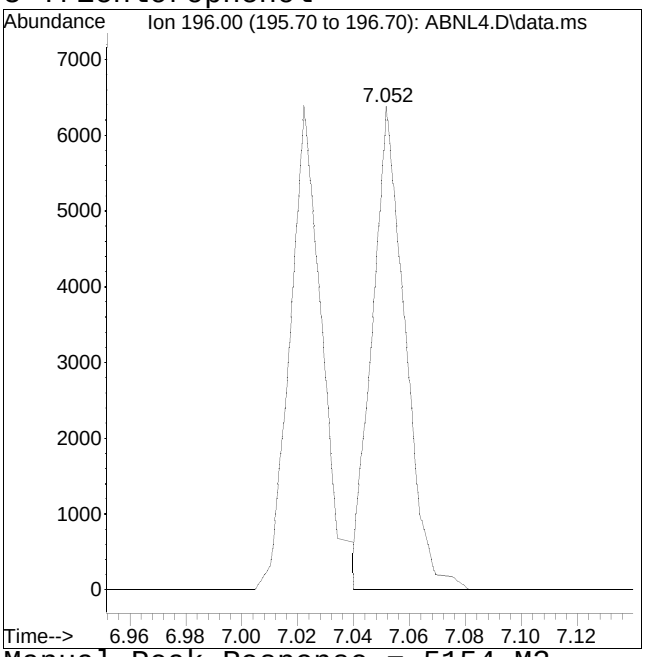


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





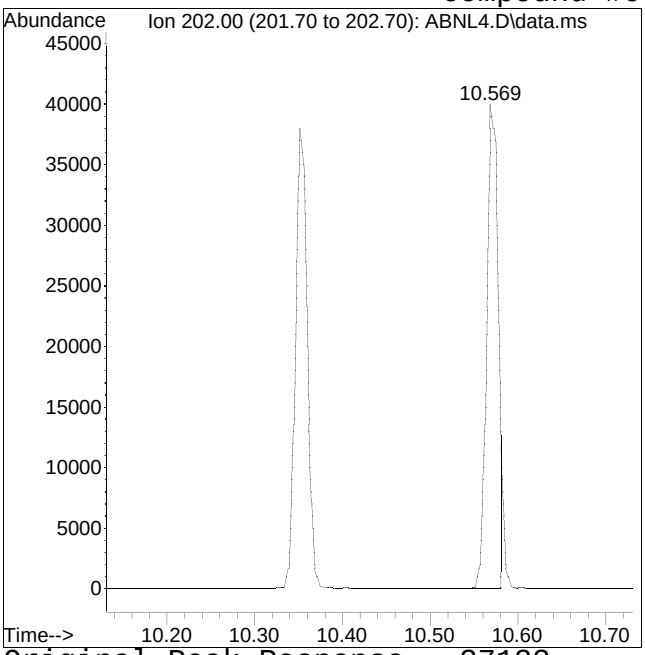
Original Peak Response = 5165 Manual Peak Response = 5154 M3

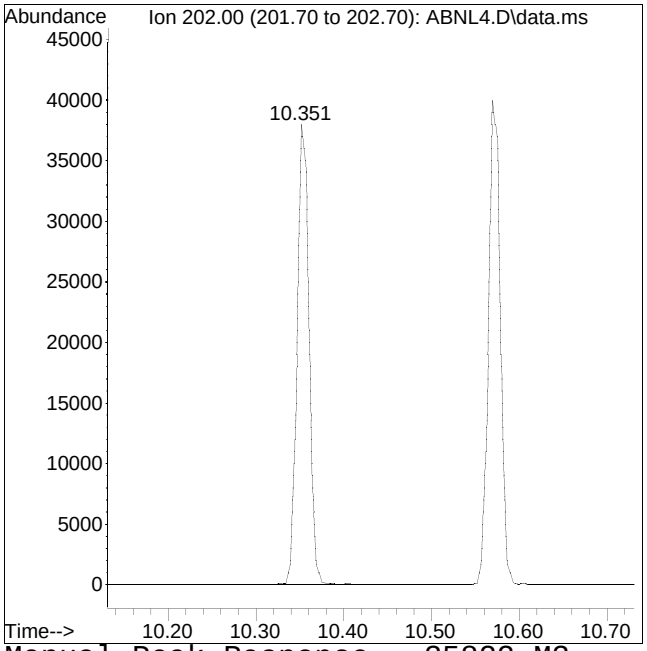
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene





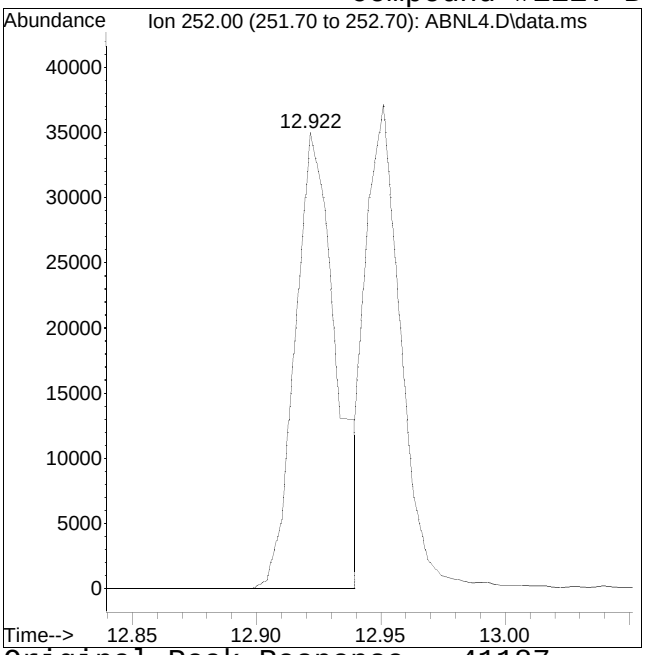
Original Peak Response = 37133 Manual Peak Response = 35822 M3

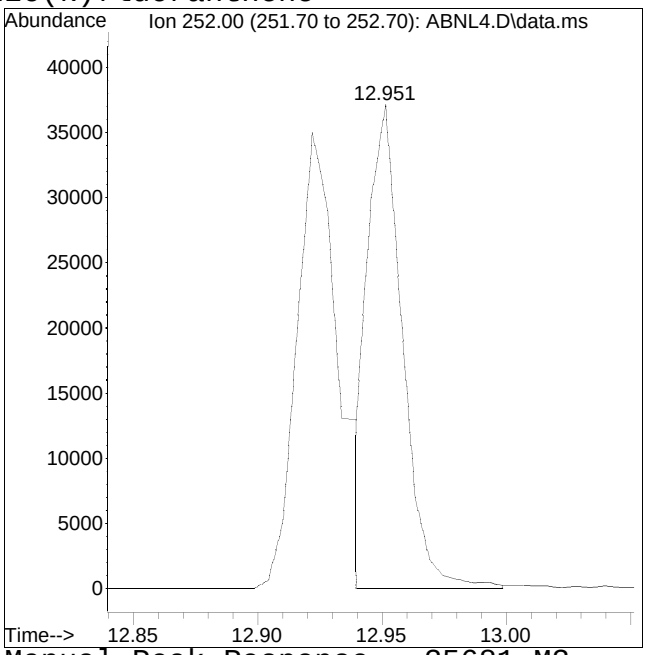
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



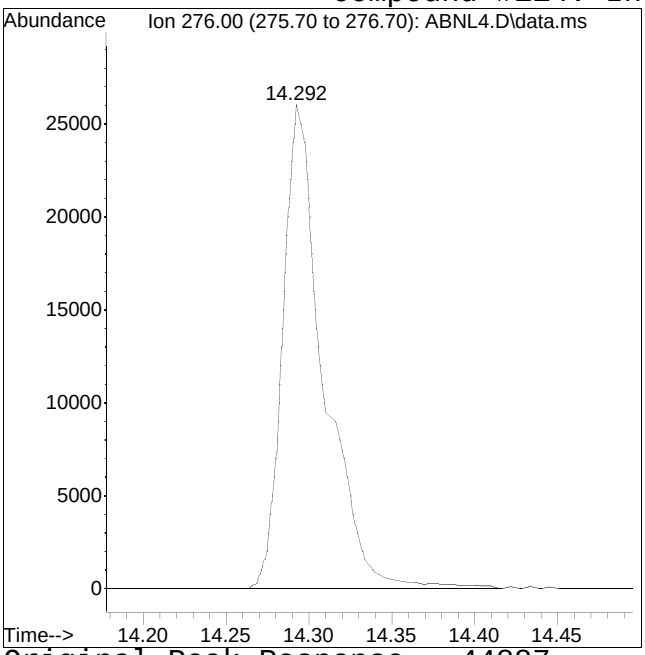


Original Peak Response = 41187 Manual Peak Response = 35681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

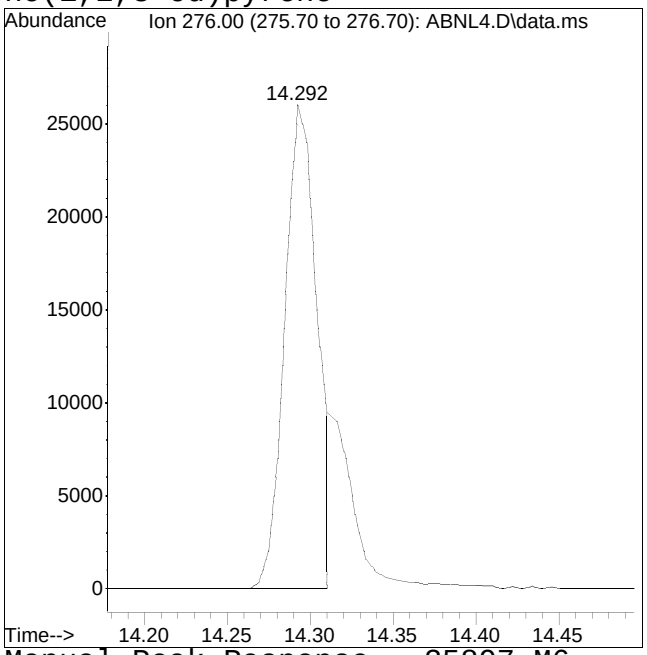
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL4.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:14 pm Instrument : SV112
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 44887



Manual Peak Response = 35897 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	21531	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 101.25%		
35) IS1_Naphthalene-d8	6.040	136	80456	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.47%		
63) IS1_Acenaphthene-d10	7.746	164	49615	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 100.87%		
88) IS1_Phenanthrene-d10	9.175	188	113431	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 109.22%		
104) IS1_Chrysene-d12	11.822	240	119417	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 107.36%		
113) IS1_Perylene-d12	13.298	264	139944	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 106.51%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	3059	0.541 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.05%		
7) Phenol-d6	4.475	99	3674	0.503 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.15%		
19) Nitrobenzene-d5	5.346	82	3456	0.496 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.60%		
46) 2-Fluorobiphenyl	7.104	172	9640	0.530 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.00%		
79) 2,4,6-Tribromophenol	8.510	330	1570	0.537 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.85%		
96) 4-Terphenyl-d14	10.757	244	15760	0.540 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.00%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.169	74	1798	0.508 ug/ml#	76
3) Pyridine	2.228	79	2950	0.526 ug/ml	87
5) Aniline	4.487	93	4787	0.491 ug/ml#	52
6) 2-Chlorophenol	4.599	128	3481	0.517 ug/ml	93
8) Phenol	4.487	94	4195	0.494 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.563	93	3281	0.522 ug/ml	97
10) 1,3-Dichlorobenzene	4.752	146	4139	0.510 ug/ml	98
11) 1,4-Dichlorobenzene	4.822	146	4559	0.538 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	4291M3	0.540 ug/ml	
13) Benzyl alcohol	4.952	79	2429	0.478 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	4116	0.519 ug/ml#	55

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.081	108	2845	0.500	ug/ml	99
16) Hexachloroethane	5.299	117	1452	0.484	ug/ml#	51
17) n-Nitrosodi-n-propylamine	5.222	70	2283	0.490	ug/ml#	62
18) 3-Methylphenol/4-Methy...	5.234	108	3088	0.499	ug/ml#	90
20) Nitrobenzene	5.363	77	3379	0.487	ug/ml#	88
21) Isophorone	5.605	82	6143	0.490	ug/ml#	91
22) 2-Nitrophenol	5.675	139	1462	0.473	ug/ml#	76
23) 2,4-Dimethylphenol	5.746	107	3160	0.533	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.834	93	4317	0.512	ug/ml#	91
25) 2,4-Dichlorophenol	5.916	162	2886	0.465	ug/ml	90
26) 1,2,4-Trichlorobenzene	5.993	180	3902	0.497	ug/ml	92
36) Naphthalene	6.057	128	11582	0.549	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.128	65	1170	0.494	ug/ml	78
39) Hexachlorobutadiene	6.210	225	2769	0.560	ug/ml	98
40) p-Chloro-m-cresol	6.616	107	2661	0.478	ug/ml	95
41) 2-Methylnaphthalene	6.740	142	7593	0.529	ug/ml	99
42) 1-Methylnaphthalene	6.828	115	2598	0.527	ug/ml	99
43) Hexachlorocyclopentadiene	6.910	237	2747	0.544	ug/ml#	88
44) 2,4,6-Trichlorophenol	7.022	196	2459	0.477	ug/ml	98
45) 2,4,5-Trichlorophenol	7.052	196	2732M3	0.518	ug/ml	
47) 2-Chloronaphthalene	7.204	162	7927	0.520	ug/ml	91
48) 2-Nitroaniline	7.310	138	2018	0.501	ug/ml	89
49) 1,4-Dinitrobenzene	7.440	168	901	0.456	ug/ml	89
50) 1,3-Dinitrobenzene	7.516	168	1057	0.461	ug/ml	96
51) Dimethyl phthalate	7.510	163	10143	0.547	ug/ml#	97
52) Acenaphthylene	7.604	152	12026	0.534	ug/ml	98
53) 2,6-Dinitrotoluene	7.551	165	1638	0.472	ug/ml	96
54) 1,2-Dinitrobenzene	7.599	168	626	0.470	ug/ml#	1
64) 3-Nitroaniline	7.710	138	1781	0.481	ug/ml#	87
65) Acenaphthene	7.775	154	7604	0.550	ug/ml	97
66) 2,4-Dinitrophenol	7.816	184	490M2	0.607	ug/ml	
67) Dibenzofuran	7.946	168	12935	0.568	ug/ml	92
68) 2,4-Dinitrotoluene	7.940	165	2185	0.460	ug/ml	100
69) 4-Nitrophenol	7.310	65	1759	0.490	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	2226	0.477	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	2299	0.501	ug/ml	98
72) Diethyl phthalate	8.199	149	9919	0.538	ug/ml	96
73) Fluorene	8.275	166	9598	0.541	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	5075	0.525	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	1828	0.469	ug/ml	98
76)	4,6-Dinitro-o-cresol	8.334	198	998	0.544	ug/ml#	1
77)	NDPA/DPA	8.404	169	8041	0.527	ug/ml	94
78)	Azobenzene	8.440	77	8517	0.526	ug/ml	94
80)	4-Bromophenyl phenyl e...	8.763	248	3206	0.517	ug/ml#	80
81)	Hexachlorobenzene	8.816	284	4220	0.542	ug/ml#	82
82)	Pentachlorophenol	9.010	266	1607	0.456	ug/ml	98
89)	Phenanthrene	9.198	178	16630	0.554	ug/ml	99
90)	Anthracene	9.246	178	15416	0.525	ug/ml	99
91)	Carbazole	9.410	167	14347	0.534	ug/ml	99
92)	Di-n-butylphthalate	9.798	149	15004	0.512	ug/ml	100
93)	Fluoranthene	10.357	202	18807M3	0.540	ug/ml	
94)	Benzidine	10.504	184	9089	0.475	ug/ml#	97
95)	Pyrene	10.575	202	19930	0.540	ug/ml	98
97)	Butyl benzyl phthalate	11.281	149	6152	0.474	ug/ml#	93
105)	Benzo(a)anthracene	11.810	228	20536	0.536	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	6714	0.481	ug/ml	97
107)	Chrysene	11.851	228	20927	0.557	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	11.922	149	8915	0.468	ug/ml#	97
109)	Di-n-octylphthalate	12.598	149	13695	0.469	ug/ml#	97
110)	Benzo(b)fluoranthene	12.922	252	21894	0.557	ug/ml#	92
111)	Benzo(k)fluoranthene	12.951	252	19443M3	0.542	ug/ml	
112)	Benzo(a)pyrene	13.239	252	18592	0.542	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	14.292	276	19562M6	0.500	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	20134	0.539	ug/ml#	90
116)	Benzo(ghi)perylene	14.557	276	20038	0.531	ug/ml#	93

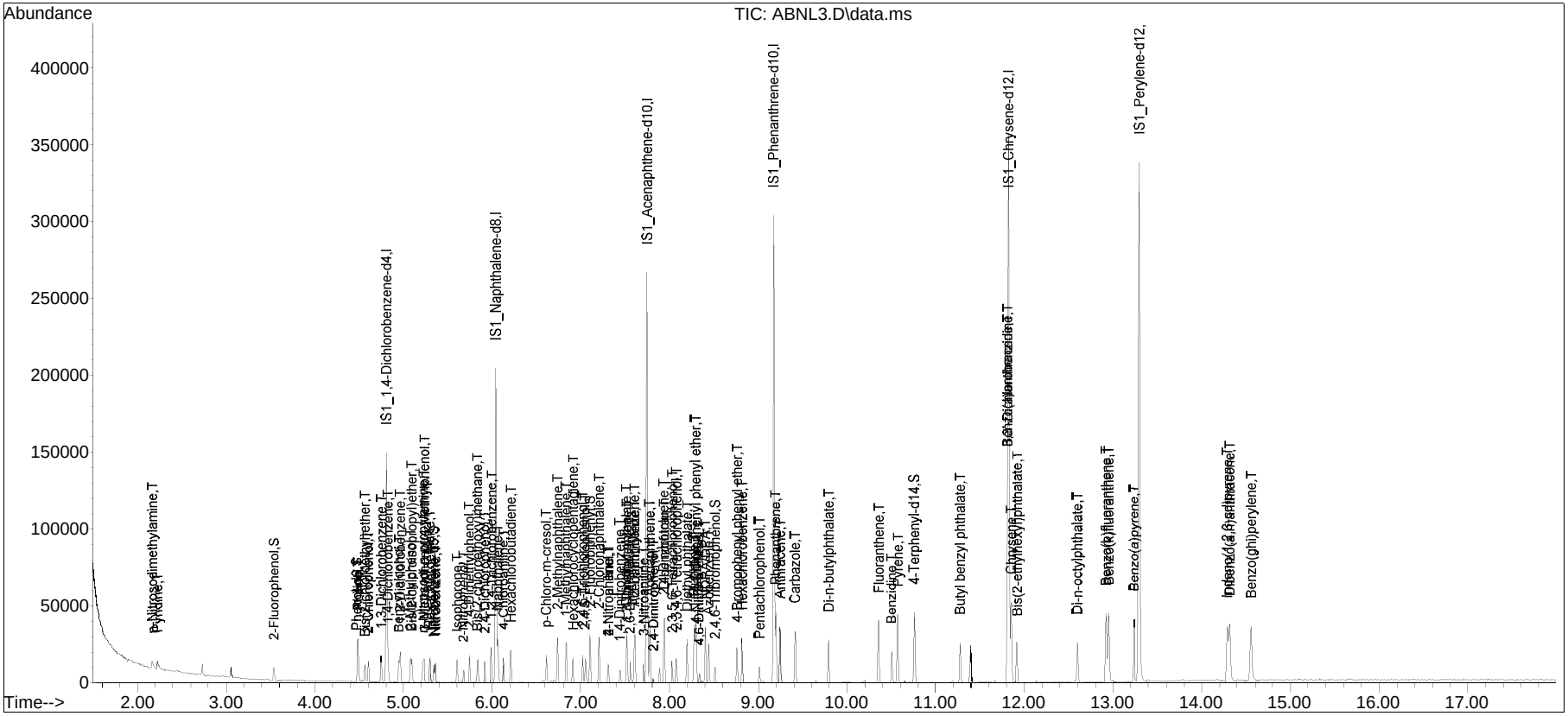
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL3.D
Acq On : 25 Jun 2024 10:37 pm
Operator : SV112:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939943
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:01:14 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

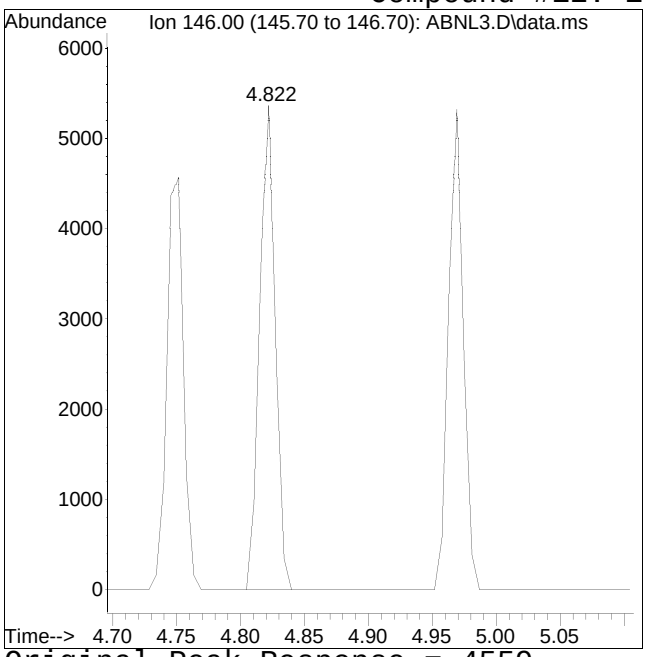
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

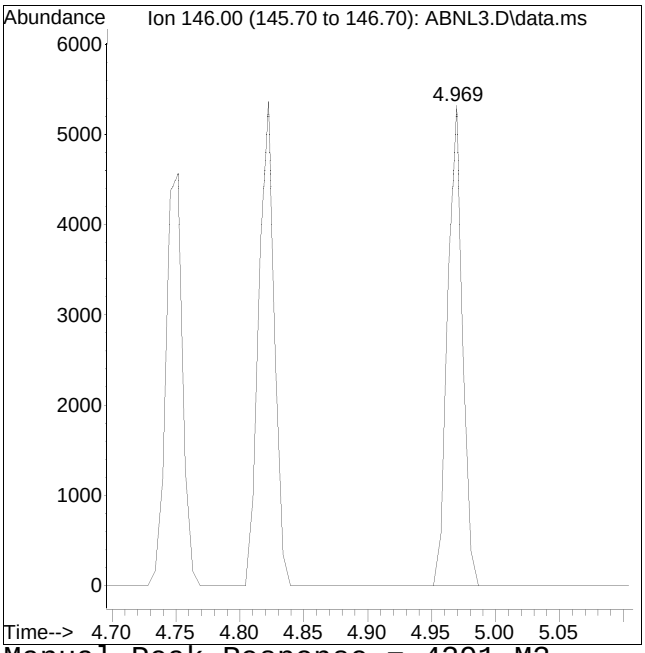


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #12: 1,2-Dichlorobenzene





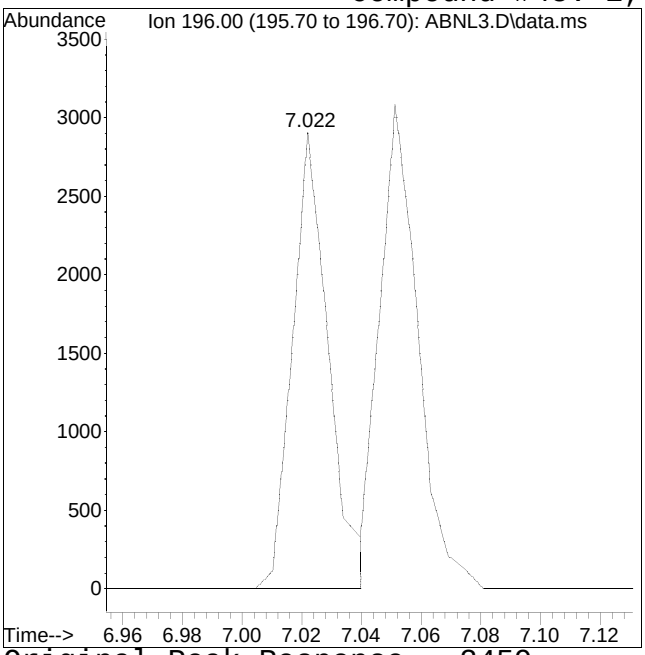
Original Peak Response = 4559 Manual Peak Response = 4291 M3

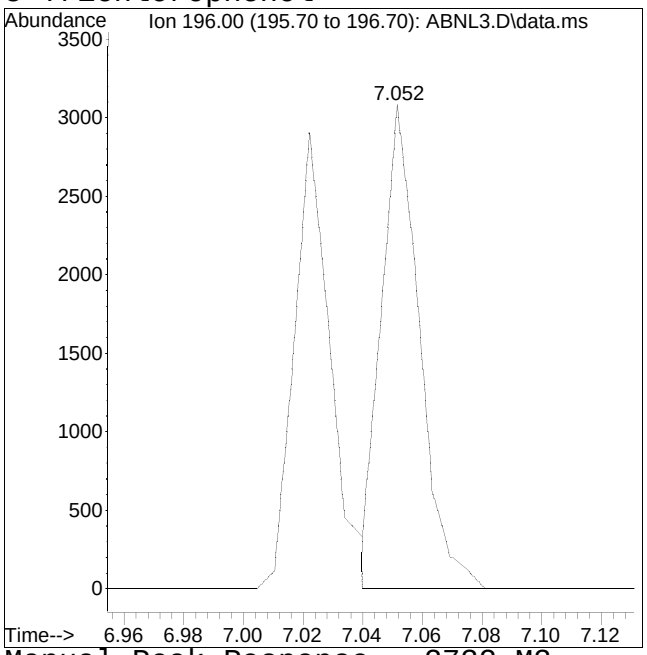
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #45: 2,4,5-Trichlorophenol





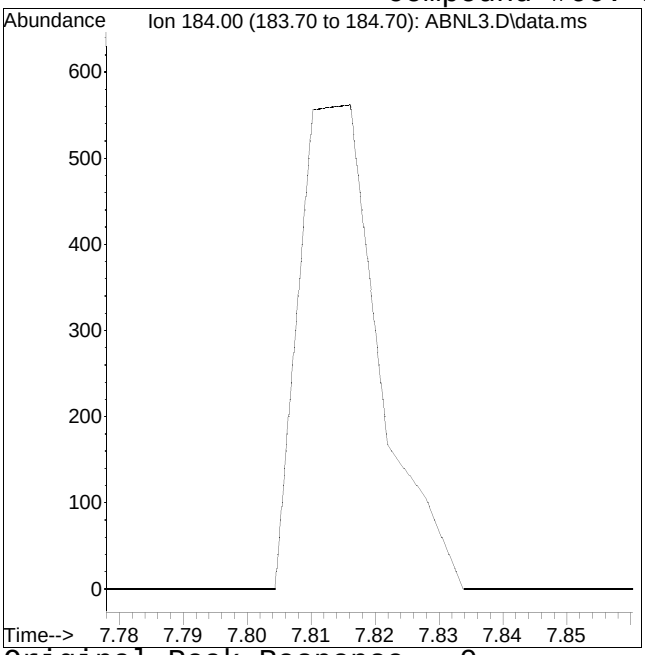
Original Peak Response = 2459 Manual Peak Response = 2732 M3

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

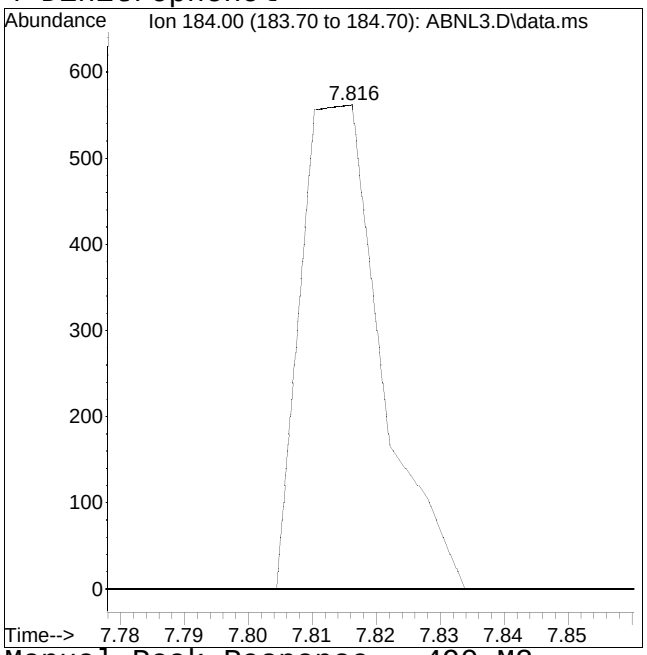
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



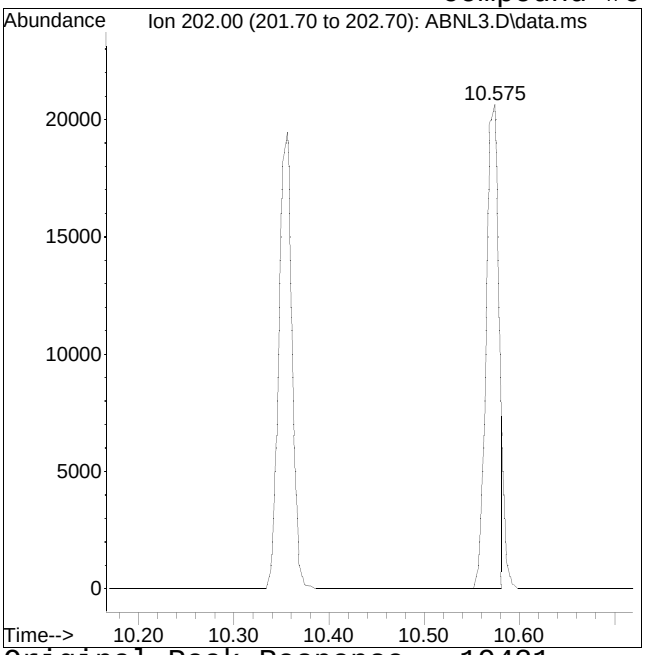
Manual Peak Response = 490 M2

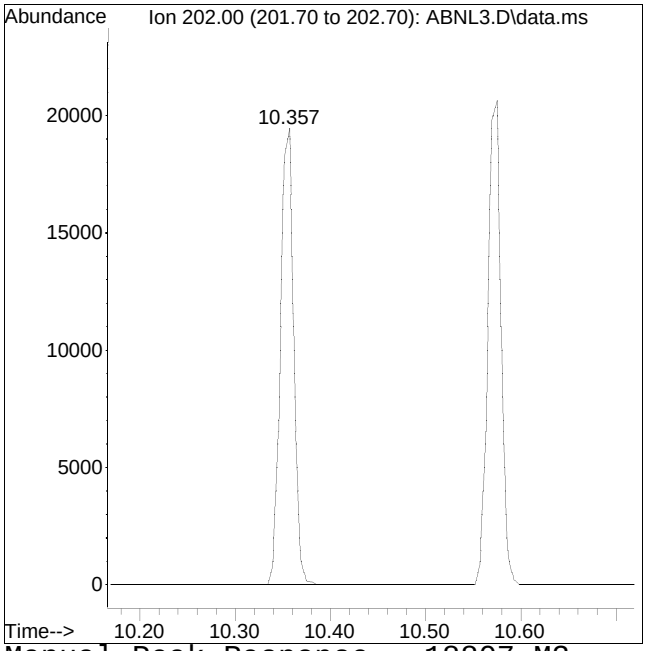
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #93: Fluoranthene



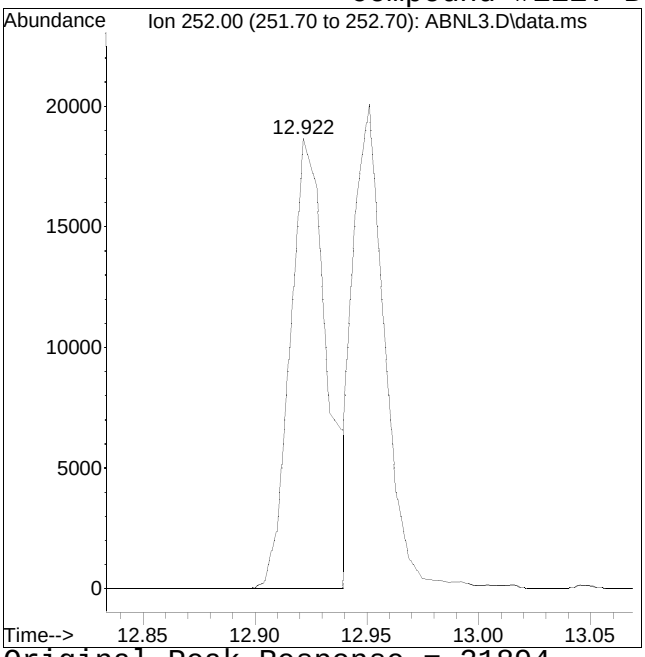


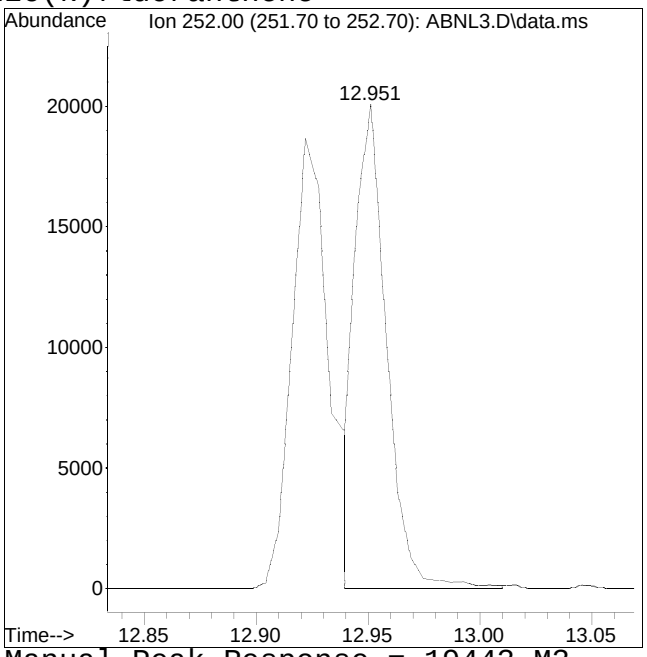
Original Peak Response = 19421 Manual Peak Response = 18807 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #111: Benzo(k)fluoranthene



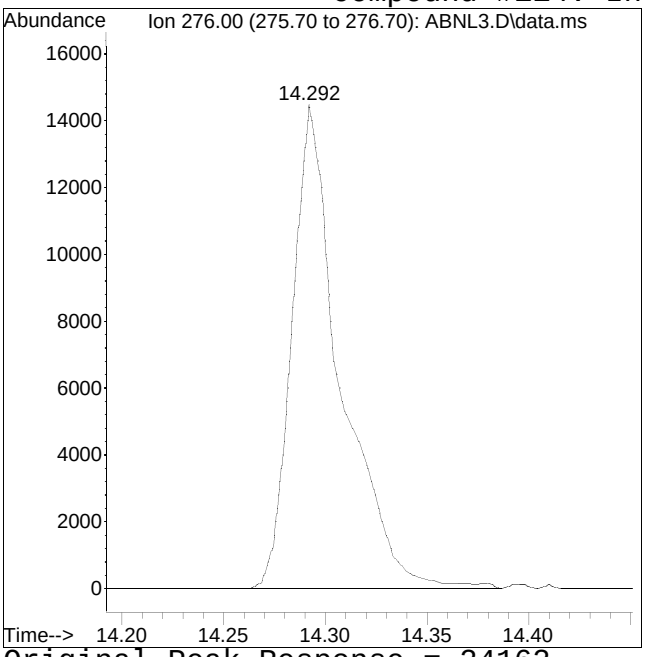


Original Peak Response = 21894 Manual Peak Response = 19443 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

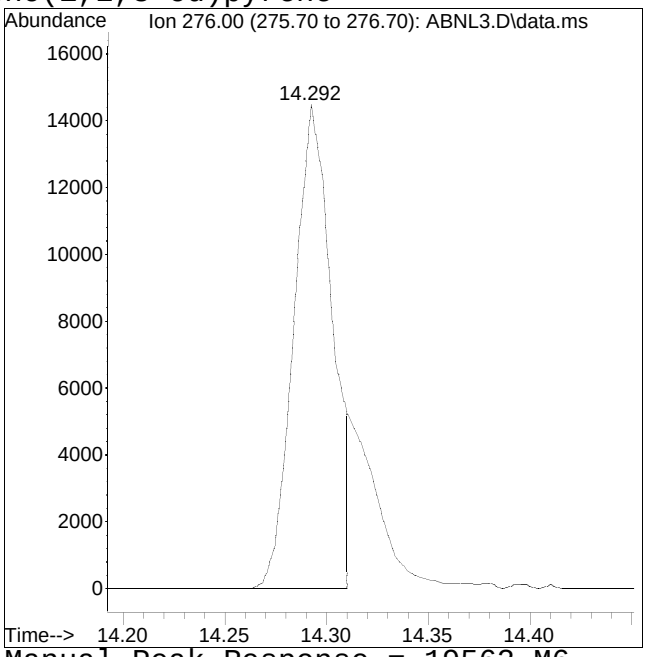
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL3.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 10:37 pm Instrument : SV112
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/30/2024 2:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 24162



Manual Peak Response = 19562 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	19198	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 90.28%		
35) IS1_Naphthalene-d8	6.040	136	71874	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 87.97%		
63) IS1_Acenaphthene-d10	7.745	164	44637	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 90.75%		
88) IS1_Phenanthrene-d10	9.175	188	102635	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 98.82%		
104) IS1_Chrysene-d12	11.822	240	108008	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 97.11%		
113) IS1_Perylene-d12	13.298	264	123684	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 94.13%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	1082	0.215 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.75%#		
7) Phenol-d6	4.475	99	1434	0.220 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.00%#		
19) Nitrobenzene-d5	5.346	82	1409	0.227 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 22.70%#		
46) 2-Fluorobiphenyl	7.104	172	4068	0.250 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 25.00%#		
79) 2,4,6-Tribromophenol	8.504	330	239M2	0.091 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.55%#		
96) 4-Terphenyl-d14	10.757	244	6360	0.241 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 24.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.175	74	656	0.208 ug/ml#	64
3) Pyridine	2.240	79	965	0.193 ug/ml	89
5) Aniline	4.487	93	2027	0.233 ug/ml#	56
6) 2-Chlorophenol	4.599	128	1348	0.225 ug/ml#	72
8) Phenol	4.487	94	1714	0.226 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.563	93	1270	0.227 ug/ml#	82
10) 1,3-Dichlorobenzene	4.752	146	1712	0.236 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	1968	0.260 ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	1608	0.227 ug/ml	88
13) Benzyl alcohol	4.952	79	999	0.220 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.093	45	1733	0.245	ug/ml#	45
15) 2-Methylphenol	5.081	108	1175	0.232	ug/ml#	86
16) Hexachloroethane	5.299	117	641	0.239	ug/ml#	16
17) n-Nitrosodi-n-propylamine	5.222	70	956	0.230	ug/ml#	62
18) 3-Methylphenol/4-Methy...	5.234	108	1267	0.229	ug/ml#	89
20) Nitrobenzene	5.363	77	1400	0.226	ug/ml#	38
21) Isophorone	5.604	82	2427	0.217	ug/ml#	67
22) 2-Nitrophenol	5.675	139	546	0.198	ug/ml#	33
23) 2,4-Dimethylphenol	5.746	107	1160	0.219	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	1855	0.247	ug/ml#	88
25) 2,4-Dichlorophenol	5.916	162	1210	0.219	ug/ml#	72
26) 1,2,4-Trichlorobenzene	5.993	180	1781	0.254	ug/ml#	81
36) Naphthalene	6.057	128	4649	0.247	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.128	65	568	0.268	ug/ml	97
39) Hexachlorobutadiene	6.210	225	1009	0.228	ug/ml	92
40) p-Chloro-m-cresol	6.616	107	1112	0.224	ug/ml#	87
41) 2-Methylnaphthalene	6.740	142	3159	0.247	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	1048	0.238	ug/ml	99
43) Hexachlorocyclopentadiene	6.910	237	1022	0.227	ug/ml#	93
44) 2,4,6-Trichlorophenol	7.022	196	998	0.217	ug/ml#	85
45) 2,4,5-Trichlorophenol	7.051	196	965M3	0.205	ug/ml	
47) 2-Chloronaphthalene	7.204	162	3300	0.242	ug/ml	93
48) 2-Nitroaniline	7.310	138	717	0.199	ug/ml#	65
49) 1,4-Dinitrobenzene	7.440	168	311M2	0.176	ug/ml	
50) 1,3-Dinitrobenzene	7.516	168	394M2	0.192	ug/ml	
51) Dimethyl phthalate	7.510	163	3960	0.239	ug/ml#	77
52) Acenaphthylene	7.604	152	4685	0.233	ug/ml	98
53) 2,6-Dinitrotoluene	7.551	165	619	0.200	ug/ml#	35
54) 1,2-Dinitrobenzene	7.593	168	157M3	0.132	ug/ml	
64) 3-Nitroaniline	7.710	138	661	0.198	ug/ml#	73
65) Acenaphthene	7.775	154	3104	0.250	ug/ml	97
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.945	168	5020	0.245	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	820	0.192	ug/ml#	88
69) 4-Nitrophenol	7.310	65	695	0.215	ug/ml#	5
70) 2,3,5,6-Tetrachlorophenol	8.034	232	763	0.182	ug/ml#	73
71) 2,3,4,6-Tetrachlorophenol	8.075	232	760	0.184	ug/ml#	68
72) Diethyl phthalate	8.198	149	4032	0.243	ug/ml#	83
73) Fluorene	8.275	166	3788	0.237	ug/ml#	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	8.293	204	2303	0.265	ug/ml#	73
75) 4-Nitroaniline	8.293	138	643	0.183	ug/ml	91
76) 4,6-Dinitro-o-cresol	8.334	198	251M2	0.319	ug/ml	
77) NDPA/DPA	8.404	169	3203	0.233	ug/ml	98
78) Azobenzene	8.440	77	3151	0.216	ug/ml#	92
80) 4-Bromophenyl phenyl e...	8.763	248	1395	0.250	ug/ml#	78
81) Hexachlorobenzene	8.816	284	1719	0.245	ug/ml#	87
82) Pentachlorophenol	9.010	266	511	0.161	ug/ml#	18
89) Phenanthrene	9.198	178	6872	0.253	ug/ml	97
90) Anthracene	9.245	178	6523	0.246	ug/ml	97
91) Carbazole	9.416	167	5745	0.236	ug/ml	98
92) Di-n-butylphthalate	9.798	149	6125	0.231	ug/ml#	94
93) Fluoranthene	10.351	202	7611M3	0.242	ug/ml	
94) Benzidine	10.504	184	3166	0.183	ug/ml#	68
95) Pyrene	10.575	202	7787	0.233	ug/ml	99
97) Butyl benzyl phthalate	11.281	149	2316	0.197	ug/ml#	91
105) Benzo(a)anthracene	11.810	228	8184	0.236	ug/ml	97
106) 3,3'-Dichlorobenzidine	11.810	252	2557	0.202	ug/ml#	90
107) Chrysene	11.851	228	8370M3	0.246	ug/ml	
108) Bis(2-ethylhexyl)phtha...	11.916	149	3547	0.206	ug/ml#	97
109) Di-n-octylphthalate	12.598	149	5186	0.196	ug/ml#	75
110) Benzo(b)fluoranthene	12.922	252	8396	0.236	ug/ml#	94
111) Benzo(k)fluoranthene	12.951	252	7521M3	0.232	ug/ml	
112) Benzo(a)pyrene	13.239	252	7115	0.229	ug/ml#	91
114) Indeno(1,2,3-cd)pyrene	14.292	276	7638M6	0.221	ug/mL	
115) Dibenzo(a,h)anthracene	14.316	278	7194	0.218	ug/ml#	91
116) Benzo(ghi)perylene	14.557	276	8051	0.242	ug/ml#	90

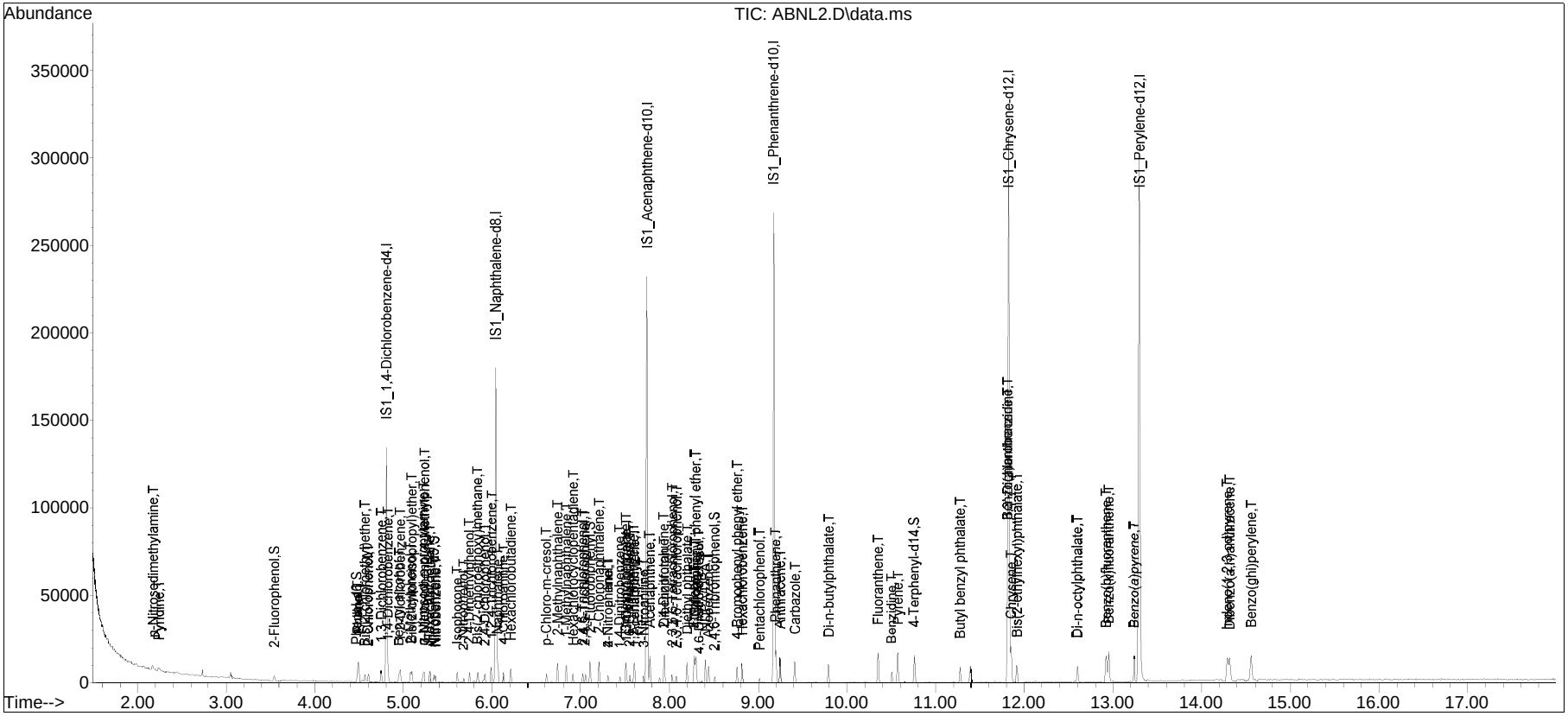
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL2.D
Acq On : 25 Jun 2024 11:00 pm
Operator : SV112:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939943
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 14:01:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

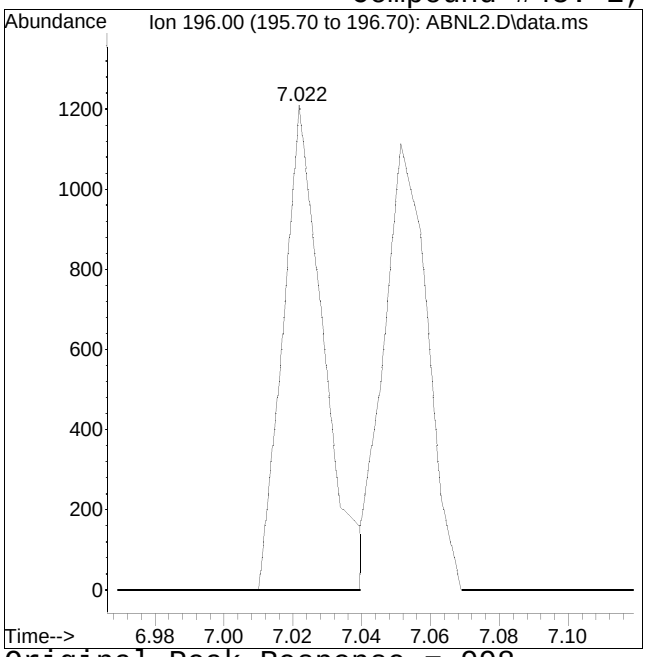
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

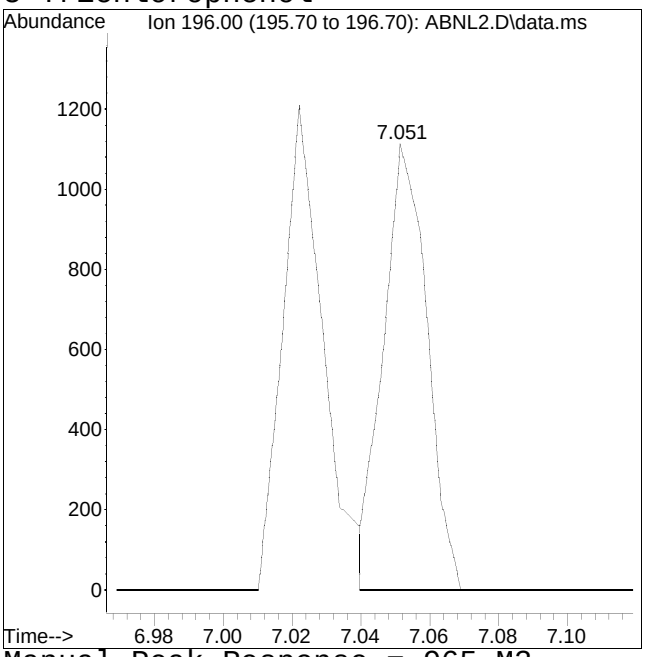


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #45: 2,4,5-Trichlorophenol





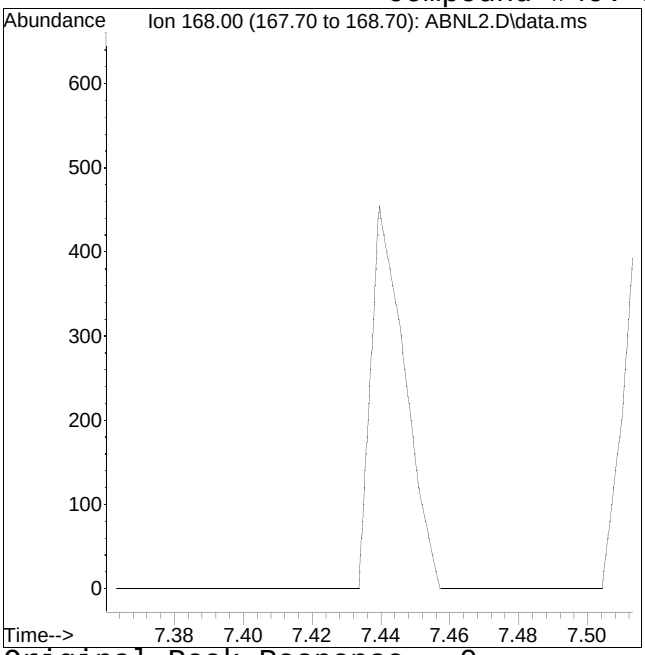
Original Peak Response = 998 Manual Peak Response = 965 M3

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

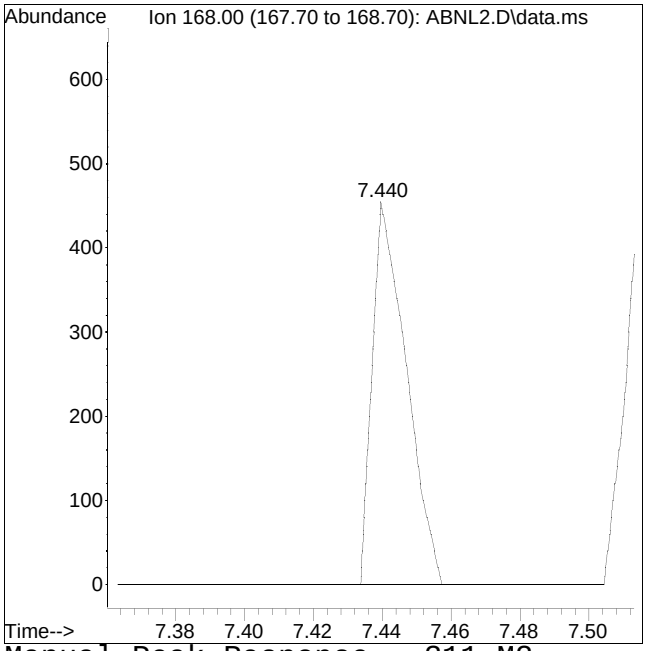
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 0



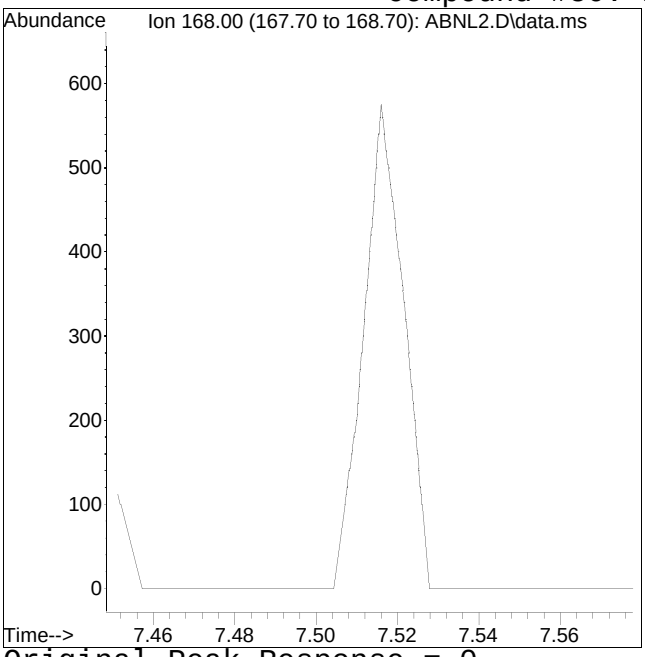
Manual Peak Response = 311 M2

M2 = Peak not found by automatic integration algorithm.

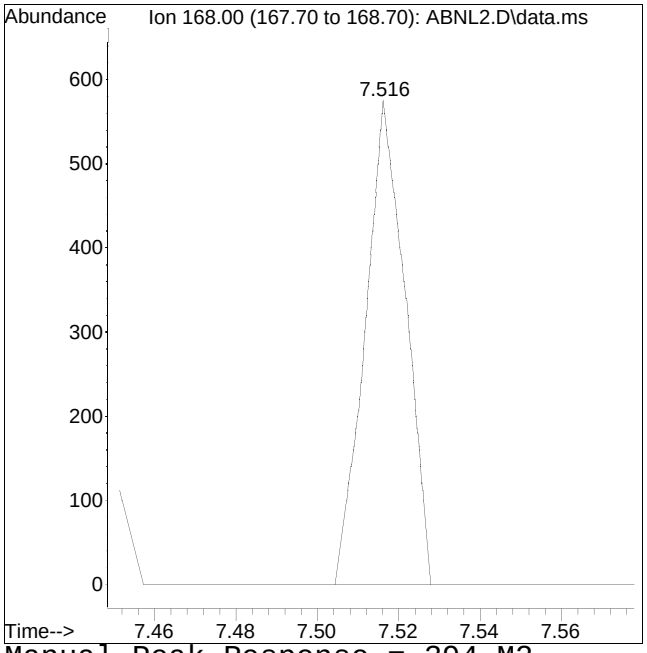
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



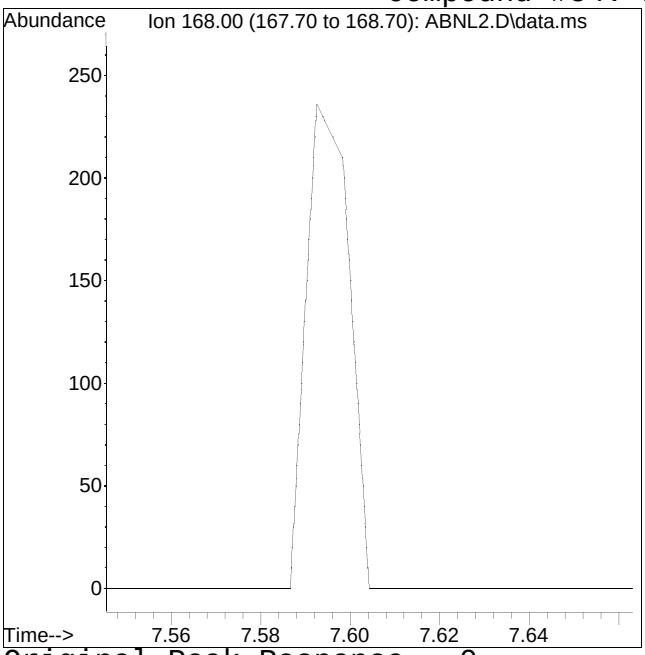
Manual Peak Response = 394 M2

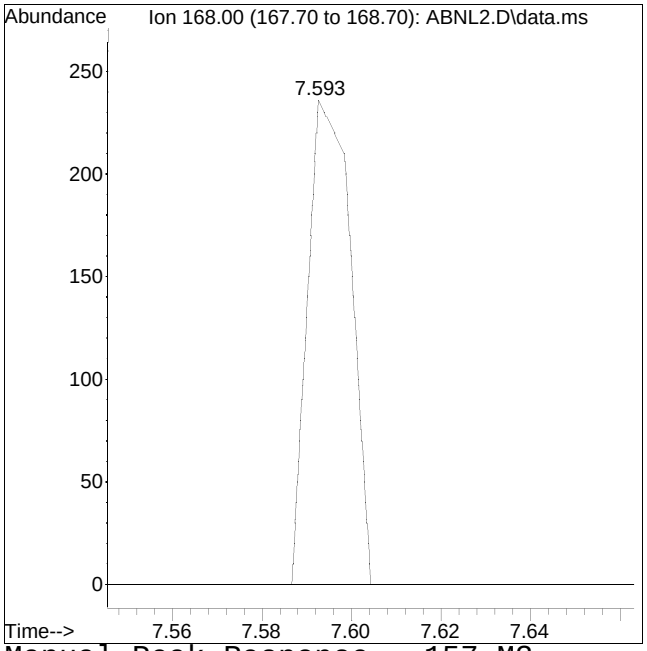
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #54: 1,2-Dinitrobenzene





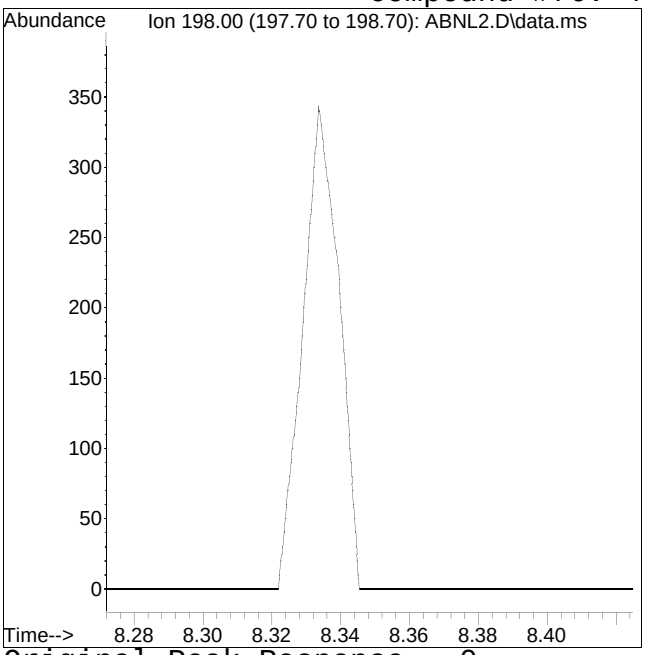
Original Peak Response = 0 Manual Peak Response = 157 M3

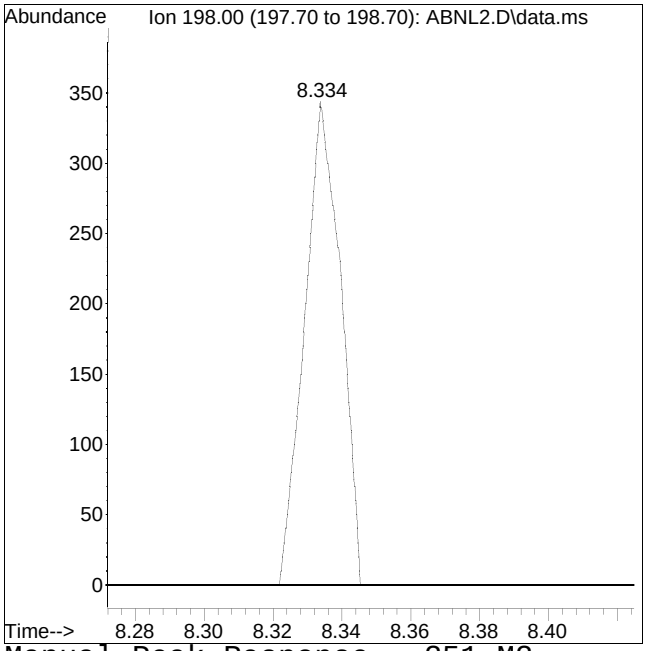
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #76: 4,6-Dinitro-o-cresol



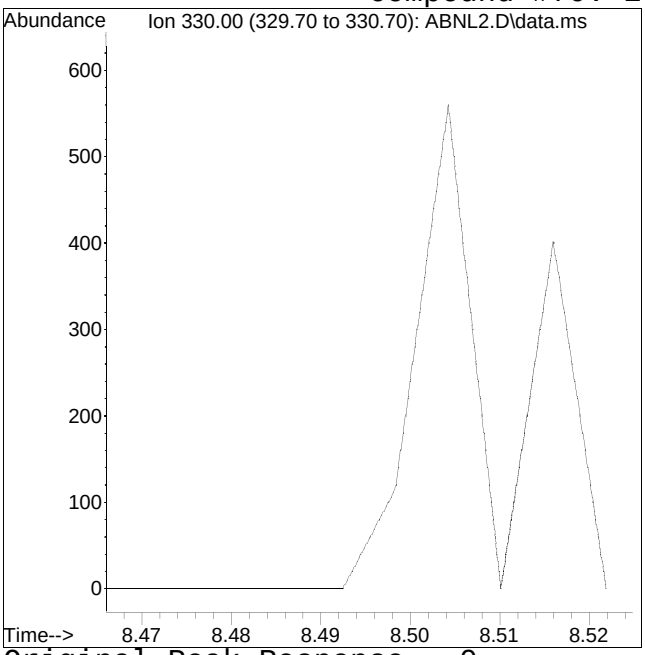


Original Peak Response = 0 Manual Peak Response = 251 M2
M2 = Peak not found by automatic integration algorithm.

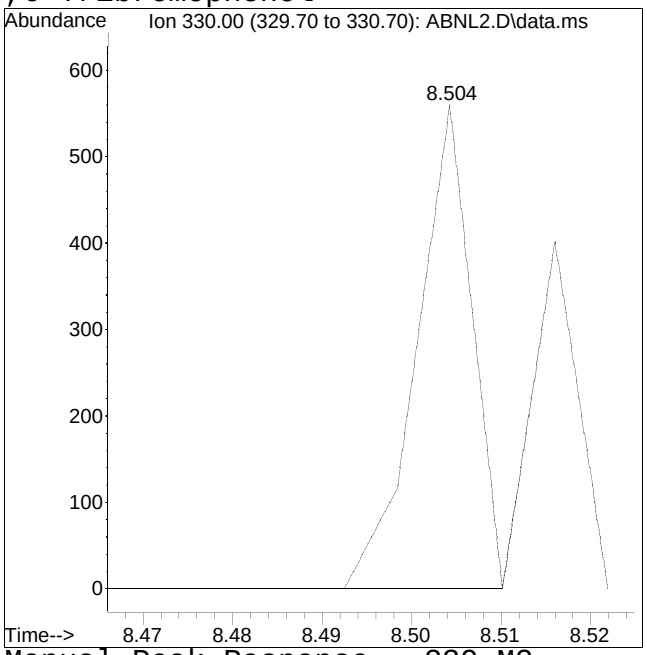
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #79: 2,4,6-Tribromophenol



Original Peak Response = 0



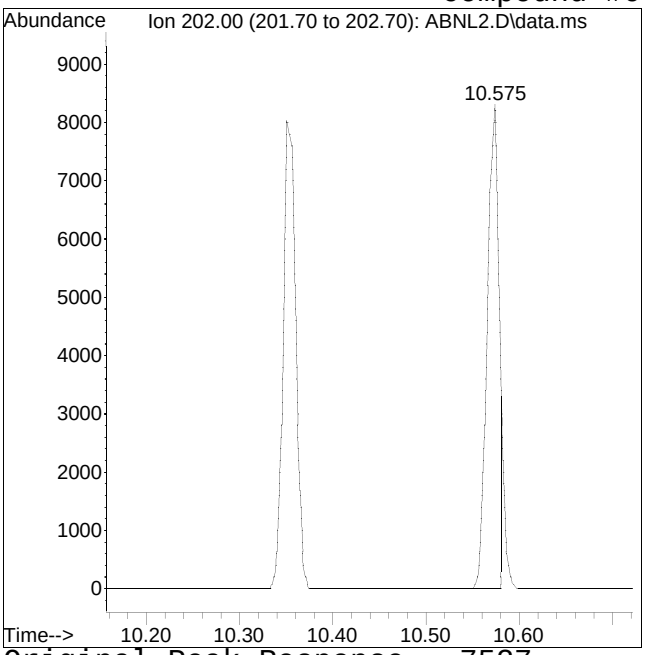
Manual Peak Response = 239 M2

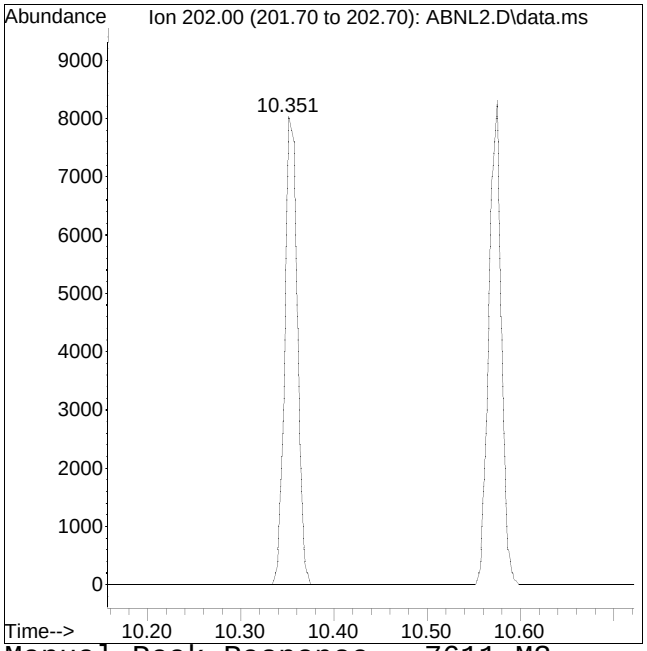
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #93: Fluoranthene



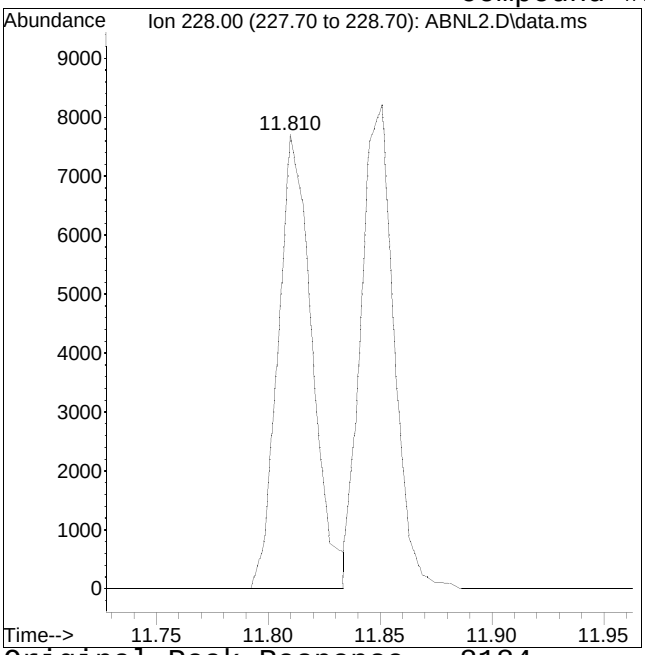


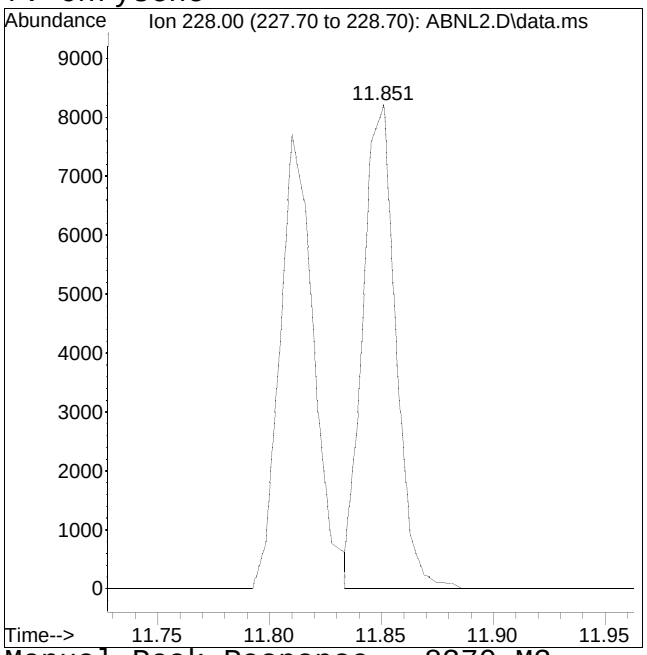
Original Peak Response = 7527 Manual Peak Response = 7611 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #107: Chrysene





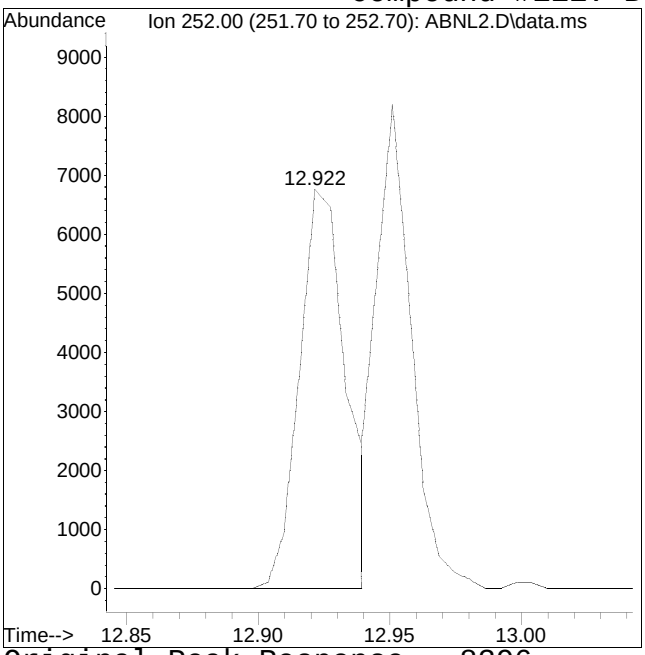
Original Peak Response = 8184 Manual Peak Response = 8370 M3

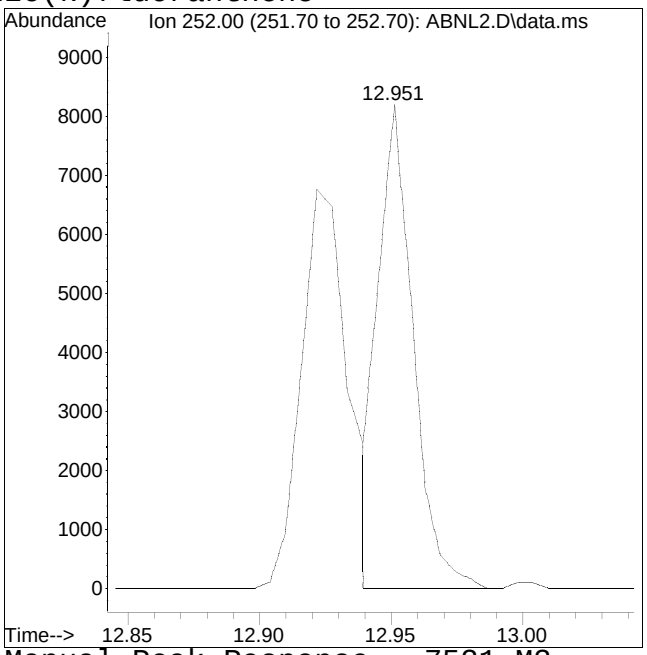
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #111: Benzo(k)fluoranthene



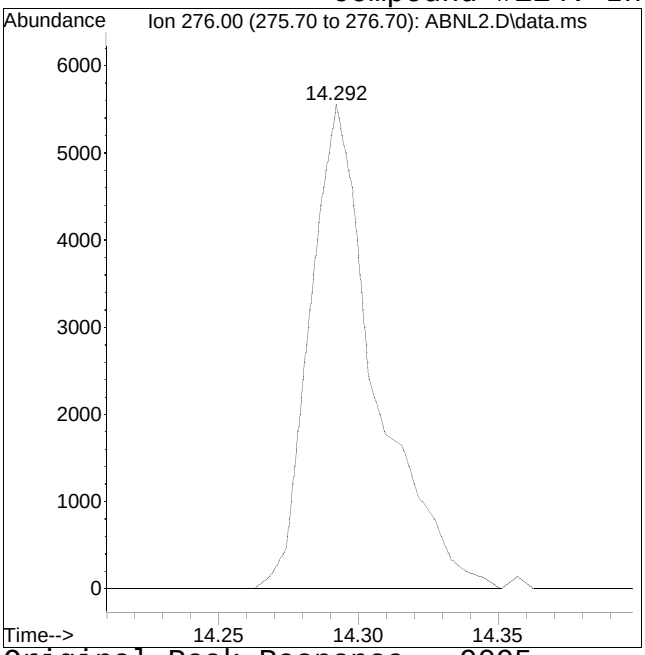


Original Peak Response = 8396 Manual Peak Response = 7521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

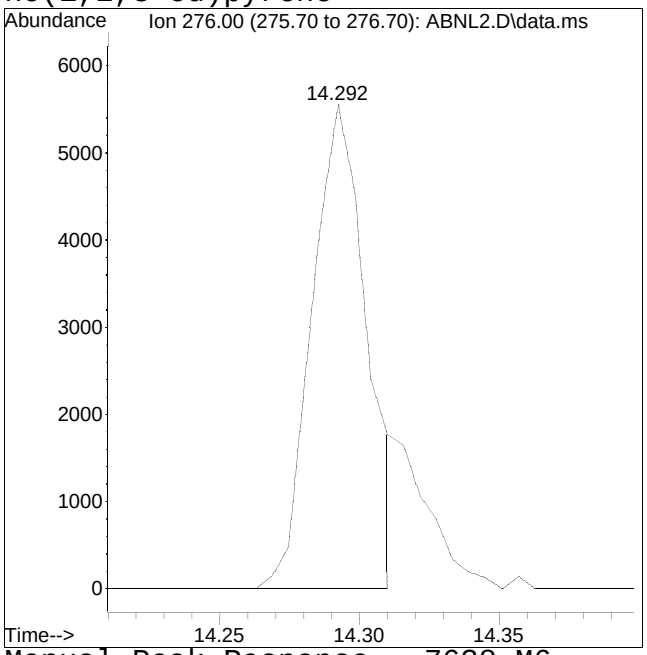
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL2.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:00 pm Instrument : SV112
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/30/2024 2:01 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 9095



Manual Peak Response = 7638 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	20493	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 96.37%		
35) IS1_Naphthalene-d8	6.040	136	75511	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 92.42%		
63) IS1_Acenaphthene-d10	7.746	164	45957	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 93.43%		
88) IS1_Phenanthrene-d10	9.175	188	105241	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 101.33%		
104) IS1_Chrysene-d12	11.822	240	110283	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 99.15%		
113) IS1_Perylene-d12	13.298	264	126398	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 96.20%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	534	0.099 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.95%#		
7) Phenol-d6	4.481	99	783	0.113 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.65%#		
19) Nitrobenzene-d5	5.346	82	699	0.105 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.50%#		
46) 2-Fluorobiphenyl	7.104	172	2091	0.122 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.20%#		
79) 2,4,6-Tribromophenol	8.510	330	276M2	0.102 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.10%#		
96) 4-Terphenyl-d14	10.757	244	3232	0.119 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.90%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.181	74	288M2	0.086 ug/ml	
3) Pyridine	2.252	79	392M2	0.073 ug/ml	
5) Aniline	4.487	93	1042	0.112 ug/ml#	61
6) 2-Chlorophenol	4.605	128	741	0.116 ug/ml#	34
8) Phenol	4.493	94	931	0.115 ug/ml#	50
9) Bis(2-chloroethyl)ether	4.563	93	728	0.122 ug/ml#	17
10) 1,3-Dichlorobenzene	4.752	146	935	0.121 ug/ml#	71
11) 1,4-Dichlorobenzene	4.822	146	985	0.122 ug/ml#	83
12) 1,2-Dichlorobenzene	4.969	146	894	0.118 ug/ml#	68
13) Benzyl alcohol	4.957	79	437M4	0.090 ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.093	45	790	0.105	ug/ml#	62
15) 2-Methylphenol	5.081	108	547	0.101	ug/ml#	15
16) Hexachloroethane	5.299	117	310M2	0.109	ug/ml	
17) n-Nitrosodi-n-propylamine	5.222	70	439M2	0.099	ug/ml	
18) 3-Methylphenol/4-Methy...	5.234	108	568	0.096	ug/ml#	93
20) Nitrobenzene	5.363	77	704	0.107	ug/ml#	38
21) Isophorone	5.604	82	1294	0.108	ug/ml#	67
22) 2-Nitrophenol	5.675	139	293M2	0.100	ug/ml	
23) 2,4-Dimethylphenol	5.746	107	538	0.095	ug/ml#	63
24) Bis(2-chloroethoxy)met...	5.834	93	899	0.112	ug/ml#	50
25) 2,4-Dichlorophenol	5.916	162	615	0.104	ug/ml#	25
26) 1,2,4-Trichlorobenzene	5.993	180	933	0.125	ug/ml#	80
36) Naphthalene	6.057	128	2390	0.121	ug/ml#	50
37) Benzoic Acid	5.722		0	N.D.		
38) 4-Chloroaniline	6.128	65	151M2	0.068	ug/ml	
39) Hexachlorobutadiene	6.210	225	534	0.115	ug/ml#	19
40) p-Chloro-m-cresol	6.616	107	494M2	0.095	ug/ml	
41) 2-Methylnaphthalene	6.740	142	1597	0.119	ug/ml	96
42) 1-Methylnaphthalene	6.834	115	597	0.129	ug/ml	85
43) Hexachlorocyclopentadiene	6.910	237	462M2	0.098	ug/ml	
44) 2,4,6-Trichlorophenol	7.022	196	484M2	0.100	ug/ml	
45) 2,4,5-Trichlorophenol	7.051	196	457M2	0.092	ug/ml	
47) 2-Chloronaphthalene	7.204	162	1787	0.125	ug/ml#	87
48) 2-Nitroaniline	7.310	138	357M2	0.094	ug/ml	
49) 1,4-Dinitrobenzene	7.440	168	156M2	0.084	ug/ml	
50) 1,3-Dinitrobenzene	7.516	168	177M2	0.082	ug/ml	
51) Dimethyl phthalate	7.510	163	2152	0.124	ug/ml#	77
52) Acenaphthylene	7.604	152	2412	0.114	ug/ml#	61
53) 2,6-Dinitrotoluene	7.551	165	326M3	0.100	ug/ml	
54) 1,2-Dinitrobenzene	7.599	168	55M3	0.044	ug/ml	
64) 3-Nitroaniline	7.710	138	290M2	0.084	ug/ml	
65) Acenaphthene	7.775	154	1510	0.118	ug/ml	98
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.946	168	2540	0.120	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	366M3	0.083	ug/ml	
69) 4-Nitrophenol	7.310	65	364M2	0.109	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	8.034	232	401M2	0.093	ug/ml	
71) 2,3,4,6-Tetrachlorophenol	8.075	232	376M2	0.088	ug/ml	
72) Diethyl phthalate	8.198	149	2066	0.121	ug/ml#	62
73) Fluorene	8.275	166	1978	0.120	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	8.293	204	1099	0.123	ug/ml#	63
75) 4-Nitroaniline	8.293	138	279M2	0.077	ug/ml	
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
77) NDPA/DPA	8.404	169	1660	0.117	ug/ml	95
78) Azobenzene	8.440	77	1751	0.117	ug/ml#	55
80) 4-Bromophenyl phenyl e...	8.763	248	734	0.128	ug/ml#	52
81) Hexachlorobenzene	8.816	284	1010	0.140	ug/ml#	35
82) Pentachlorophenol	9.010	266	133M2	0.041	ug/ml	
89) Phenanthrene	9.198	178	3473	0.125	ug/ml	98
90) Anthracene	9.245	178	3305M3	0.121	ug/ml	
91) Carbazole	9.416	167	2768	0.111	ug/ml#	87
92) Di-n-butylphthalate	9.798	149	2918	0.107	ug/ml#	78
93) Fluoranthene	10.357	202	3944	0.122	ug/ml#	84
94) Benzidine	10.504	184	1677	0.094	ug/ml#	68
95) Pyrene	10.575	202	4212	0.123	ug/ml	97
97) Butyl benzyl phthalate	11.281	149	1280	0.106	ug/ml#	87
105) Benzo(a)anthracene	11.810	228	4414	0.125	ug/ml	95
106) 3,3'-Dichlorobenzidine	11.810	252	1334	0.103	ug/ml#	82
107) Chrysene	11.845	228	4617	0.133	ug/ml	95
108) Bis(2-ethylhexyl)phtha...	11.916	149	1709	0.097	ug/ml#	56
109) Di-n-octylphthalate	12.598	149	2547	0.094	ug/ml#	75
110) Benzo(b)fluoranthene	12.922	252	4361	0.120	ug/ml#	82
111) Benzo(k)fluoranthene	12.951	252	3489M3	0.105	ug/ml	
112) Benzo(a)pyrene	13.239	252	3478M3	0.110	ug/ml	
114) Indeno(1,2,3-cd)pyrene	14.292	276	3767M6	0.107	ug/mL	
115) Dibenzo(a,h)anthracene	14.316	278	3287	0.097	ug/ml#	77
116) Benzo(ghi)perylene	14.557	276	3809	0.112	ug/ml	93

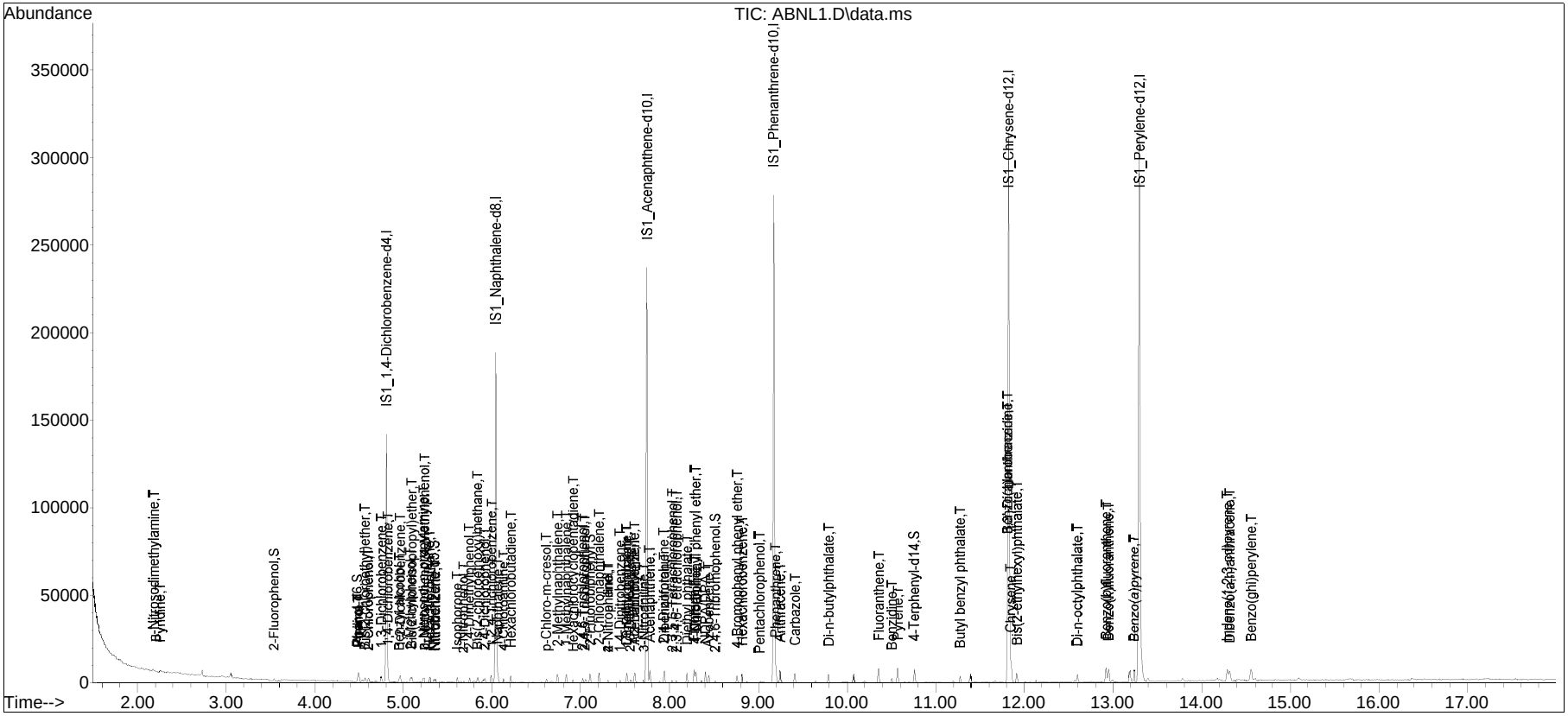
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNL1.D
Acq On : 25 Jun 2024 11:23 pm
Operator : SV112:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939943
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 14:00:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 29 06:49:41 2024
Response via : Initial Calibration

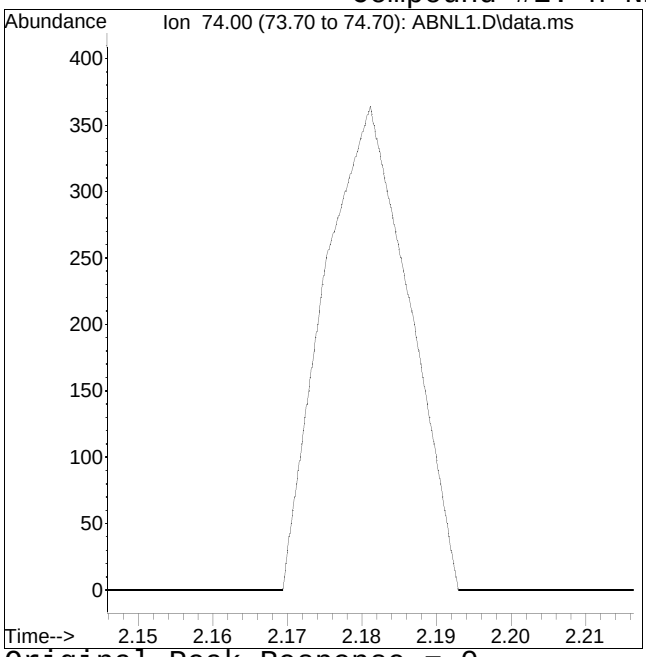
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



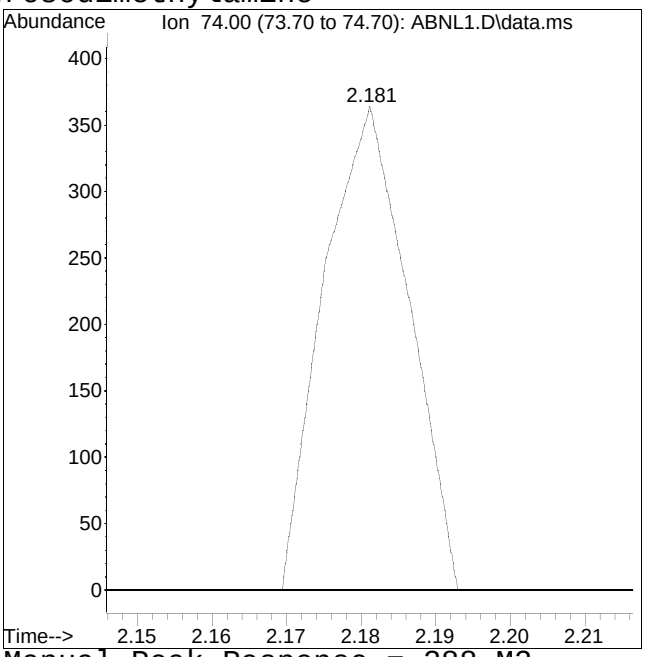
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 0



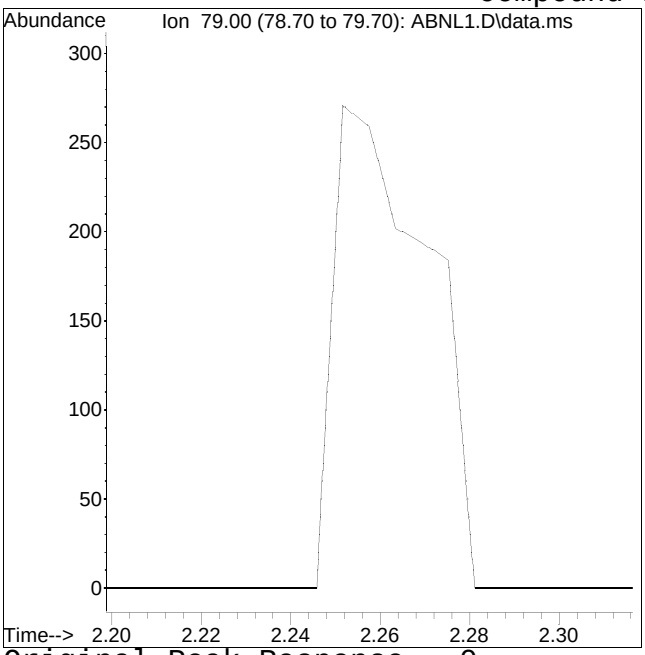
Manual Peak Response = 288 M2

M2 = Peak not found by automatic integration algorithm.

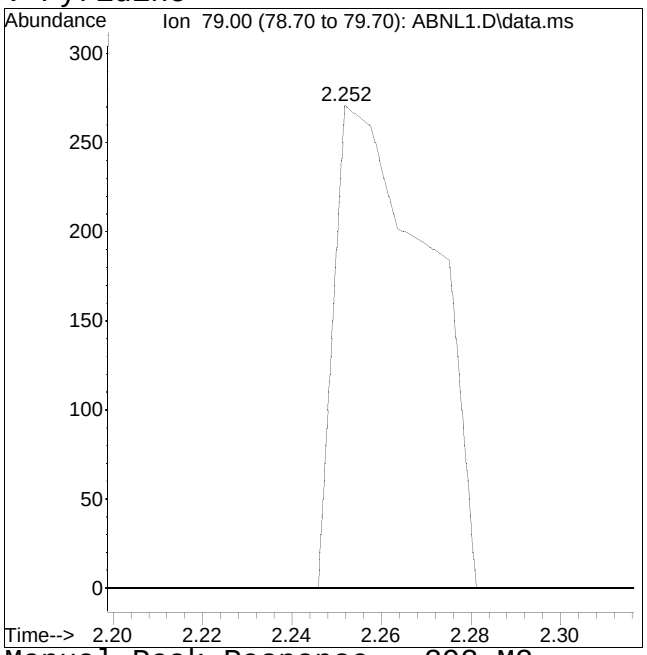
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #3: Pyridine



Original Peak Response = 0



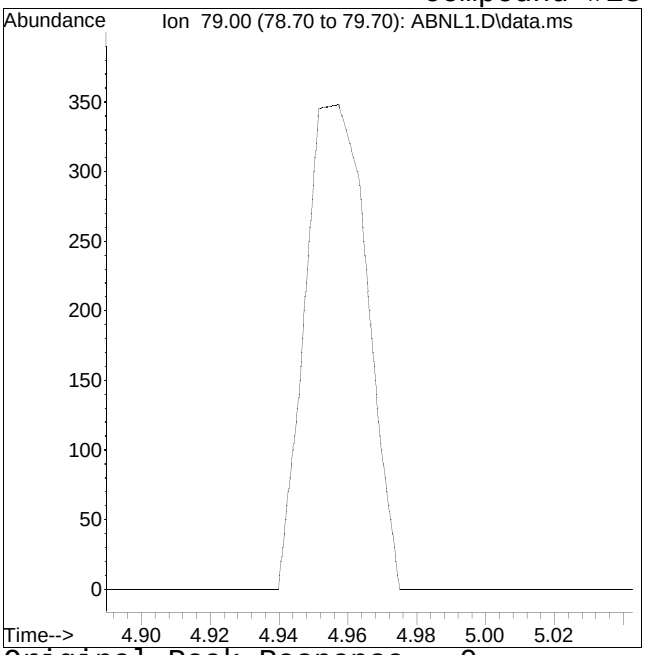
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

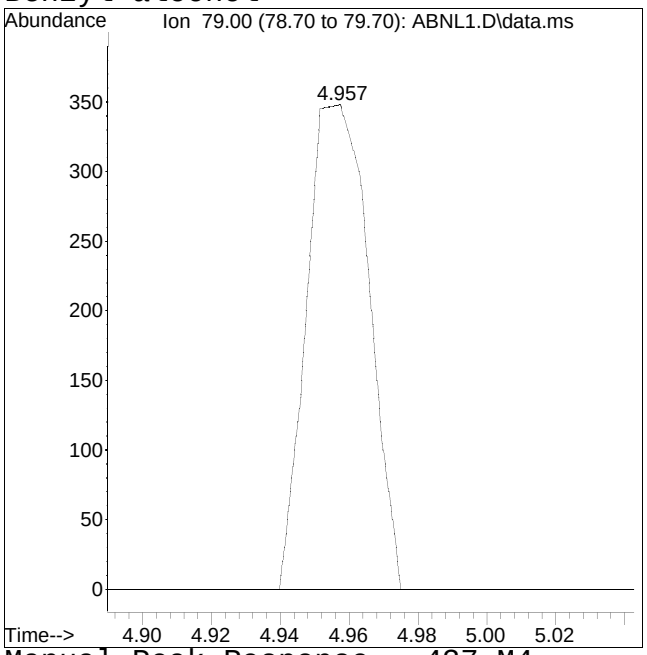
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #13: Benzyl alcohol



Original Peak Response = 0



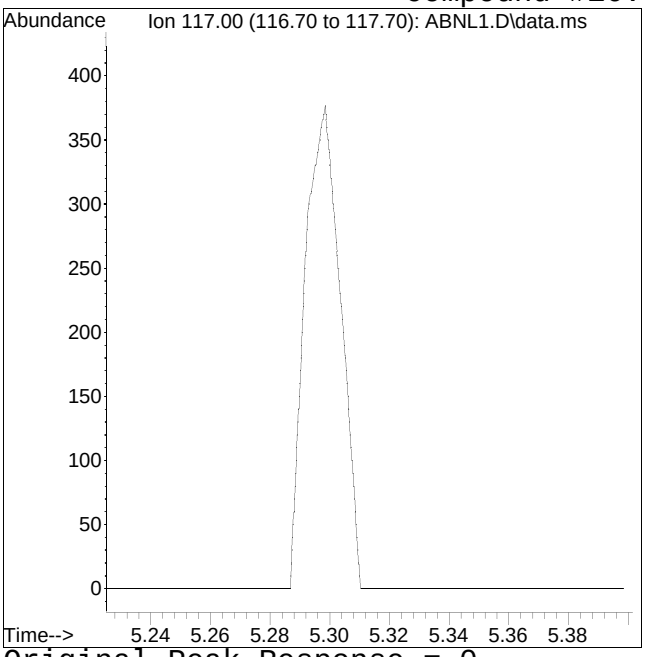
Manual Peak Response = 437 M4

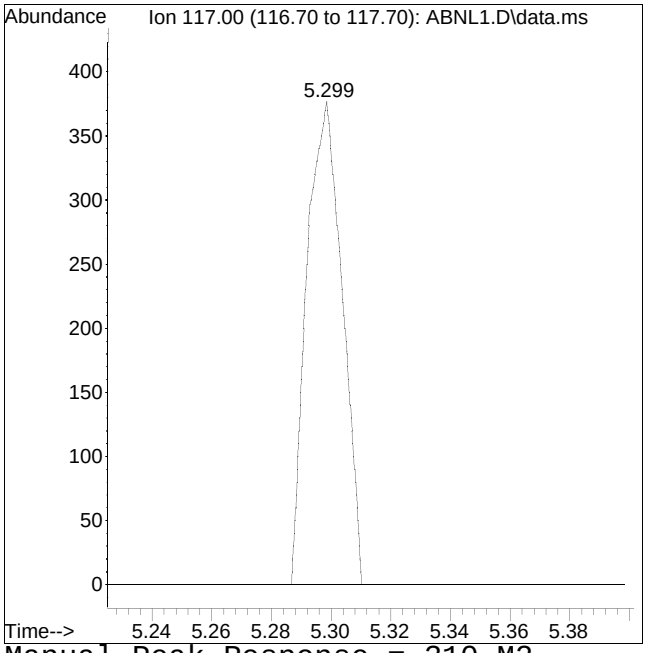
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #16: Hexachloroethane



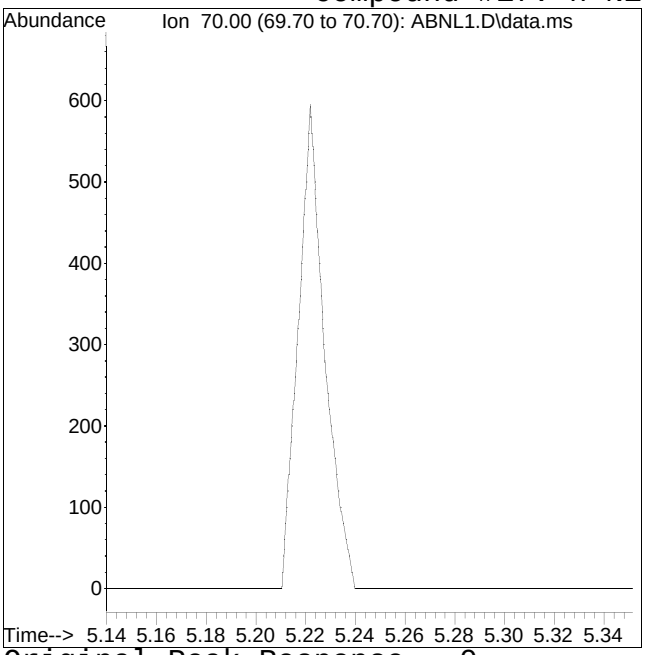


Original Peak Response = 0 Manual Peak Response = 310 M2
M2 = Peak not found by automatic integration algorithm.

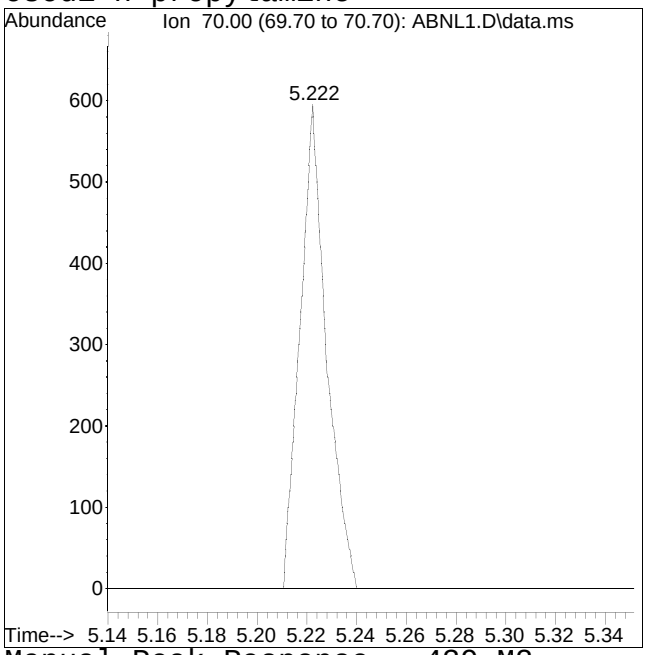
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #17: n-Nitrosodi-n-propylamine



Original Peak Response = 0



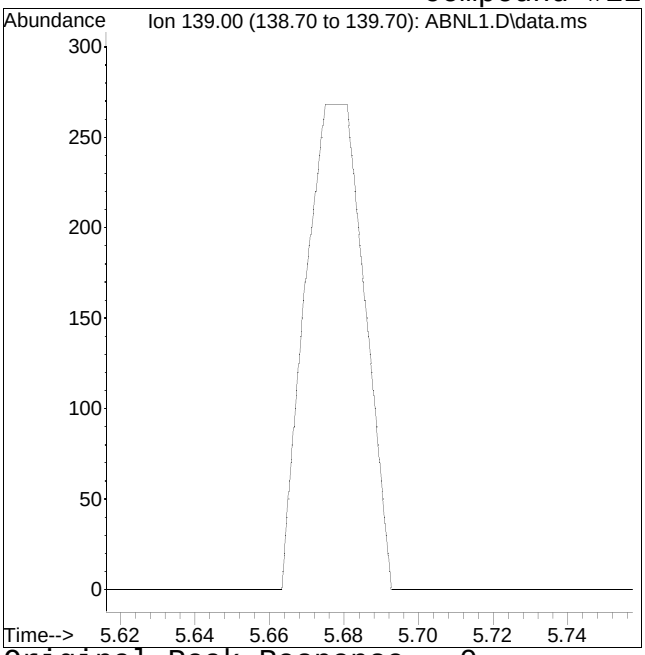
Manual Peak Response = 439 M2

M2 = Peak not found by automatic integration algorithm.

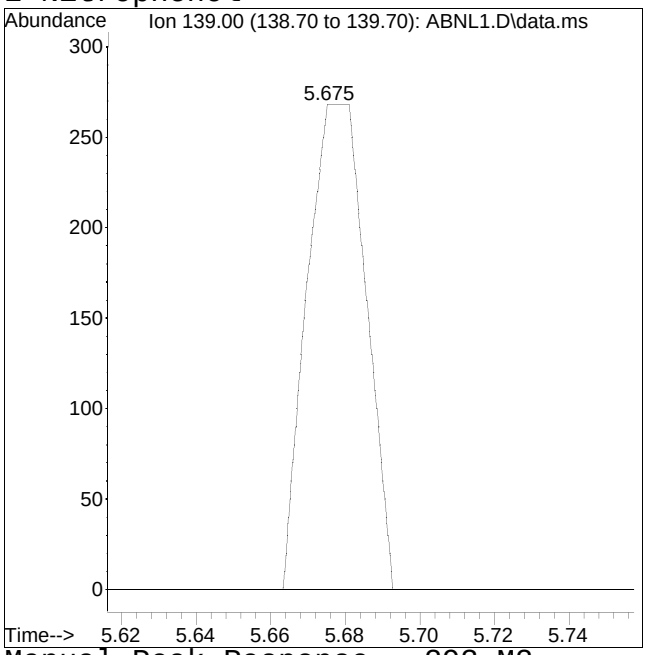
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #22: 2-Nitrophenol



Original Peak Response = 0



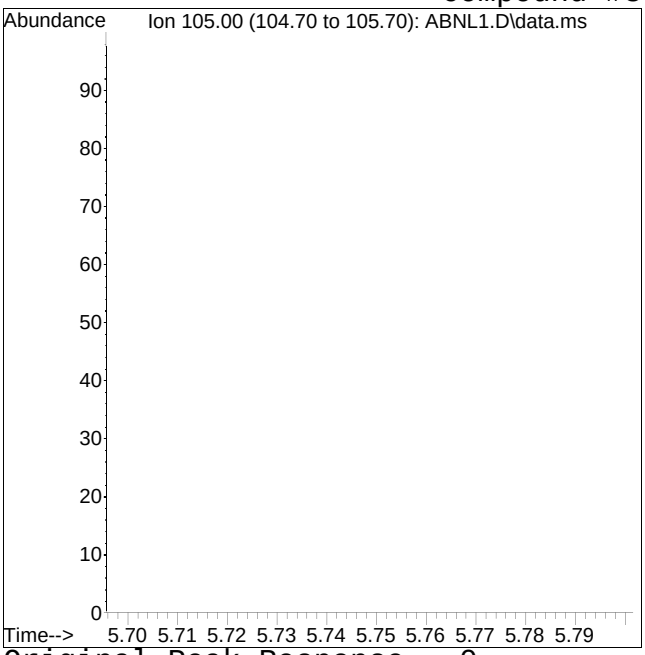
Manual Peak Response = 293 M2

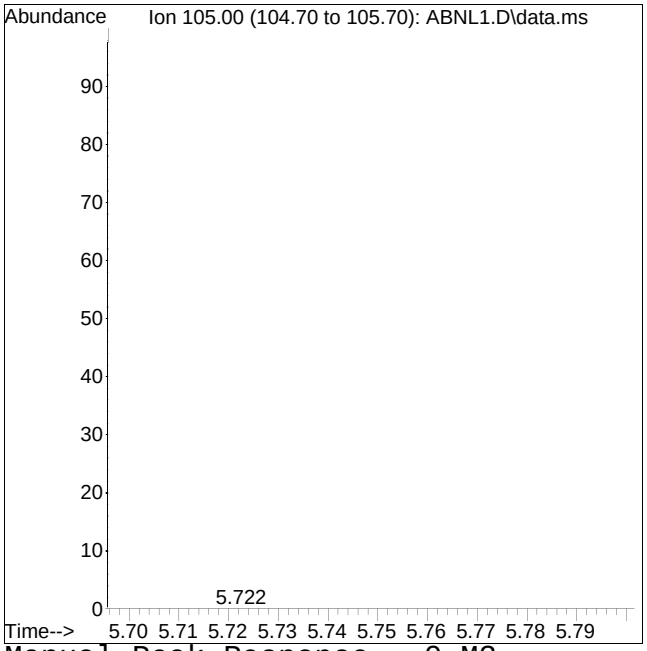
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #37: Benzoic Acid





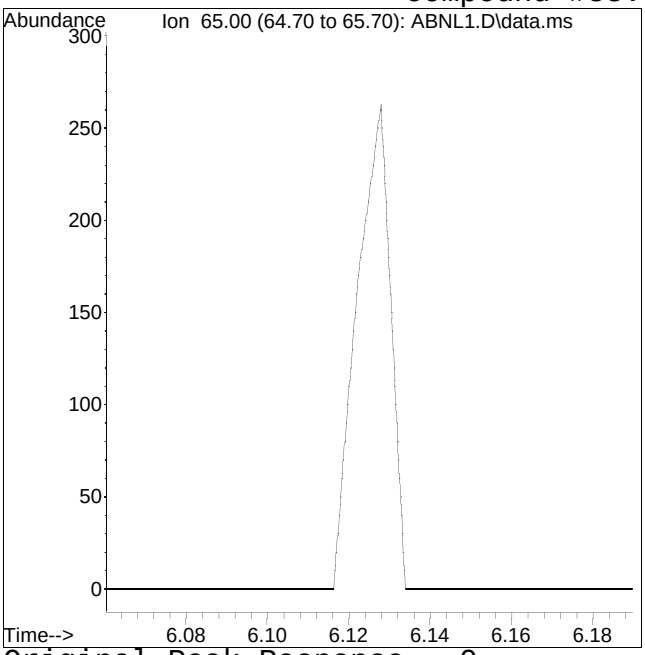
Original Peak Response = 0 Manual Peak Response = 0 M3

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

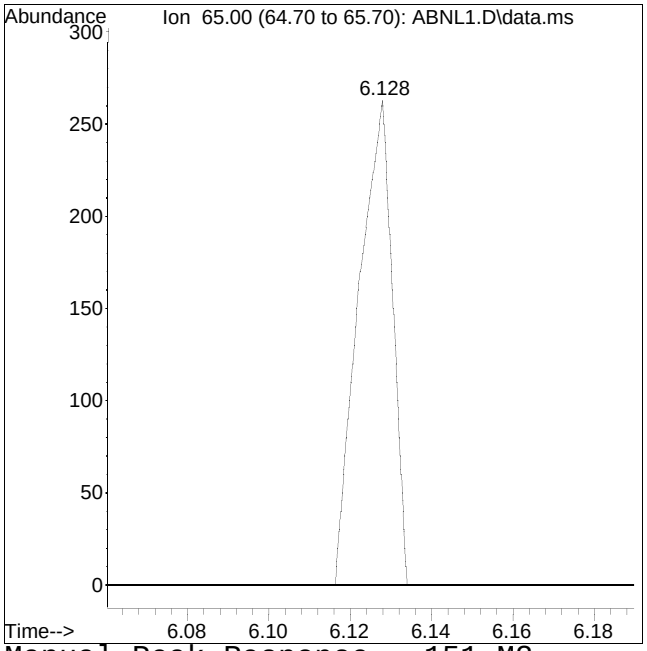
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 0



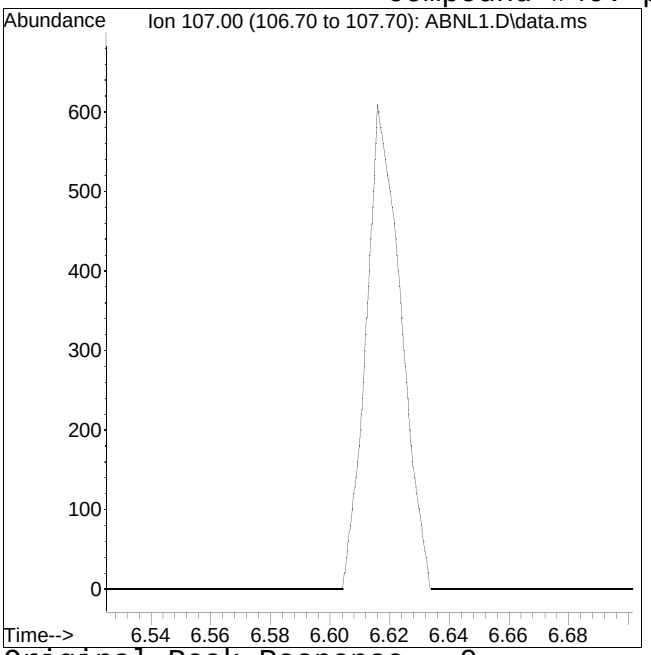
Manual Peak Response = 151 M2

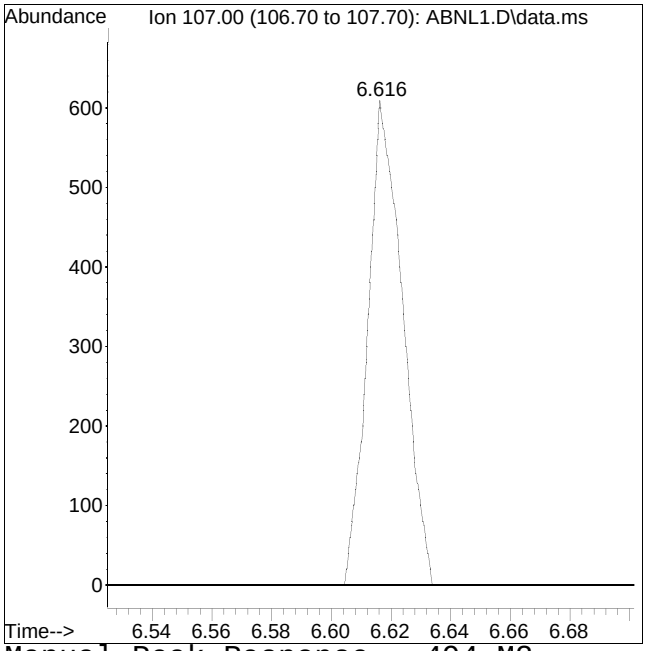
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #40: p-Chloro-m-cresol



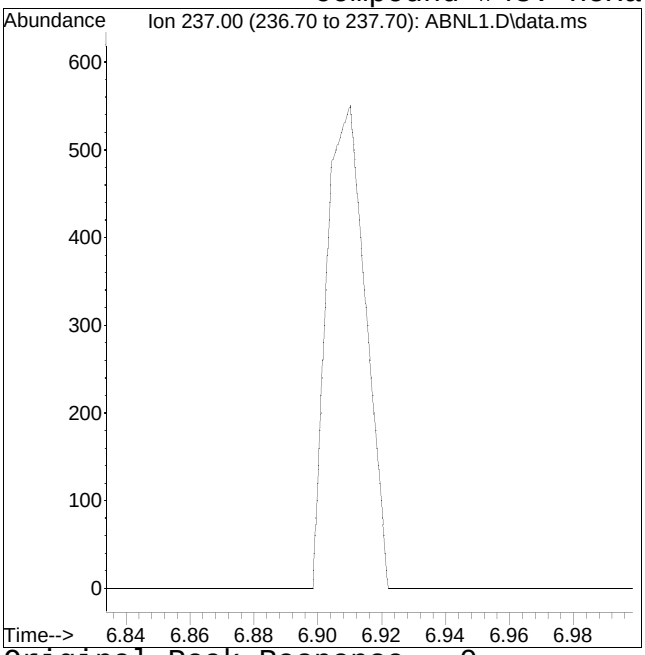


Original Peak Response = 0 Manual Peak Response = 494 M2
M2 = Peak not found by automatic integration algorithm.

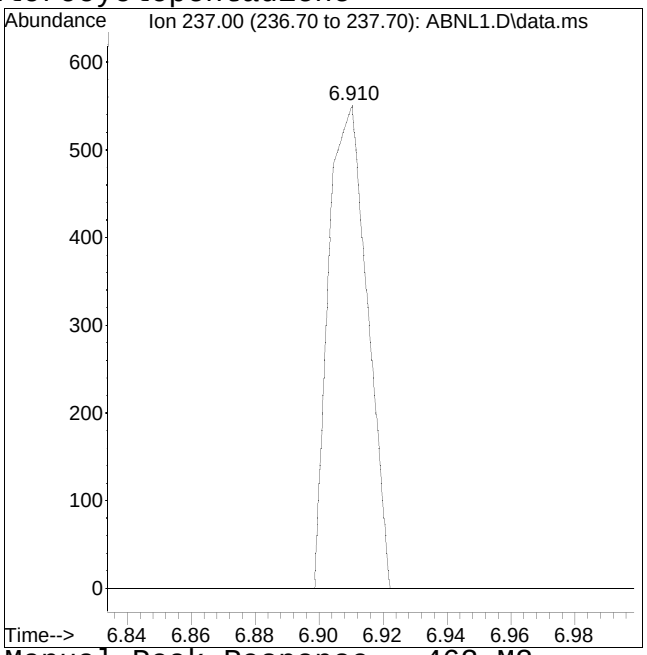
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #43: Hexachlorocyclopentadiene



Original Peak Response = 0



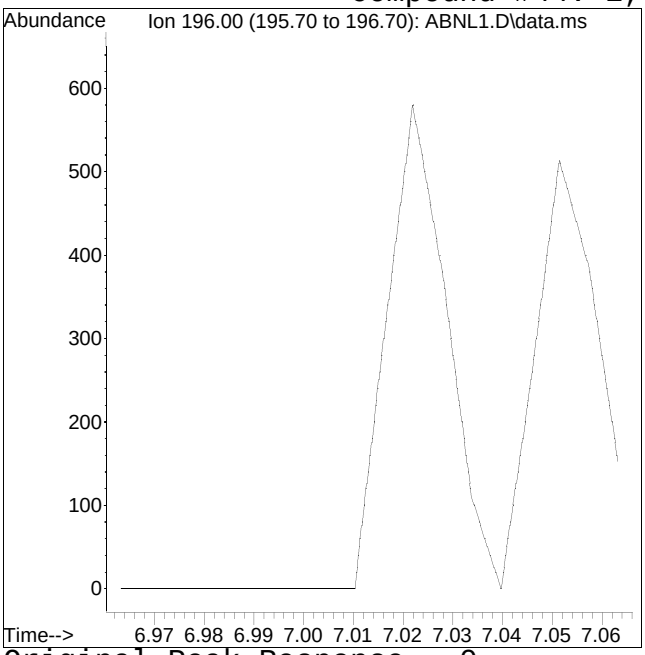
Manual Peak Response = 462 M2

M2 = Peak not found by automatic integration algorithm.

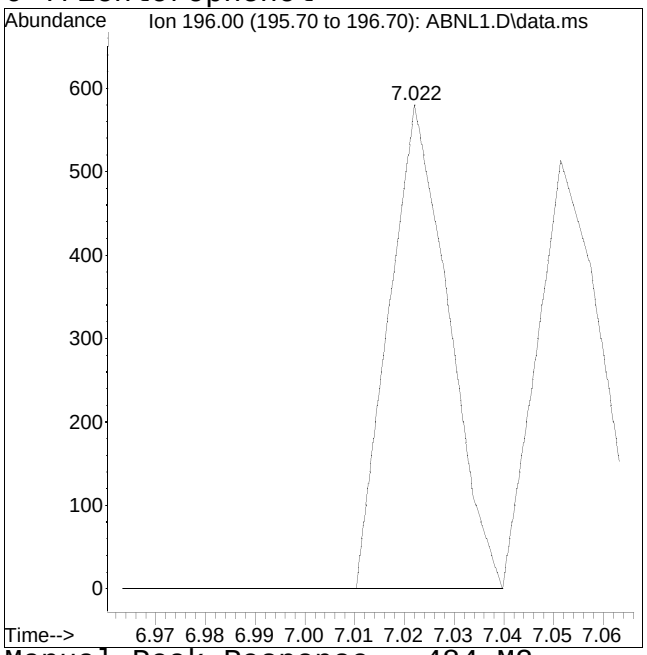
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #44: 2,4,6-Trichlorophenol



Original Peak Response = 0



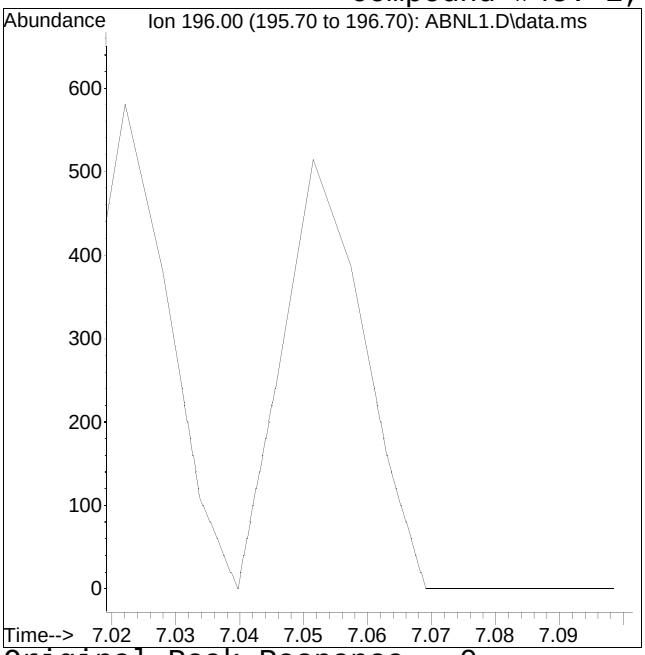
Manual Peak Response = 484 M2

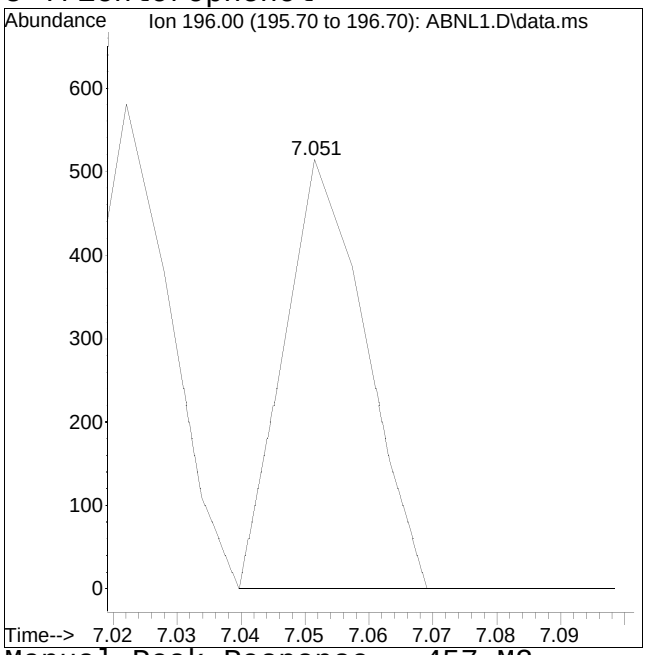
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #45: 2,4,5-Trichlorophenol



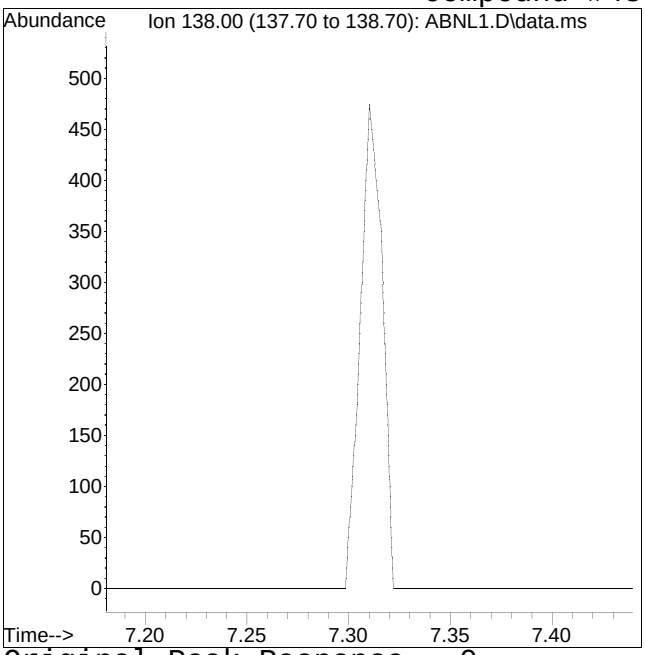


Original Peak Response = 0 Manual Peak Response = 457 M2
M2 = Peak not found by automatic integration algorithm.

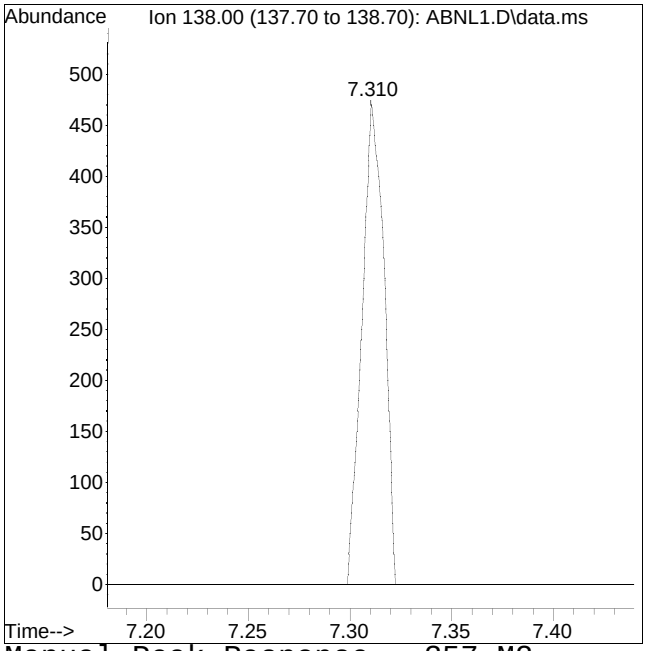
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #48: 2-Nitroaniline



Original Peak Response = 0



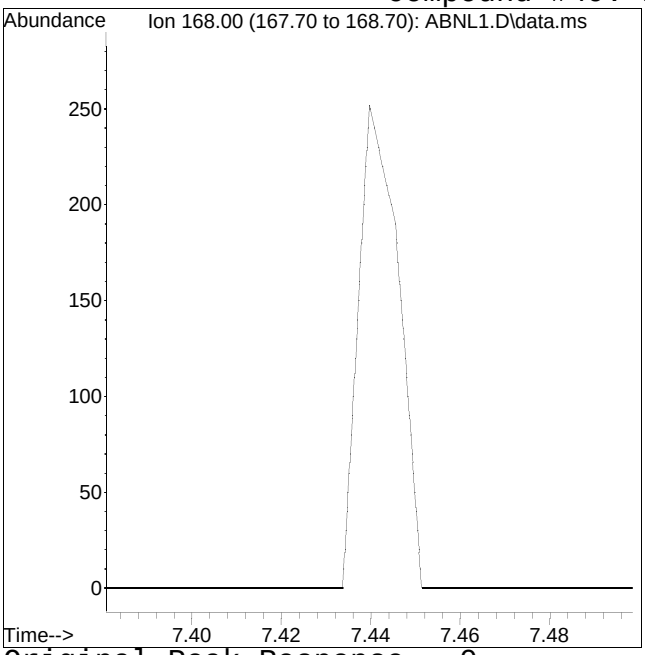
Manual Peak Response = 357 M2

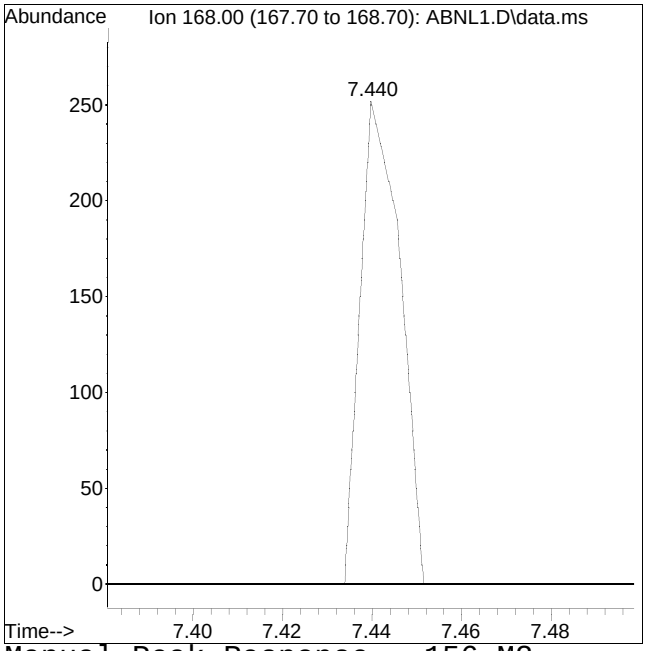
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #49: 1,4-Dinitrobenzene



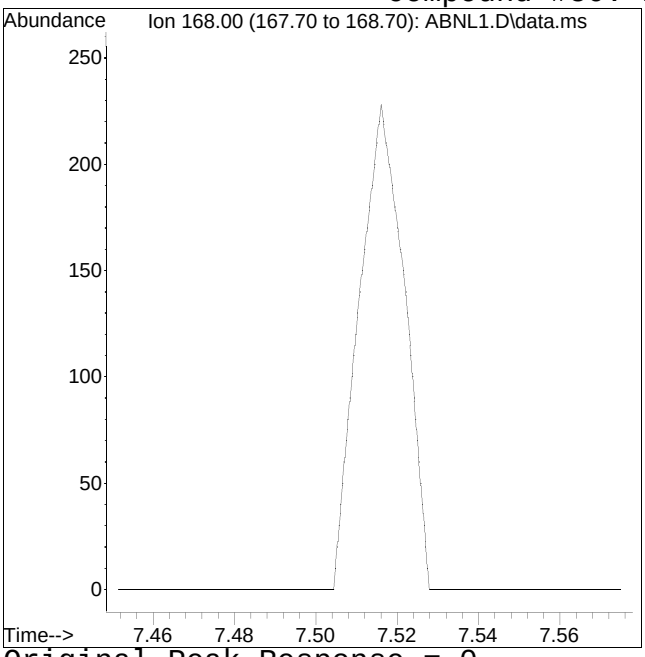


Original Peak Response = 0 Manual Peak Response = 156 M2
M2 = Peak not found by automatic integration algorithm.

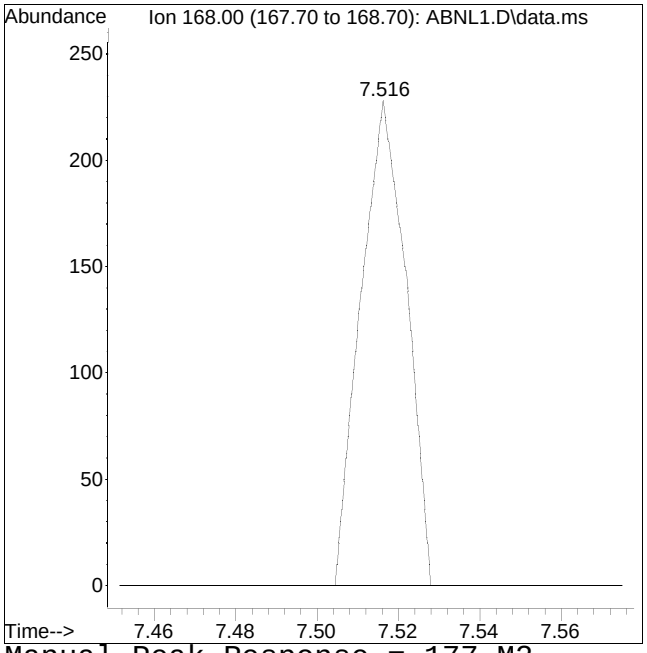
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



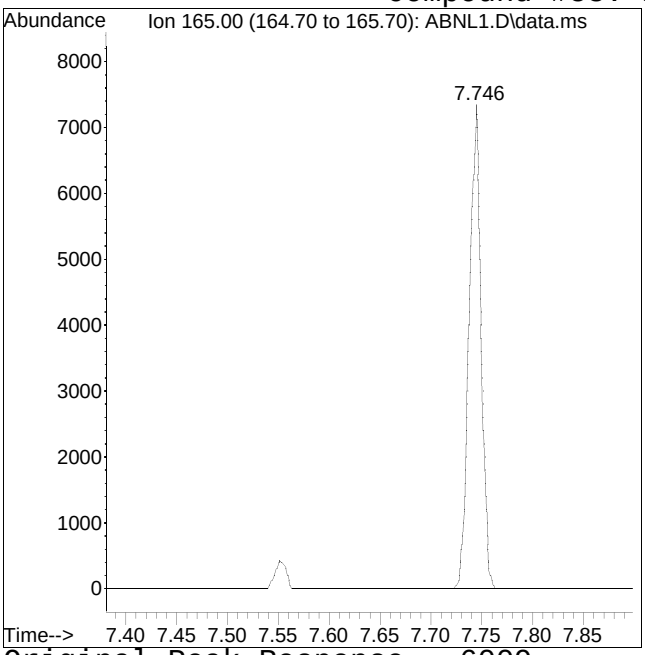
Manual Peak Response = 177 M2

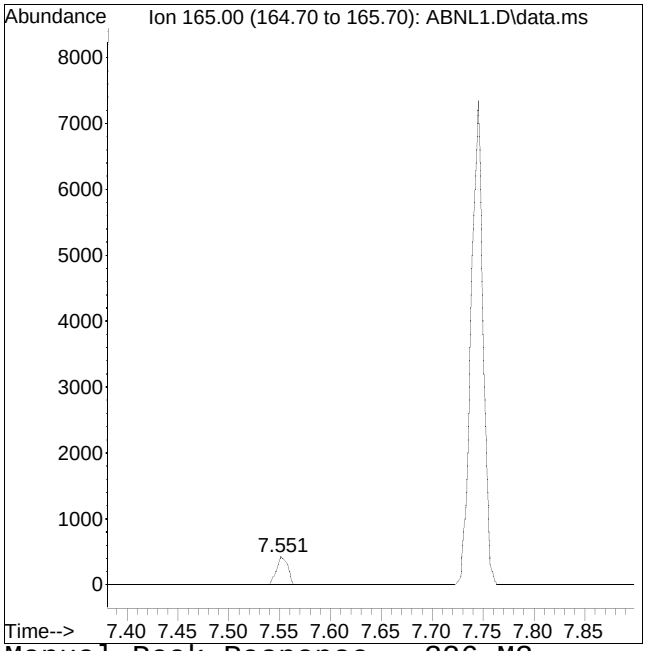
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #53: 2,6-Dinitrotoluene



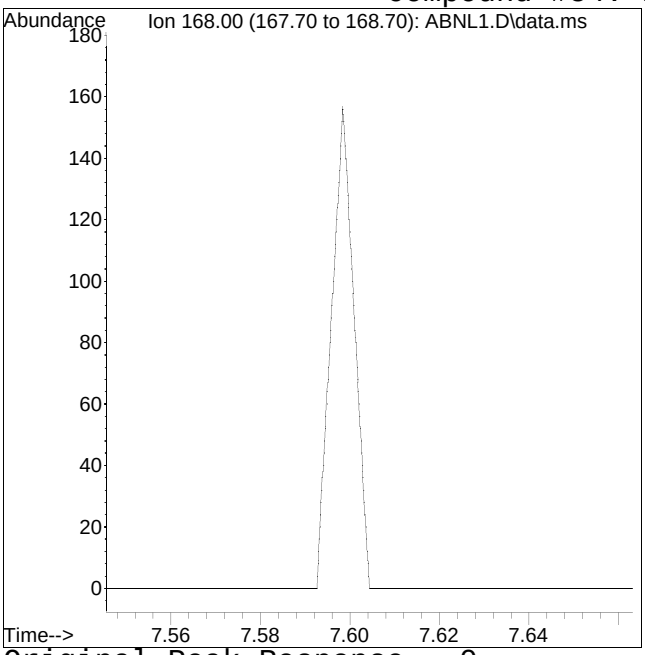


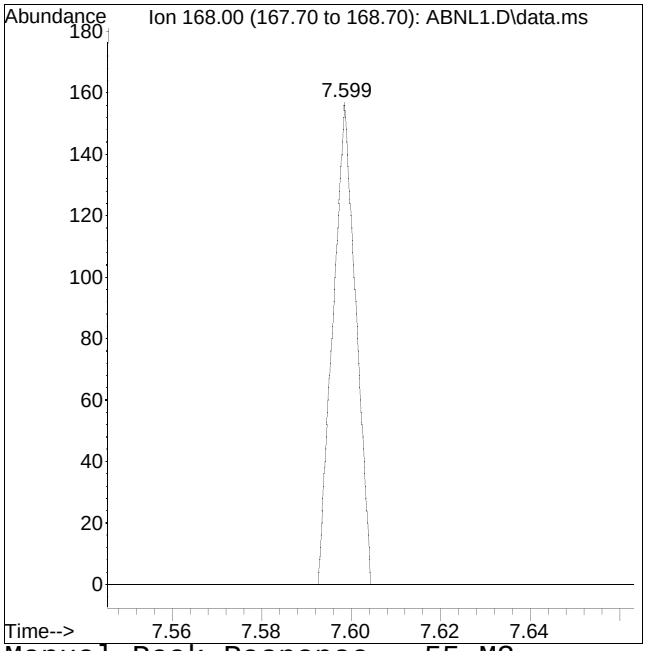
Original Peak Response = 6009 Manual Peak Response = 326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #54: 1,2-Dinitrobenzene



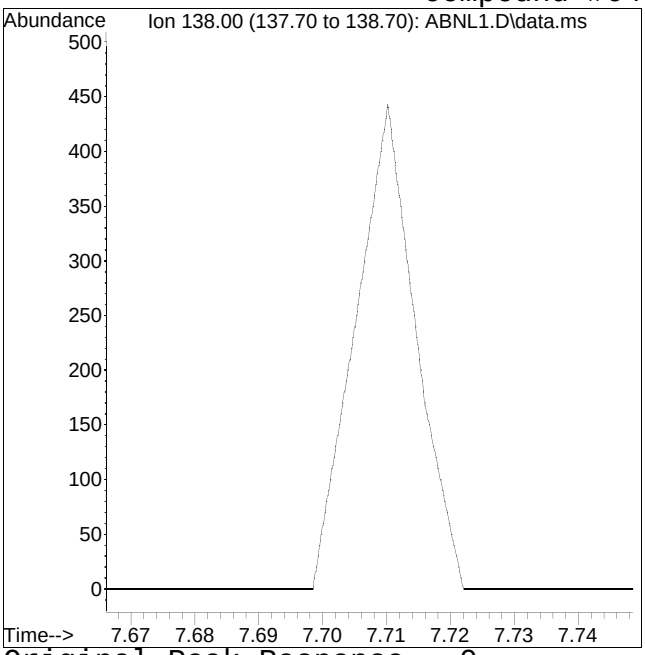


Original Peak Response = 0 Manual Peak Response = 55 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

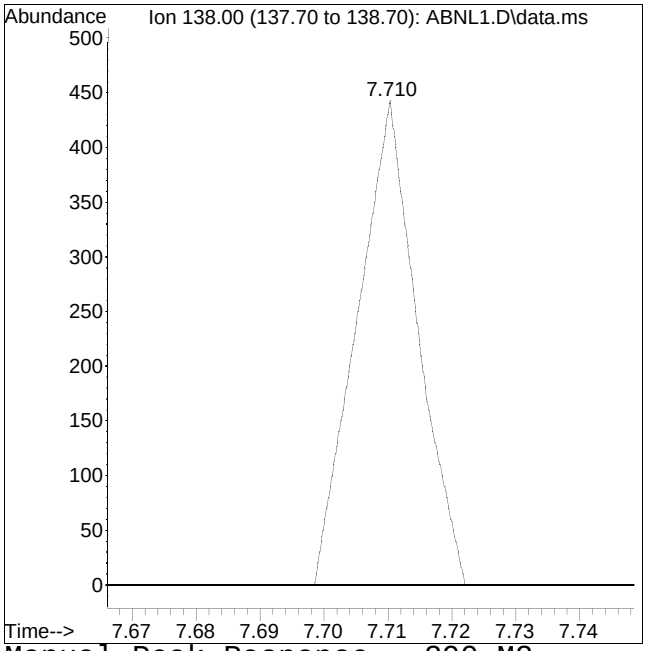
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #64: 3-Nitroaniline



Original Peak Response = 0



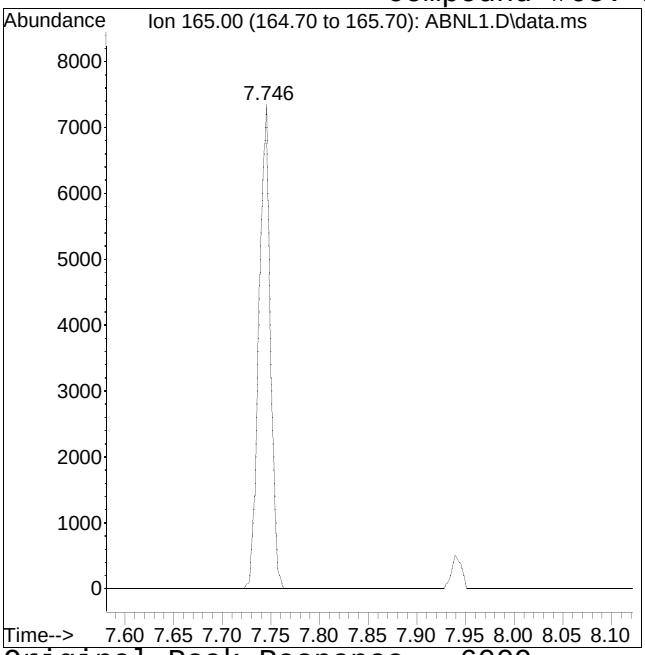
Manual Peak Response = 290 M2

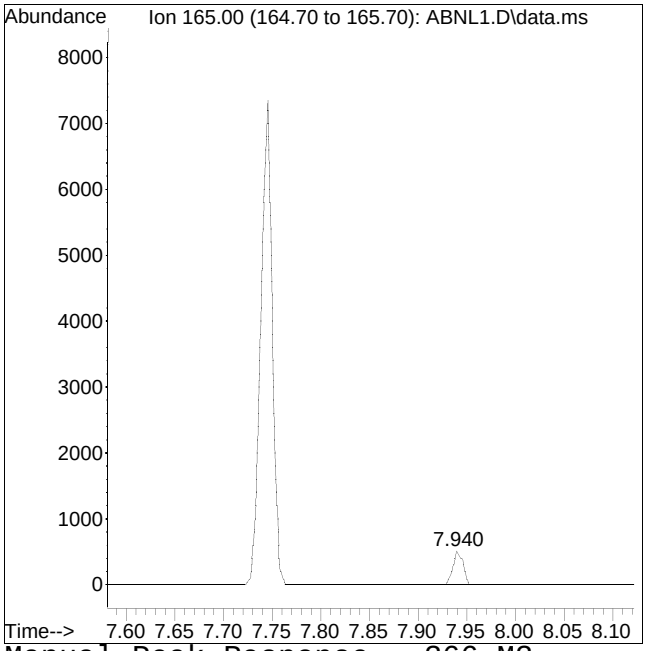
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #68: 2,4-Dinitrotoluene



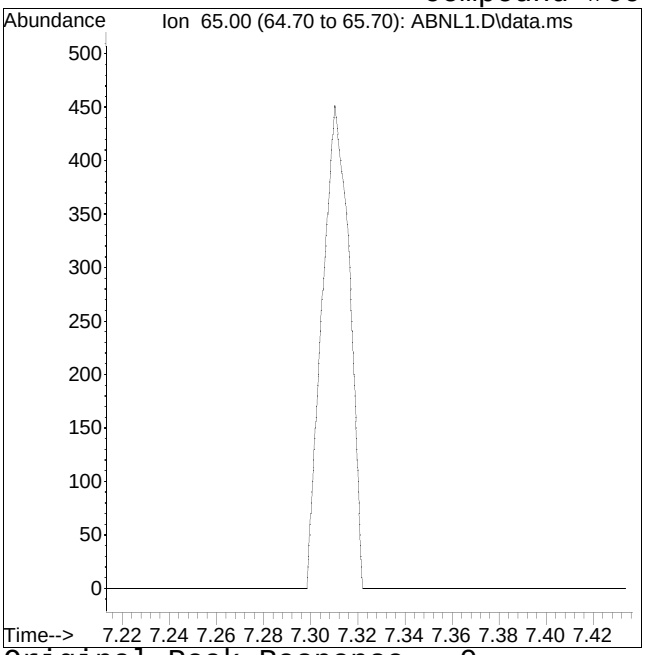


Original Peak Response = 6009 Manual Peak Response = 366 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

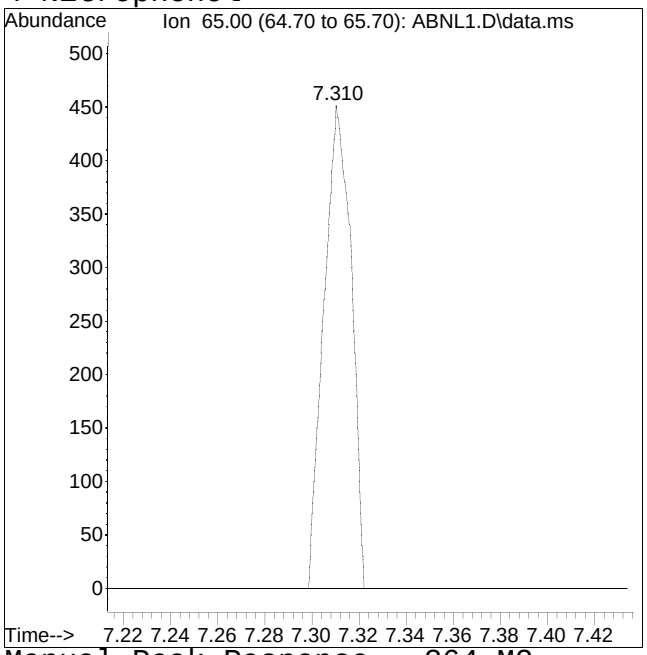
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 0



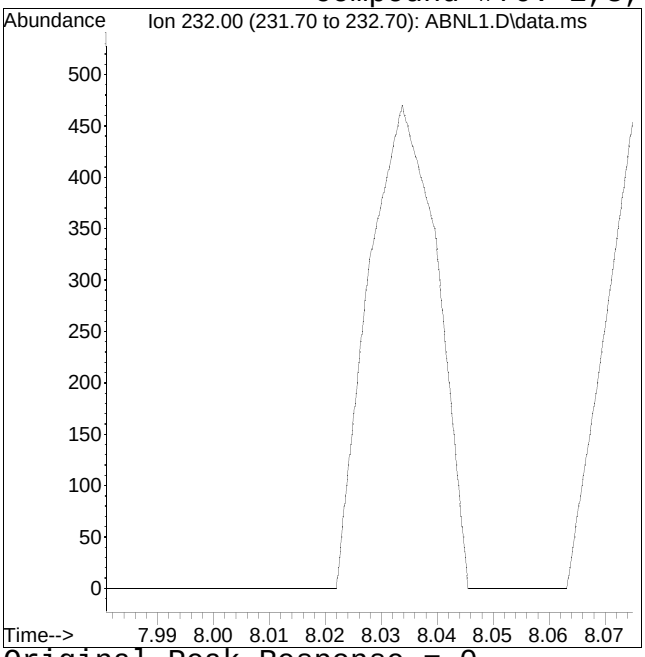
Manual Peak Response = 364 M2

M2 = Peak not found by automatic integration algorithm.

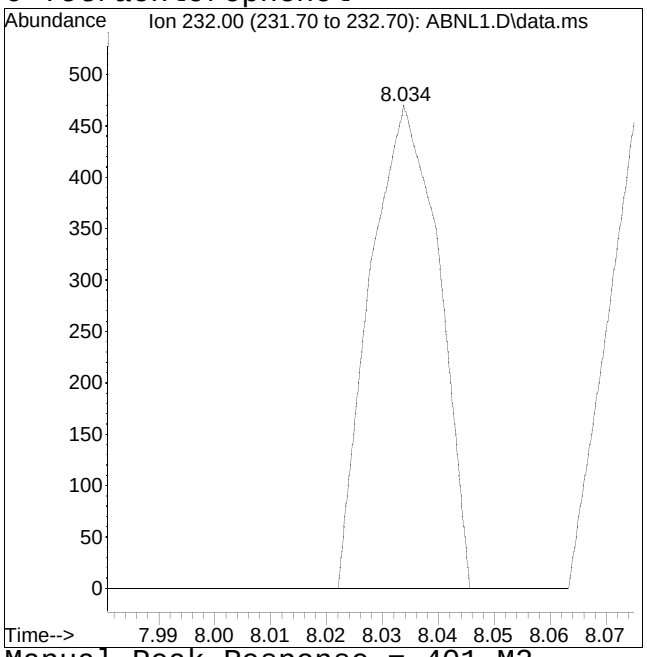
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 0



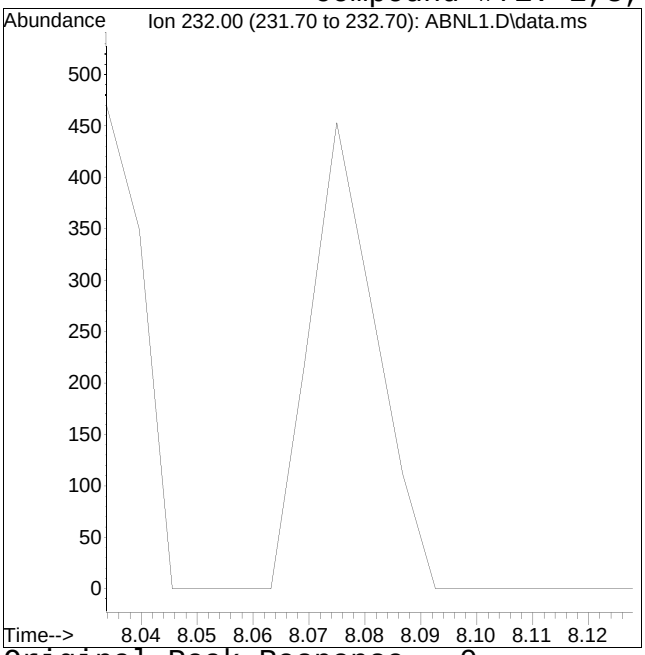
Manual Peak Response = 401 M2

M2 = Peak not found by automatic integration algorithm.

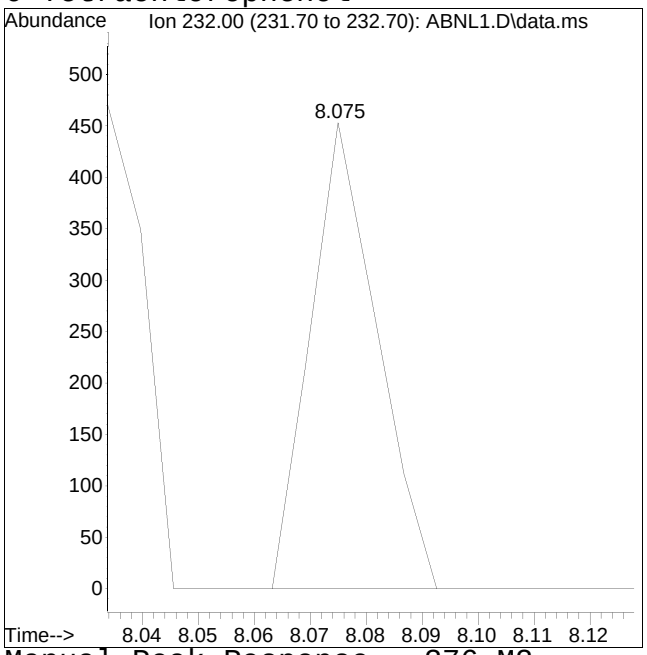
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #71: 2,3,4,6-Tetrachlorophenol



Original Peak Response = 0



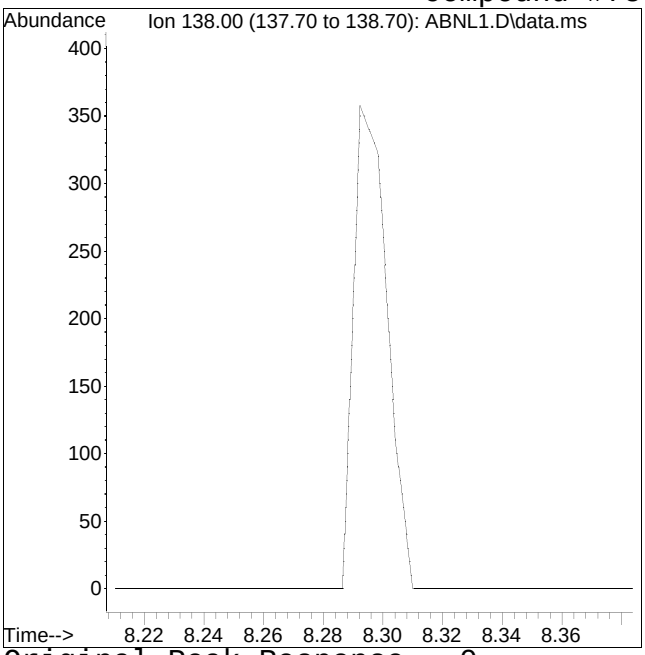
Manual Peak Response = 376 M2

M2 = Peak not found by automatic integration algorithm.

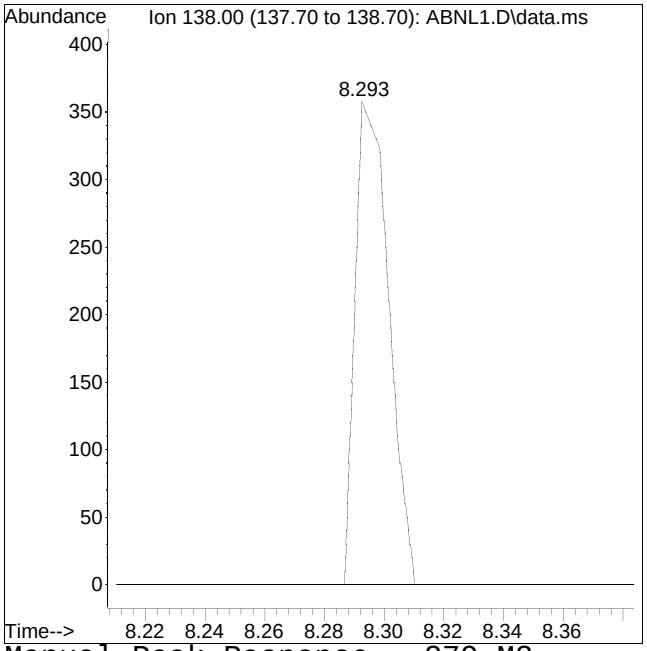
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 0



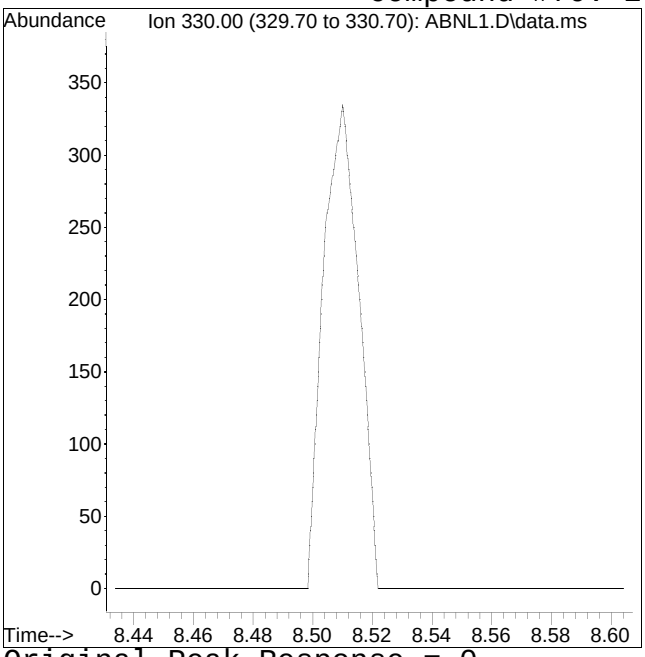
Manual Peak Response = 279 M2

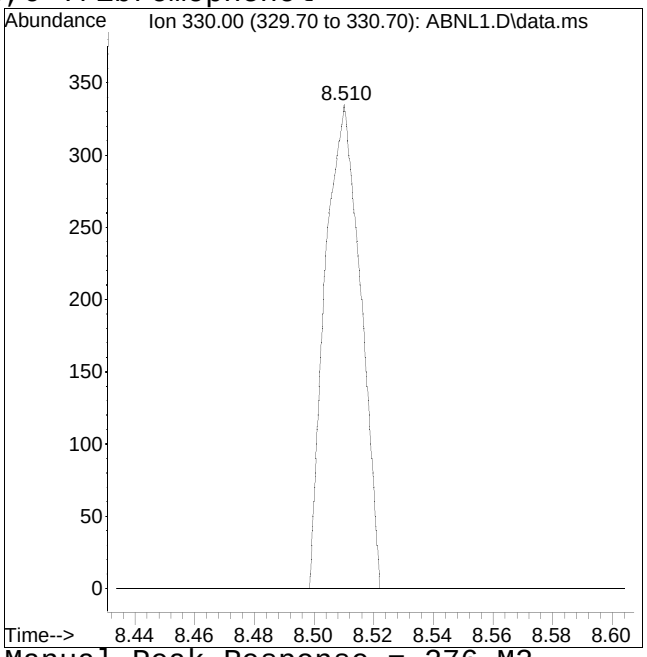
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #79: 2,4,6-Tribromophenol



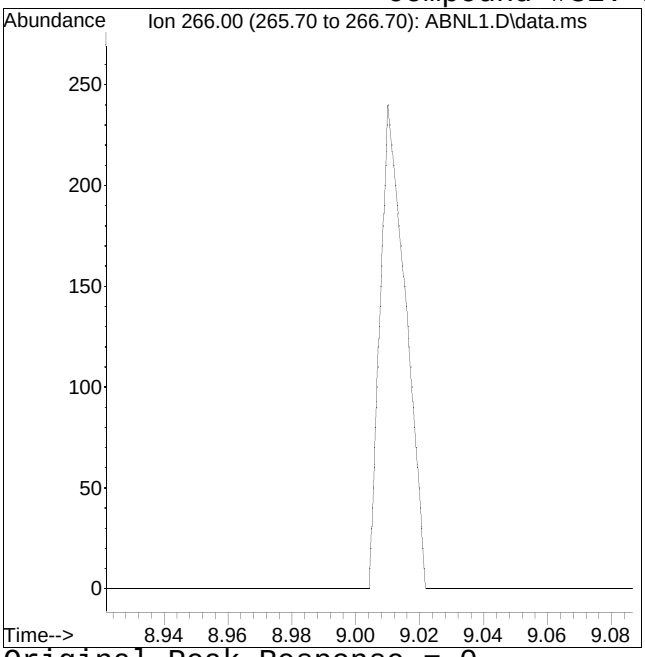


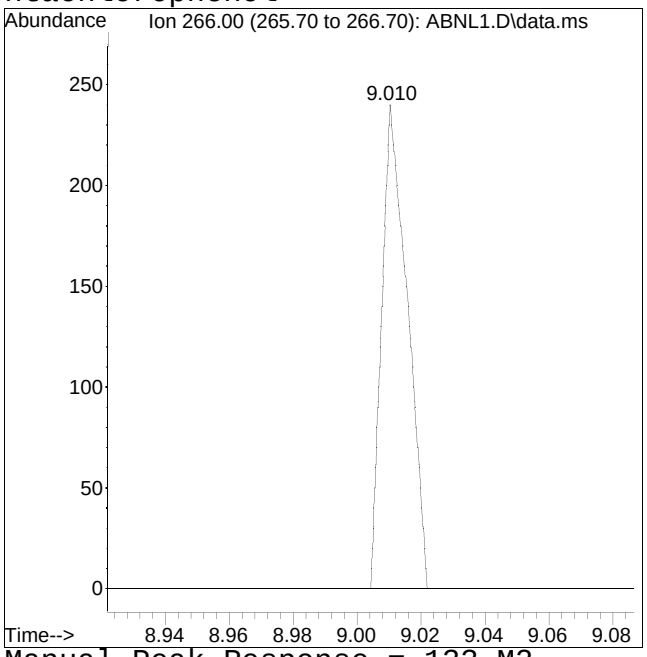
Original Peak Response = 0 Manual Peak Response = 276 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #82: Pentachlorophenol



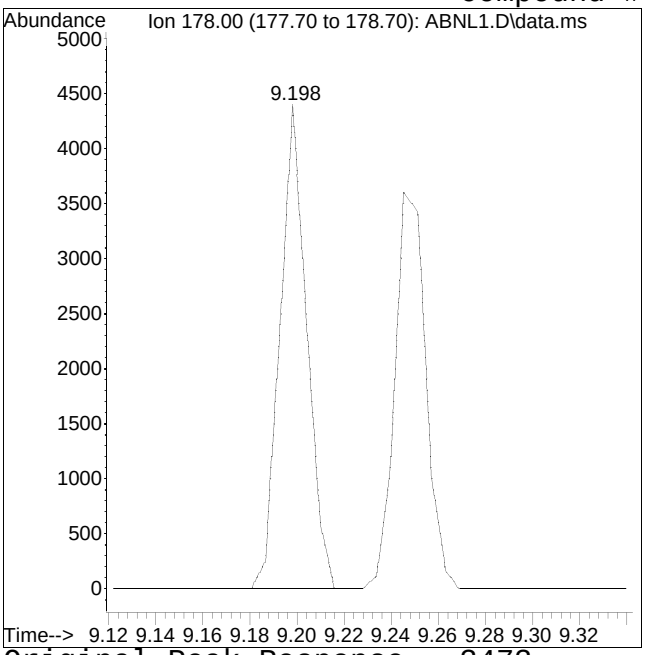


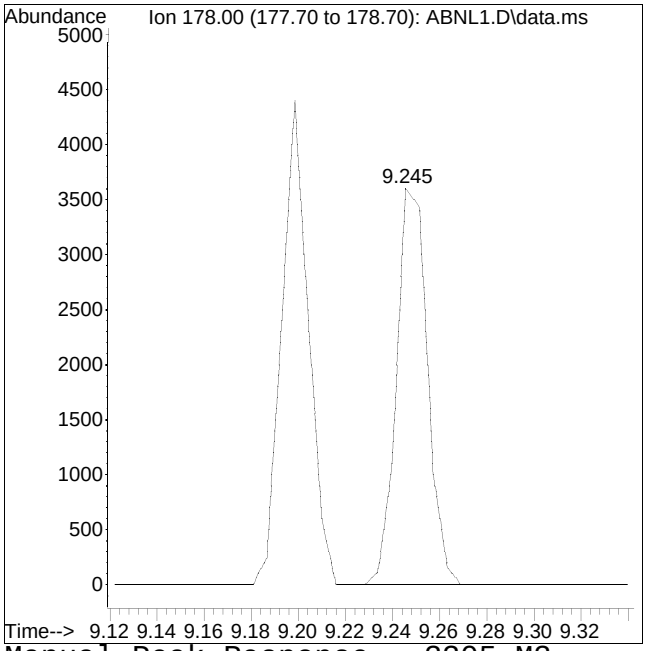
Original Peak Response = 0 Manual Peak Response = 133 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #90: Anthracene





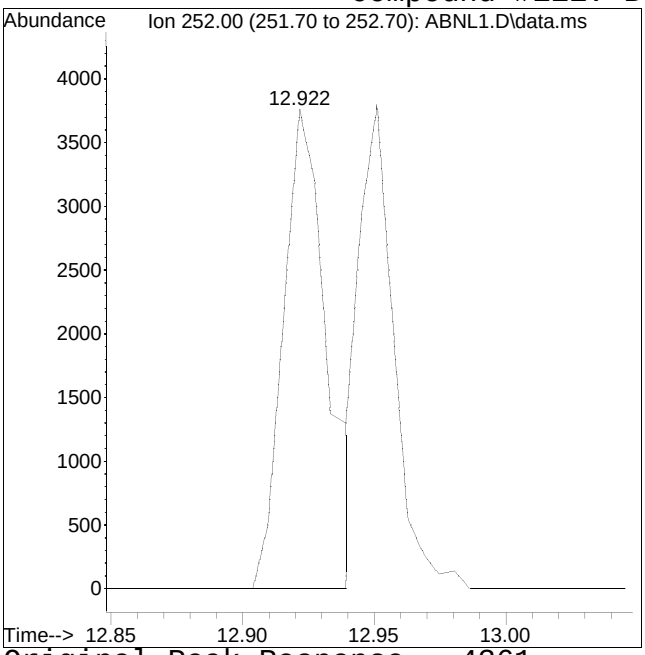
Original Peak Response = 3473 Manual Peak Response = 3305 M3

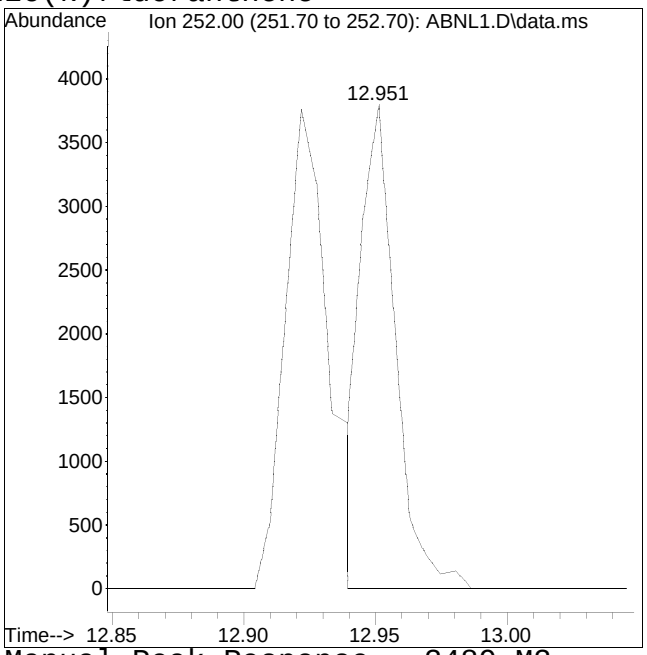
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #111: Benzo(k)fluoranthene



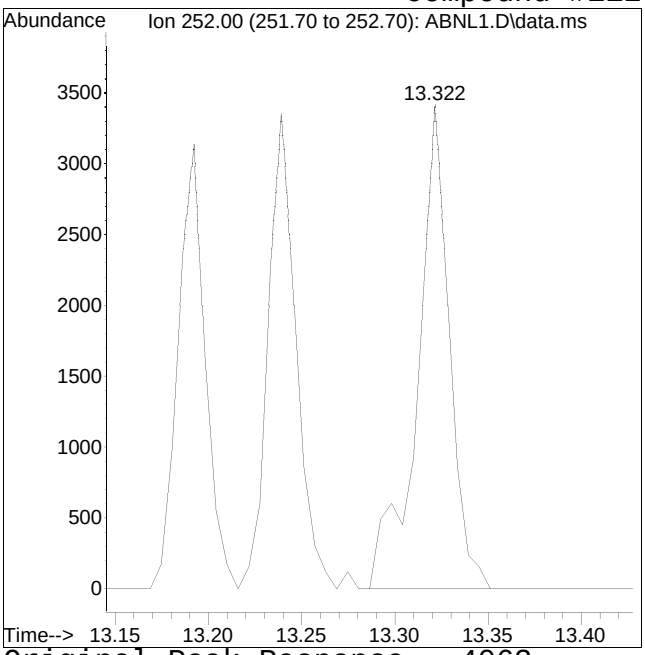


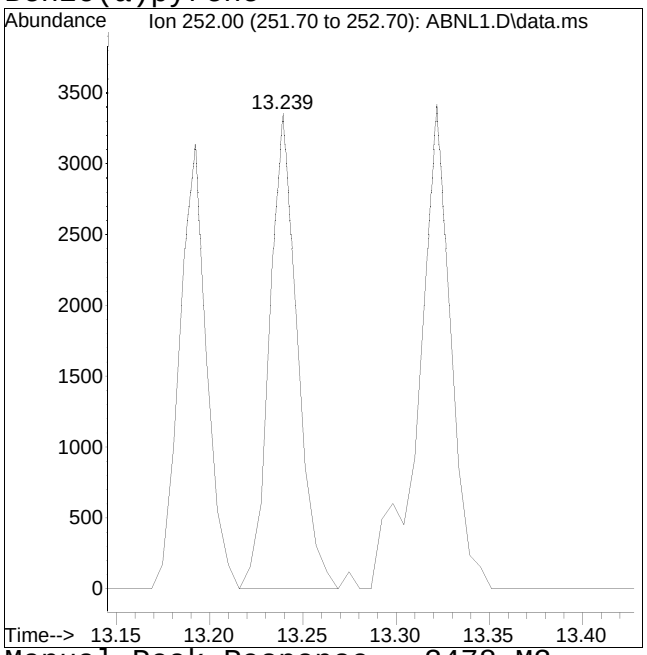
Original Peak Response = 4361 Manual Peak Response = 3489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #112: Benzo(a)pyrene



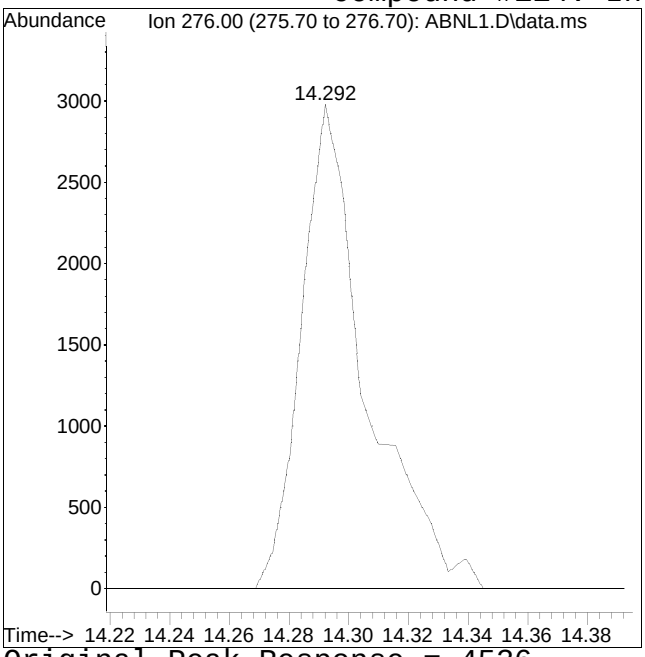


Original Peak Response = 4063 Manual Peak Response = 3478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

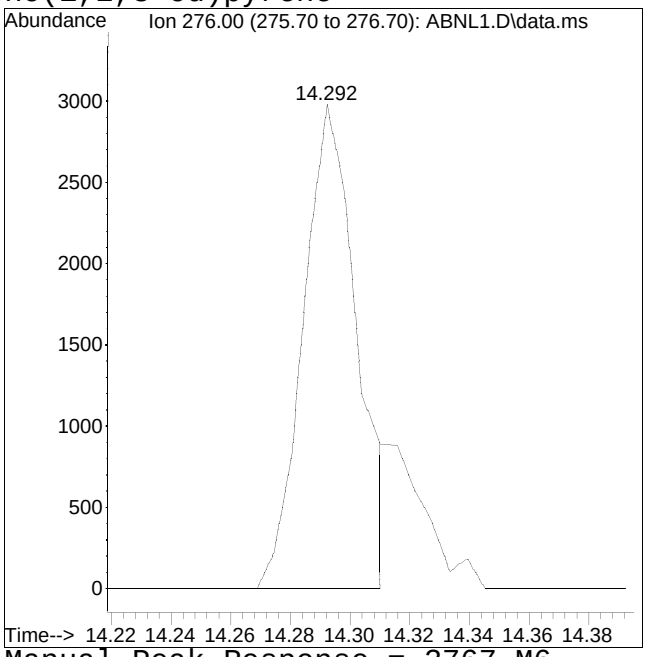
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNL1.D Operator : SV112:mrg
Date Inj'd : 6/25/2024 11:23 pm Instrument : SV112
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/30/2024 2:01 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 4536



Manual Peak Response = 3767 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L9.D
Acq On : 25 Jun 2024 11:47 pm
Operator : SV112:mrg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939943
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:24:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	22492	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery =	105.96%			
55) IS2_Naphthalene-d8	6.040	136	90198	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery =	110.06%			
83) IS2_Acenaphthene-d10	7.746	164	57949	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery =	111.88%			
98) IS2_Phenanthrene-d10	9.181	188	134679	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery =	113.98%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	323089	52.545	ug/ml		100
29) Acetophenone	5.205	105	569164	53.186	ug/ml		98
30) m-Toluidine	5.287	106	575073	55.939	ug/ml		98
31) 2-Chloroaniline	5.646	127	523726	53.474	ug/ml		98
56) a-Terpineol	6.099	59	349417	55.891	ug/ml		90
57) 3-Chloroaniline	6.110	65	189402	55.923	ug/ml		99
58) 2,6-Dichlorophenol	6.140	162	417756	56.797	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.393	111	189585	58.701	ug/ml		94
60) Caprolactam	6.452	55	206621	50.610	ug/ml		88
61) 1,2,4,5-Tetrachloroben...	6.910	216	538717	49.859	ug/ml		99
62) Biphenyl	7.199	154	1054299	45.553	ug/ml	#	88
84) Dichloran	8.881	206	195131	51.538	ug/ml	#	69
85) Pentachloronitrobenzene	9.028	237	204094	60.012	ug/ml	#	81
99) Diphenamid	10.087	167	939537	54.186	ug/ml		82

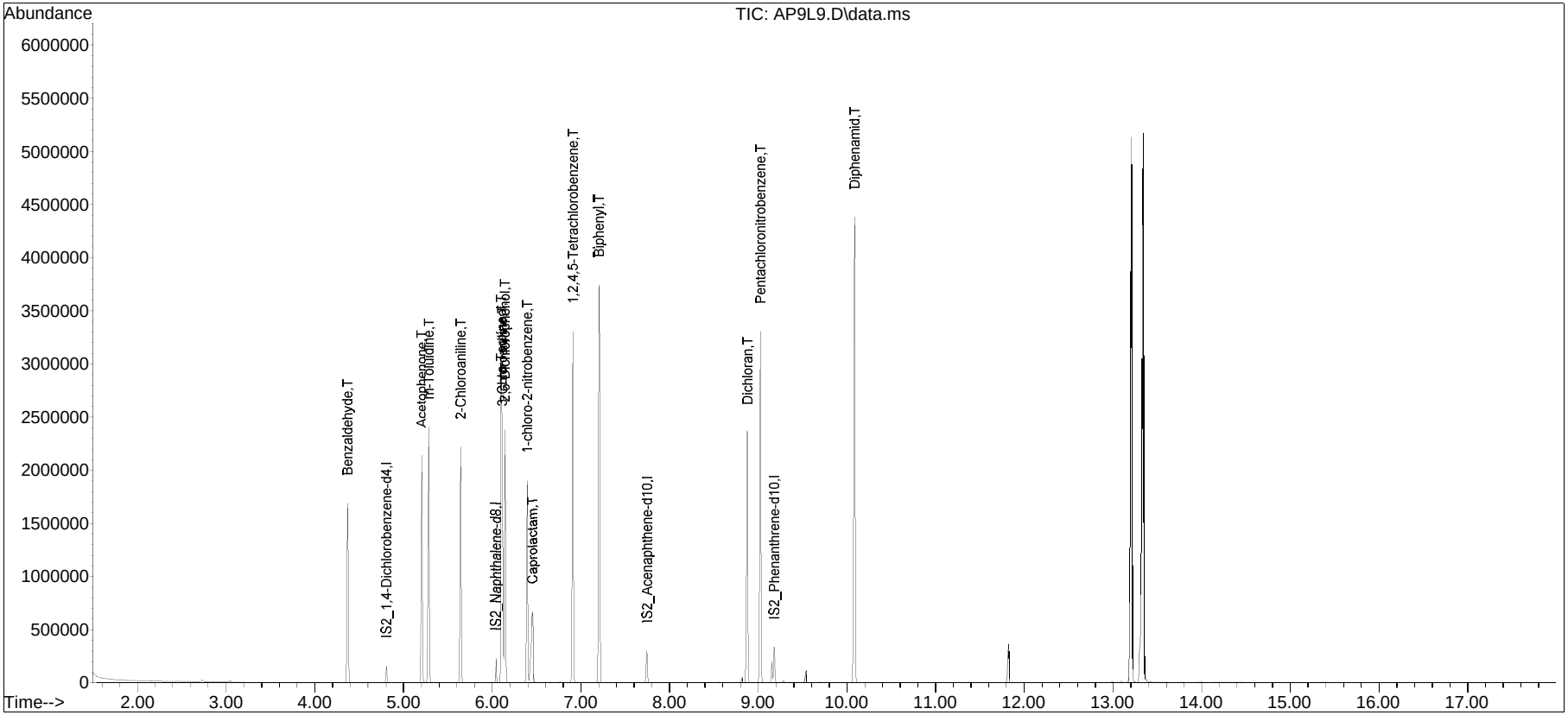
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L9.D
Acq On : 25 Jun 2024 11:47 pm
Operator : SV112:mrg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939943
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:24:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L9.D	Operator	: SV112:mrg
Date Inj'd	: 6/25/2024 11:47 pm	Instrument	: SV112
Sample	: IL2,32,,AP9L50 Lot# 10787	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L8.D
Acq On : 26 Jun 2024 12:10 am
Operator : SV112:mrg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939943
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:23:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	22044	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery =	103.85%		
55) IS2_Naphthalene-d8	6.040	136	85892	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery =	104.81%		
83) IS2_Acenaphthene-d10	7.746	164	54696	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery =	105.60%		
98) IS2_Phenanthrene-d10	9.175	188	127626	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery =	108.01%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	160147	26.574	ug/ml	100
29) Acetophenone	5.199	105	284383	27.114	ug/ml	98
30) m-Toluidine	5.281	106	281783	27.967	ug/ml	97
31) 2-Chloroaniline	5.646	127	257558	26.832	ug/ml	98
56) a-Terpineol	6.093	59	166526	27.972	ug/ml	91
57) 3-Chloroaniline	6.110	65	87285	27.064	ug/ml	96
58) 2,6-Dichlorophenol	6.140	162	196135	28.003	ug/ml#	90
59) 1-chloro-2-nitrobenzene	6.387	111	89474	29.092	ug/ml	95
60) Caprolactam	6.440	55	95511	24.807	ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	6.910	216	261772	25.442	ug/ml	98
62) Biphenyl	7.199	154	553574	25.117	ug/ml	94
84) Dichloran	8.875	206	87560	24.834	ug/ml#	70
85) Pentachloronitrobenzene	9.028	237	92965	28.961	ug/ml#	82
99) Diphenamid	10.081	167	476415	28.995	ug/ml	84

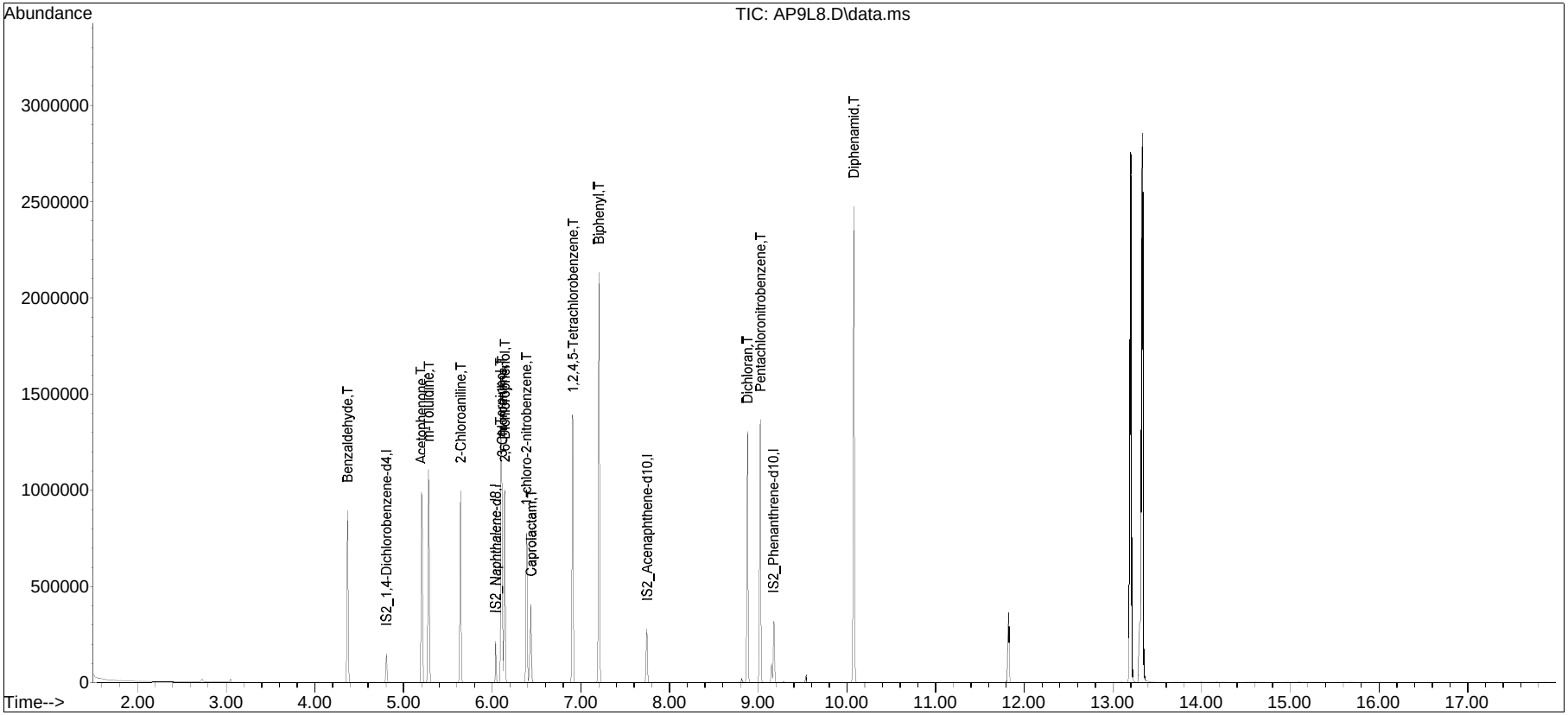
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L8.D
Acq On : 26 Jun 2024 12:10 am
Operator : SV112:mrg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939943
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:23:56 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L8.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:10 am	Instrument	: SV112
Sample	: IL3,32,,AP9L25 Lot# 10788	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L7.D
Acq On : 26 Jun 2024 12:33 am
Operator : SV112:mrg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939943
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:23:44 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	20726	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 97.64%				
55) IS2_Naphthalene-d8	6.040	136	79494	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 97.00%				
83) IS2_Acenaphthene-d10	7.746	164	50641	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 97.77%				
98) IS2_Phenanthrene-d10	9.175	188	115182	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 97.48%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	60217	10.628	ug/ml		99
29) Acetophenone	5.199	105	106664	10.817	ug/ml		98
30) m-Toluidine	5.281	106	105202	11.105	ug/ml		97
31) 2-Chloroaniline	5.646	127	97569	10.811	ug/ml		99
56) a-Terpineol	6.093	59	59466	10.793	ug/ml		92
57) 3-Chloroaniline	6.105	65	31462	10.540	ug/ml		92
58) 2,6-Dichlorophenol	6.134	162	72744	11.222	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.387	111	32101	11.278	ug/ml		94
60) Caprolactam	6.422	55	34523	9.973	ug/ml		89
61) 1,2,4,5-Tetrachloroben...	6.904	216	97989	10.290	ug/ml		97
62) Biphenyl	7.199	154	211768	10.382	ug/ml		97
84) Dichloran	8.869	206	28506	9.143	ug/ml	#	71
85) Pentachloronitrobenzene	9.022	237	31153	10.482	ug/ml	#	83
99) Diphenamid	10.081	167	166343	11.217	ug/ml		85

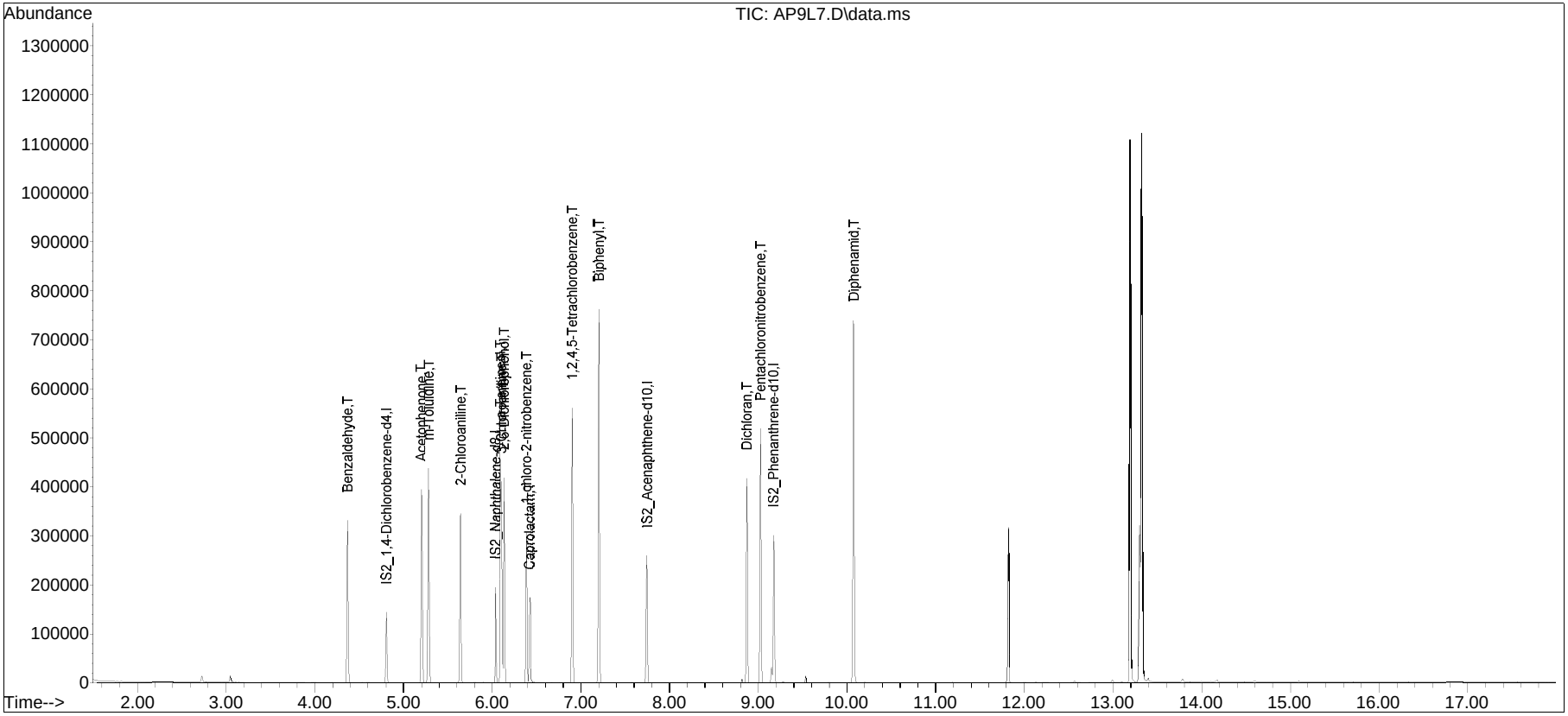
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L7.D
Acq On : 26 Jun 2024 12:33 am
Operator : SV112:mrg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939943
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:23:44 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L7.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:33 am	Instrument	: SV112
Sample	: IL4,32,,AP9L10 Lot# 10789	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L6.D
Acq On : 26 Jun 2024 12:56 am
Operator : SV112:mrg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939943
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:23:33 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	21226	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 100.00%				
55) IS2_Naphthalene-d8	6.040	136	81952	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 100.00%				
83) IS2_Acenaphthene-d10	7.746	164	51795	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 100.00%				
98) IS2_Phenanthrene-d10	9.175	188	118160	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	28710	4.948	ug/ml		98
29) Acetophenone	5.199	105	53018	5.250	ug/ml		97
30) m-Toluidine	5.281	106	50941	5.251	ug/ml		96
31) 2-Chloroaniline	5.646	127	47349	5.123	ug/ml		99
56) a-Terpineol	6.093	59	28592	5.034	ug/ml		92
57) 3-Chloroaniline	6.104	65	15255	4.957	ug/ml		89
58) 2,6-Dichlorophenol	6.134	162	34304	5.133	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.387	111	14944	5.093	ug/ml		96
60) Caprolactam	6.422	55	15831	4.695	ug/ml		90
61) 1,2,4,5-Tetrachloroben...	6.904	216	48563	4.947	ug/ml		97
62) Biphenyl	7.199	154	104269	4.958	ug/ml		97
84) Dichloran	8.869	206	12834	4.379	ug/ml	#	72
85) Pentachloronitrobenzene	9.022	237	14603	4.804	ug/ml	#	81
99) Diphenamid	10.075	167	78562	5.164	ug/ml		85

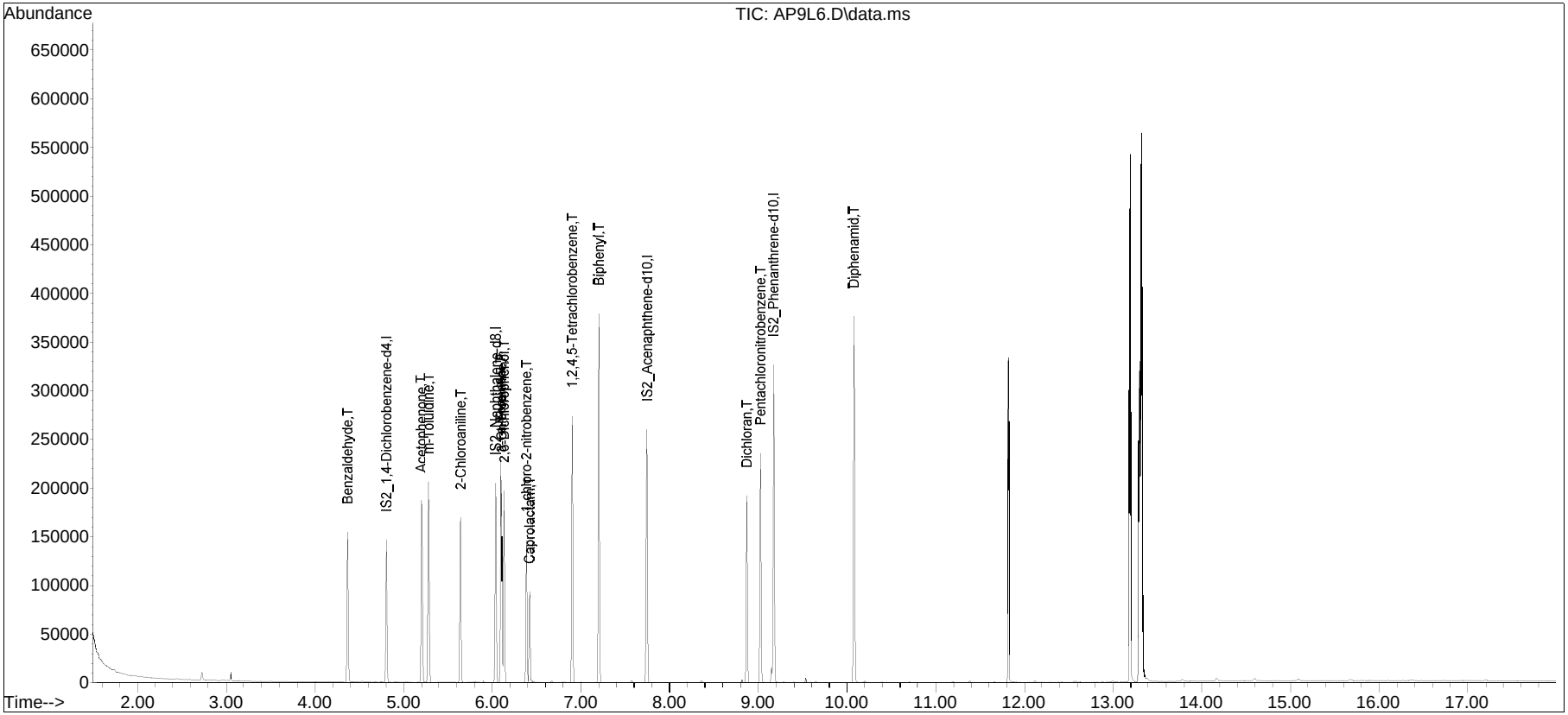
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L6.D
Acq On : 26 Jun 2024 12:56 am
Operator : SV112:mrg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939943
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:23:33 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L6.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 12:56 am	Instrument	: SV112
Sample	: IL5,32,,AP9L5 Lot# 10790	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L5.D
Acq On : 26 Jun 2024 01:19 am
Operator : SV112:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939943
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:23:21 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

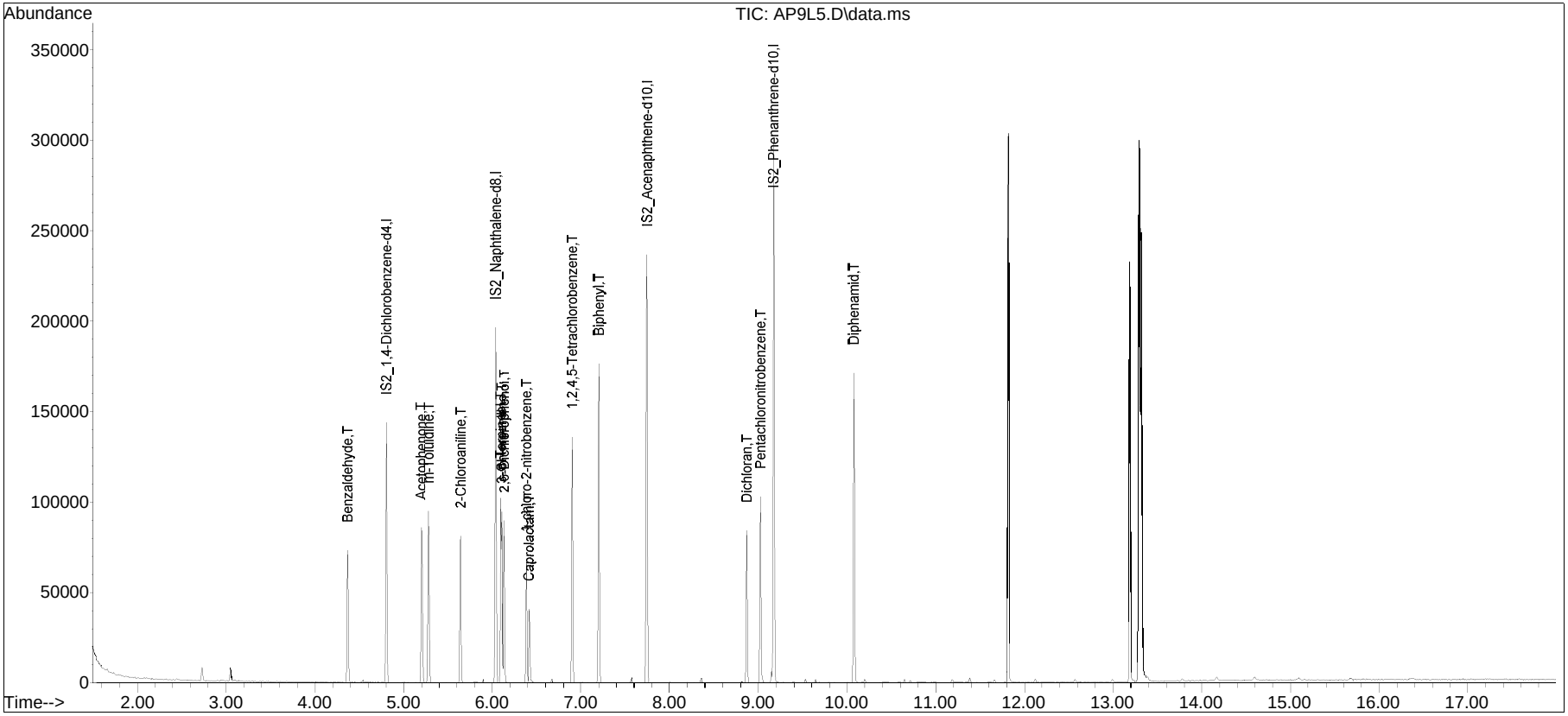
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	20752	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 97.77%			
55) IS2_Naphthalene-d8	6.040	136	79357	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 96.83%			
83) IS2_Acenaphthene-d10	7.746	164	48252	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 93.16%			
98) IS2_Phenanthrene-d10	9.175	188	111263	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery = 94.16%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	14171	2.498	ug/ml	100
29) Acetophenone	5.199	105	24703	2.502	ug/ml	97
30) m-Toluidine	5.281	106	23505	2.478	ug/ml	98
31) 2-Chloroaniline	5.646	127	22742	2.517	ug/ml	98
56) a-Terpineol	6.093	59	13091	2.380	ug/ml	90
57) 3-Chloroaniline	6.105	65	7093	2.380	ug/ml	90
58) 2,6-Dichlorophenol	6.134	162	15715	2.428	ug/ml#	89
59) 1-chloro-2-nitrobenzene	6.387	111	6601	2.323	ug/ml#	93
60) Caprolactam	6.416	55	6499	2.259	ug/ml#	88
61) 1,2,4,5-Tetrachloroben...	6.905	216	22878	2.407	ug/ml	95
62) Biphenyl	7.199	154	50391	2.475	ug/ml	98
84) Dichloran	8.869	206	5538	2.368	ug/ml#	70
85) Pentachloronitrobenzene	9.022	237	6418	2.266	ug/ml#	81
99) Diphenamid	10.075	167	34924	2.438	ug/ml	84

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L5.D
Acq On : 26 Jun 2024 01:19 am
Operator : SV112:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939943
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:23:21 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L5.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 1:19 am	Instrument	: SV112
Sample	: IL6,32,,AP9L2.5 Lot# 10791	Quant Date	: 7/1/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L4.D
Acq On : 26 Jun 2024 01:43 am
Operator : SV112:mrg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939943
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:23:10 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

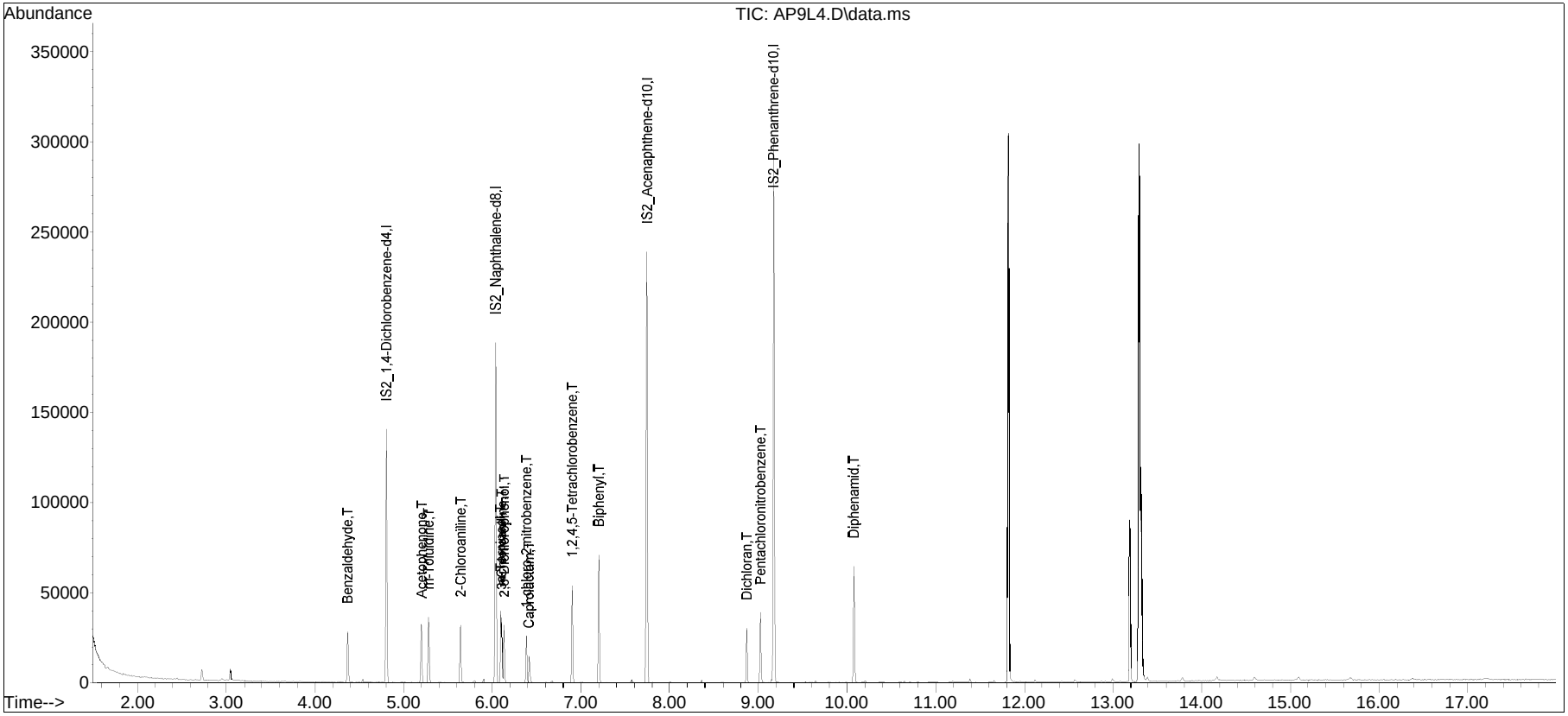
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	20723	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 97.63%			
55) IS2_Naphthalene-d8	6.040	136	76626	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 93.50%			
83) IS2_Acenaphthene-d10	7.746	164	47603	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 91.91%			
98) IS2_Phenanthrene-d10	9.175	188	108646	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery = 91.95%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.369	105	5554	0.980	ug/ml	98
29) Acetophenone	5.205	105	9859	1.000	ug/ml	96
30) m-Toluidine	5.281	106	9225	0.974	ug/ml	98
31) 2-Chloroaniline	5.646	127	8758	0.971	ug/ml	99
56) a-Terpineol	6.093	59	5131	0.966	ug/ml	88
57) 3-Chloroaniline	6.105	65	2857	0.993	ug/ml	96
58) 2,6-Dichlorophenol	6.134	162	5787	0.926	ug/ml	90
59) 1-chloro-2-nitrobenzene	6.387	111	2799	1.020	ug/ml	94
60) Caprolactam	6.416	55	2412	1.156	ug/ml	91
61) 1,2,4,5-Tetrachloroben...	6.905	216	9645	1.051	ug/ml#	96
62) Biphenyl	7.199	154	20307	1.033	ug/ml	98
84) Dichloran	8.869	206	1907	1.239	ug/ml#	81
85) Pentachloronitrobenzene	9.022	237	2444	0.875	ug/ml#	82
99) Diphenamid	10.075	167	13800	0.987	ug/ml	85

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L4.D
Acq On : 26 Jun 2024 01:43 am
Operator : SV112:mrg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939943
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:23:10 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L4.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 1:43 am	Instrument	: SV112
Sample	: IL7,32,,AP9L1 Lot# 10792	Quant Date	: 7/1/2024 6:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L3.D
Acq On : 26 Jun 2024 02:06 am
Operator : SV112:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939943
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:22:59 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.805	152	20138	4.000 ug/ml	0.00
Standard Area 1 = 21226			Recovery = 94.87%		
55) IS2_Naphthalene-d8	6.040	136	74008	4.000 ug/ml	0.00
Standard Area 1 = 81952			Recovery = 90.31%		
83) IS2_Acenaphthene-d10	7.746	164	44694	4.000 ug/ml	0.00
Standard Area 1 = 51795			Recovery = 86.29%		
98) IS2_Phenanthrene-d10	9.175	188	102142	4.000 ug/ml	# 0.00
Standard Area 1 = 118160			Recovery = 86.44%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.375	105	2792	0.507 ug/ml	99
29) Acetophenone	5.205	105	4826	0.504 ug/ml	99
30) m-Toluidine	5.281	106	4468	0.485 ug/ml#	92
31) 2-Chloroaniline	5.646	127	4442	0.507 ug/ml	94
56) a-Terpineol	6.093	59	2535	0.494 ug/ml	94
57) 3-Chloroaniline	6.105	65	1554	0.559 ug/ml	91
58) 2,6-Dichlorophenol	6.134	162	2827	0.468 ug/ml	93
59) 1-chloro-2-nitrobenzene	6.387	111	1322	0.499 ug/ml	95
60) Caprolactam	6.422	55	1062	0.781 ug/ml#	62
61) 1,2,4,5-Tetrachloroben...	6.904	216	4650	0.525 ug/ml	98
62) Biphenyl	7.199	154	10080	0.531 ug/ml	98
84) Dichloran	8.869	206	871	0.928 ug/ml	81
85) Pentachloronitrobenzene	9.022	237	1116	0.425 ug/ml#	76
99) Diphenamid	10.075	167	5974	0.454 ug/ml	86

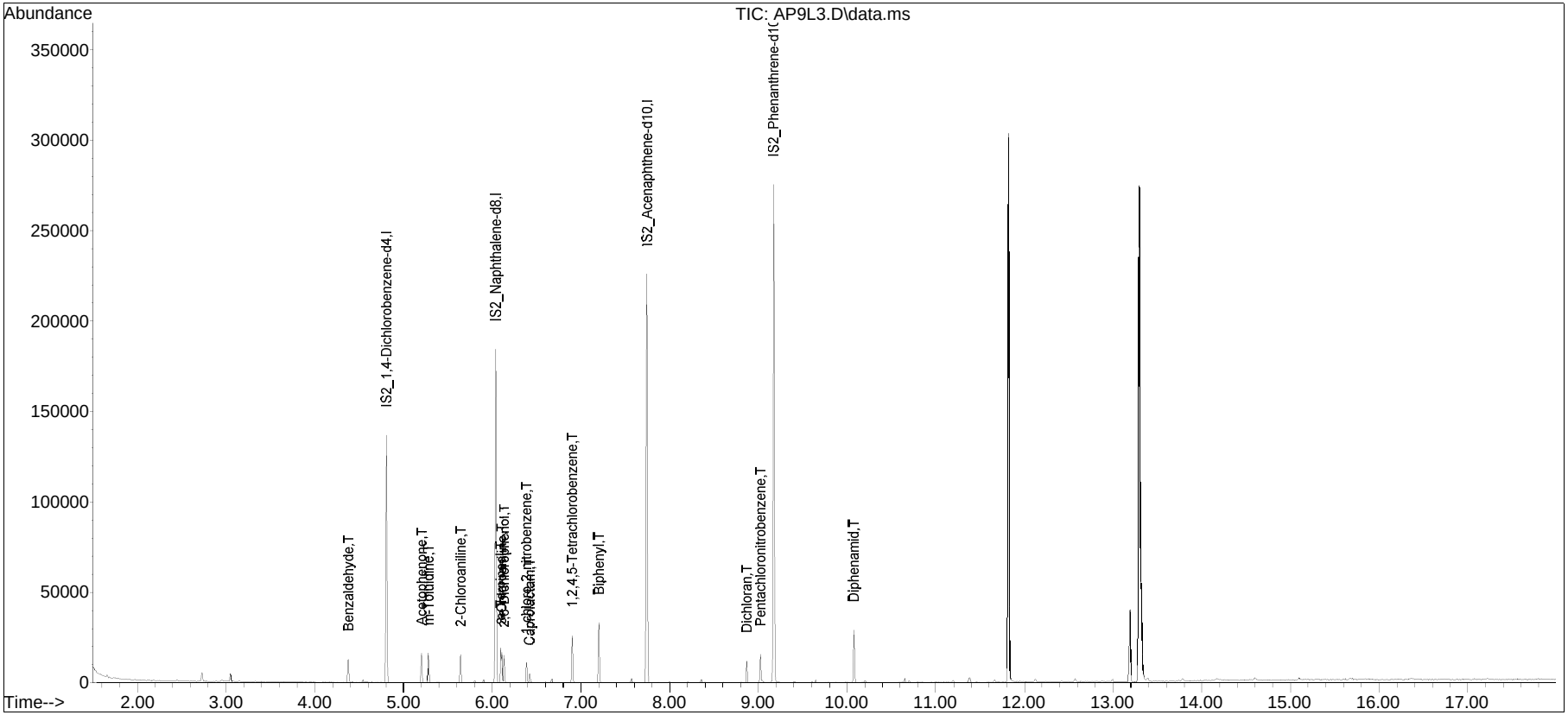
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L3.D
Acq On : 26 Jun 2024 02:06 am
Operator : SV112:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939943
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:22:59 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9L3.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 2:06 am	Instrument	: SV112
Sample	: IL8,32,,AP9L0.5 Lot# 10793	Quant Date	: 7/1/2024 6:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L2.D
Acq On : 26 Jun 2024 02:29 am
Operator : SV112:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939943
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:22:48 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	20613	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 97.11%			
55) IS2_Naphthalene-d8	6.040	136	75816	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 92.51%			
83) IS2_Acenaphthene-d10	7.746	164	46427	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 89.64%			
98) IS2_Phenanthrene-d10	9.175	188	106296	4.000	ug/ml	# 0.00
Standard Area 1 = 118160			Recovery = 89.96%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	1252	0.222	ug/ml	91
29) Acetophenone	5.205	105	2044	0.208	ug/ml#	82
30) m-Toluidine	5.287	106	1832	0.194	ug/ml#	95
31) 2-Chloroaniline	5.646	127	1770	0.197	ug/ml#	75
56) a-Terpineol	6.093	59	1050	0.200	ug/ml	96
57) 3-Chloroaniline	6.105	65	491M2	0.172	ug/ml	
58) 2,6-Dichlorophenol	6.134	162	1237	0.200	ug/ml	91
59) 1-chloro-2-nitrobenzene	6.387	111	528	0.194	ug/ml#	63
60) Caprolactam	6.428	55	298M2	0.553	ug/ml	
61) 1,2,4,5-Tetrachloroben...	6.904	216	2043	0.225	ug/ml#	89
62) Biphenyl	7.199	154	4391	0.226	ug/ml	99
84) Dichloran	8.869	206	316M2	0.736	ug/ml	
85) Pentachloronitrobenzene	9.022	237	492M2	0.181	ug/ml	
99) Diphenamid	10.075	167	2543	0.186	ug/ml	86

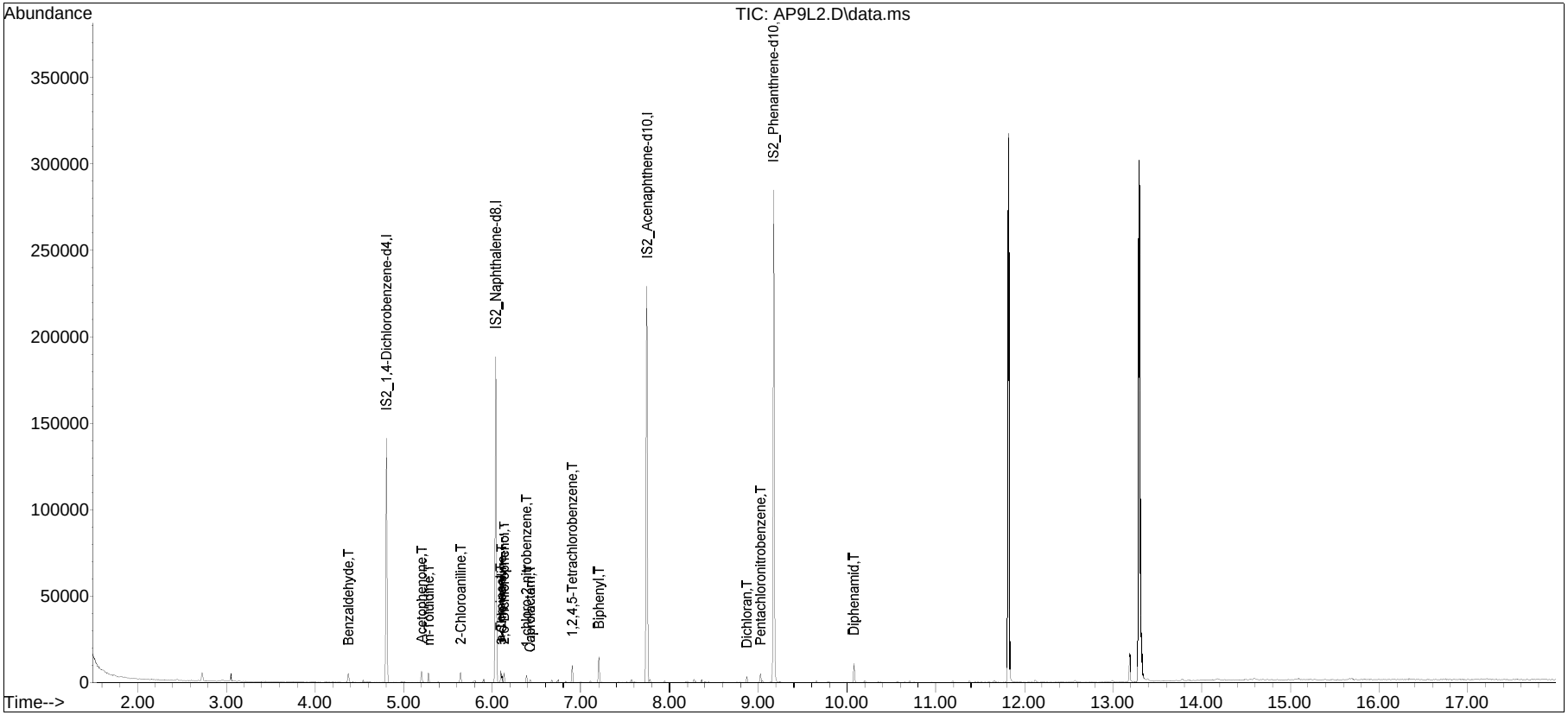
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L2.D
Acq On : 26 Jun 2024 02:29 am
Operator : SV112:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939943
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:22:48 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

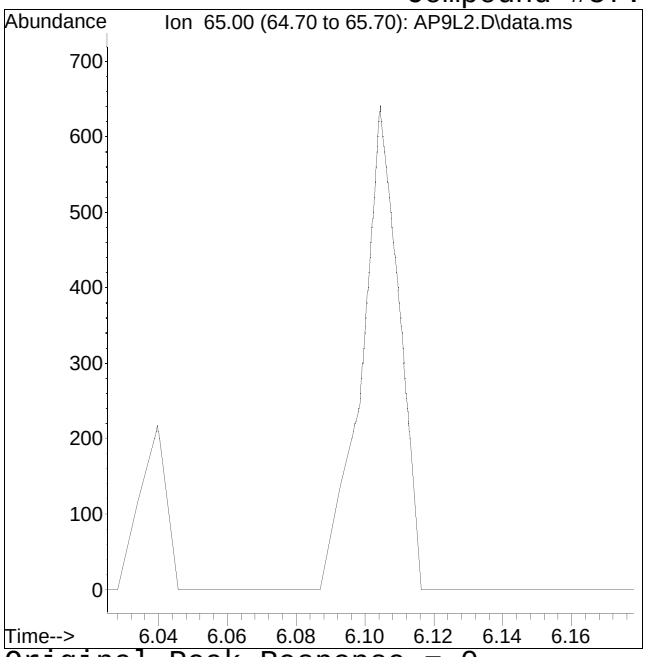
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



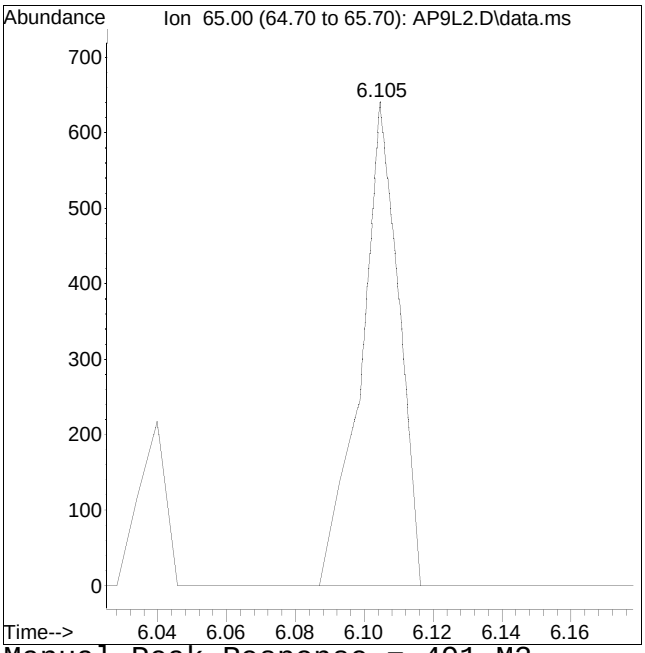
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #57: 3-Chloroaniline



Original Peak Response = 0



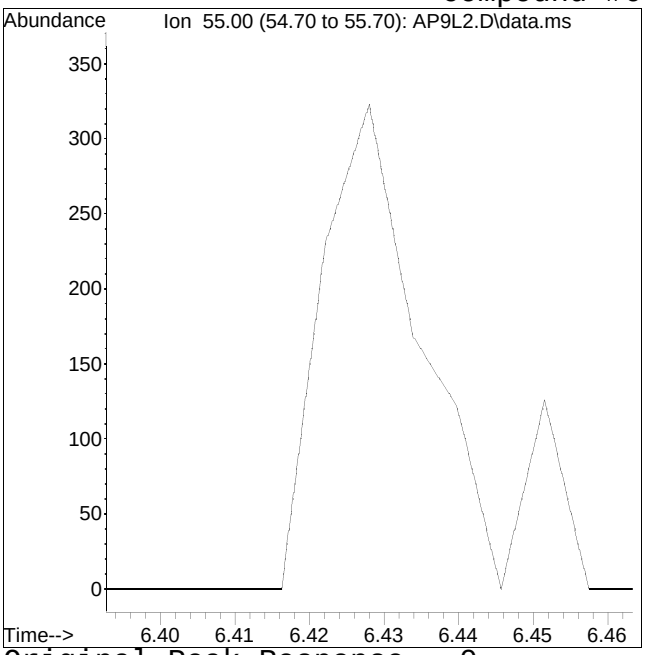
Manual Peak Response = 491 M2

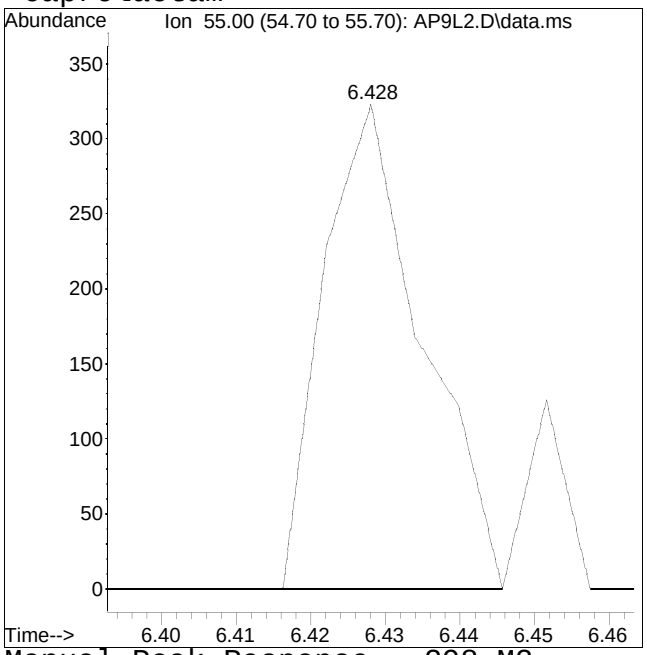
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #60: Caprolactam



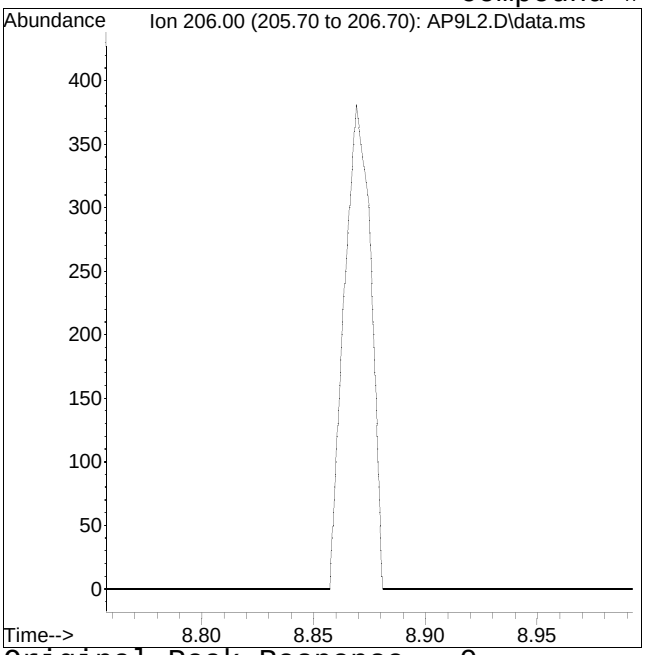


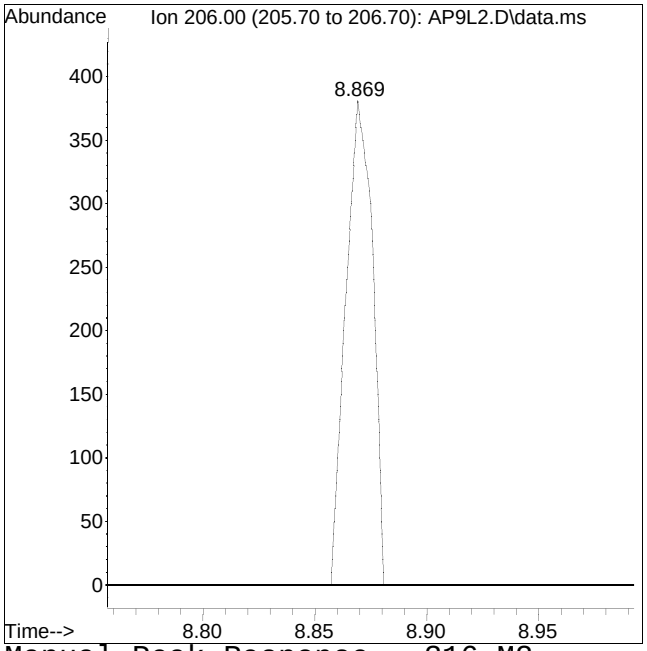
Original Peak Response = 0 Manual Peak Response = 298 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #84: Dichloran



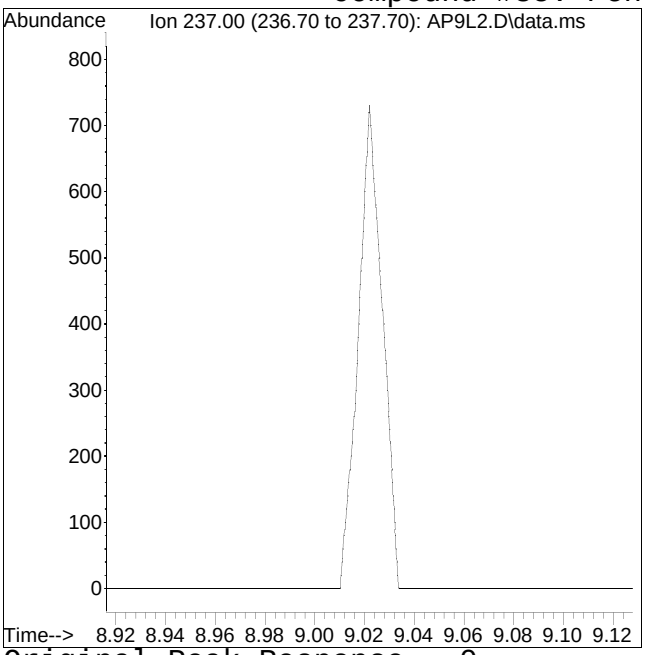


Original Peak Response = 0 Manual Peak Response = 316 M2
M2 = Peak not found by automatic integration algorithm.

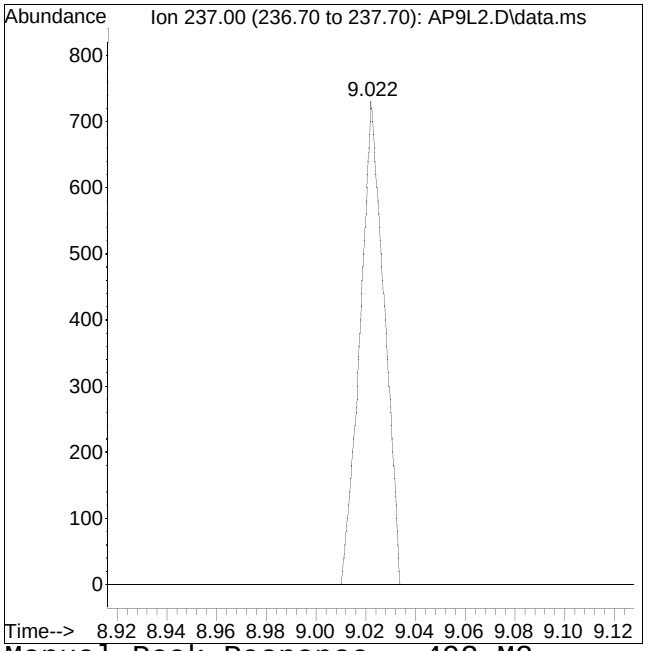
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:29 am Instrument : SV112
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 7/1/2024 6:23 am

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 492 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L1.D
Acq On : 26 Jun 2024 02:52 am
Operator : SV112:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939943
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:22:37 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.805	152	19956	4.000	ug/ml	0.00
Standard Area 1 = 21226			Recovery = 94.02%			
55) IS2_Naphthalene-d8	6.040	136	73801	4.000	ug/ml	0.00
Standard Area 1 = 81952			Recovery = 90.05%			
83) IS2_Acenaphthene-d10	7.746	164	45325	4.000	ug/ml	0.00
Standard Area 1 = 51795			Recovery = 87.51%			
98) IS2_Phenanthrene-d10	9.175	188	102570	4.000	ug/ml #	0.00
Standard Area 1 = 118160			Recovery = 86.81%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	519	0.095	ug/ml#	2
29) Acetophenone	5.205	105	834	0.088	ug/ml#	51
30) m-Toluidine	5.281	106	810	0.089	ug/ml#	92
31) 2-Chloroaniline	5.646	127	845	0.097	ug/ml#	46
56) a-Terpineol	6.093	59	497M3	0.097	ug/ml	
57) 3-Chloroaniline	6.104	65	198M2	0.071	ug/ml	
58) 2,6-Dichlorophenol	6.134	162	578	0.096	ug/ml#	17
59) 1-chloro-2-nitrobenzene	6.387	111	209M2	0.079	ug/ml	
60) Caprolactam	6.428	55	106M2	0.498	ug/ml	
61) 1,2,4,5-Tetrachloroben...	6.904	216	888	0.100	ug/ml#	87
62) Biphenyl	7.199	154	2021	0.107	ug/ml	93
84) Dichloran	8.869	206	167M2	0.689	ug/ml	
85) Pentachloronitrobenzene	9.022	237	200M2	0.075	ug/ml	
99) Diphenamid	10.075	167	1305	0.099	ug/ml	88

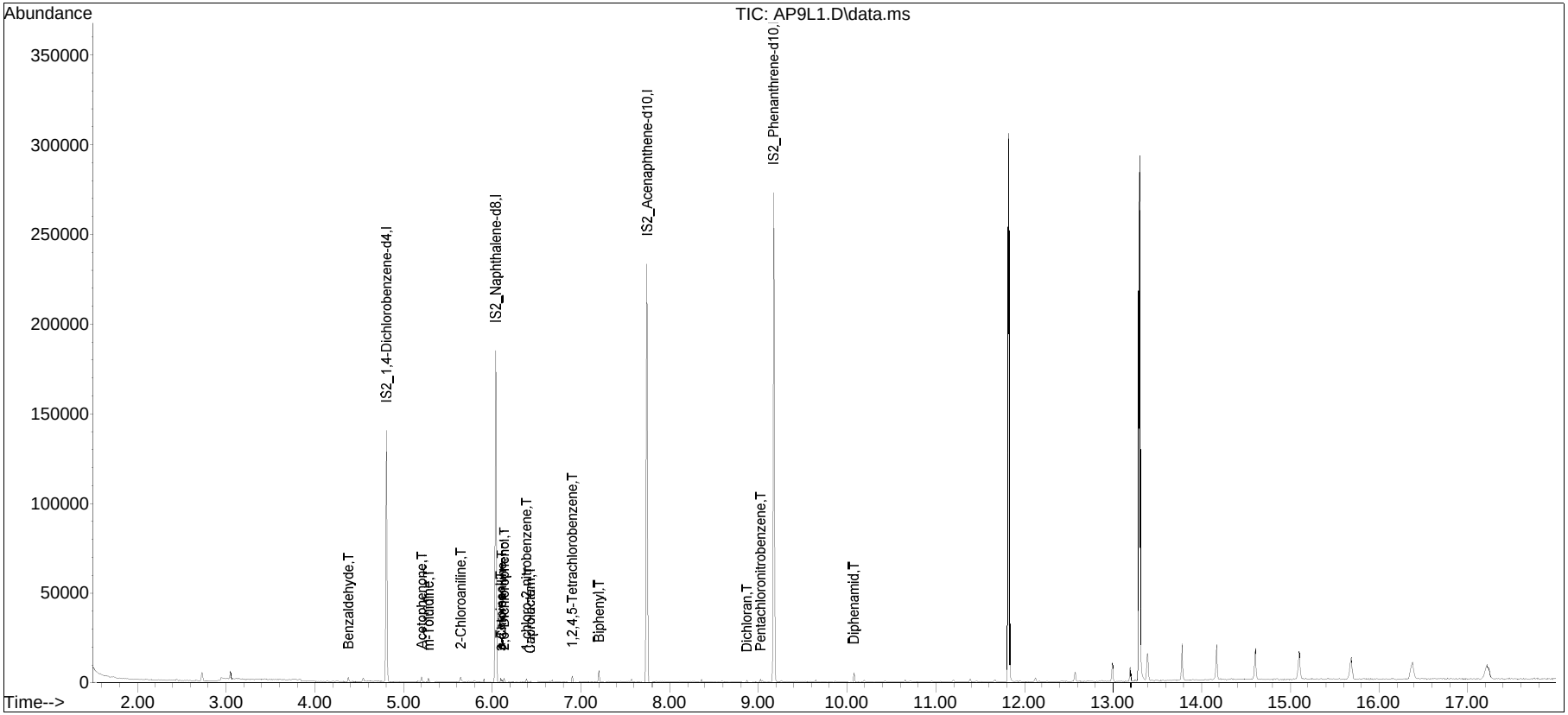
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9L1.D
Acq On : 26 Jun 2024 02:52 am
Operator : SV112:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939943
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:22:37 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

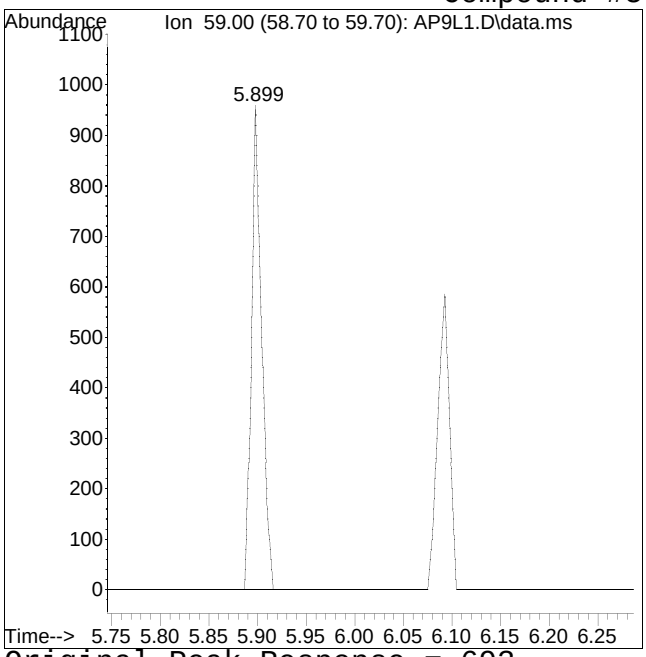
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

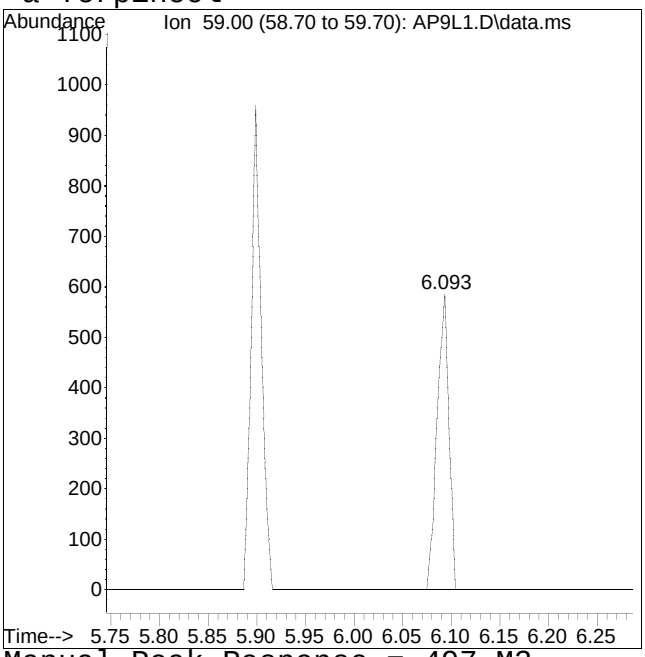


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #56: a-Terpineol





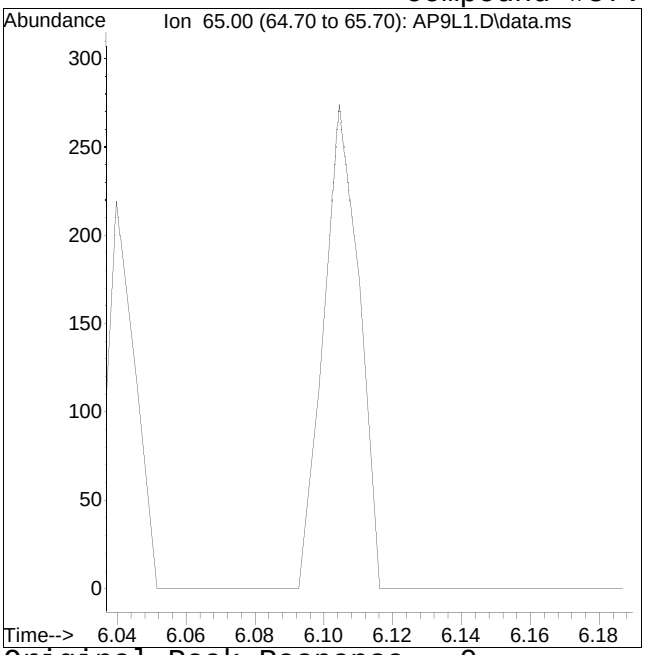
Original Peak Response = 693 Manual Peak Response = 497 M3

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

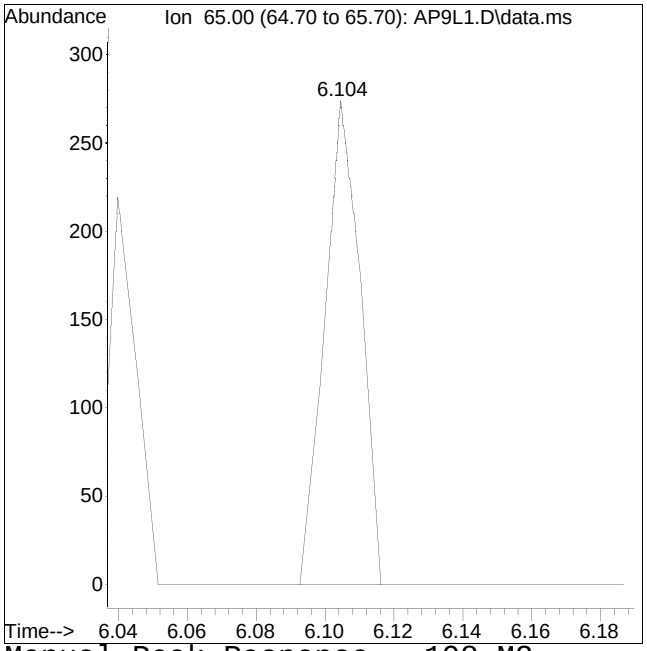
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #57: 3-Chloroaniline



Original Peak Response = 0



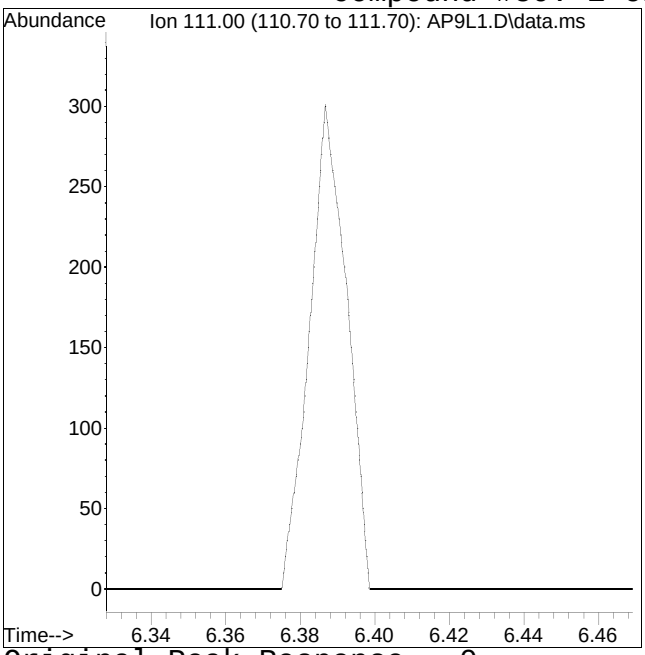
Manual Peak Response = 198 M2

M2 = Peak not found by automatic integration algorithm.

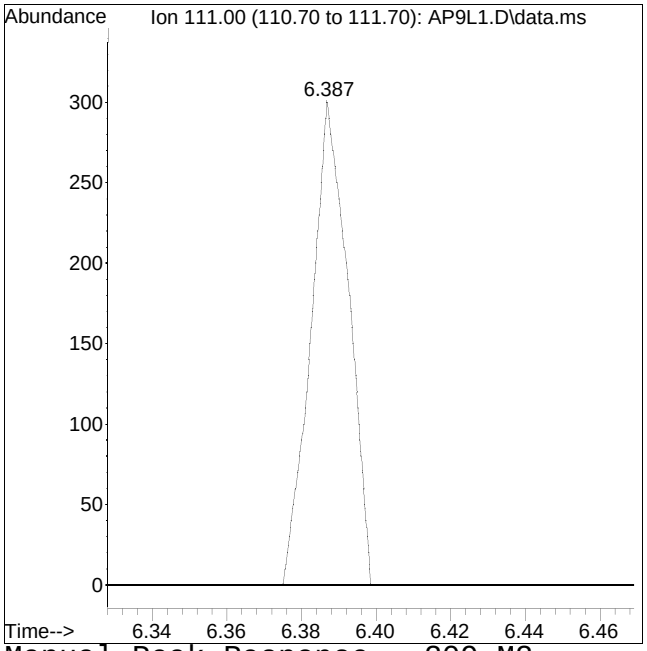
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



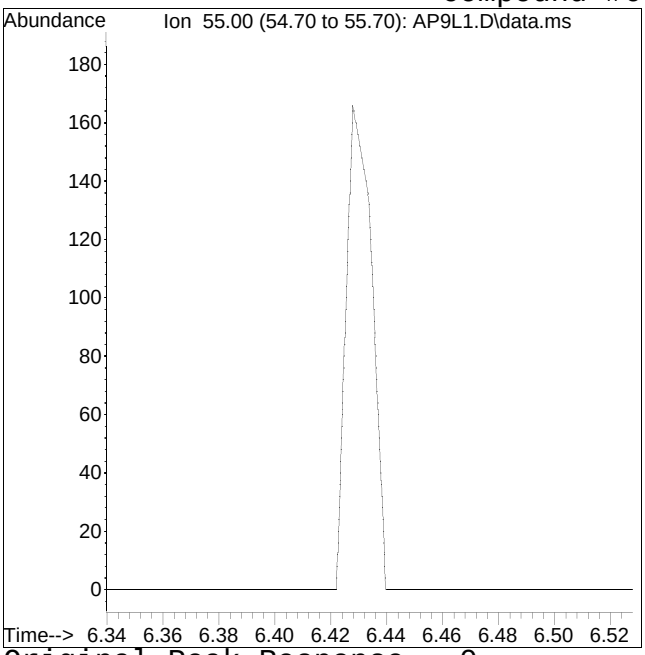
Manual Peak Response = 209 M2

M2 = Peak not found by automatic integration algorithm.

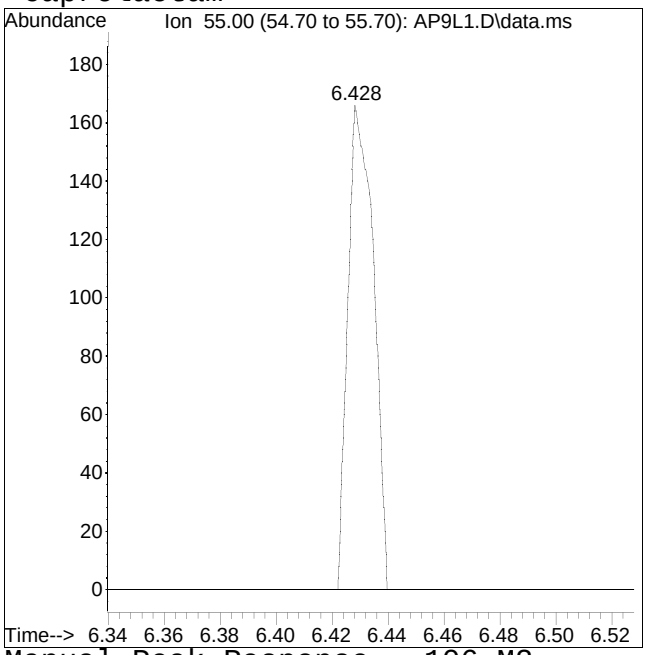
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #60: Caprolactam



Original Peak Response = 0



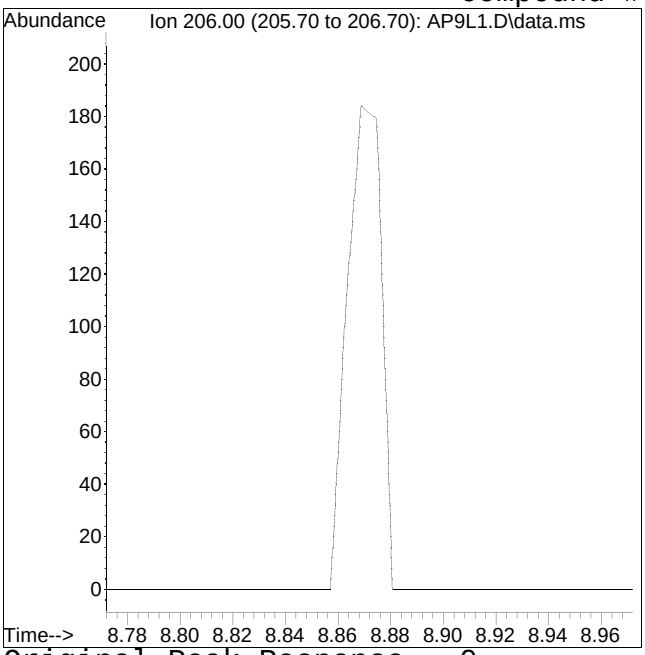
Manual Peak Response = 106 M2

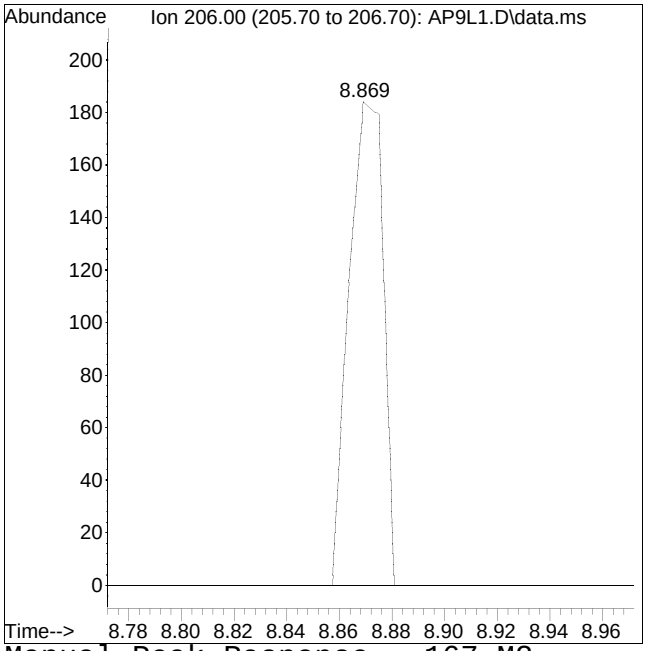
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #84: Dichloran



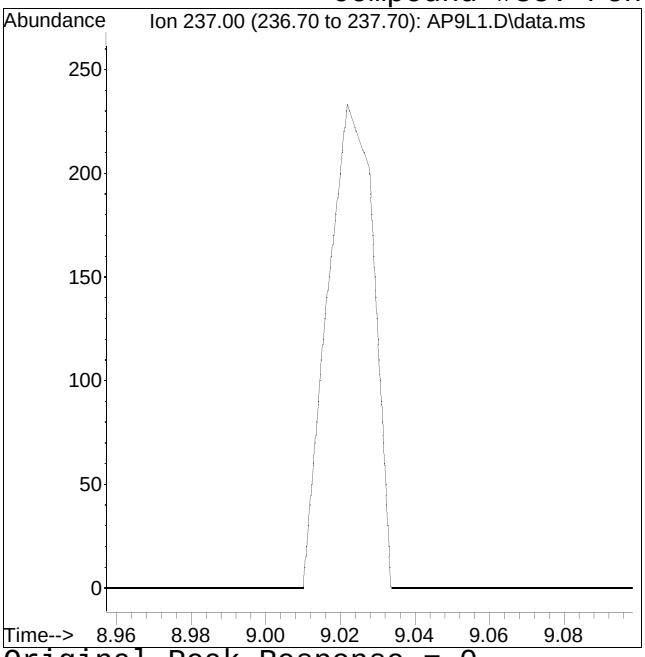


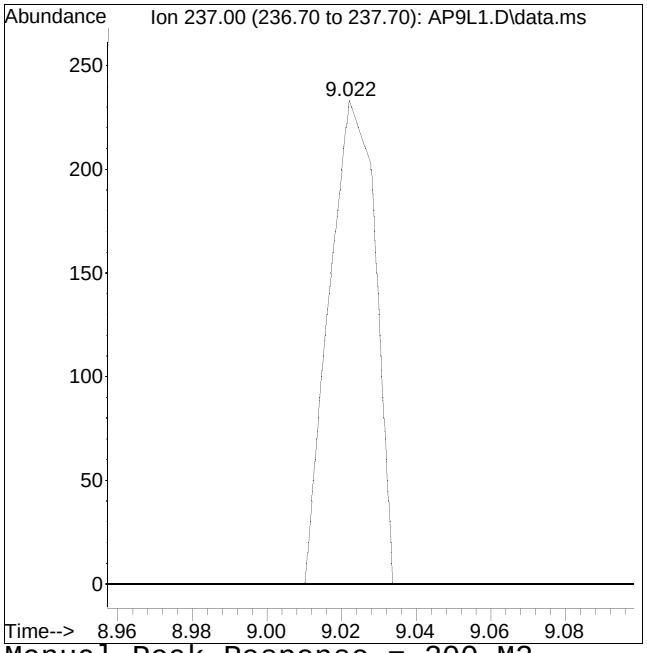
Original Peak Response = 0 Manual Peak Response = 167 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : AP9L1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 2:52 am Instrument : SV112
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 7/1/2024 6:23 am

Compound #85: Pentachloronitrobenzene





Original Peak Response = 0 Manual Peak Response = 200 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	97	0.00
2	T	n-Nitrosodimethylamine		0.657	0.661	-0.6	90	-0.01
3	T	Pyridine		1.043	1.077	-3.3	88	-0.01
4	S	2-Fluorophenol		1.050	1.026	2.3	93	0.00
5	T	Aniline		1.811	1.708	5.7	94	0.00
6	T	2-Chlorophenol		1.251	1.194	4.6	94	0.00
7	S	Phenol-d6		1.357	1.302	4.1	92	0.00
8	T	Phenol		1.577	1.534	2.7	95	0.00
9	T	Bis(2-chloroethyl)ether		1.167	1.142	2.1	99	0.00
10	T	1,3-Dichlorobenzene		1.508	1.482	1.7	97	0.00
11	T	1,4-Dichlorobenzene		1.575	1.487	5.6	97	0.00
12	T	1,2-Dichlorobenzene		1.475	1.465	0.7	99	0.00
13	T	Benzyl alcohol		0.945	0.944	0.1	96	0.00
14	T	Bis(2-chloroisopropyl)ether		1.475	1.397	5.3	95	0.00
15	T	2-Methylphenol		1.056	1.030	2.5	95	0.00
16	T	Hexachloroethane		0.558	0.569	-2.0	102	0.00
17	T	n-Nitrosodi-n-propylamine		0.865	0.810	6.4	93	0.00
18	T	3-Methylphenol/4-Methylphen		1.150	1.135	1.3	94	0.00
19	S	Nitrobenzene-d5		1.294	1.185	8.4	89	0.00
20	T	Nitrobenzene		1.289	1.210	6.1	91	0.00
21	T	Isophorone		2.328	2.330	-0.1	100	0.00
22	T	2-Nitrophenol		0.574	0.531	7.5	90	0.00
23	T	2,4-Dimethylphenol		1.101	1.041	5.4	100	0.00
24	T	Bis(2-chloroethoxy)methane		1.567	1.545	1.4	102	0.00
25	T	2,4-Dichlorophenol		1.153	1.150	0.3	99	0.00
26	T	1,2,4-Trichlorobenzene		1.460	1.370	6.2	100	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	98	0.00
36	T	Naphthalene		1.049	0.990	5.6	98	0.00
37	T	Benzoic Acid	*	5.000	4.283	14.3	88	0.00
38	T	4-Chloroaniline		0.118	0.117	0.8	98	0.00
39	T	Hexachlorobutadiene		0.246	0.232	5.7	101	0.00
40	T	p-Chloro-m-cresol		0.277	0.271	2.2	99	0.00
41	T	2-Methylnaphthalene		0.713	0.696	2.4	105	0.00
42	T	1-Methylnaphthalene		0.245	0.238	2.9	107	0.00
43	T	Hexachlorocyclopentadiene		0.251	0.241	4.0	105	0.00
44	T	2,4,6-Trichlorophenol		0.256	0.251	2.0	99	0.00
45	T	2,4,5-Trichlorophenol		0.262	0.259	1.1	99	0.00
46	S	2-Fluorobiphenyl		0.904	0.878	2.9	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.759	0.715	5.8	101	0.00
48	T	2-Nitroaniline		0.200	0.192	4.0	99	0.00
49	T	1,4-Dinitrobenzene		0.098	0.097	1.0	101	0.00
50	T	1,3-Dinitrobenzene		0.114	0.111	2.6	99	0.00
51	T	Dimethyl phthalate		0.923	0.914	1.0	109	0.00
52	T	Acenaphthylene		1.120	1.152	-2.9	107	0.00
53	T	2,6-Dinitrotoluene		0.173	0.173	0.0	104	0.00
54	T	1,2-Dinitrobenzene		0.076	0.074	2.6	103	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
64	T	3-Nitroaniline		0.299	0.294	1.7	102	0.00
65	T	Acenaphthene		1.115	1.047	6.1	108	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.100	18.0	95	0.00
67	T	Dibenzofuran		1.837	1.720	6.4	107	0.00
68	T	2,4-Dinitrotoluene		0.383	0.366	4.4	101	0.00
69	T	4-Nitrophenol		0.290	0.243	16.2	91	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.377	0.381	-1.1	106	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.370	0.392	-5.9	115	0.00
72	T	Diethyl phthalate		1.487	1.433	3.6	115	0.00
73	T	Fluorene		1.431	1.369	4.3	109	0.00
74	T	4-Chlorophenyl phenyl ether		0.780	0.710	9.0	110	0.00
75	T	4-Nitroaniline		0.314	0.320	-1.9	103	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.083	18.3	104	0.00
77	T	NDPA/DPA		1.231	1.176	4.5	110	0.00
78	T	Azobenzene		1.305	1.272	2.5	108	0.00
79	S	2,4,6-Tribromophenol		0.257	0.240	6.6	109	0.00
80	T	4-Bromophenyl phenyl ether		0.500	0.476	4.8	116	0.00
81	T	Hexachlorobenzene		0.628	0.576	8.3	117	0.00
82	T	Pentachlorophenol		0.322	0.304	5.6	108	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	113	0.00
89	T	Phenanthrene		1.058	1.001	5.4	111	0.00
90	T	Anthracene		1.035	1.011	2.3	114	0.00
91	T	Carbazole		0.948	0.936	1.3	111	0.00
92	T	Di-n-butylphthalate		1.034	1.067	-3.2	122	0.00
93	T	Fluoranthene		1.228	1.220	0.7	117	0.00
94	T	Benzidine		0.675	0.684	-1.3	110	0.00
95	T	Pyrene		1.301	1.332	-2.4	116	0.00
96	S	4-Terphenyl-d14		1.029	1.027	0.2	121	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.458	0.448	2.2	120	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	115	0.00
105	T	Benzo(a)anthracene	1.284	1.249	2.7	115	0.00
106	T	3,3'-Dichlorobenzidine	0.468	0.466	0.4	115	0.00
107	T	Chrysene	1.259	1.203	4.4	115	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.639	0.672	-5.2	127	0.00
109	T	Di-n-octylphthalate	0.979	1.043	-6.5	121	0.00
110	T	Benzo(b)fluoranthene	1.317	1.290	2.1	114	0.00
111	T	Benzo(k)fluoranthene	1.202	1.189	1.1	107	0.00
112	T	Benzo(a)pyrene	1.149	1.154	-0.4	113	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	109	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.118	1.029	8.0	98	0.00
115	T	Dibenzo(a,h)anthracene	1.068	1.071	-0.3	108	0.00
116	T	Benzo(ghi)perylene	1.078	0.996	7.6	103	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.805	152	20598	4.000 ug/ml	0.00
Standard Area 1 = 21265			Recovery = 96.86%		
35) IS1_Naphthalene-d8	6.040	136	80389	4.000 ug/ml	0.00
Standard Area 1 = 81706			Recovery = 98.39%		
63) IS1_Acenaphthene-d10	7.746	164	52787	4.000 ug/ml	0.00
Standard Area 1 = 49189			Recovery = 107.31%		
88) IS1_Phenanthrene-d10	9.175	188	116871	4.000 ug/ml	# 0.00
Standard Area 1 = 103858			Recovery = 112.53%		
104) IS1_Chrysene-d12	11.822	240	127855	4.000 ug/ml	# 0.00
Standard Area 1 = 111228			Recovery = 114.95%		
113) IS1_Perylene-d12	13.298	264	143710	4.000 ug/ml	0.00
Standard Area 1 = 131396			Recovery = 109.37%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	26417	4.884 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 244.20%#		
7) Phenol-d6	4.475	99	33525	4.799 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 239.95%#		
19) Nitrobenzene-d5	5.340	82	30499	4.577 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 457.70%#		
46) 2-Fluorobiphenyl	7.105	172	88237	4.854 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 485.40%#		
79) 2,4,6-Tribromophenol	8.510	330	15837	4.674 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 233.70%#		
96) 4-Terphenyl-d14	10.757	244	150090	4.993 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 499.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	17024	5.031 ug/ml	96
3) Pyridine	2.199	79	27737	5.166 ug/ml	84
5) Aniline	4.481	93	43964	4.715 ug/ml#	50
6) 2-Chlorophenol	4.599	128	30731	4.772 ug/ml	93
8) Phenol	4.487	94	39494	4.864 ug/ml#	48
9) Bis(2-chloroethyl)ether	4.564	93	29416	4.894 ug/ml	95
10) 1,3-Dichlorobenzene	4.746	146	38166	4.914 ug/ml	96
11) 1,4-Dichlorobenzene	4.822	146	38281	4.721 ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	37717	4.965 ug/ml	96
13) Benzyl alcohol	4.952	79	24307	4.997 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.093	45	35963	4.736 ug/ml#	55

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.075	108	26511	4.873	ug/ml	97
16) Hexachloroethane	5.299	117	14641	5.098	ug/ml#	69
17) n-Nitrosodi-n-propylamine	5.216	70	20852	4.680	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.234	108	29223	4.933	ug/ml	97
20) Nitrobenzene	5.358	77	31148	4.691	ug/ml	99
21) Isophorone	5.599	82	59999	5.005	ug/ml	99
22) 2-Nitrophenol	5.675	139	13664	4.620	ug/ml	97
23) 2,4-Dimethylphenol	5.746	107	26791	4.724	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.834	93	39785	4.930	ug/ml	99
25) 2,4-Dichlorophenol	5.916	162	29599	4.986	ug/ml#	94
26) 1,2,4-Trichlorobenzene	5.993	180	35281	4.693	ug/ml	96
36) Naphthalene	6.058	128	99432	4.718	ug/ml	99
37) Benzoic Acid	5.816	105	14641	4.283	ug/ml	95
38) 4-Chloroaniline	6.122	65	11724	4.950	ug/ml	91
39) Hexachlorobutadiene	6.210	225	23300	4.717	ug/ml	97
40) p-Chloro-m-cresol	6.616	107	27216	4.891	ug/ml	93
41) 2-Methylnaphthalene	6.740	142	69923	4.879	ug/ml	98
42) 1-Methylnaphthalene	6.828	115	23877	4.844	ug/ml	98
43) Hexachlorocyclopentadiene	6.910	237	24201	4.800	ug/ml	98
44) 2,4,6-Trichlorophenol	7.022	196	25194	4.888	ug/ml	99
45) 2,4,5-Trichlorophenol	7.052	196	25978	4.926	ug/ml	99
47) 2-Chloronaphthalene	7.205	162	71799	4.710	ug/ml	94
48) 2-Nitroaniline	7.310	138	19285	4.788	ug/ml	89
49) 1,4-Dinitrobenzene	7.440	168	9774	4.947	ug/ml	83
50) 1,3-Dinitrobenzene	7.516	168	11190	4.884	ug/ml	89
51) Dimethyl phthalate	7.510	163	91883	4.955	ug/ml	100
52) Acenaphthylene	7.605	152	115716	5.142	ug/ml	98
53) 2,6-Dinitrotoluene	7.557	165	17365	5.007	ug/ml	92
54) 1,2-Dinitrobenzene	7.599	168	7435	4.870	ug/ml#	1
64) 3-Nitroaniline	7.710	138	19395	4.919	ug/ml	93
65) Acenaphthene	7.775	154	69117	4.699	ug/ml	97
66) 2,4-Dinitrophenol	7.810	184	8557	4.100	ug/ml#	83
67) Dibenzofuran	7.946	168	113504	4.682	ug/ml	93
68) 2,4-Dinitrotoluene	7.940	165	24166	4.777	ug/ml	93
69) 4-Nitrophenol	7.310	65	16049	4.201	ug/ml#	10
70) 2,3,5,6-Tetrachlorophenol	8.034	232	25150	5.061	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.075	232	25875	5.300	ug/ml	98
72) Diethyl phthalate	8.199	149	94549	4.820	ug/ml	96
73) Fluorene	8.275	166	90363	4.786	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.293	204	46843	4.553	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939943
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.299	138	21133	5.094	ug/ml	95
76)	4,6-Dinitro-o-cresol	8.334	198	13091	4.083	ug/ml#	74
77)	NDPA/DPA	8.404	169	77598	4.778	ug/ml	95
78)	Azobenzene	8.440	77	83945	4.874	ug/ml#	93
80)	4-Bromophenyl phenyl e...	8.763	248	31429	4.768	ug/ml#	82
81)	Hexachlorobenzene	8.816	284	37993	4.587	ug/ml#	84
82)	Pentachlorophenol	9.010	266	20072	4.720	ug/ml	99
89)	Phenanthrene	9.199	178	146237	4.730	ug/ml	99
90)	Anthracene	9.252	178	147689	4.883	ug/ml	99
91)	Carbazole	9.416	167	136779	4.939	ug/ml	98
92)	Di-n-butylphthalate	9.799	149	155812	5.157	ug/ml	100
93)	Fluoranthene	10.357	202	178241M3	4.969	ug/ml	
94)	Benzidine	10.504	184	99975	5.069	ug/ml#	96
95)	Pyrene	10.575	202	194546	5.116	ug/ml	99
97)	Butyl benzyl phthalate	11.281	149	65418	4.894	ug/ml	93
105)	Benzo(a)anthracene	11.816	228	199667	4.863	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.810	252	74502	4.982	ug/ml#	97
107)	Chrysene	11.851	228	192294	4.778	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.916	149	107331	5.257	ug/ml#	98
109)	Di-n-octylphthalate	12.598	149	166682	5.328	ug/ml	97
110)	Benzo(b)fluoranthene	12.922	252	206155	4.896	ug/ml#	95
111)	Benzo(k)fluoranthene	12.951	252	190009M3	4.944	ug/ml	
112)	Benzo(a)pyrene	13.240	252	184465	5.021	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	14.292	276	184779M6	4.599	ug/mL	
115)	Dibenzo(a,h)anthracene	14.316	278	192344	5.012	ug/ml#	91
116)	Benzo(ghi)perylene	14.557	276	178871	4.619	ug/ml#	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ABNICV.D
Acq On : 26 Jun 2024 03:16 am
Operator : SV112:mrg
Sample : CQICV1,32,,ABNICV Lot# 10805
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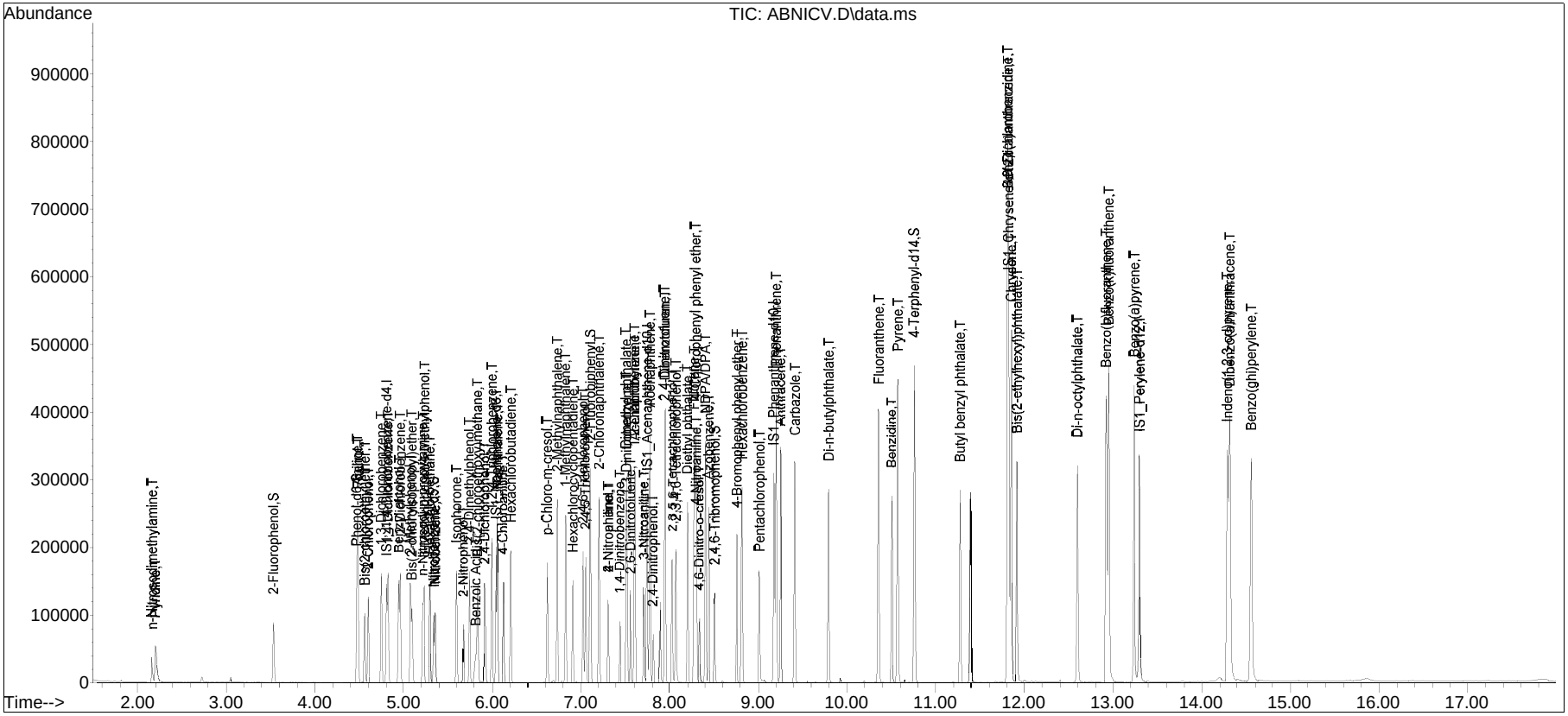
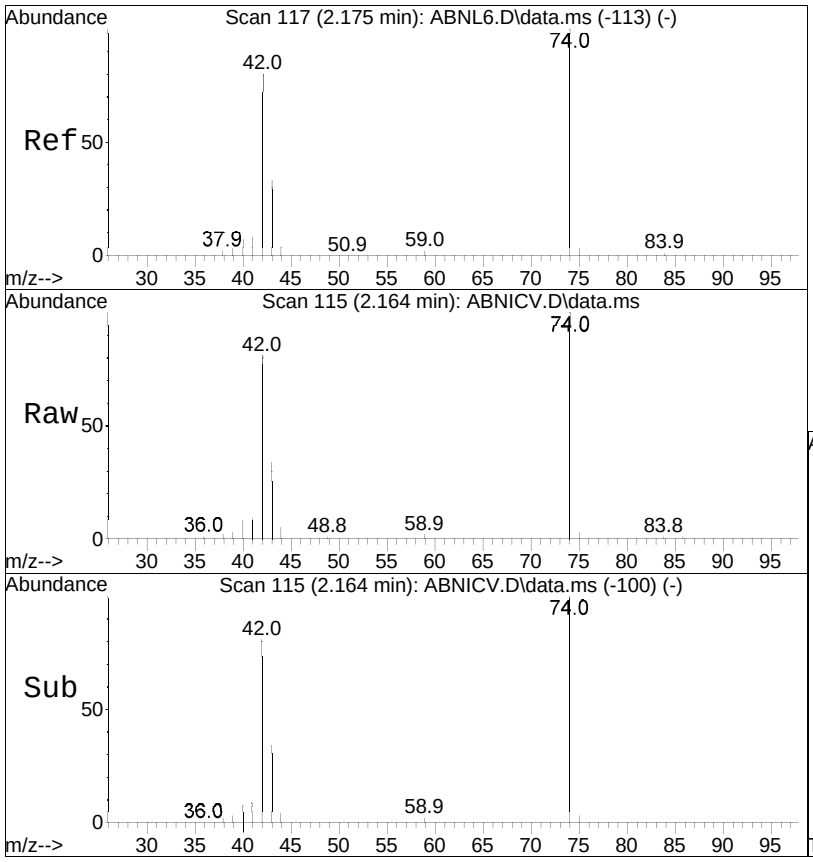
Quant Time: Jun 30 14:26:09 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:26:59 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

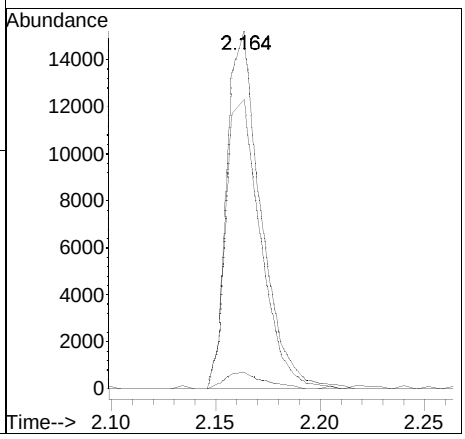


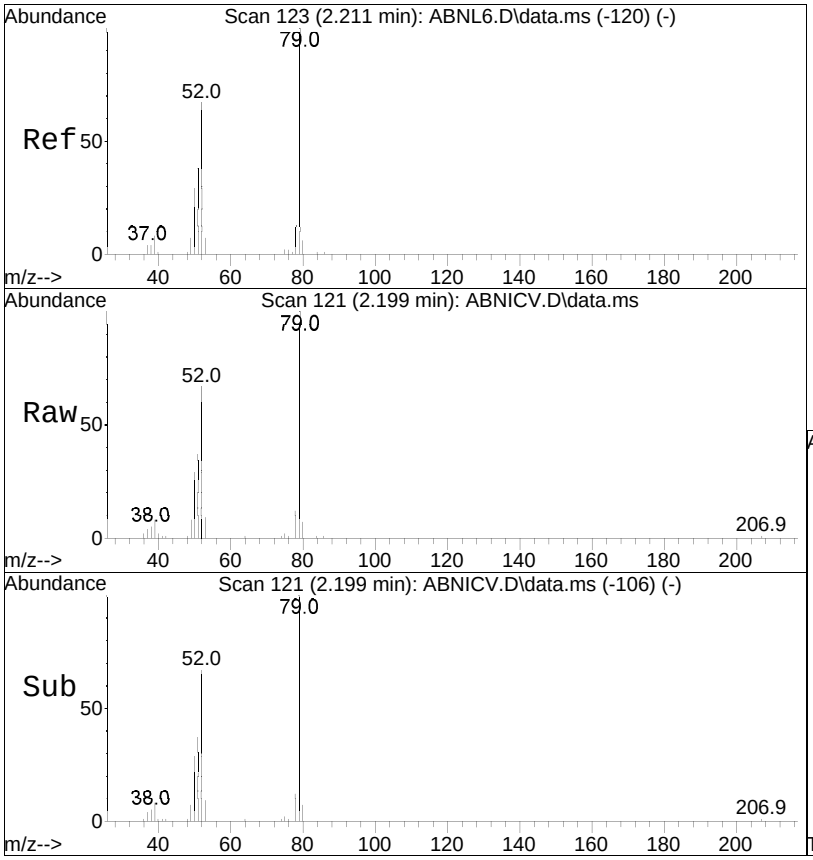


#2
n-Nitrosodimethylamine
Concen: 5.03 ug/ml
RT: 2.164 min Scan# 115
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 74 Resp: 17024

Ion	Ratio	Lower	Upper
74	100		
42	83.3	63.8	95.8
44	5.5	4.3	6.5

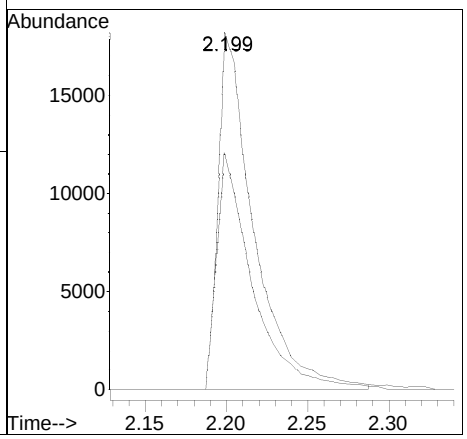


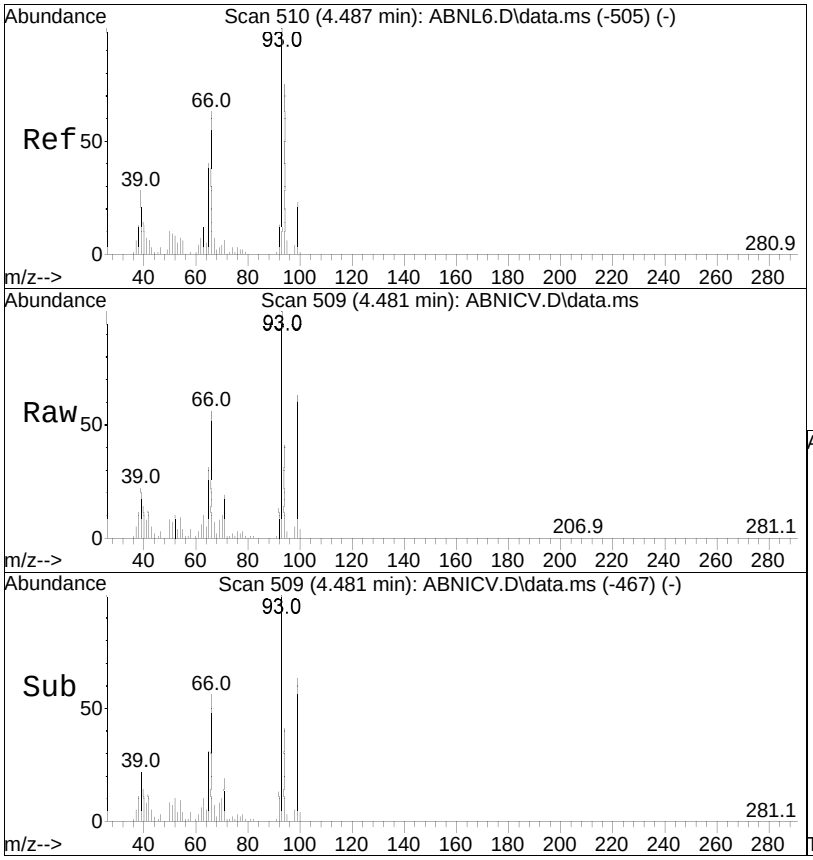


#3
Pyridine
Concen: 5.17 ug/ml
RT: 2.199 min Scan# 121
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 79 Resp: 27737

Ion	Ratio	Lower	Upper
79	100		
52	66.5	64.6	96.8

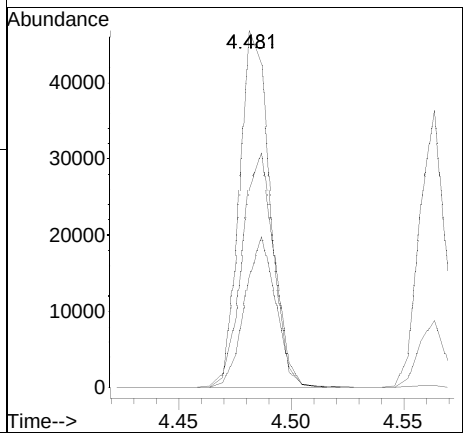


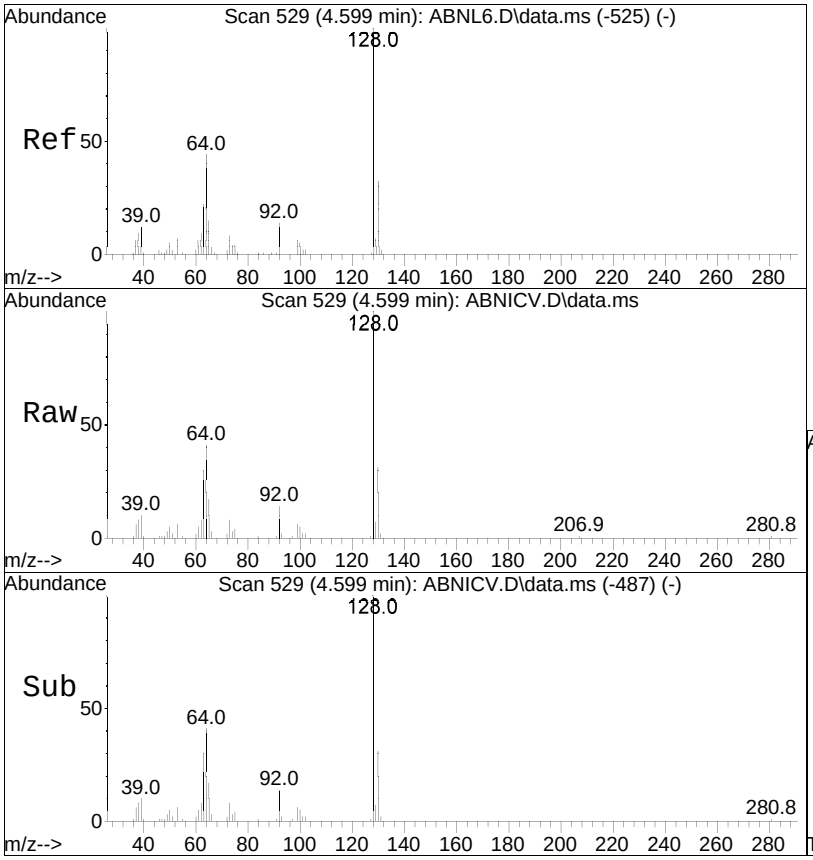


#5
Aniline
Concen: 4.71 ug/ml
RT: 4.481 min Scan# 509
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 43964

Ion	Ratio	Lower	Upper
93	100		
66	70.6	31.3	46.9#
65	43.3	16.6	25.0#

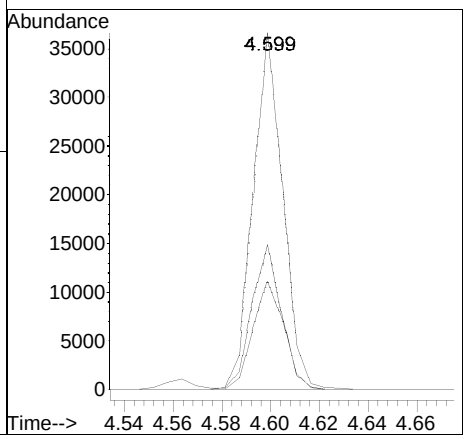


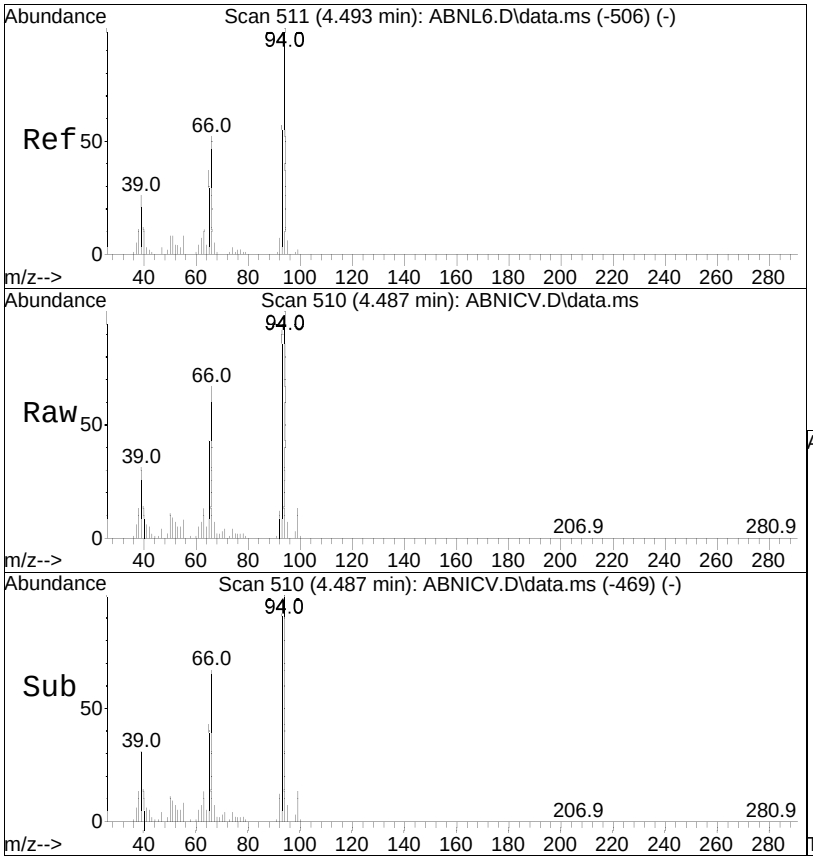


#6
2-Chlorophenol
Concen: 4.77 ug/ml
RT: 4.599 min Scan# 529
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:128 Resp: 30731

Ion	Ratio	Lower	Upper
128	100		
64	40.6	38.2	57.4
130	31.9	26.2	39.2

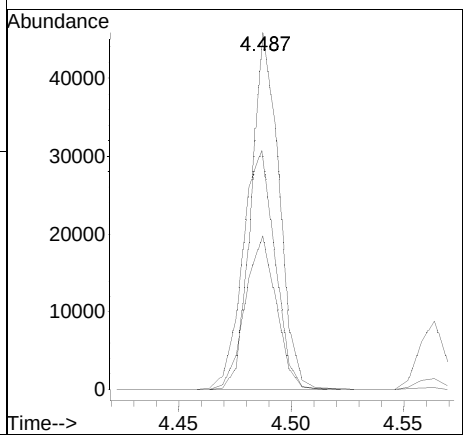


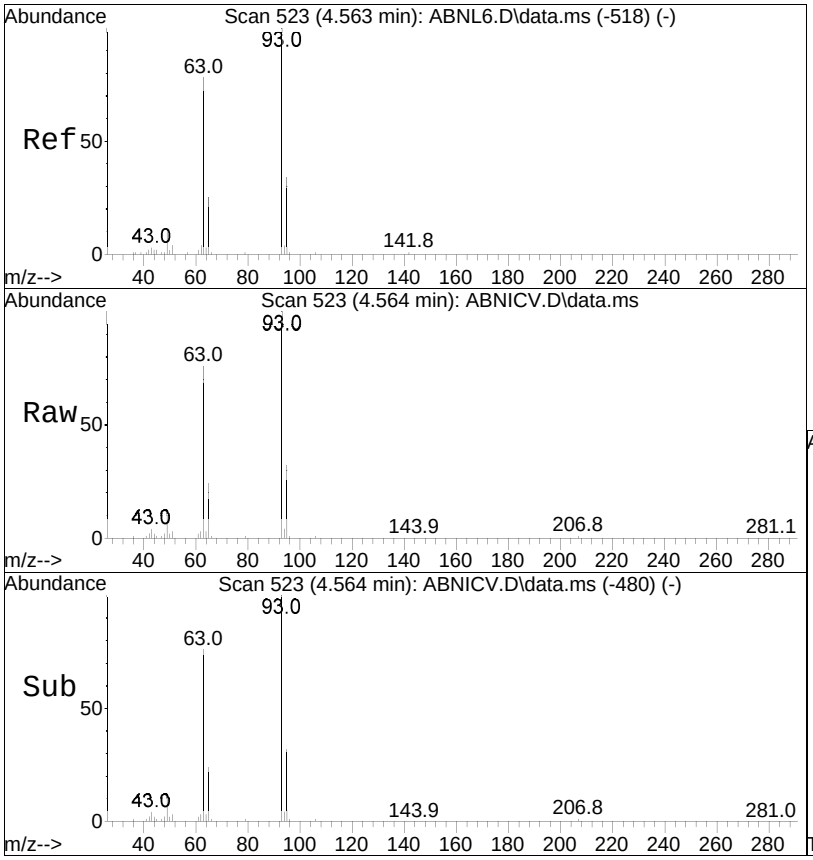


#8
Phenol
Concen: 4.86 ug/ml
RT: 4.487 min Scan# 510
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 94 Resp: 39494

Ion	Ratio	Lower	Upper
94	100		
65	48.2	23.0	34.6#
66	78.6	32.1	48.1#

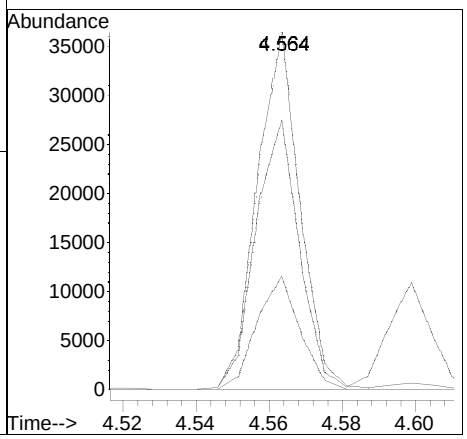


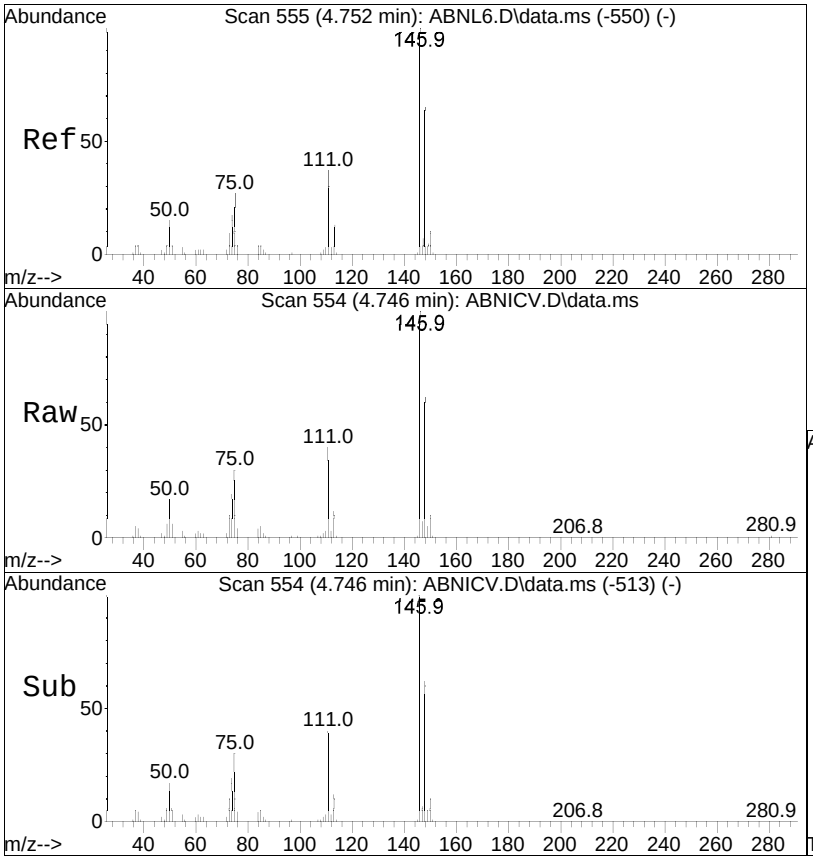


#9
Bis(2-chloroethyl)ether
Concen: 4.89 ug/ml
RT: 4.564 min Scan# 523
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 29416

Ion	Ratio	Lower	Upper
93	100		
63	77.3	67.0	100.4
95	32.2	26.1	39.1

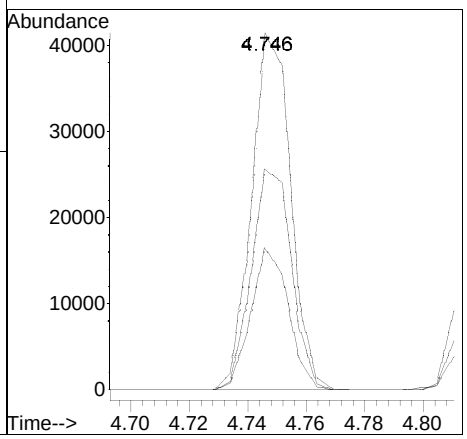


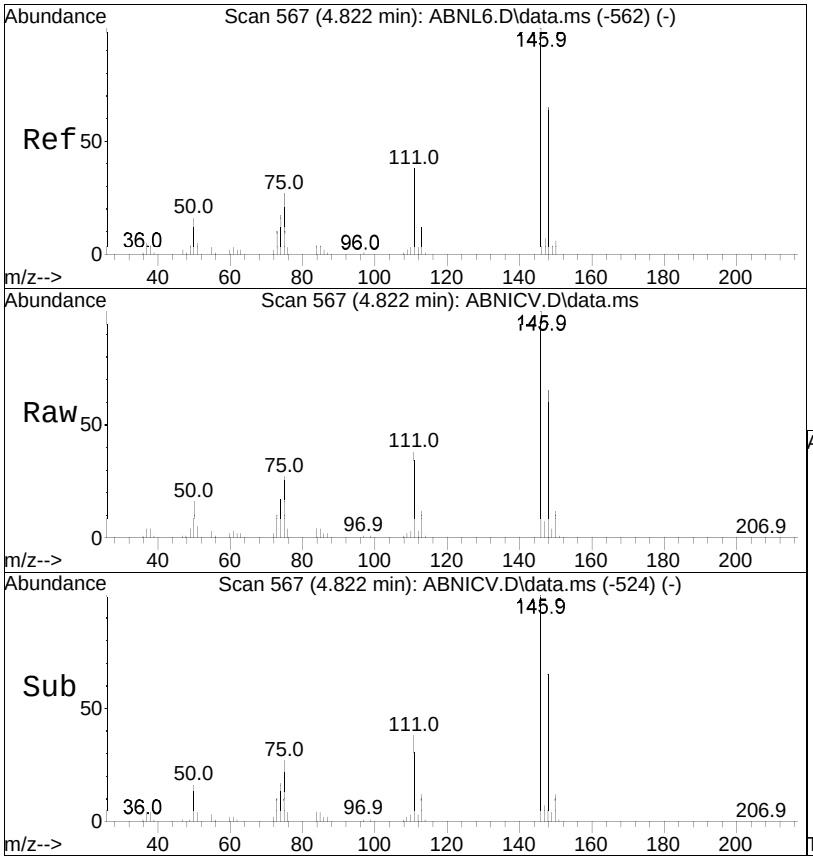


#10
1,3-Dichlorobenzene
Concen: 4.91 ug/ml
RT: 4.746 min Scan# 554
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 38166

Ion	Ratio	Lower	Upper
146	100		
111	38.5	35.0	52.4
148	63.7	51.3	76.9

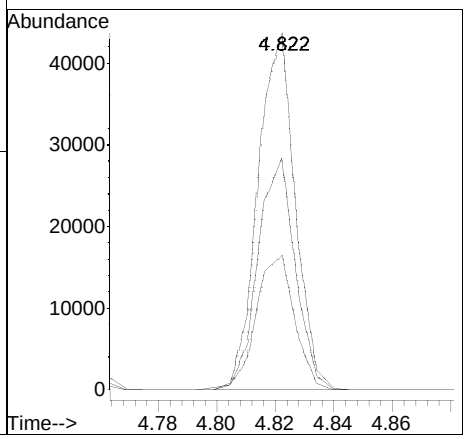


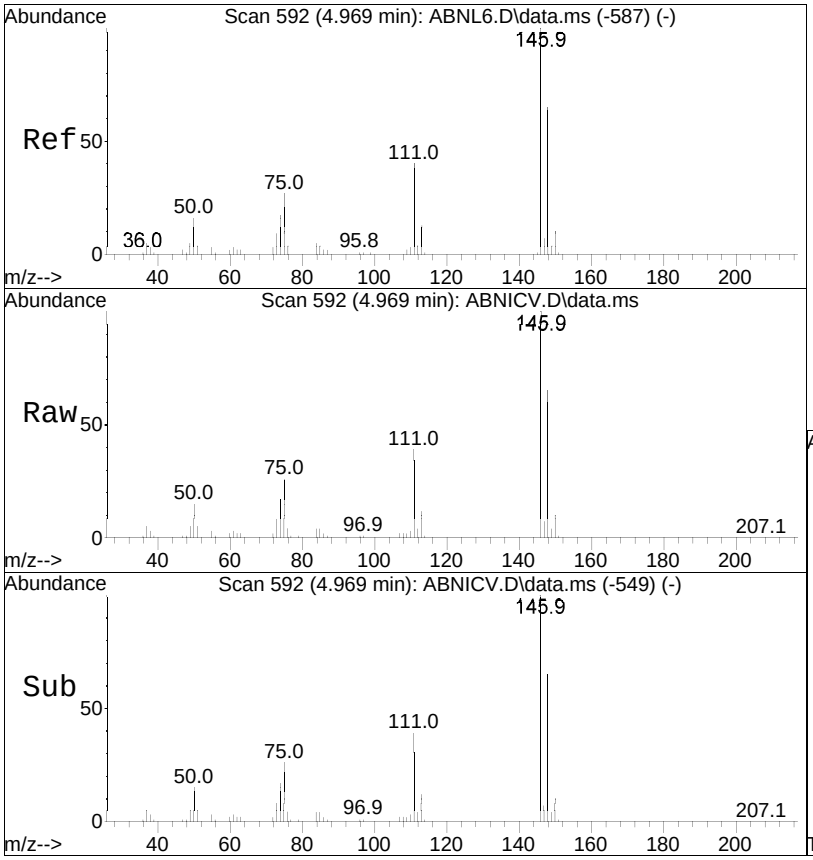


#11
1,4-Dichlorobenzene
Concen: 4.72 ug/ml
RT: 4.822 min Scan# 567
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 38281

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.1	76.7
111	39.3	34.4	51.6

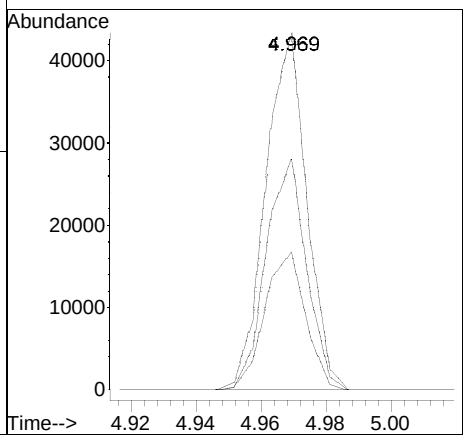


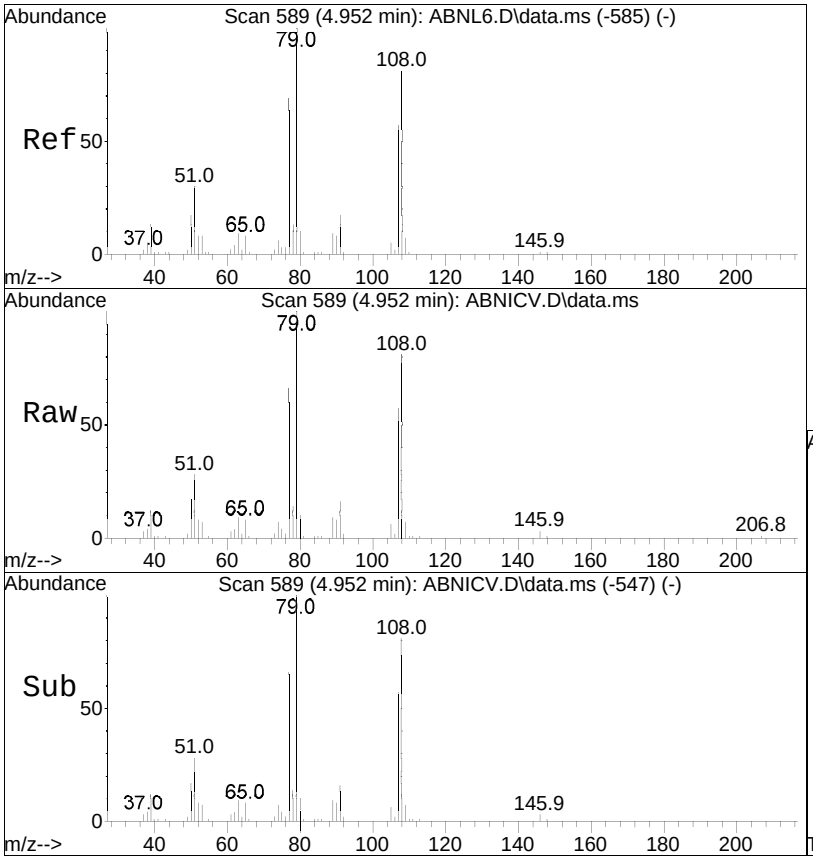


#12
1,2-Dichlorobenzene
Concen: 4.96 ug/ml
RT: 4.969 min Scan# 592
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:146 Resp: 37717

Ion	Ratio	Lower	Upper
146	100		
111	38.6	35.5	53.3
148	63.9	50.6	76.0

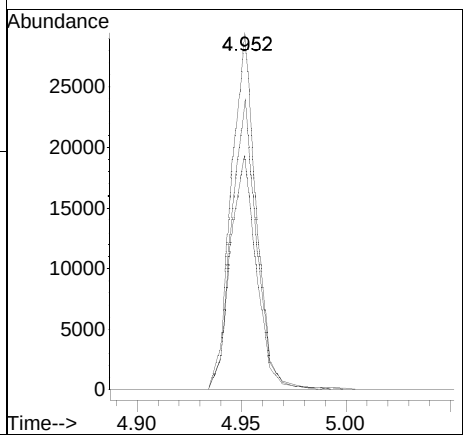


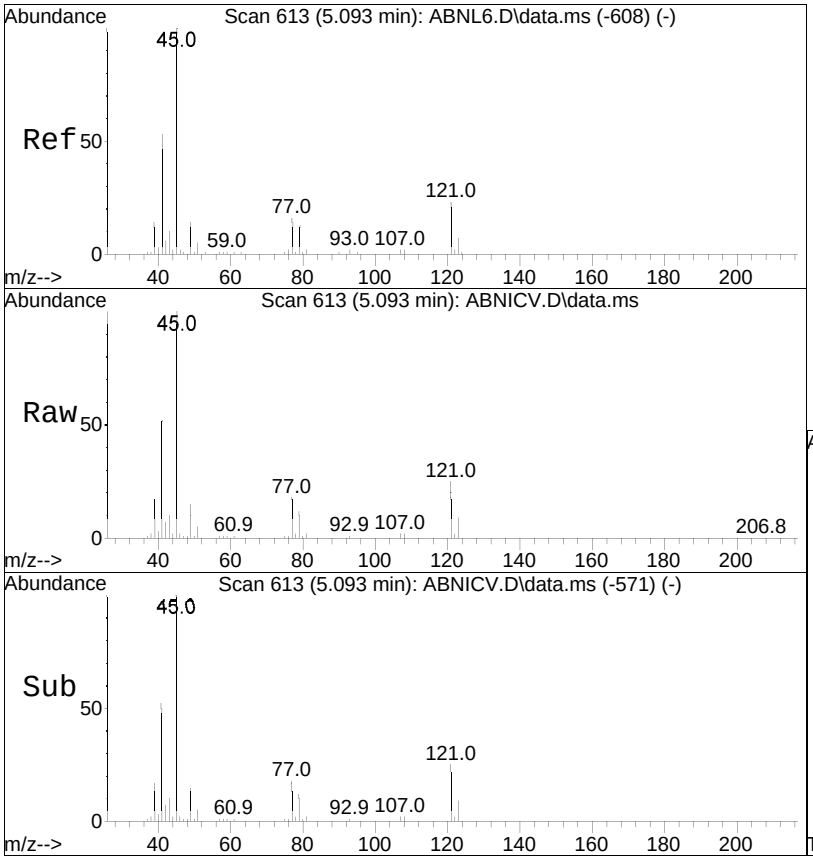


#13
Benzyl alcohol
Concen: 5.00 ug/ml
RT: 4.952 min Scan# 589
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 79 Resp: 24307

Ion	Ratio	Lower	Upper
79	100		
77	68.9	51.8	77.6
108	82.2	63.9	95.9

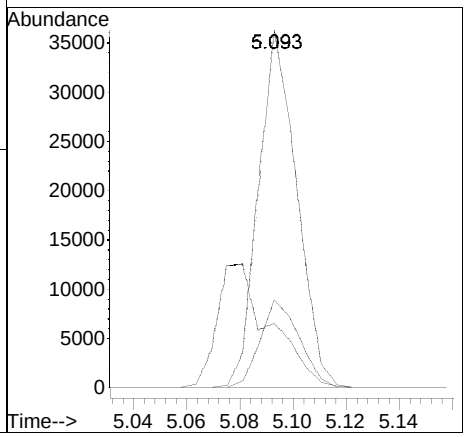


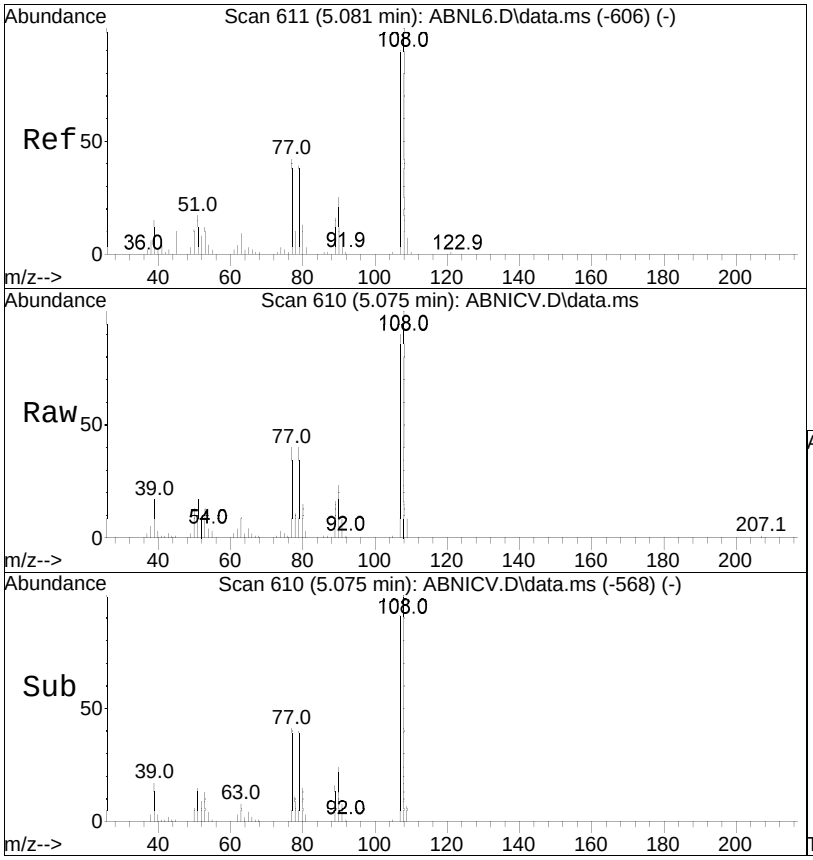


#14
Bis(2-chloroisopropyl)ether
Concen: 4.74 ug/ml
RT: 5.093 min Scan# 613
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 45 Resp: 35963

Ion	Ratio	Lower	Upper
45	100		
121	25.1	14.8	22.2#
77	48.1	10.5	15.7#

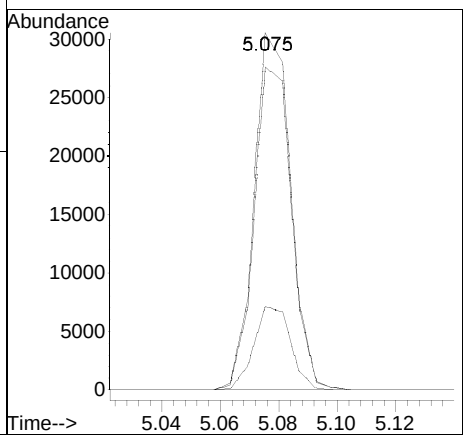


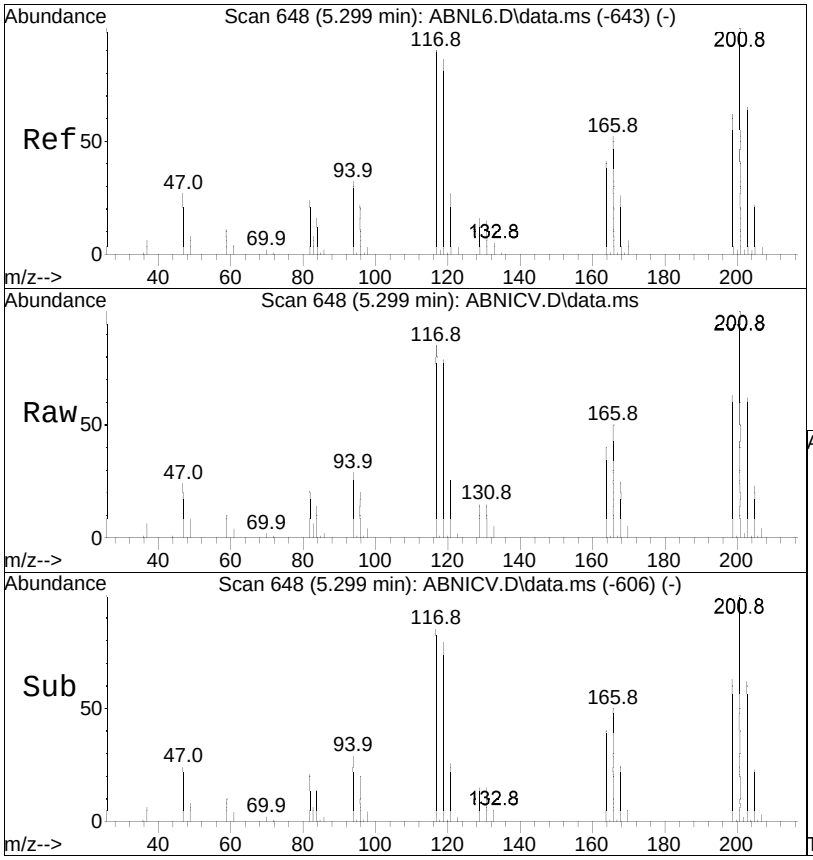


#15
2-Methylphenol
Concen: 4.87 ug/ml
RT: 5.075 min Scan# 610
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:108 Resp: 26511

Ion	Ratio	Lower	Upper
108	100		
107	92.3	71.0	106.4
90	23.5	19.7	29.5

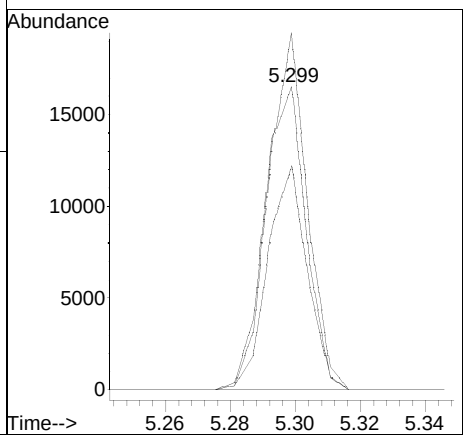


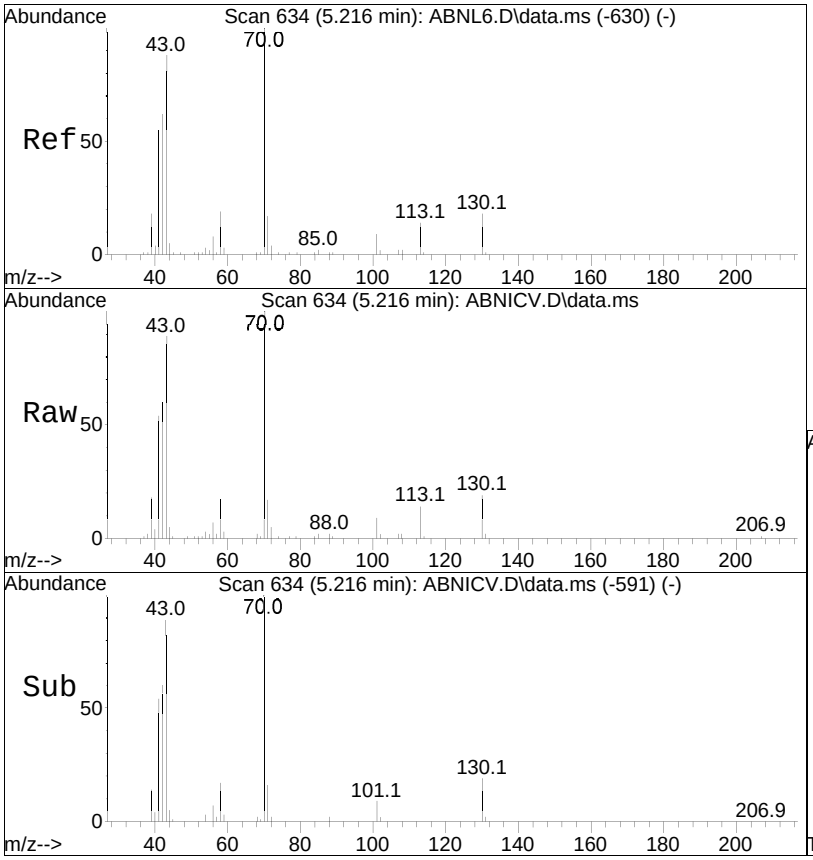


#16
Hexachloroethane
Concen: 5.10 ug/ml
RT: 5.299 min Scan# 648
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:117 Resp: 14641

Ion	Ratio	Lower	Upper
117	100		
201	109.8	64.4	96.6#
199	70.3	40.5	60.7#

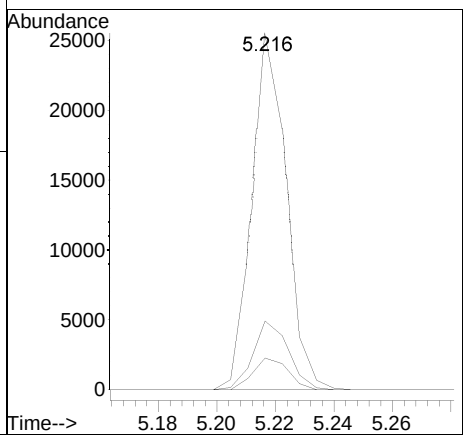


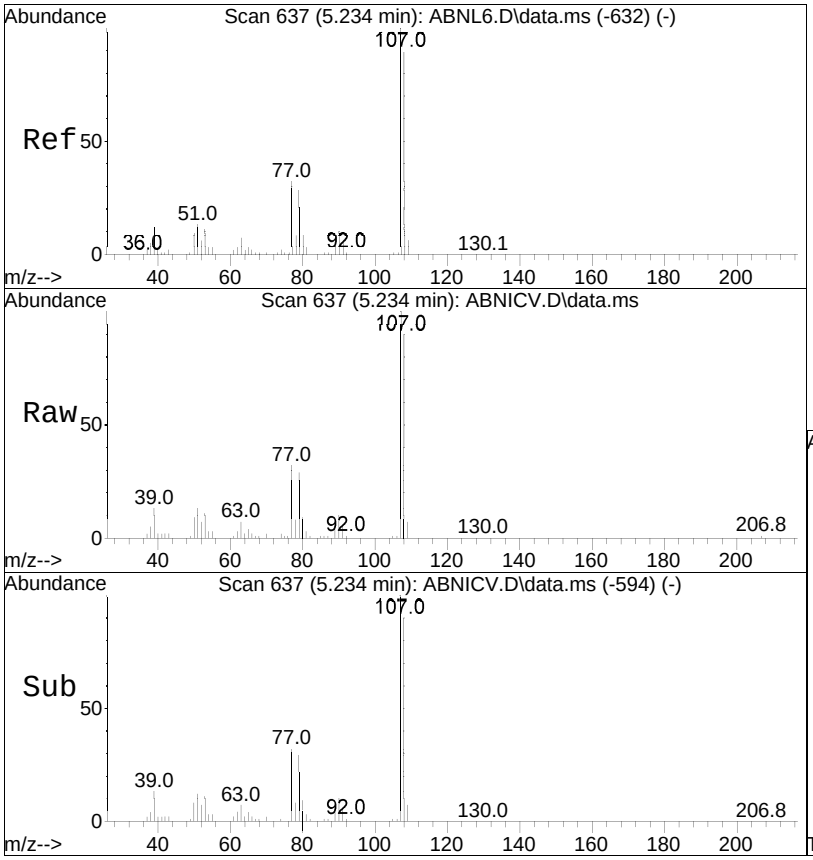


#17
n-Nitrosodi-n-propylamine
Concen: 4.68 ug/ml
RT: 5.216 min Scan# 634
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 70 Resp: 20852

Ion	Ratio	Lower	Upper
70	100		
130	19.7	16.2	24.4
101	9.1	7.6	11.4

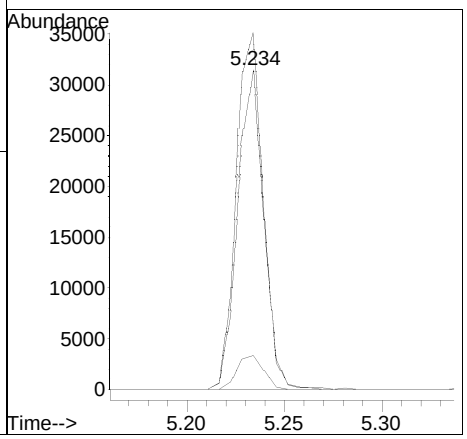


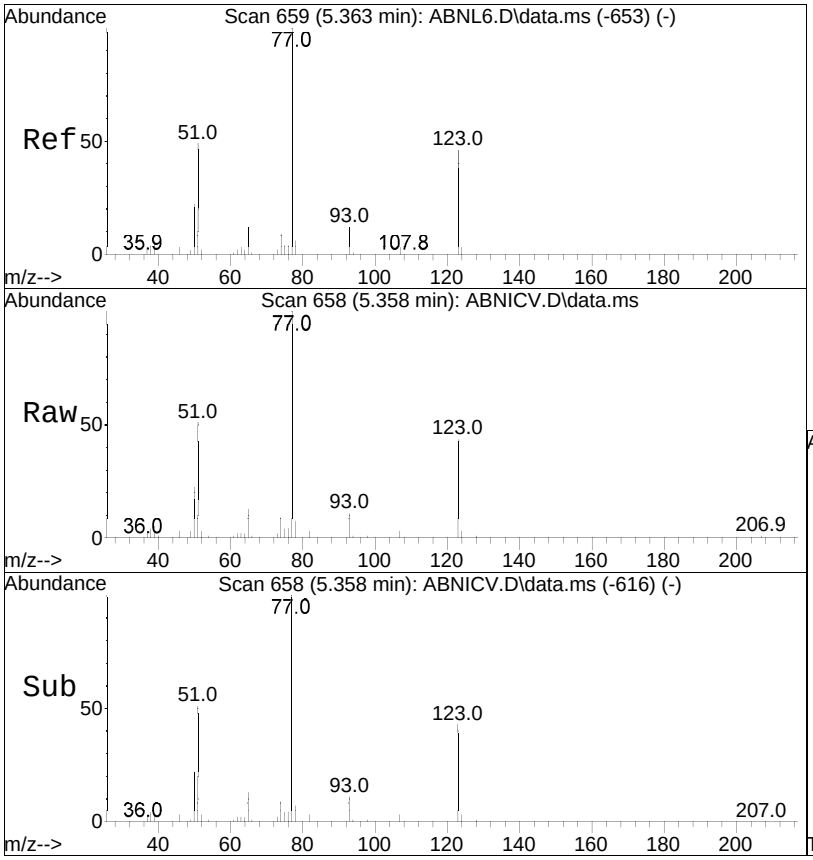


#18
3-Methylphenol/4-Methylphenol
Concen: 4.93 ug/ml
RT: 5.234 min Scan# 637
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:108 Resp: 29223

Ion	Ratio	Lower	Upper
108	100		
107	114.7	88.8	133.2
90	10.8	9.0	13.6

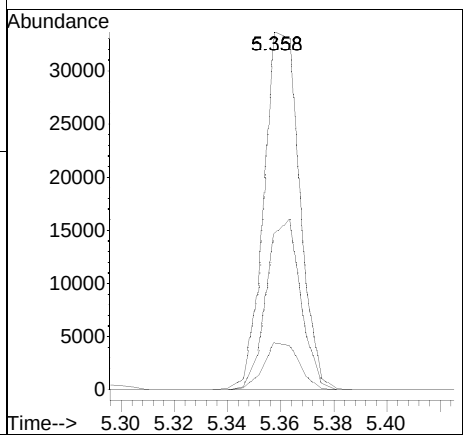


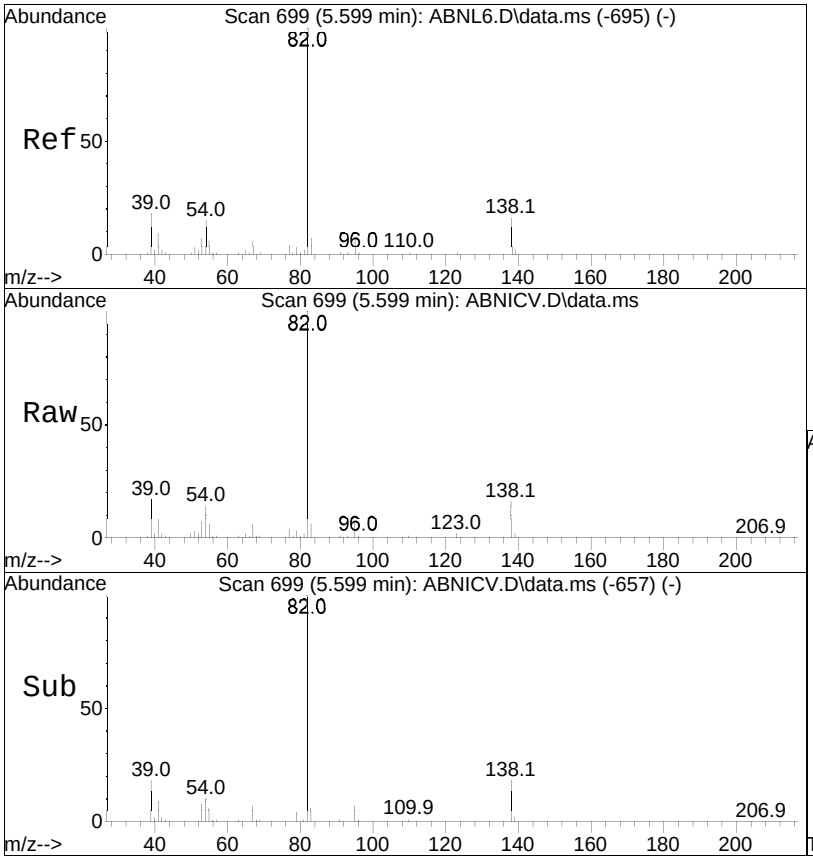


#20
Nitrobenzene
Concen: 4.69 ug/ml
RT: 5.358 min Scan# 658
Delta R.T. -0.005 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 77 Resp: 31148

Ion	Ratio	Lower	Upper
77	100		
123	46.0	37.3	55.9
65	13.3	10.9	16.3

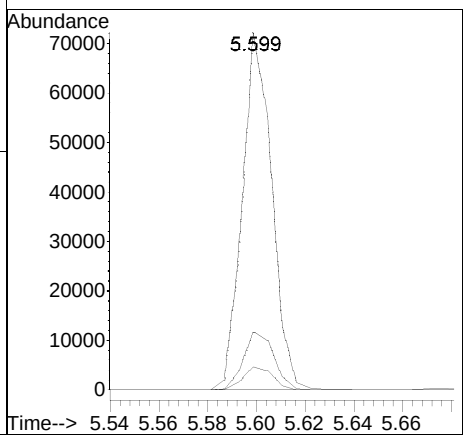


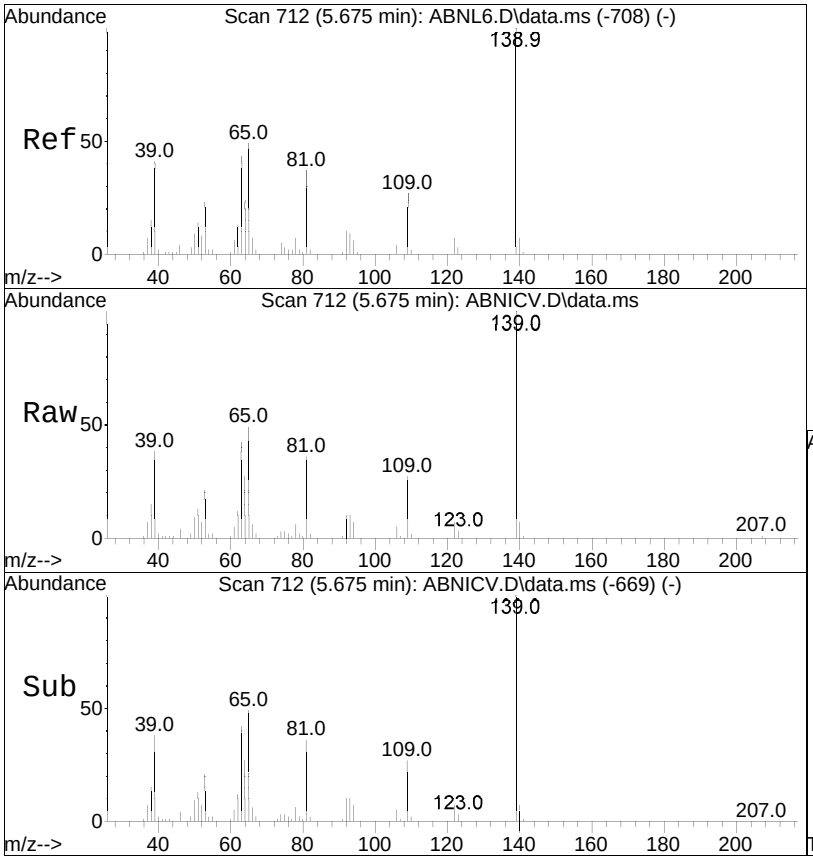


#21
Isophorone
Concen: 5.00 ug/ml
RT: 5.599 min Scan# 699
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 82 Resp: 59999

Ion	Ratio	Lower	Upper
82	100		
138	16.8	13.0	19.4
95	6.6	5.5	8.3

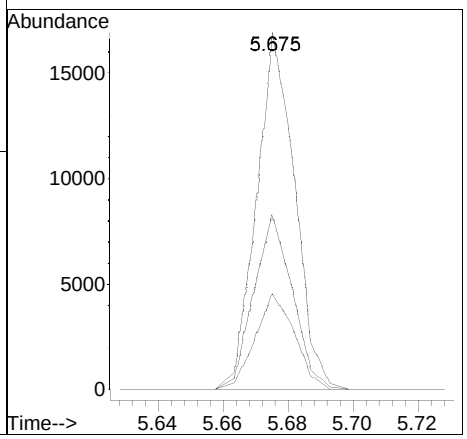


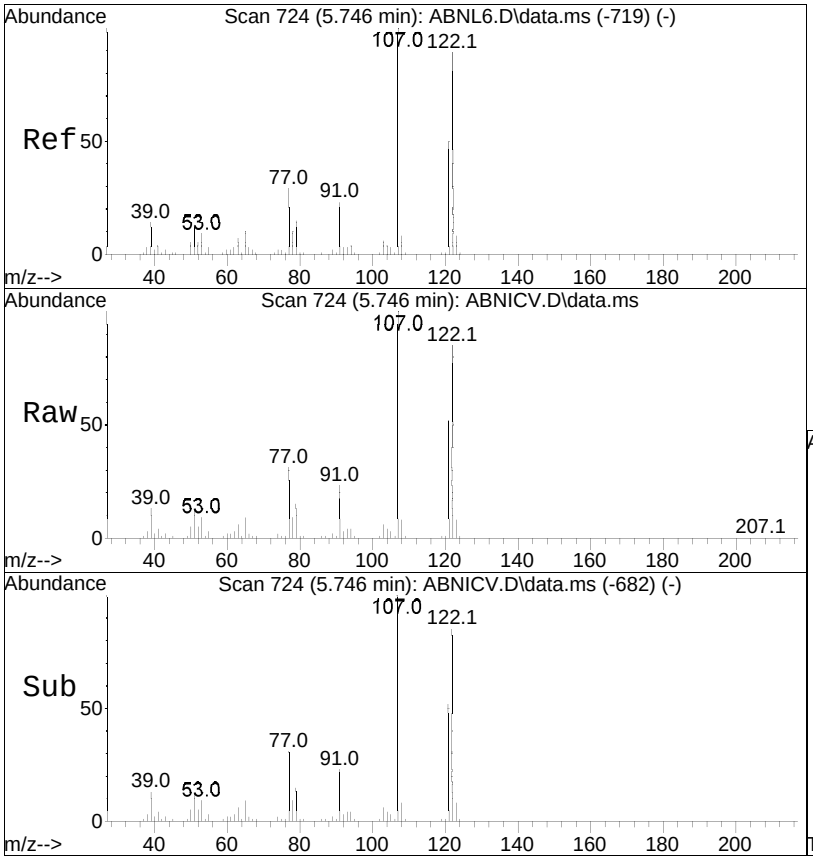


#22
2-Nitrophenol
Concen: 4.62 ug/ml
RT: 5.675 min Scan# 712
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:139 Resp: 13664

Ion	Ratio	Lower	Upper
139	100		
109	27.9	23.1	34.7
65	49.8	41.4	62.2

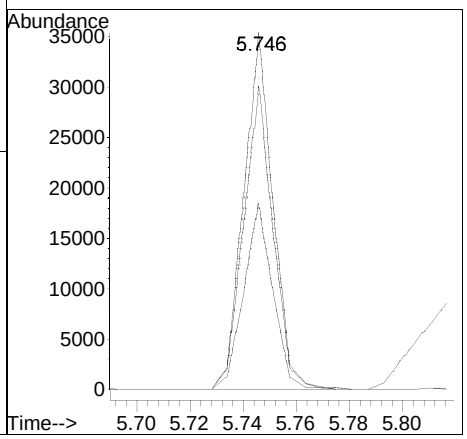


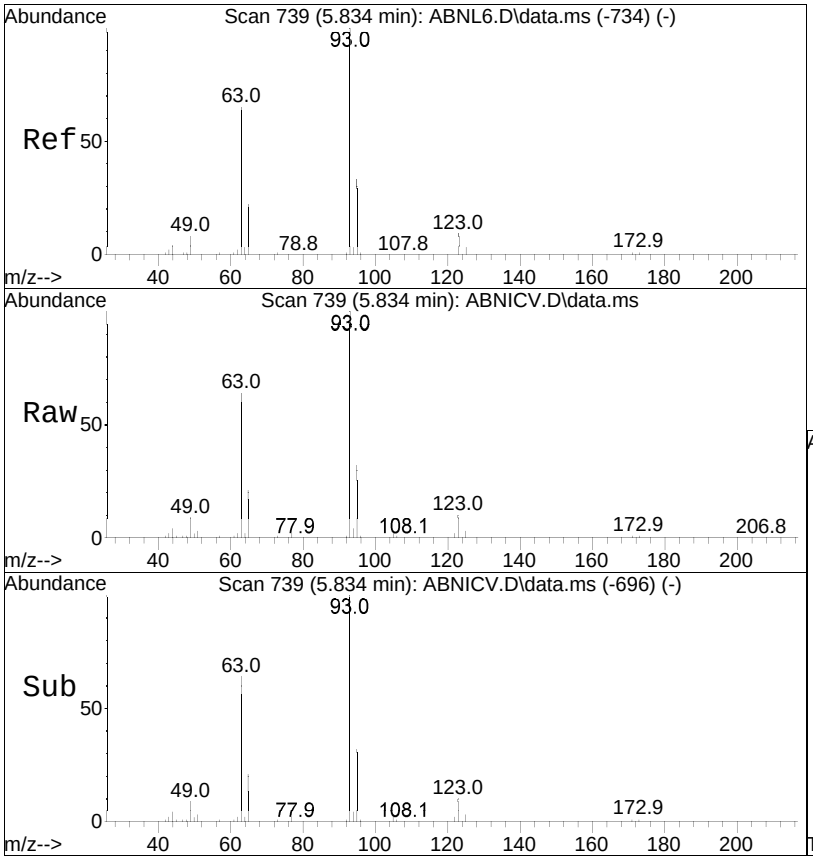


#23
2,4-Dimethylphenol
Concen: 4.72 ug/ml
RT: 5.746 min Scan# 724
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:107 Resp: 26791

Ion	Ratio	Lower	Upper
107	100		
121	52.0	41.3	61.9
122	85.8	69.3	103.9

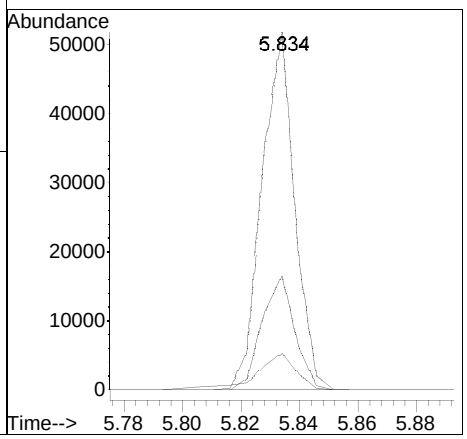


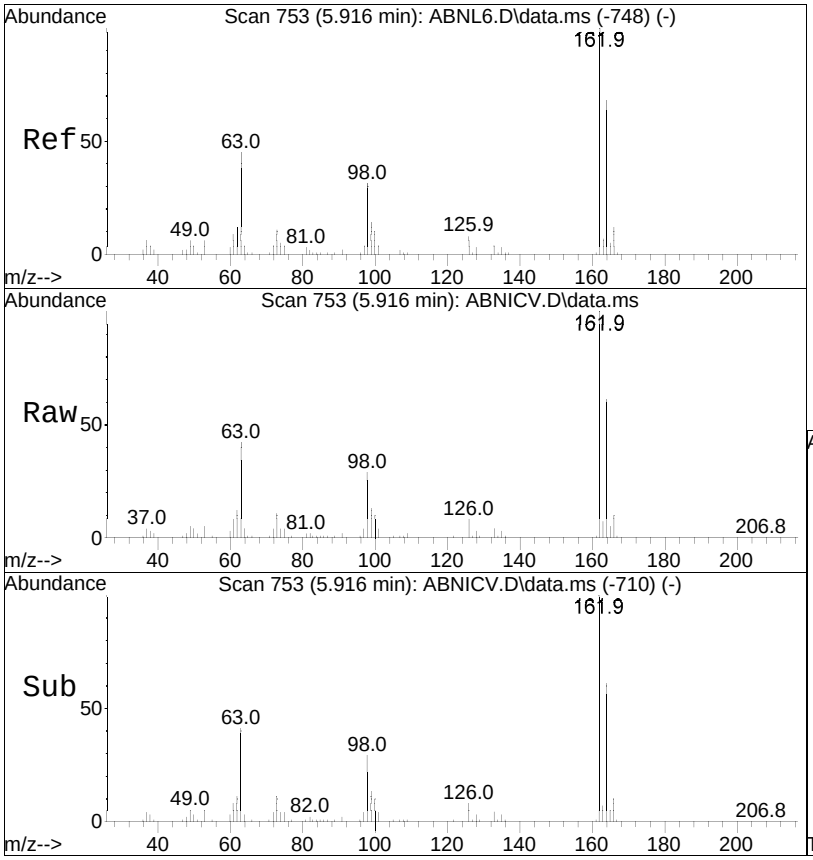


#24
Bis(2-chloroethoxy)methane
Concen: 4.93 ug/ml
RT: 5.834 min Scan# 739
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 93 Resp: 39785

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	12.7	9.6	14.4

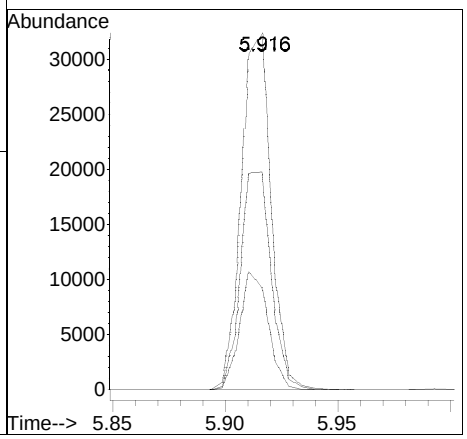


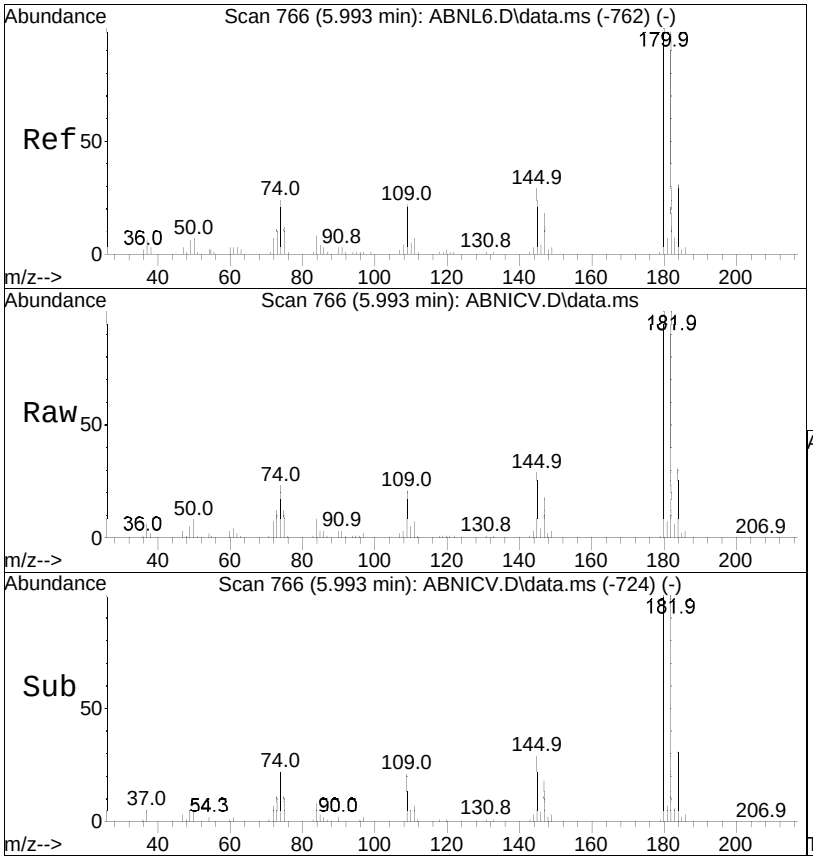


#25
2,4-Dichlorophenol
Concen: 4.99 ug/ml
RT: 5.916 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:162 Resp: 29599

Ion	Ratio	Lower	Upper
162	100		
164	62.8	51.1	76.7
98	31.7	32.2	48.2#

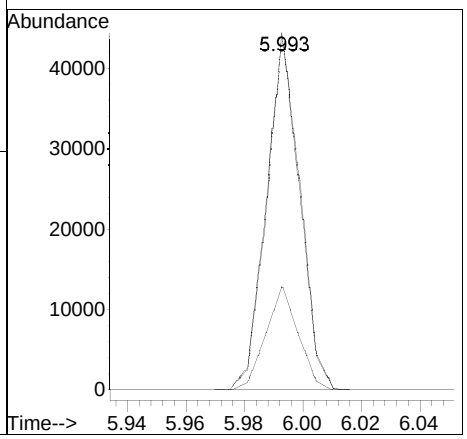


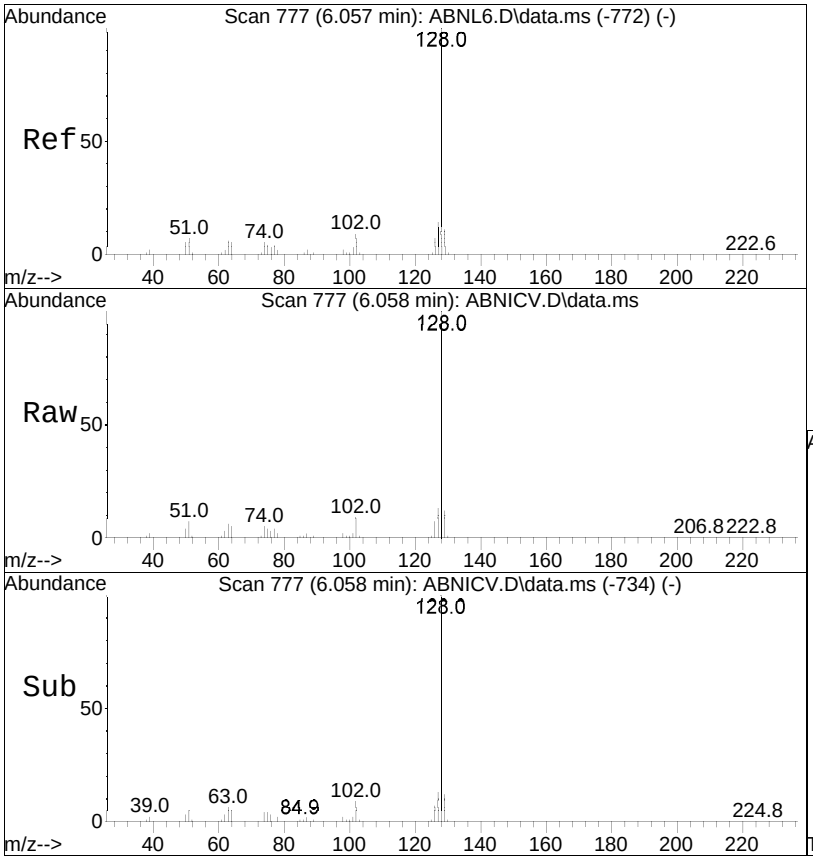


#26
1,2,4-Trichlorobenzene
Concen: 4.69 ug/ml
RT: 5.993 min Scan# 766
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:180 Resp: 35281

Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.8	113.8
145	28.1	26.3	39.5

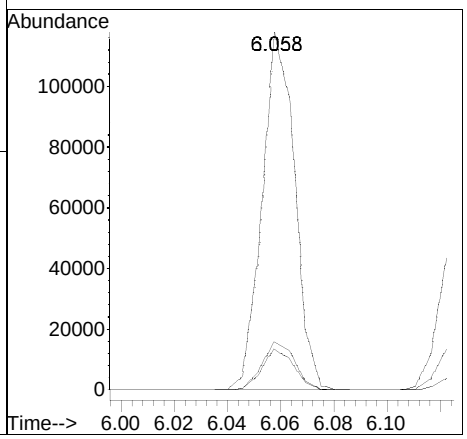


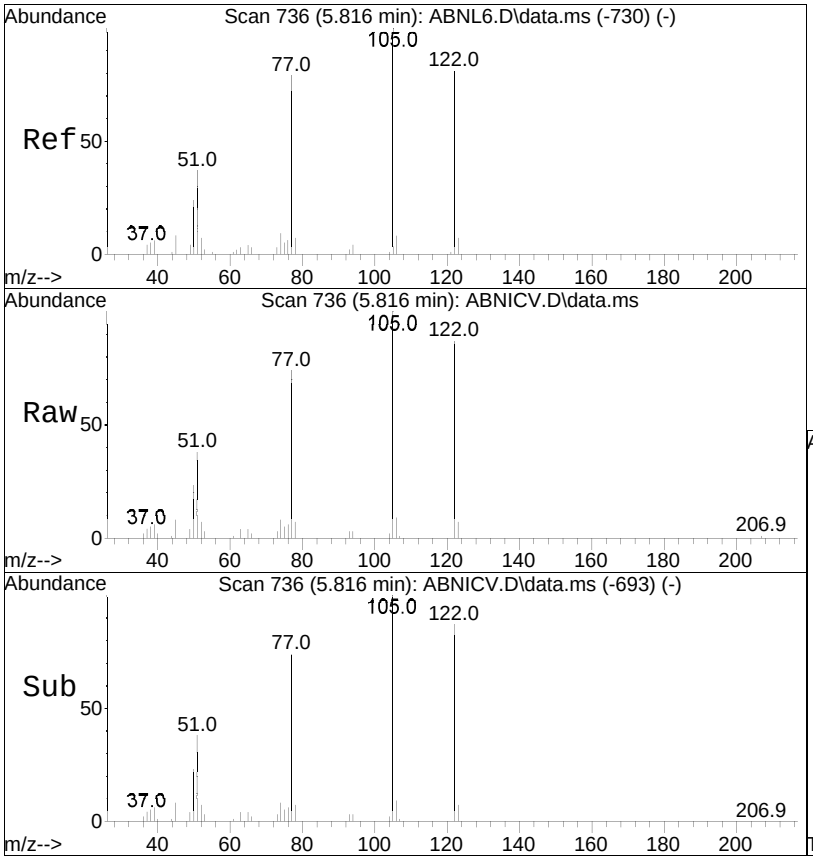


#36
Naphthalene
Concen: 4.72 ug/ml
RT: 6.058 min Scan# 777
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:128 Resp: 99432

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.6	10.6	15.8

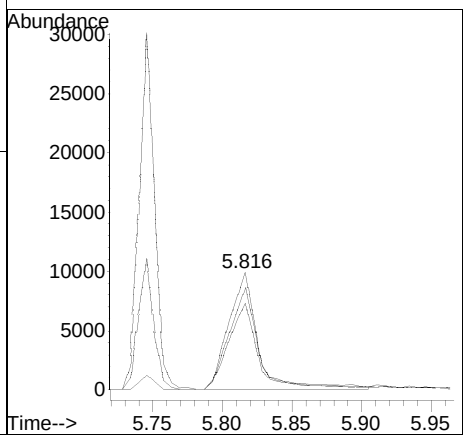


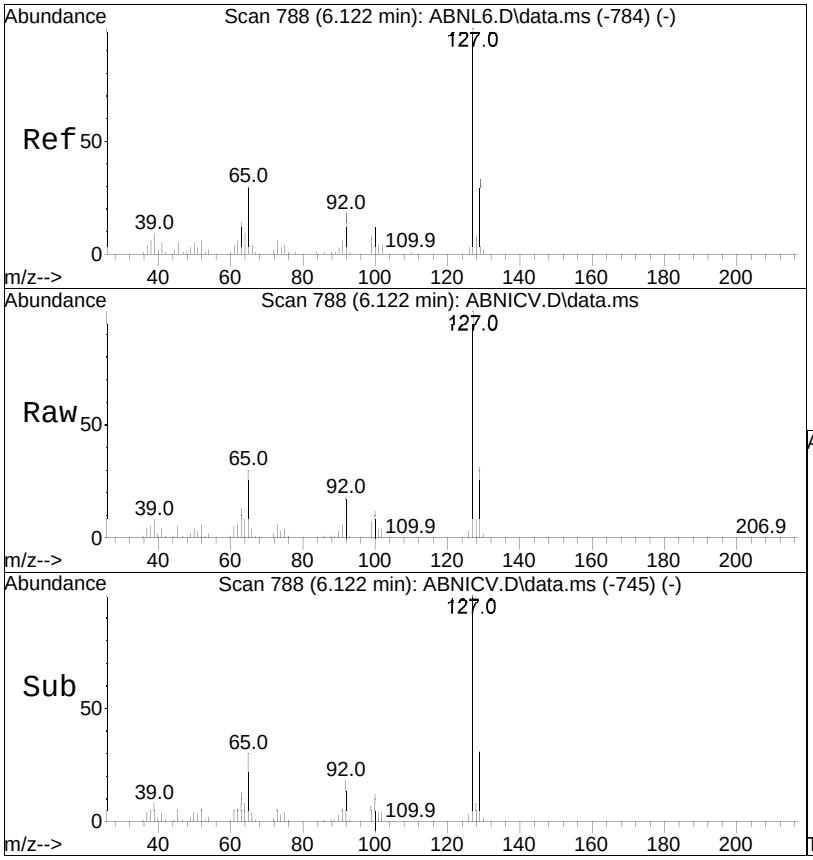


#37
Benzoic Acid
Concen: 4.28 ug/ml
RT: 5.816 min Scan# 736
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:105 Resp: 14641

Ion	Ratio	Lower	Upper
105	100		
122	86.0	62.6	93.8
77	74.5	59.1	88.7

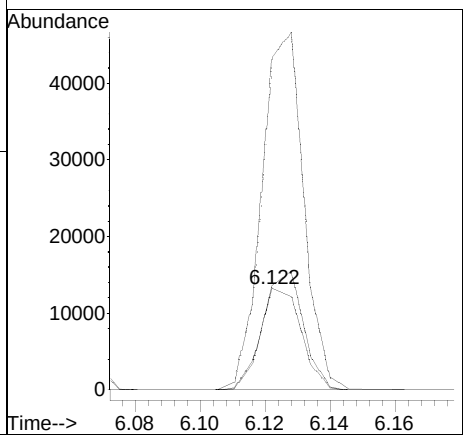


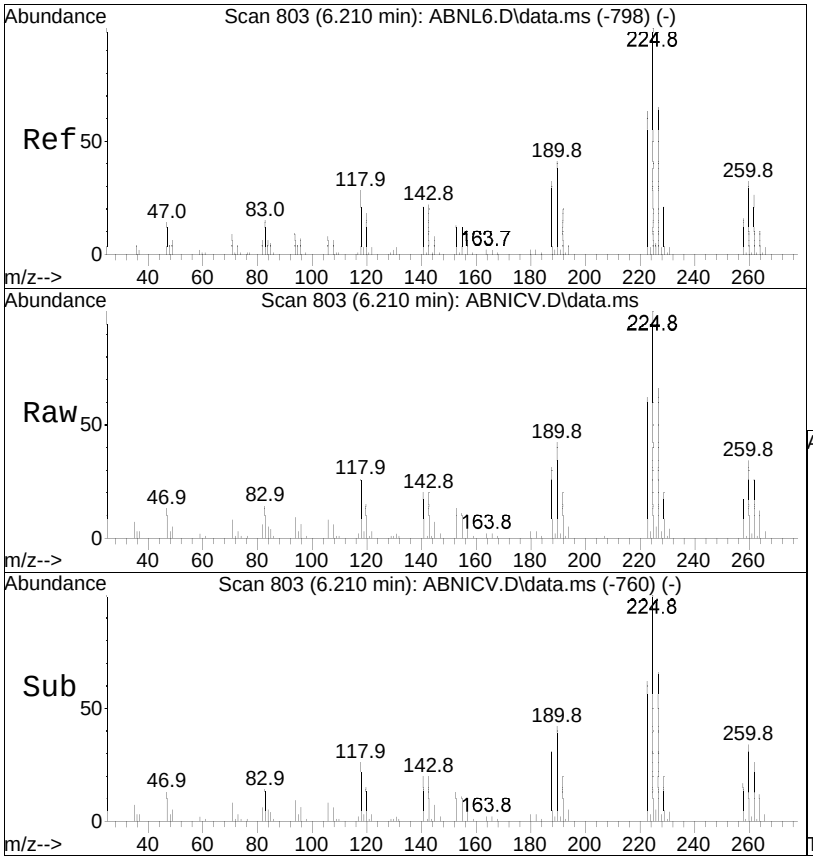


#38
4-Chloroaniline
Concen: 4.95 ug/ml
RT: 6.122 min Scan# 788
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 65 Resp: 11724

Ion	Ratio	Lower	Upper
65	100		
127	353.6	266.2	399.4
129	113.3	85.0	127.4

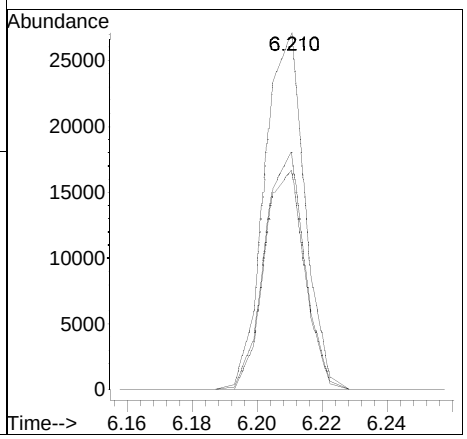


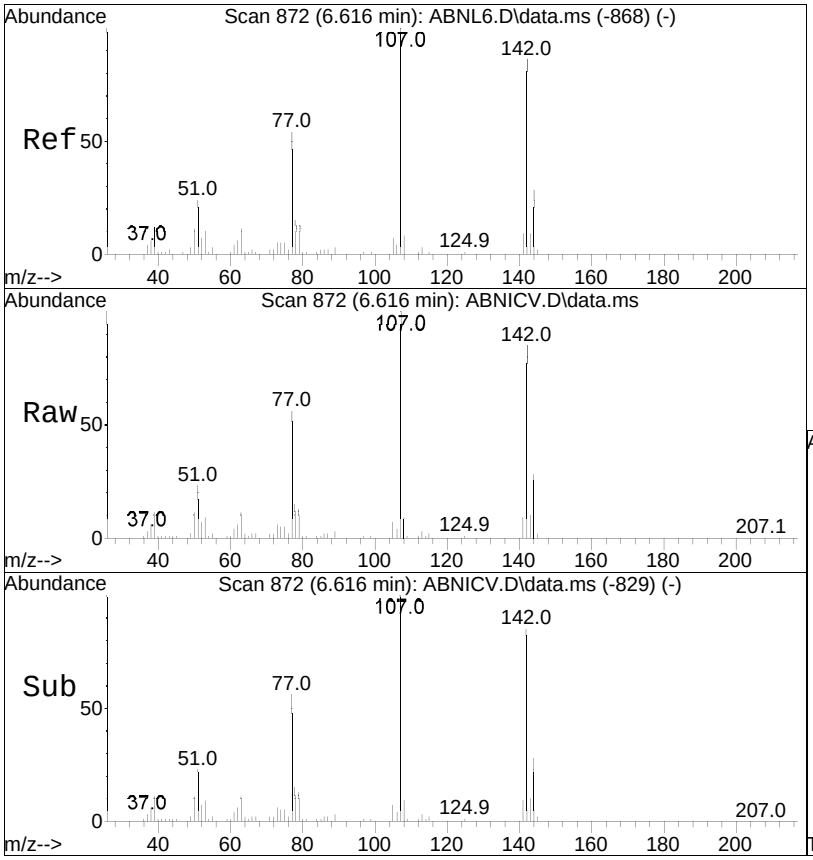


#39
Hexachlorobutadiene
Concen: 4.72 ug/ml
RT: 6.210 min Scan# 803
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:225 Resp: 23300

Ion	Ratio	Lower	Upper
225	100		
223	61.6	50.5	75.7
227	66.2	50.4	75.6

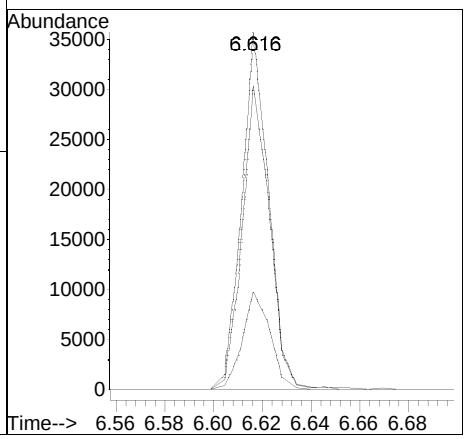


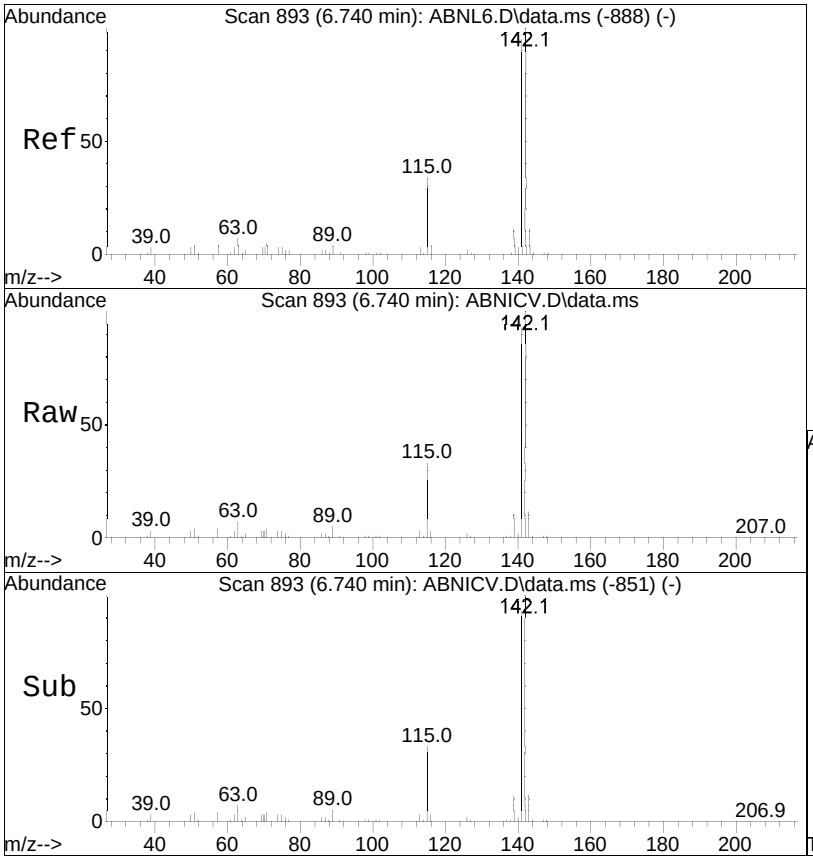


#40
p-Chloro-m-cresol
Concen: 4.89 ug/ml
RT: 6.616 min Scan# 872
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:107 Resp: 27216

Ion	Ratio	Lower	Upper
107	100		
144	28.2	20.3	30.5
142	85.9	63.8	95.6

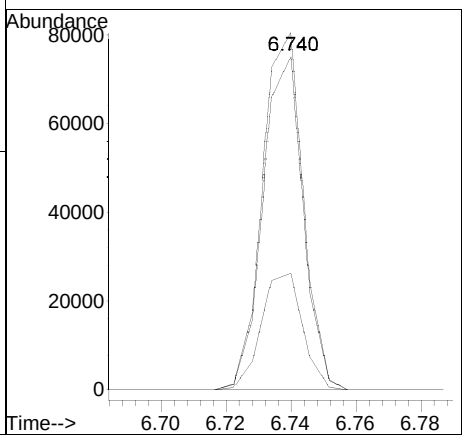


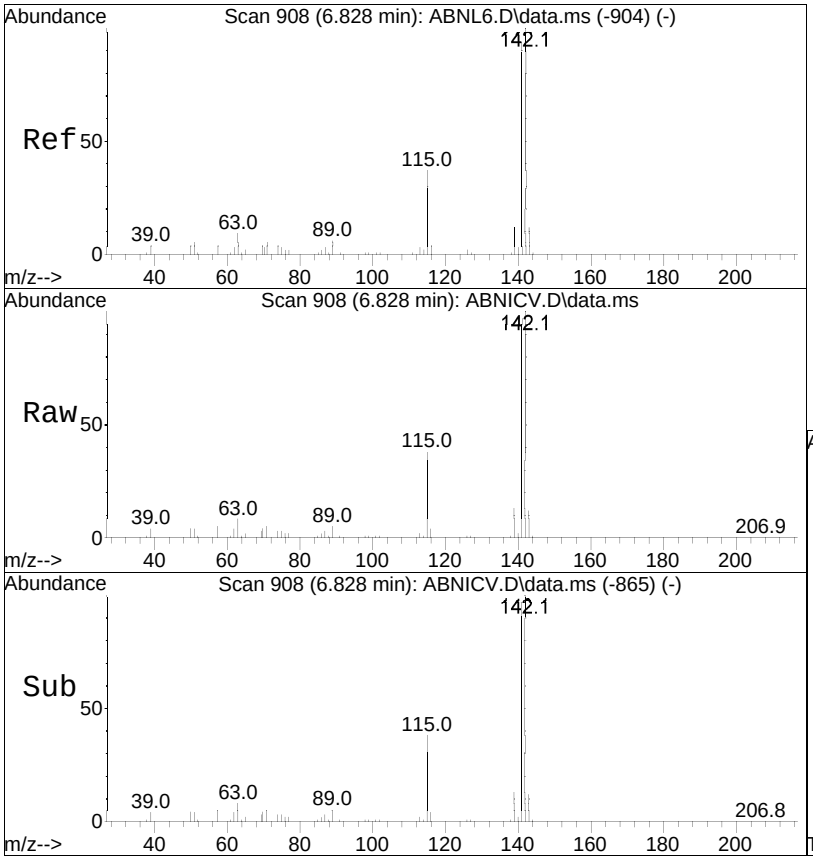


#41
2-Methylnaphthalene
Concen: 4.88 ug/ml
RT: 6.740 min Scan# 893
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:142 Resp: 69923

Ion	Ratio	Lower	Upper
142	100		
141	91.9	72.2	108.4
115	33.2	27.8	41.6

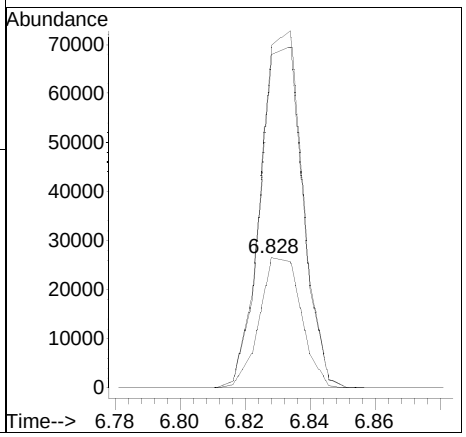


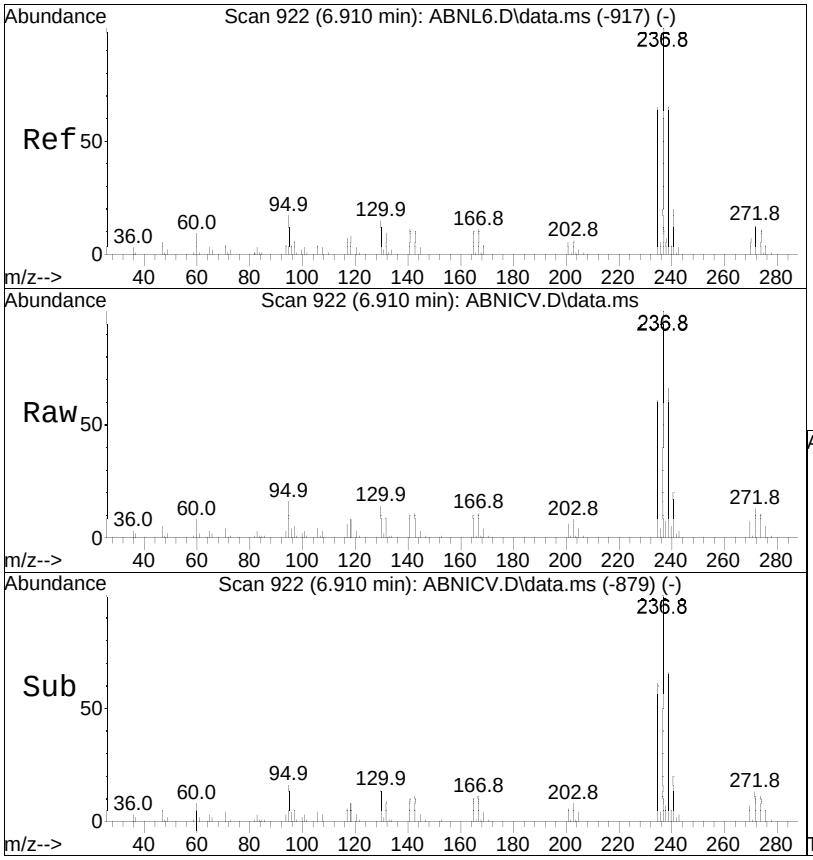


#42
1-Methylnaphthalene
Concen: 4.84 ug/ml
RT: 6.828 min Scan# 908
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:115 Resp: 23877

Ion	Ratio	Lower	Upper
115	100		
141	264.8	205.4	308.2
142	275.6	220.2	330.4

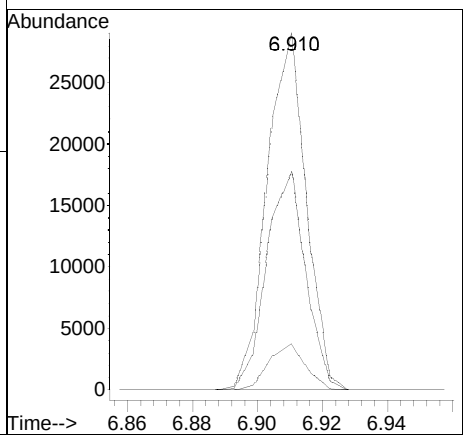


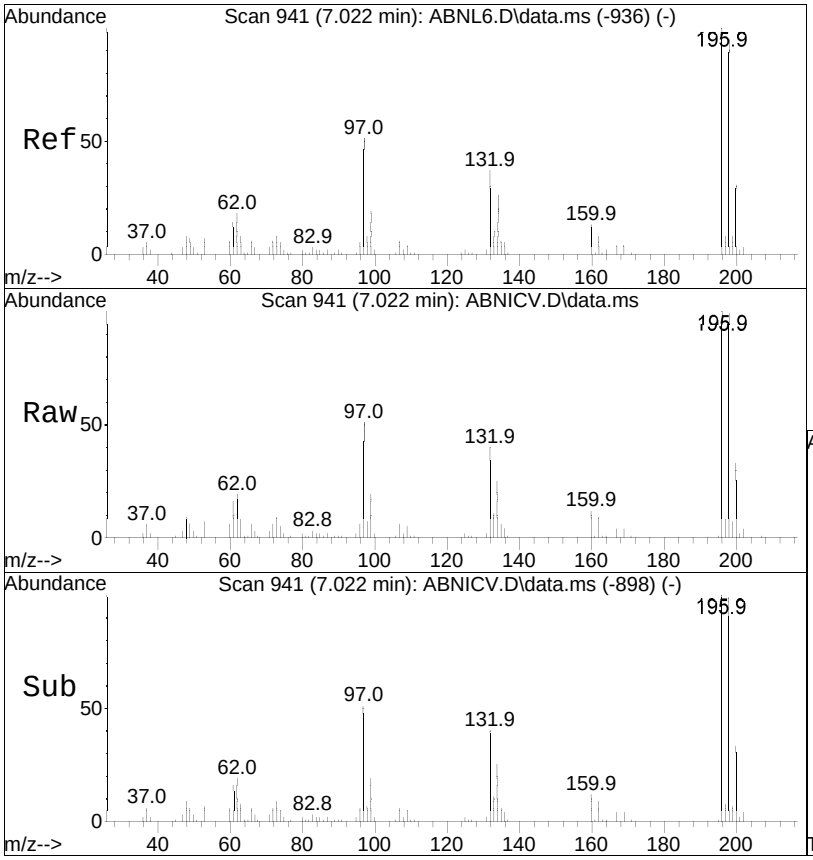


#43
Hexachlorocyclopentadiene
Concen: 4.80 ug/ml
RT: 6.910 min Scan# 922
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:237 Resp: 24201

Ion	Ratio	Lower	Upper
237	100		
235	61.5	50.9	76.3
272	12.2	10.1	15.1

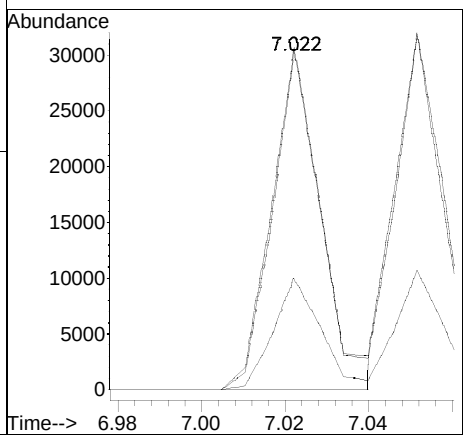


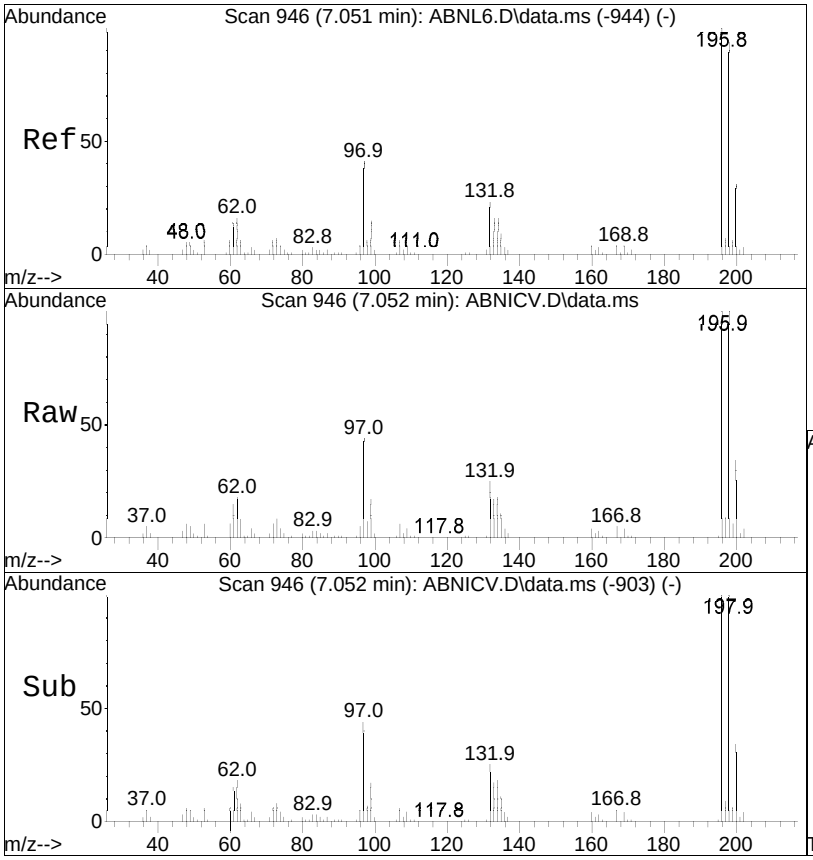


#44
2,4,6-Trichlorophenol
Concen: 4.89 ug/ml
RT: 7.022 min Scan# 941
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:196 Resp: 25194

Ion	Ratio	Lower	Upper
196	100		
198	96.3	76.4	114.6
200	31.9	24.4	36.6

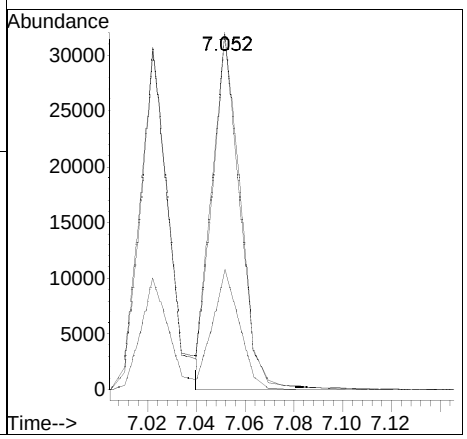


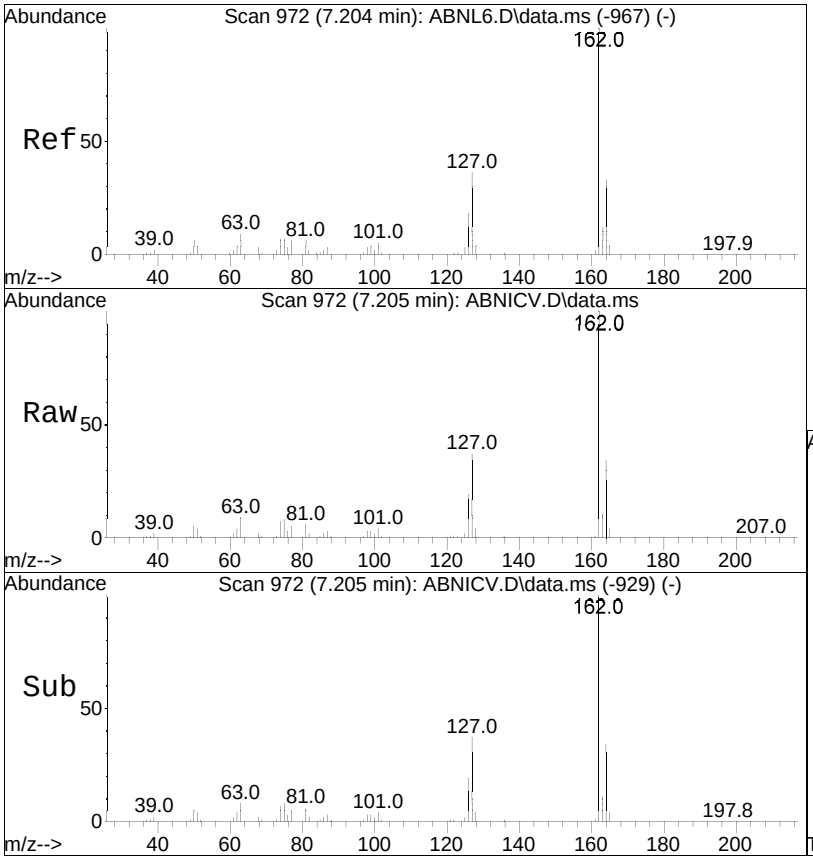


#45
2,4,5-Trichlorophenol
Concen: 4.93 ug/ml
RT: 7.052 min Scan# 946
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:196 Resp: 25978

Ion	Ratio	Lower	Upper
196	100		
200	31.6	24.2	36.4
198	96.3	76.2	114.2

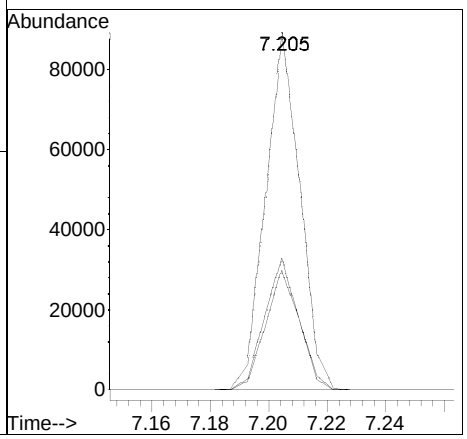


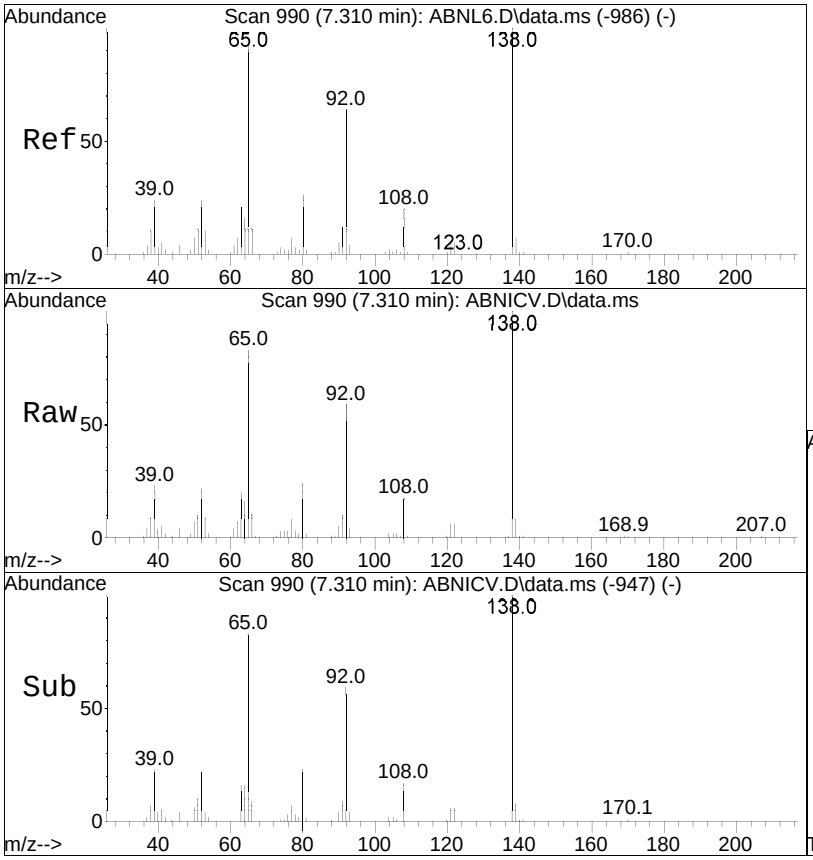


#47
2-Chloronaphthalene
Concen: 4.71 ug/ml
RT: 7.205 min Scan# 972
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:162 Resp: 71799

Ion	Ratio	Lower	Upper
162	100		
127	36.5	33.8	50.6
164	33.9	25.8	38.6

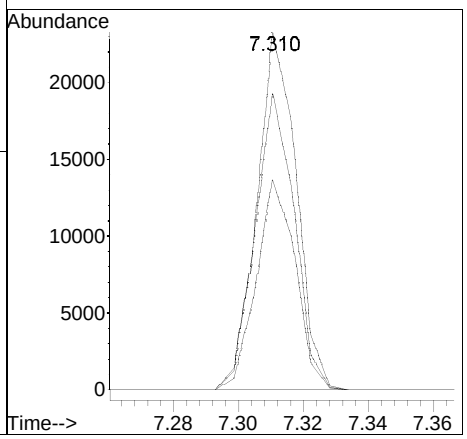


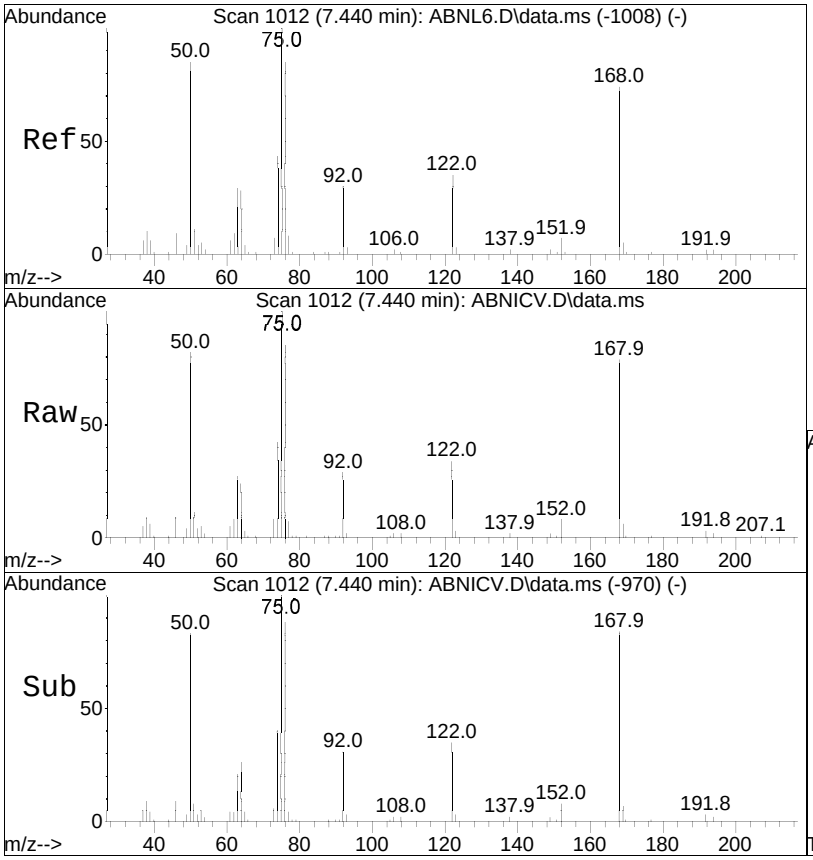


#48
2-Nitroaniline
Concen: 4.79 ug/ml
RT: 7.310 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 19285

Ion	Ratio	Lower	Upper
138	100		
92	58.5	52.1	78.1
65	83.2	75.9	113.9

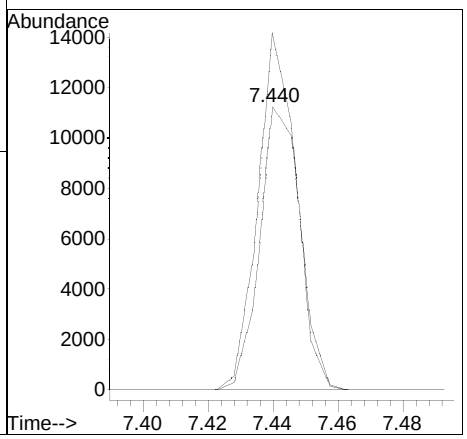


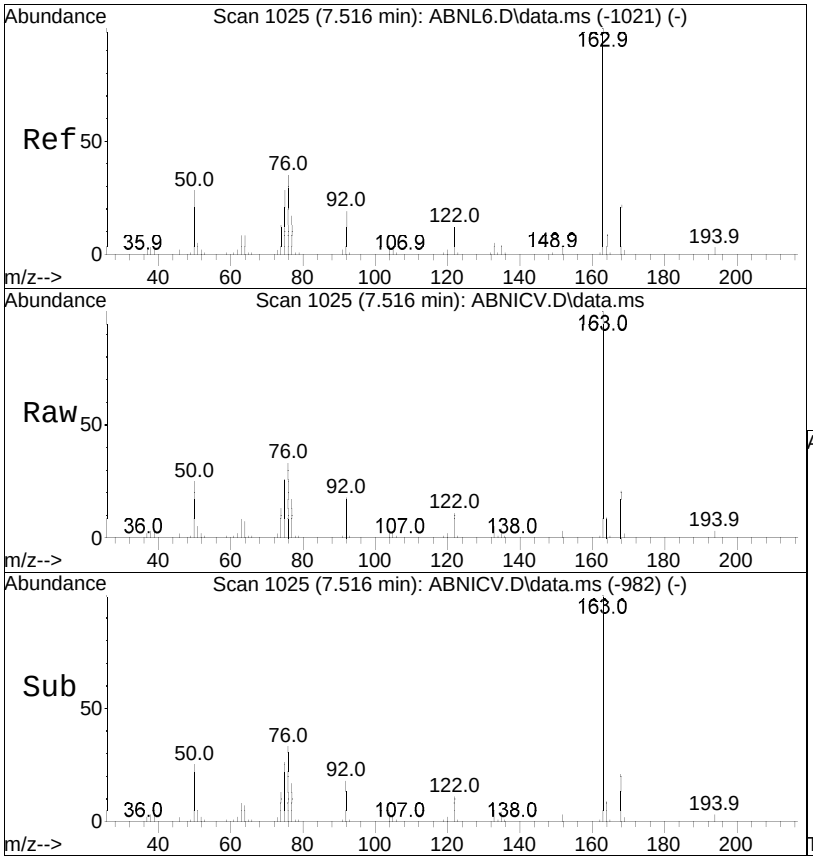


#49
1,4-Dinitrobenzene
Concen: 4.95 ug/ml
RT: 7.440 min Scan# 1012
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 9774

Ion	Ratio	Lower	Upper
168	100		
75	118.0	111.0	166.4

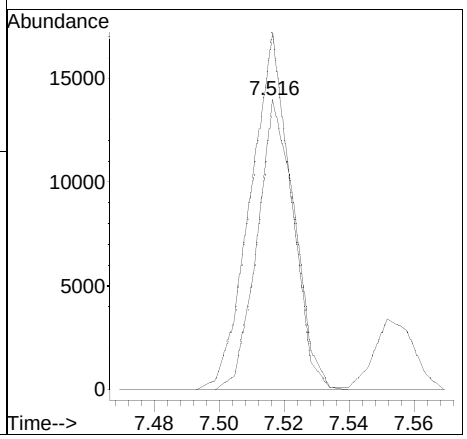


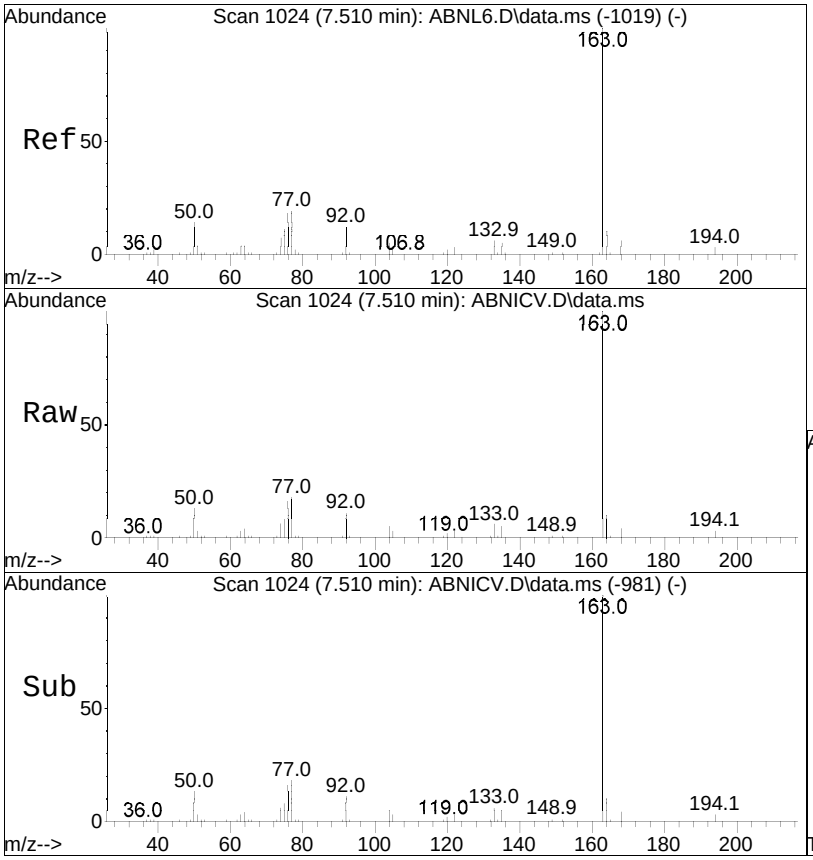


#50
1,3-Dinitrobenzene
Concen: 4.88 ug/ml
RT: 7.516 min Scan# 1025
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 11190

Ion	Ratio	Lower	Upper
168	100		
75	131.7	116.4	174.6

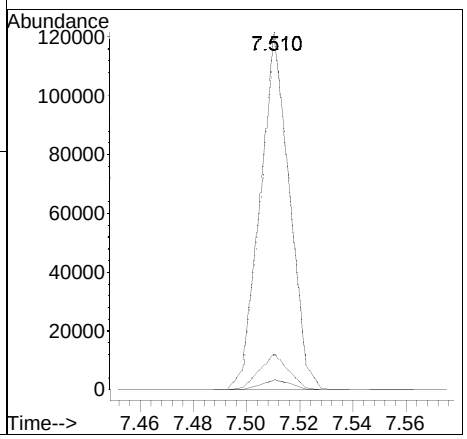


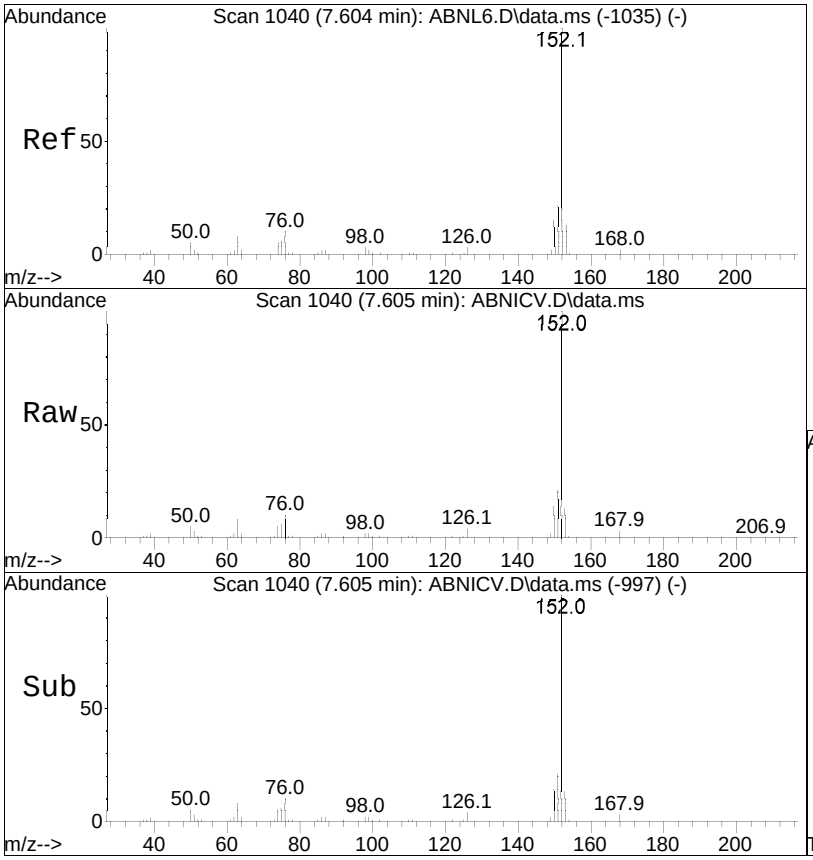


#51
Dimethyl phthalate
Concen: 4.95 ug/ml
RT: 7.510 min Scan# 1024
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:163 Resp: 91883

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.3	3.5
164	10.0	8.2	12.2

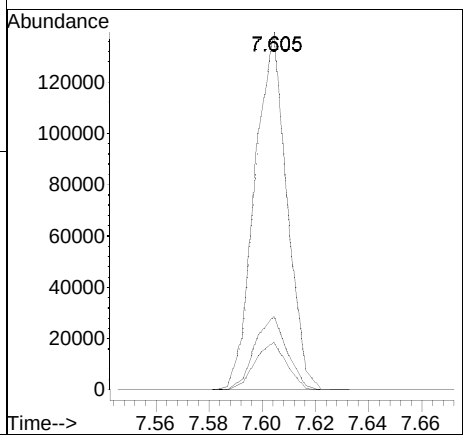


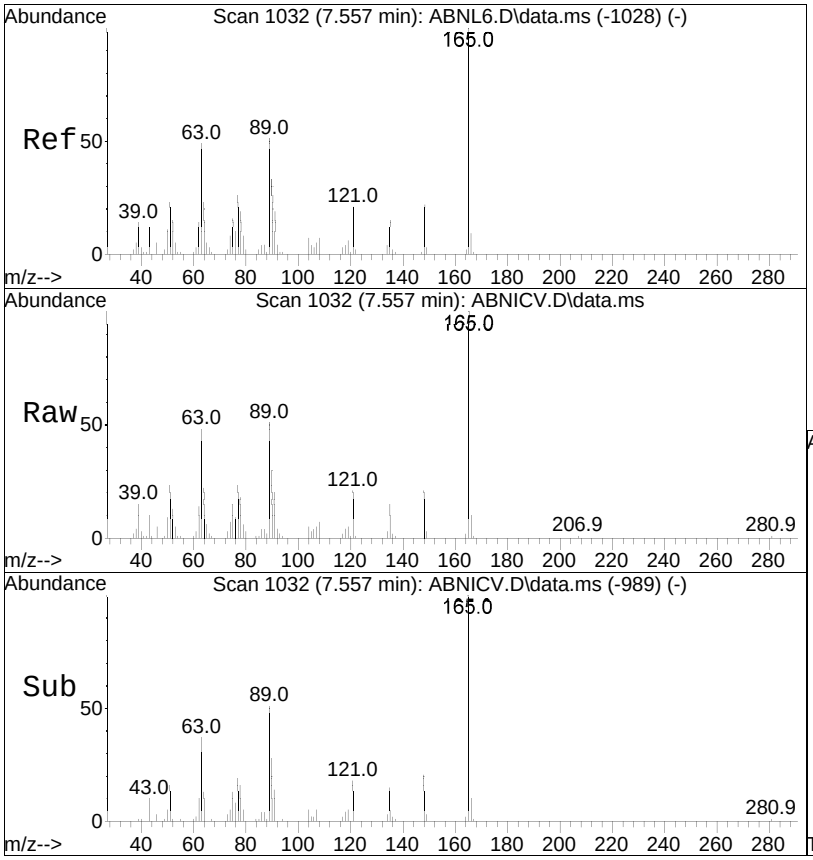


#52
Acenaphthylene
Concen: 5.14 ug/ml
RT: 7.605 min Scan# 1040
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:152 Resp: 115716

Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.9	23.9
153	13.4	10.5	15.7

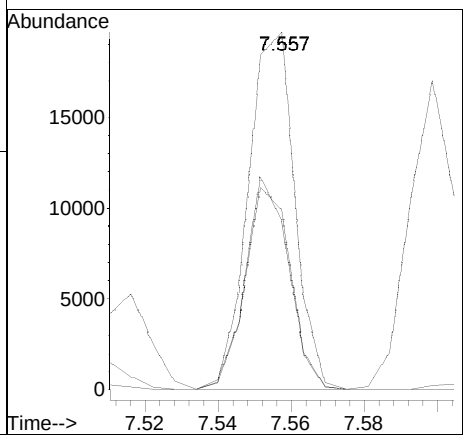


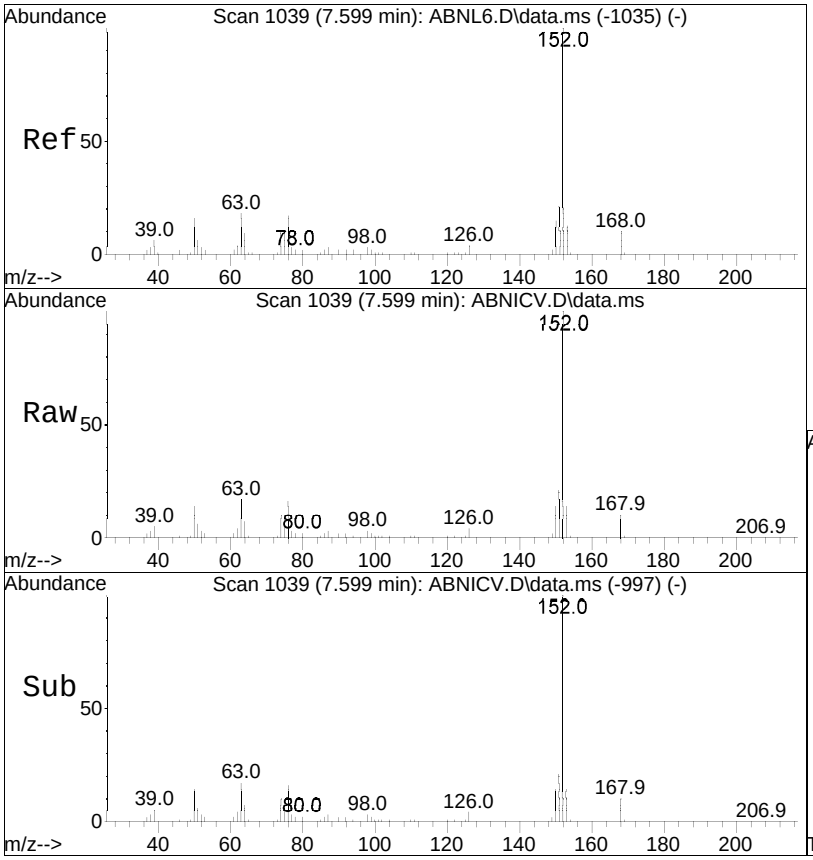


#53
2,6-Dinitrotoluene
Concen: 5.01 ug/ml
RT: 7.557 min Scan# 1032
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:165 Resp: 17365

Ion	Ratio	Lower	Upper
165	100		
89	55.6	48.8	73.2
63	55.8	50.5	75.7

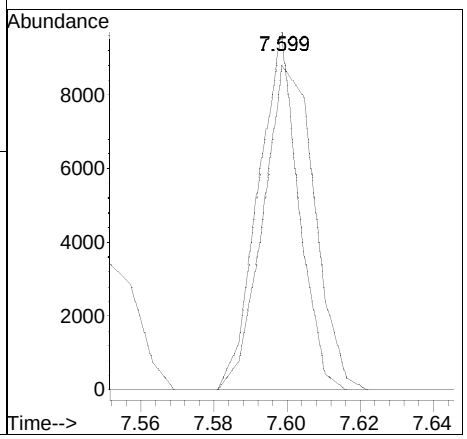


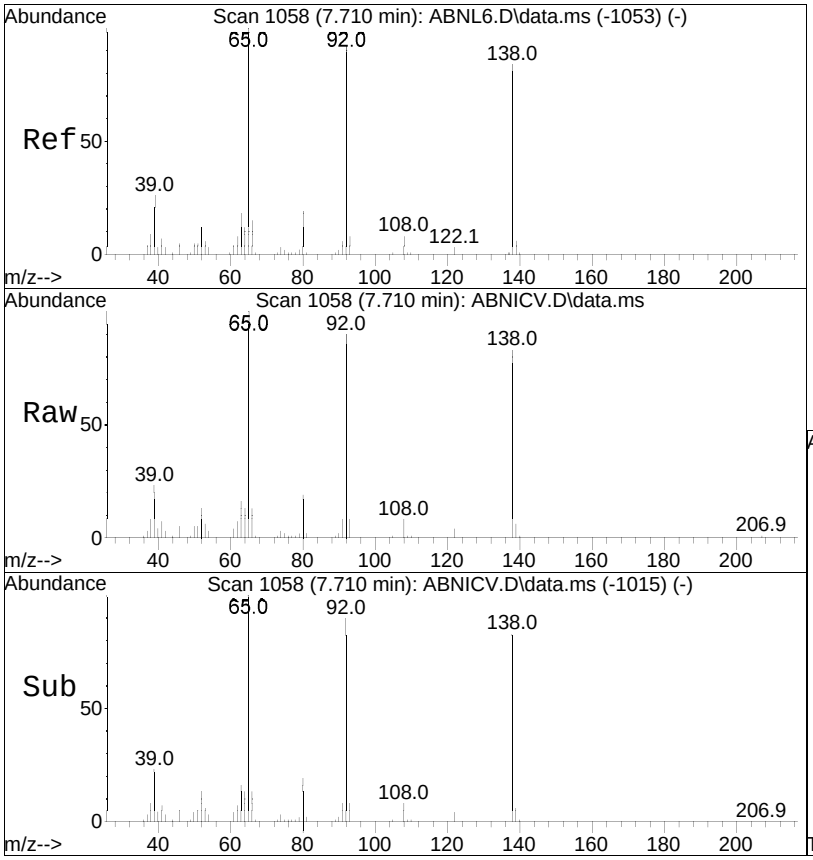


#54
1,2-Dinitrobenzene
Concen: 4.87 ug/ml
RT: 7.599 min Scan# 1039
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 7435

Ion	Ratio	Lower	Upper
168	100		
75	115.4	32.2	48.2#

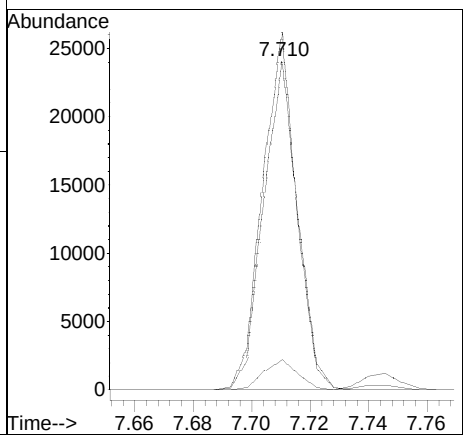


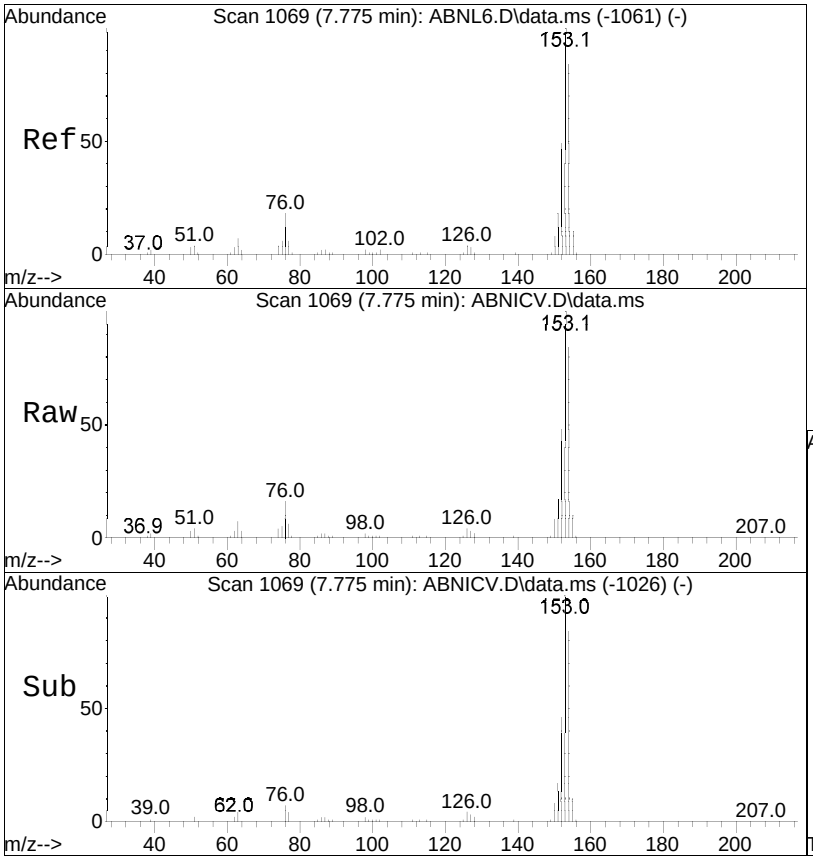


#64
3-Nitroaniline
Concen: 4.92 ug/ml
RT: 7.710 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 19395

Ion	Ratio	Lower	Upper
138	100		
92	107.4	92.8	139.2
108	9.2	7.9	11.9

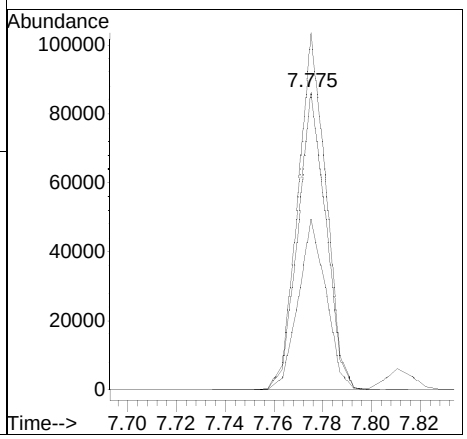


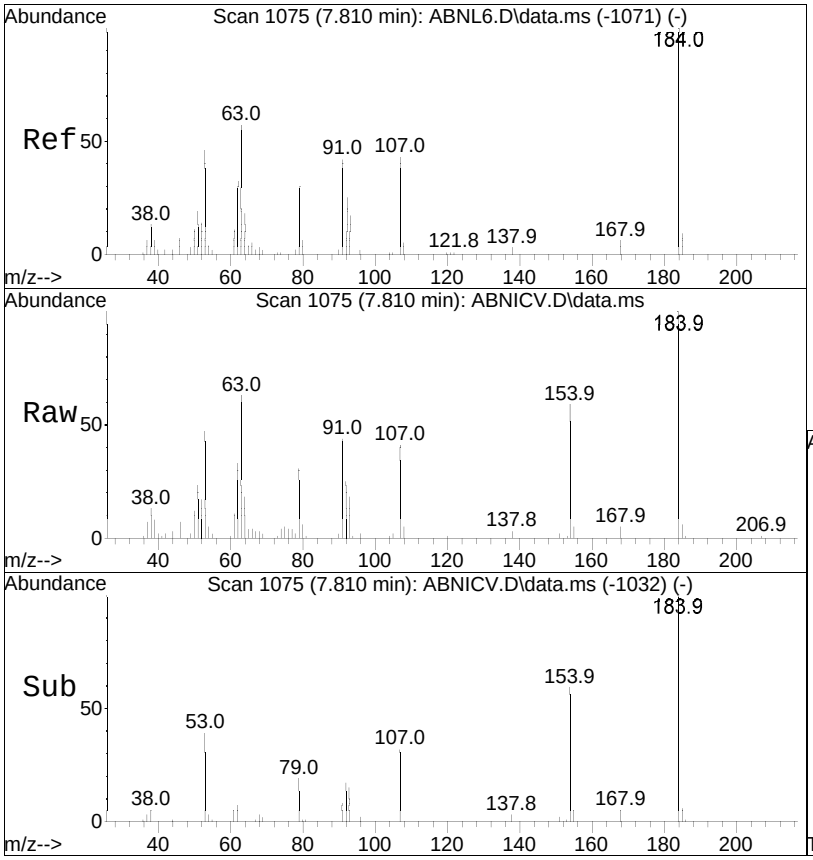


#65
Acenaphthene
Concen: 4.70 ug/ml
RT: 7.775 min Scan# 1069
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:154 Resp: 69117

Ion	Ratio	Lower	Upper
154	100		
153	119.3	93.0	139.4
152	56.9	43.3	64.9

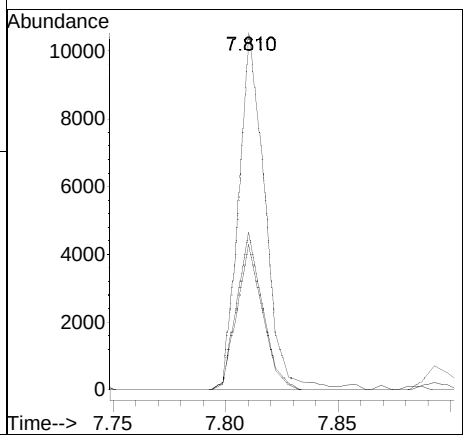


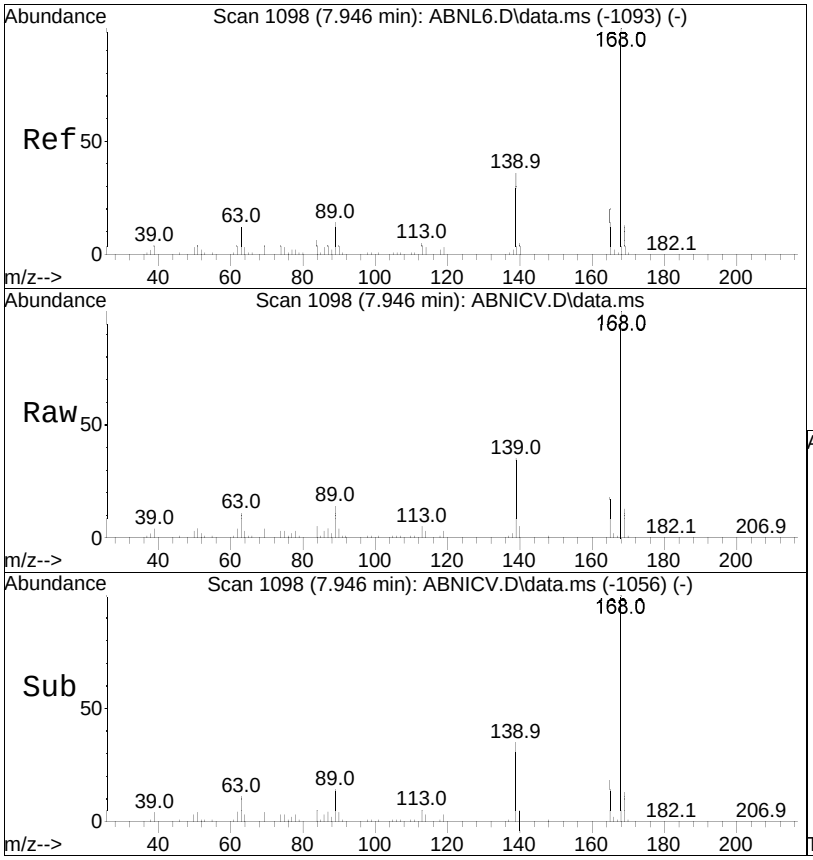


#66
2,4-Dinitrophenol
Concen: 4.10 ug/ml
RT: 7.810 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:184 Resp: 8557

Ion	Ratio	Lower	Upper
184	100		
107	39.8	41.8	62.6#
91	43.2	44.2	66.2#

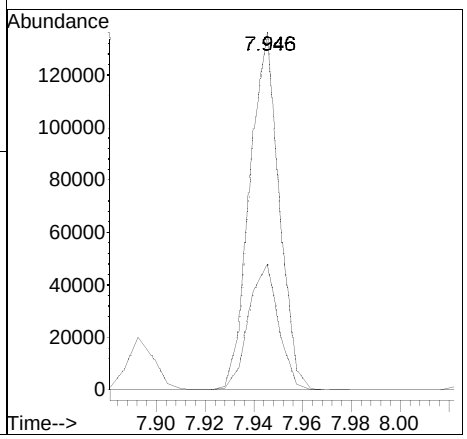


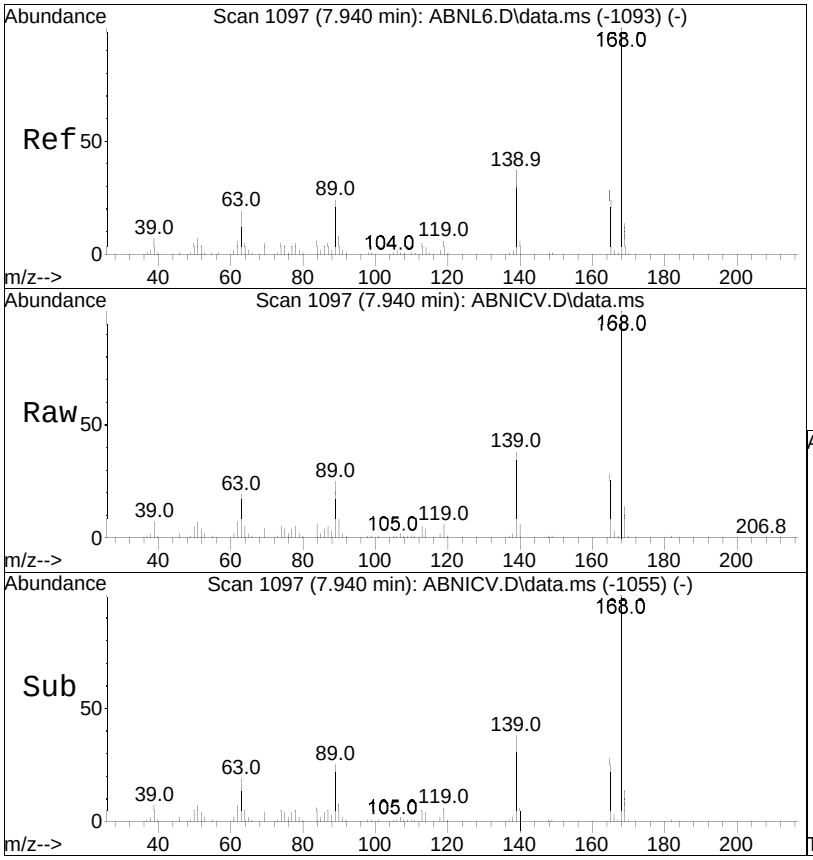


#67
Dibenzofuran
Concen: 4.68 ug/ml
RT: 7.946 min Scan# 1098
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:168 Resp: 113504

Ion	Ratio	Lower	Upper
168	100		
139	35.9	32.3	48.5

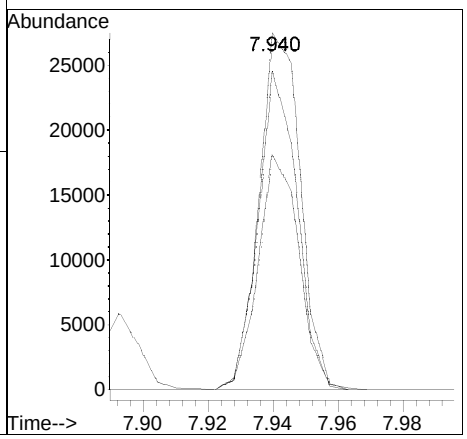


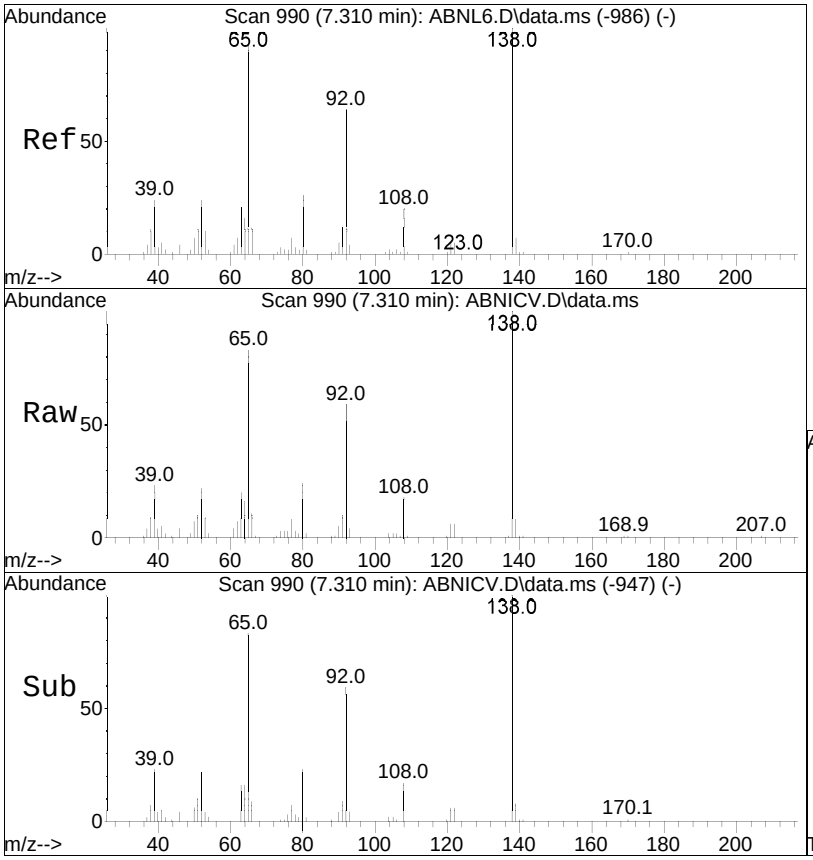


#68
2,4-Dinitrotoluene
Concen: 4.78 ug/ml
RT: 7.940 min Scan# 1097
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:165 Resp: 24166

Ion	Ratio	Lower	Upper
165	100		
89	83.8	73.0	109.4
63	65.2	56.3	84.5

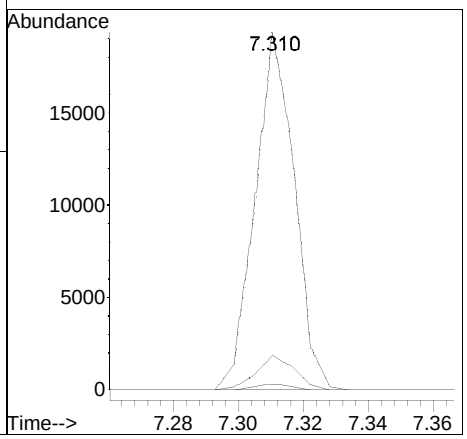


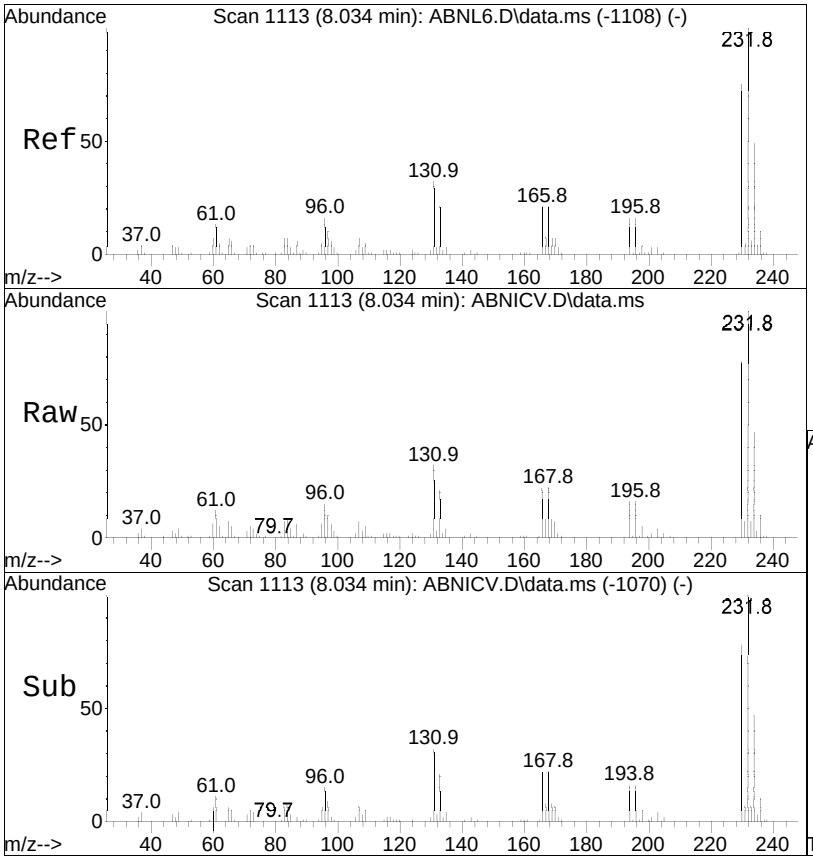


#69
4-Nitrophenol
Concen: 4.20 ug/ml
RT: 7.310 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 65 Resp: 16049

Ion	Ratio	Lower	Upper
65	100		
109	0.0	60.2	90.2#
139	9.5	81.1	121.7#

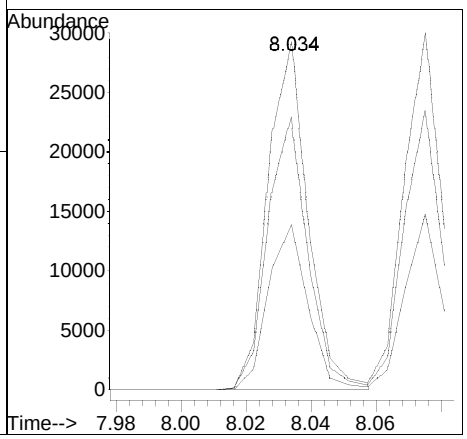


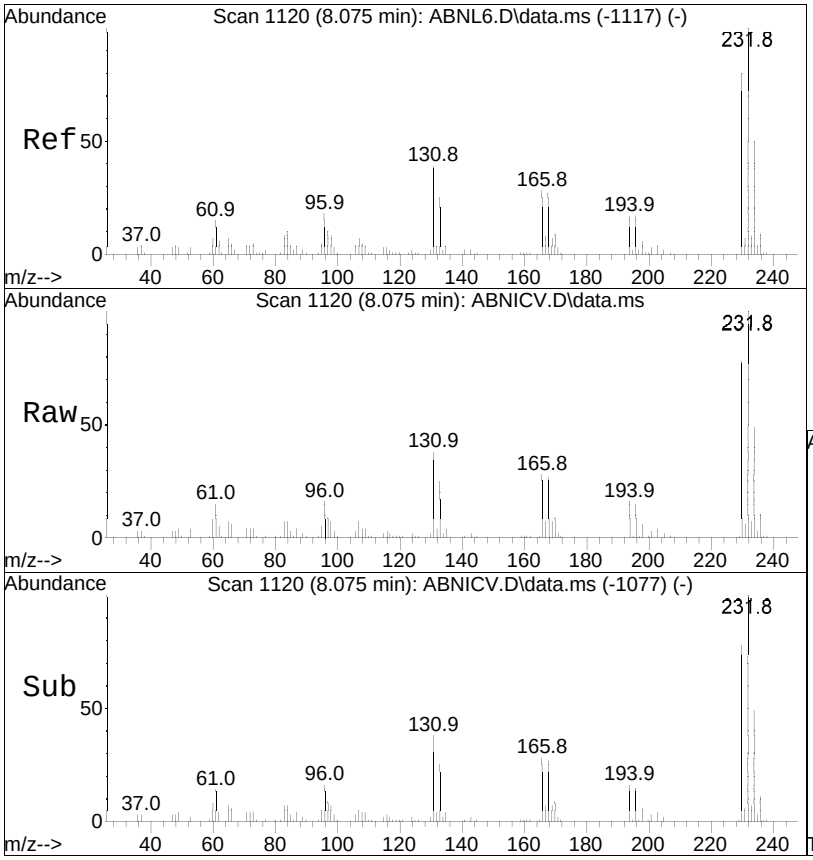


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.06 ug/ml
RT: 8.034 min Scan# 1113
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:232 Resp: 25150

Ion	Ratio	Lower	Upper
232	100		
230	78.4	63.8	95.8
234	47.4	38.3	57.5

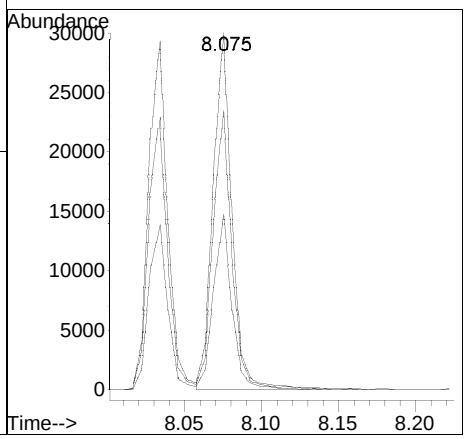


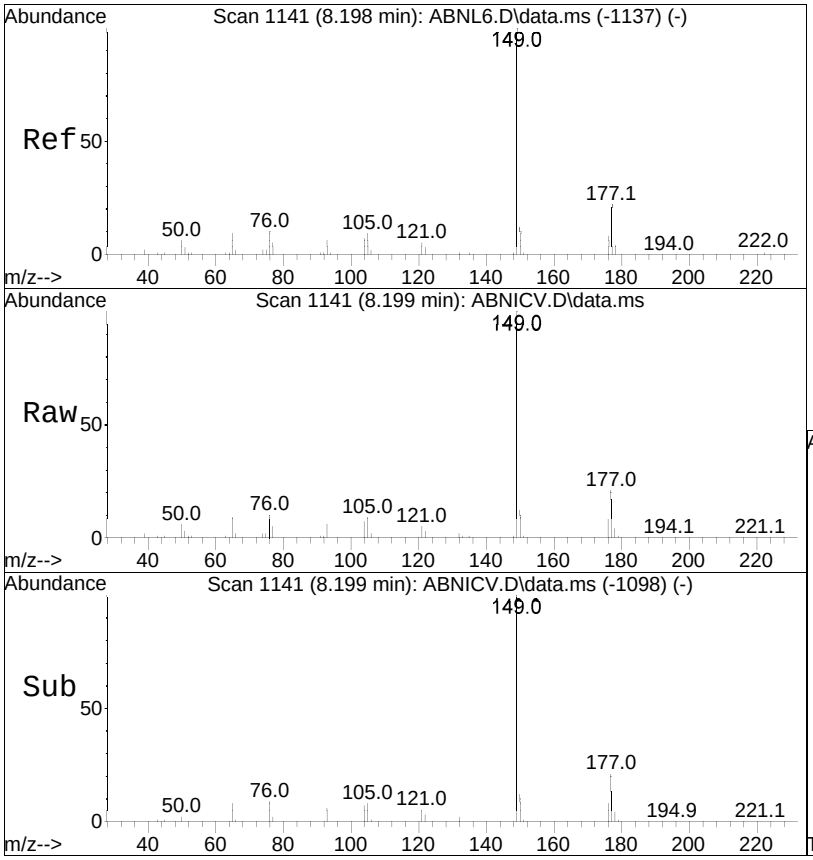


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.30 ug/ml
RT: 8.075 min Scan# 1120
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:232 Resp: 25875

Ion	Ratio	Lower	Upper
232	100		
230	78.0	63.8	95.8
234	47.7	39.0	58.6

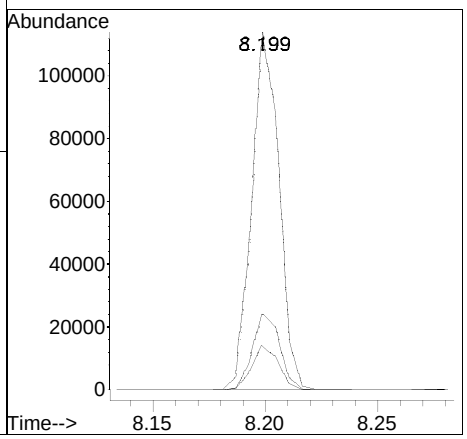


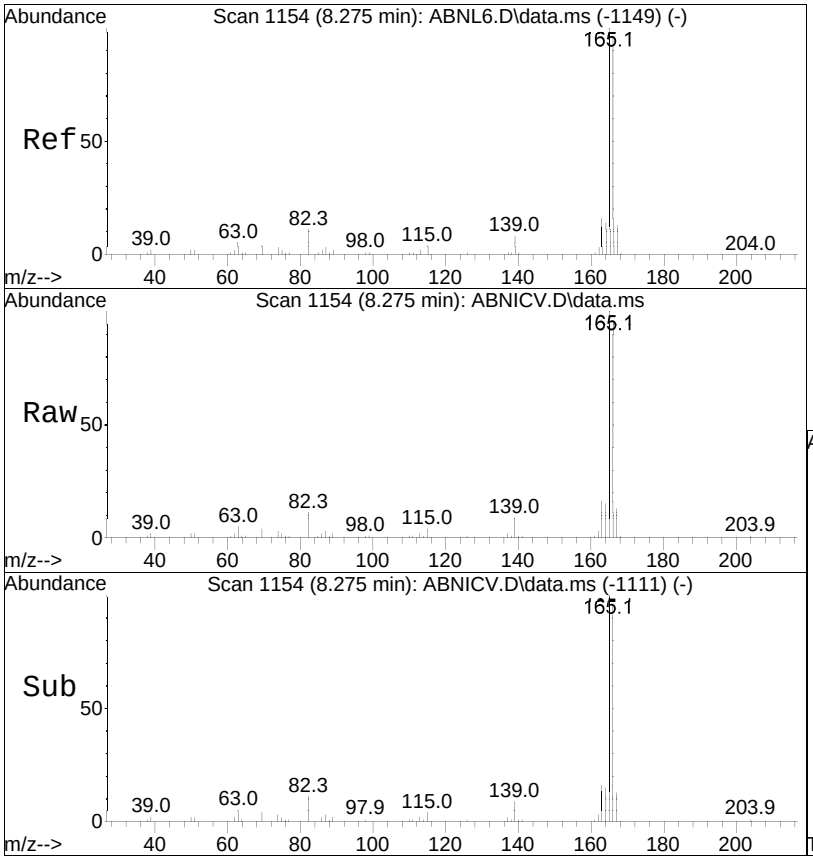


#72
Diethyl phthalate
Concen: 4.82 ug/ml
RT: 8.199 min Scan# 1141
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 94549

Ion	Ratio	Lower	Upper
149	100		
177	21.5	15.0	22.6
150	12.4	9.8	14.6

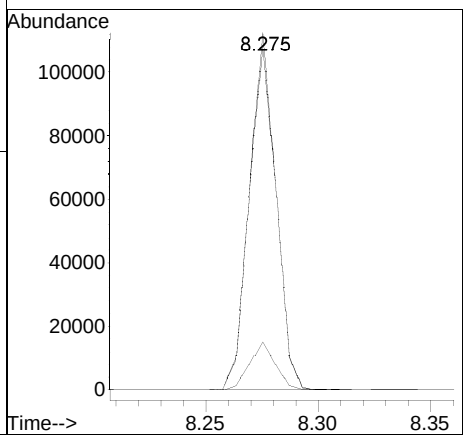


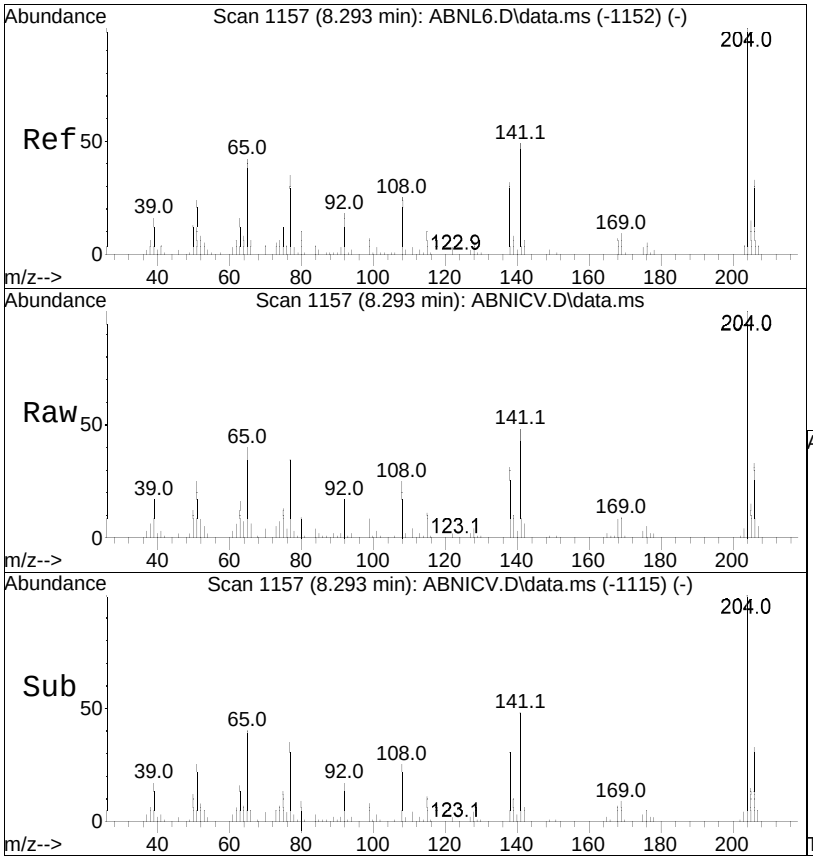


#73
Fluorene
Concen: 4.79 ug/ml
RT: 8.275 min Scan# 1154
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:166 Resp: 90363

Ion	Ratio	Lower	Upper
166	100		
165	102.3	80.0	120.0
167	13.6	10.7	16.1

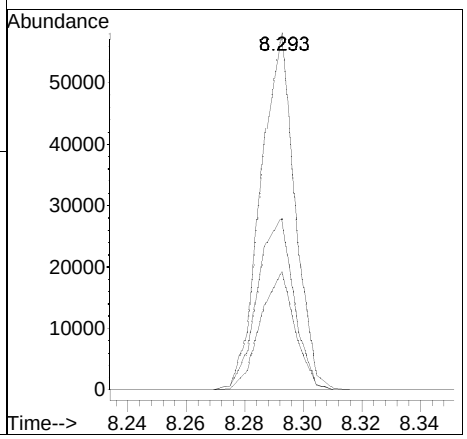


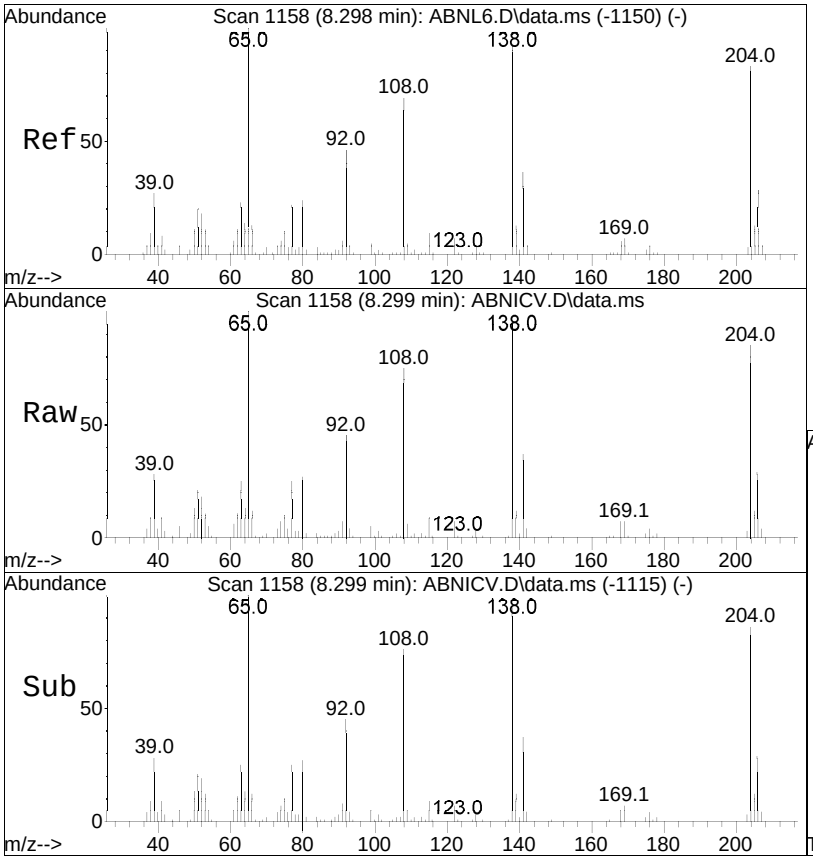


#74
4-Chlorophenyl phenyl ether
Concen: 4.55 ug/ml
RT: 8.293 min Scan# 1157
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:204 Resp: 46843

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.3	39.5
141	51.2	58.4	87.6#

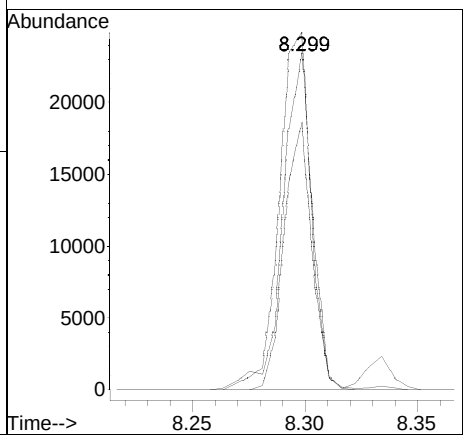


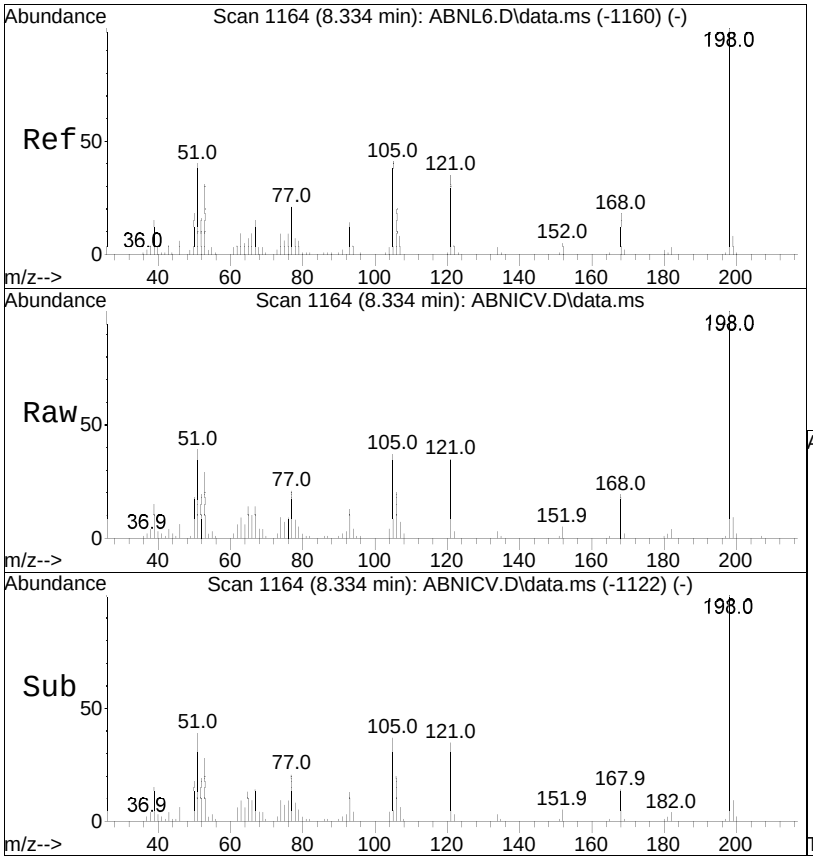


#75
4-Nitroaniline
Concen: 5.09 ug/ml
RT: 8.299 min Scan# 1158
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:138 Resp: 21133

Ion	Ratio	Lower	Upper
138	100		
108	75.4	59.2	88.8
65	114.3	97.6	146.4

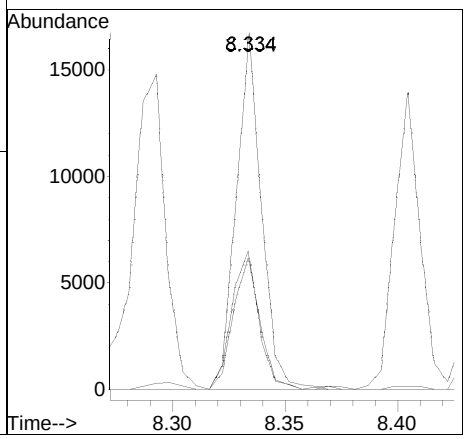


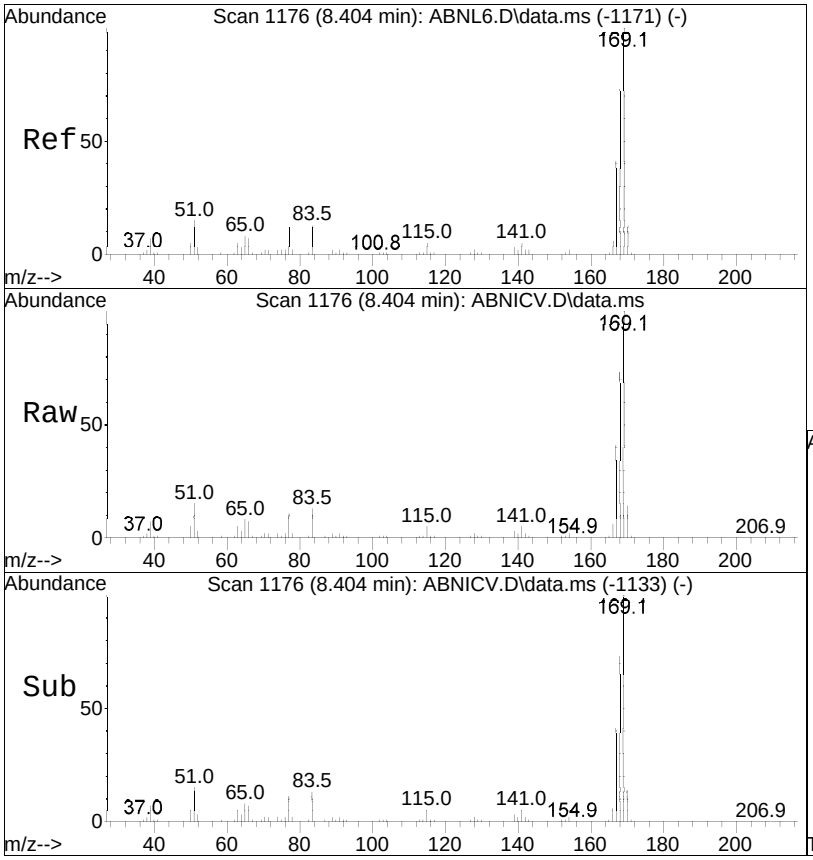


#76
4,6-Dinitro-o-cresol
Concen: 4.08 ug/ml
RT: 8.334 min Scan# 1164
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:198 Resp: 13091

Ion	Ratio	Lower	Upper
198	100		
51	41.4	49.9	74.9#
105	39.4	45.8	68.6#

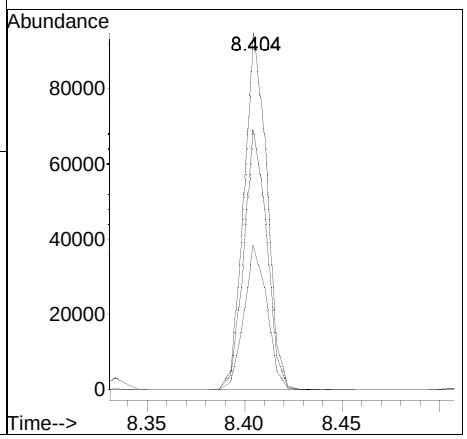


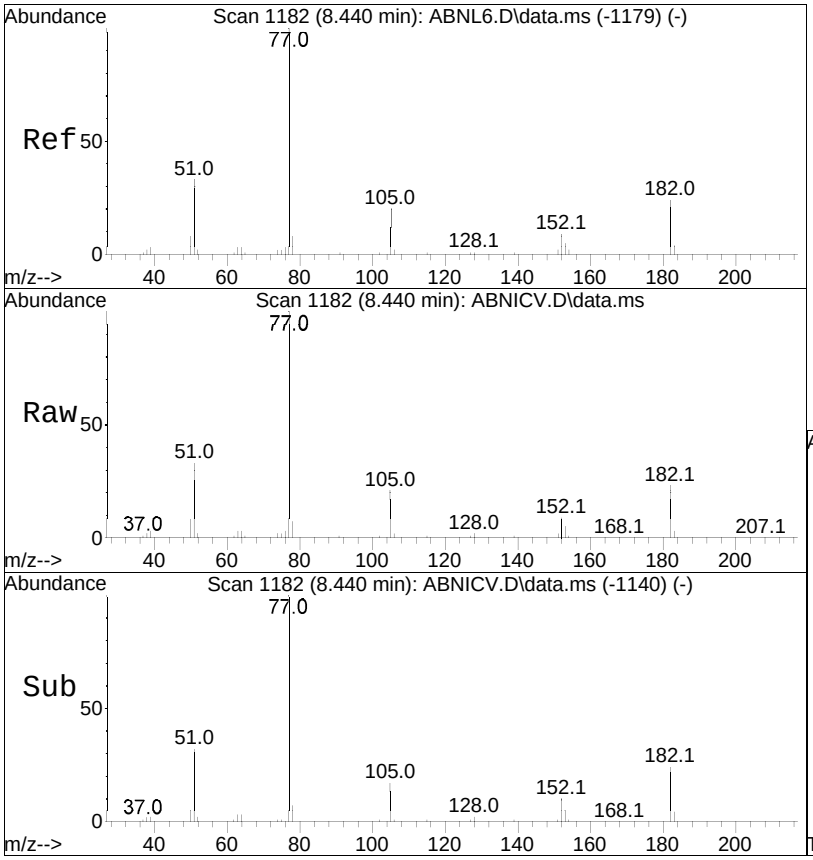


#77
NDPA/DPA
Concen: 4.78 ug/ml
RT: 8.404 min Scan# 1176
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:169 Resp: 77598

Ion	Ratio	Lower	Upper
169	100		
168	72.8	55.2	82.8
167	40.7	30.4	45.6

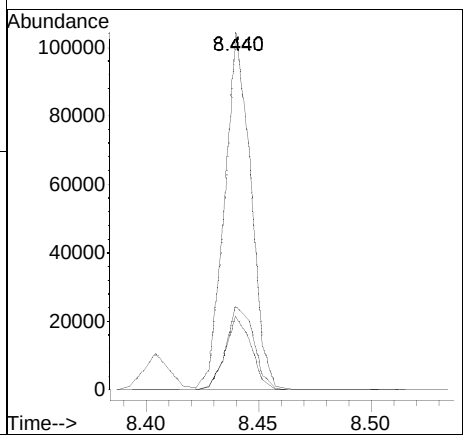


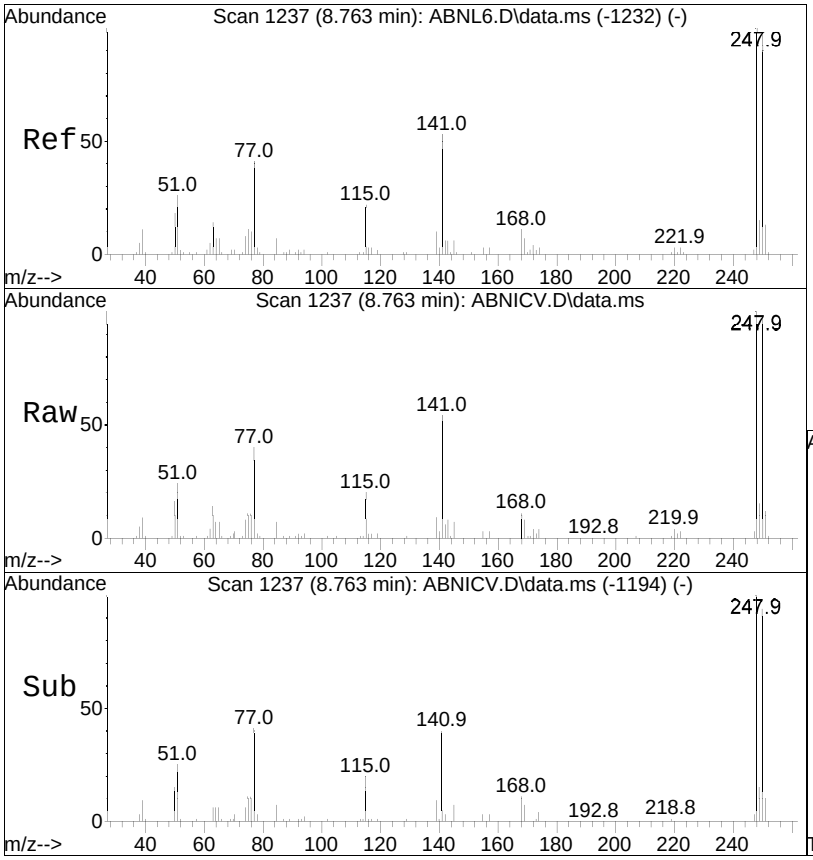


#78
Azobenzene
Concen: 4.87 ug/ml
RT: 8.440 min Scan# 1182
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion: 77 Resp: 83945

Ion	Ratio	Lower	Upper
77	100		
182	24.8	16.2	24.2#
105	20.6	17.9	26.9

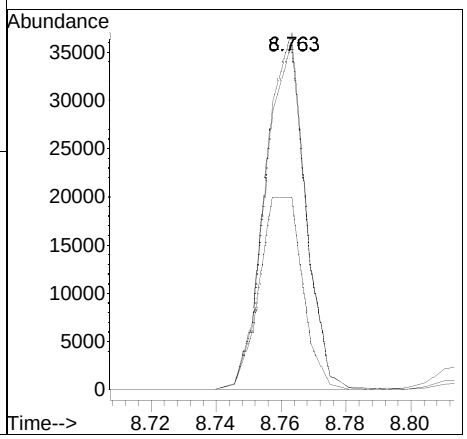


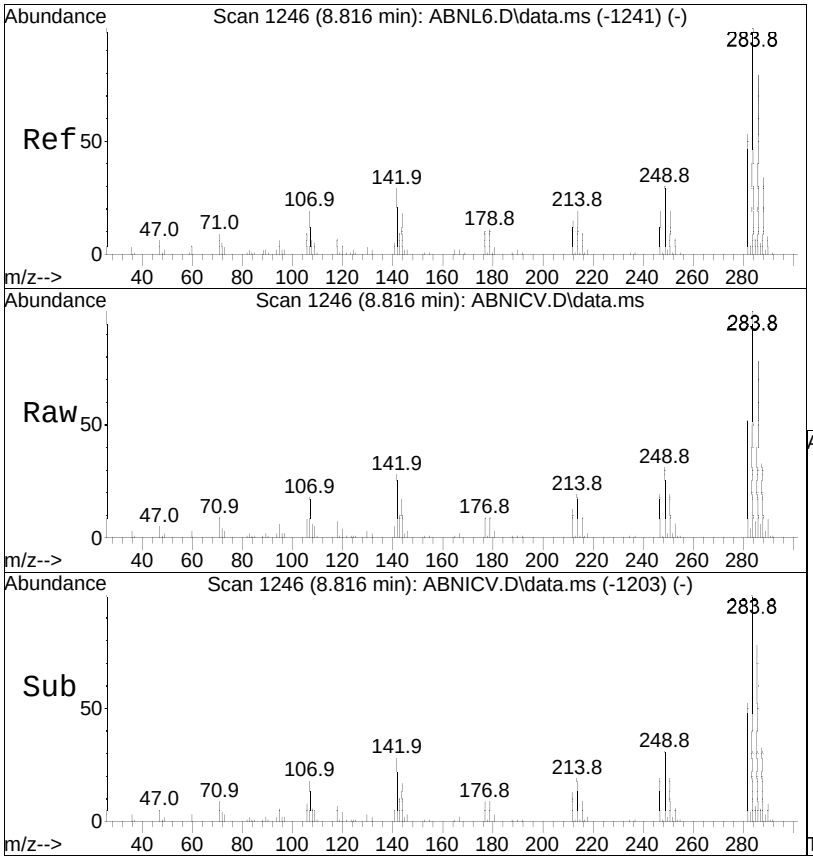


#80
4-Bromophenyl phenyl ether
Concen: 4.77 ug/ml
RT: 8.763 min Scan# 1237
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:248 Resp: 31429

Ion	Ratio	Lower	Upper
248	100		
141	58.0	74.6	111.8#
250	96.9	76.9	115.3

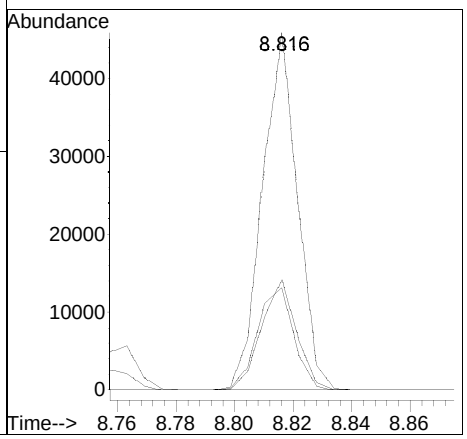


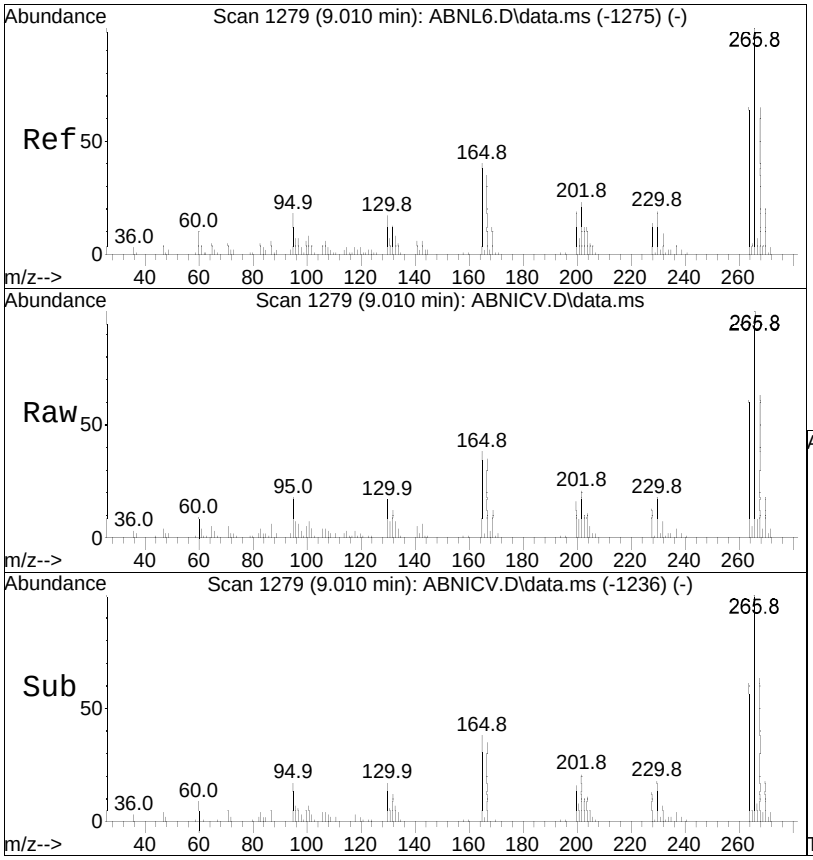


#81
Hexachlorobenzene
Concen: 4.59 ug/ml
RT: 8.816 min Scan# 1246
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:284 Resp: 37993

Ion	Ratio	Lower	Upper
284	100		
142	29.9	37.6	56.4#
249	31.0	25.4	38.2

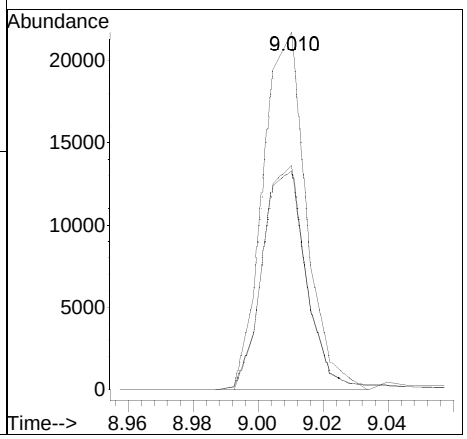


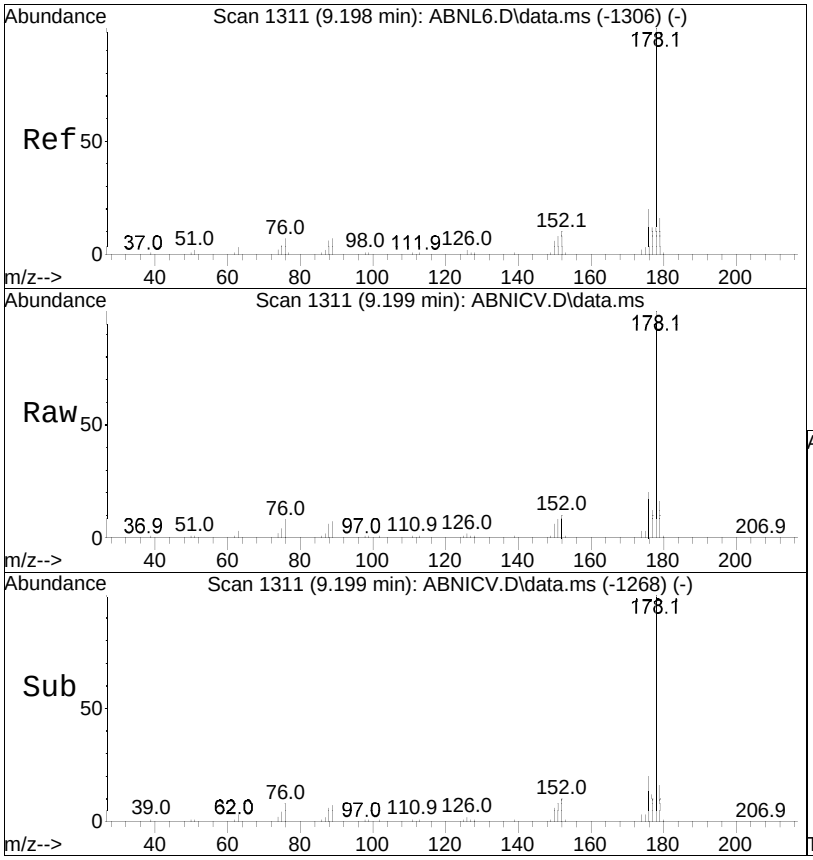


#82
Pentachlorophenol
Concen: 4.72 ug/ml
RT: 9.010 min Scan# 1279
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:266 Resp: 20072

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.7	76.1
268	65.6	52.5	78.7

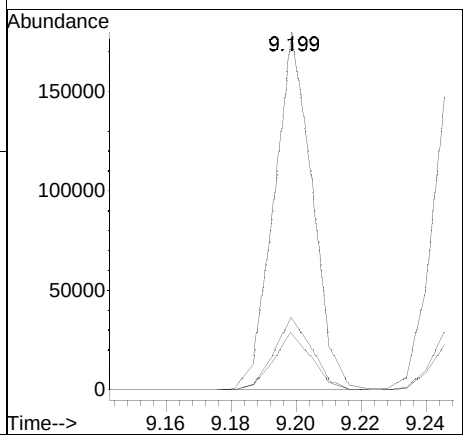


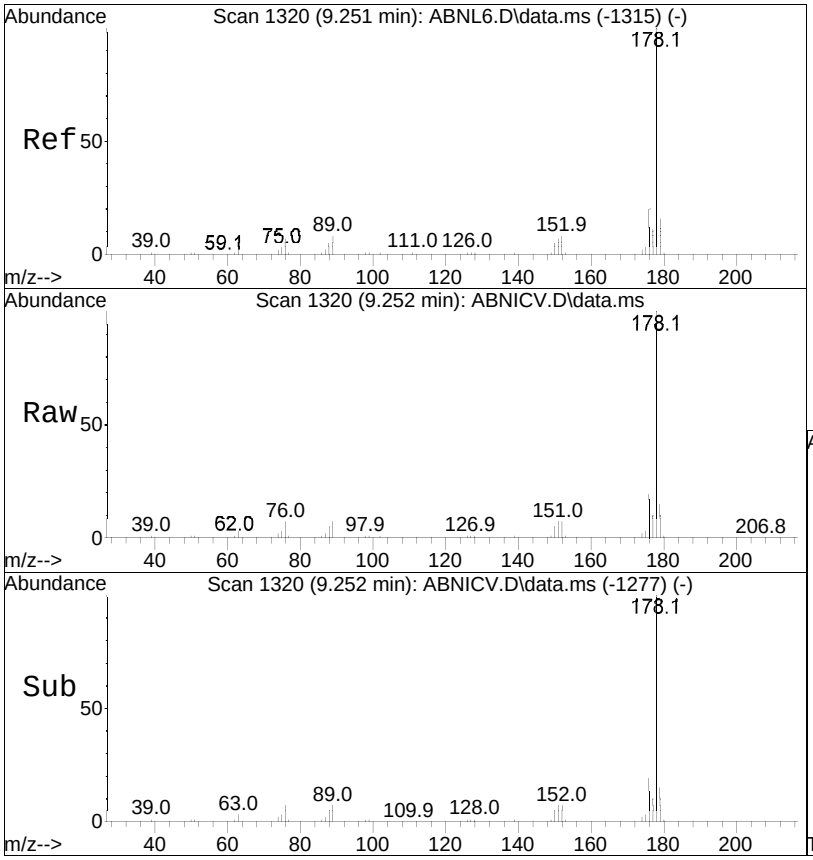


#89
Phenanthrene
Concen: 4.73 ug/ml
RT: 9.199 min Scan# 1311
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:178 Resp: 146237

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	20.0	15.4	23.2

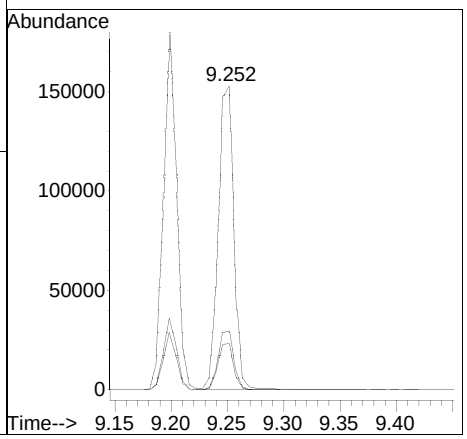


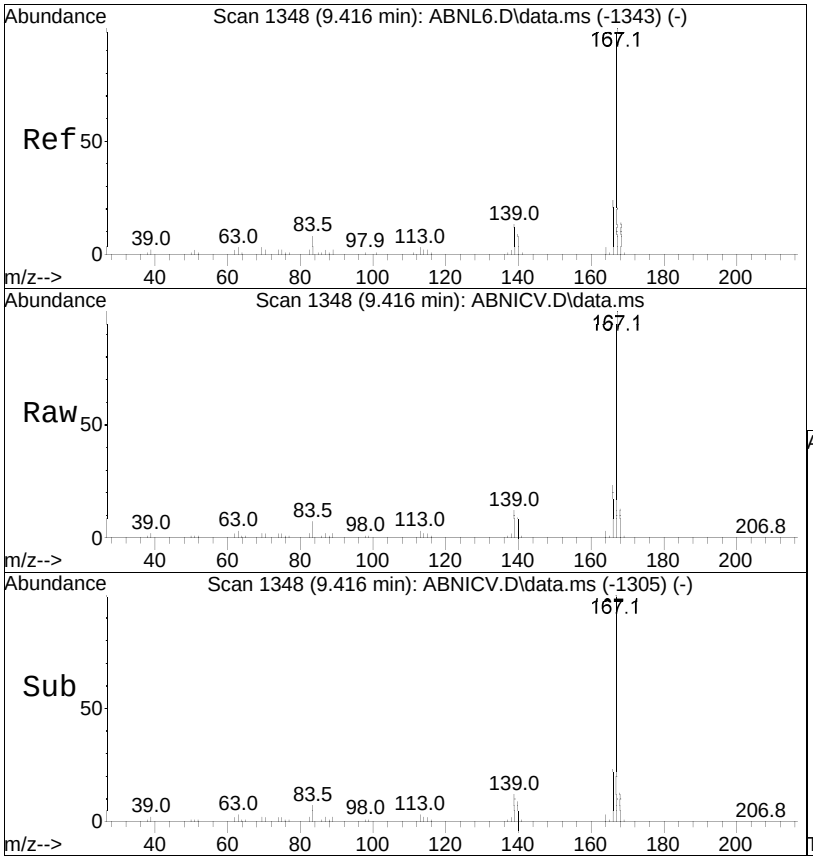


#90
Anthracene
Concen: 4.88 ug/ml
RT: 9.252 min Scan# 1320
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:178 Resp: 147689

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.5	15.1	22.7

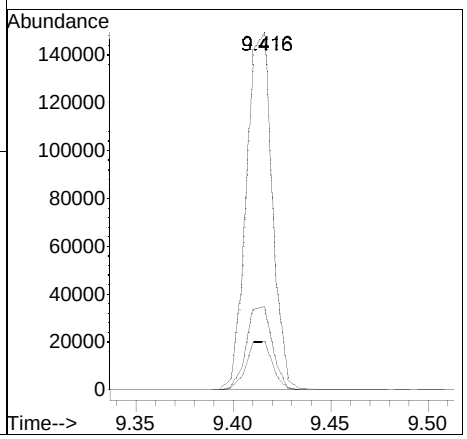


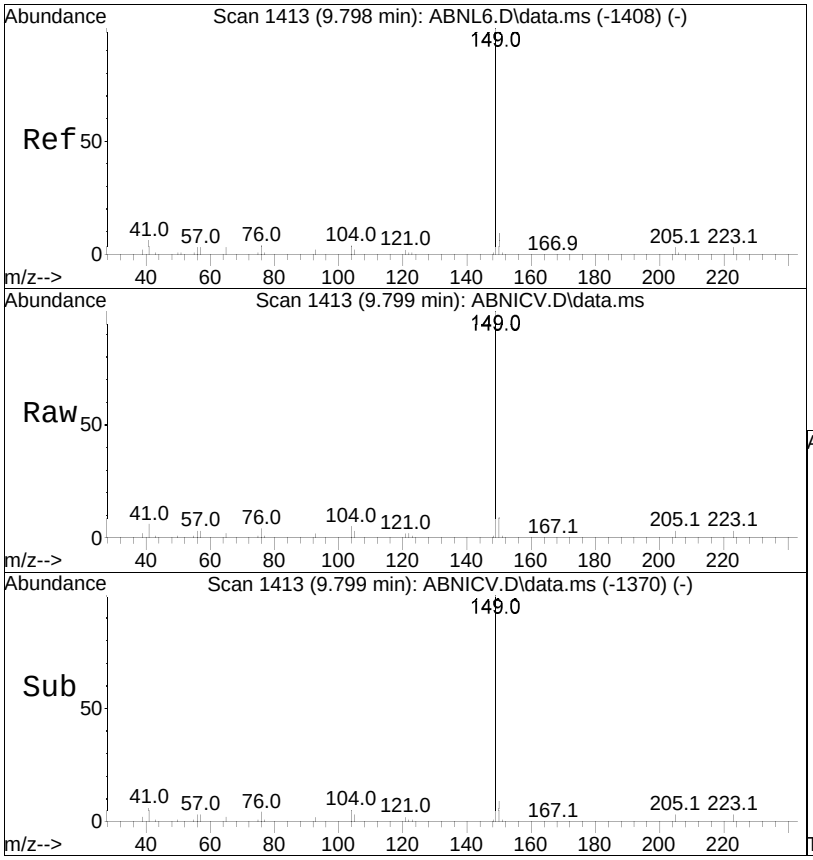


#91
Carbazole
Concen: 4.94 ug/ml
RT: 9.416 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:167 Resp: 136779

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	23.4	17.7	26.5

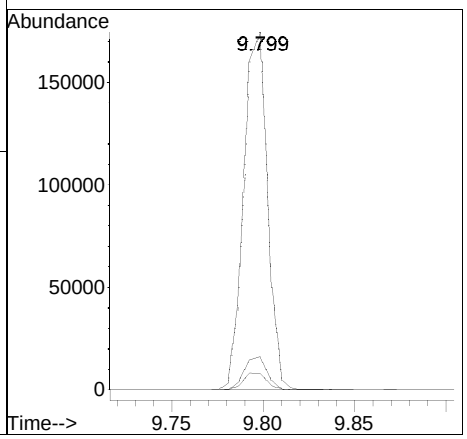


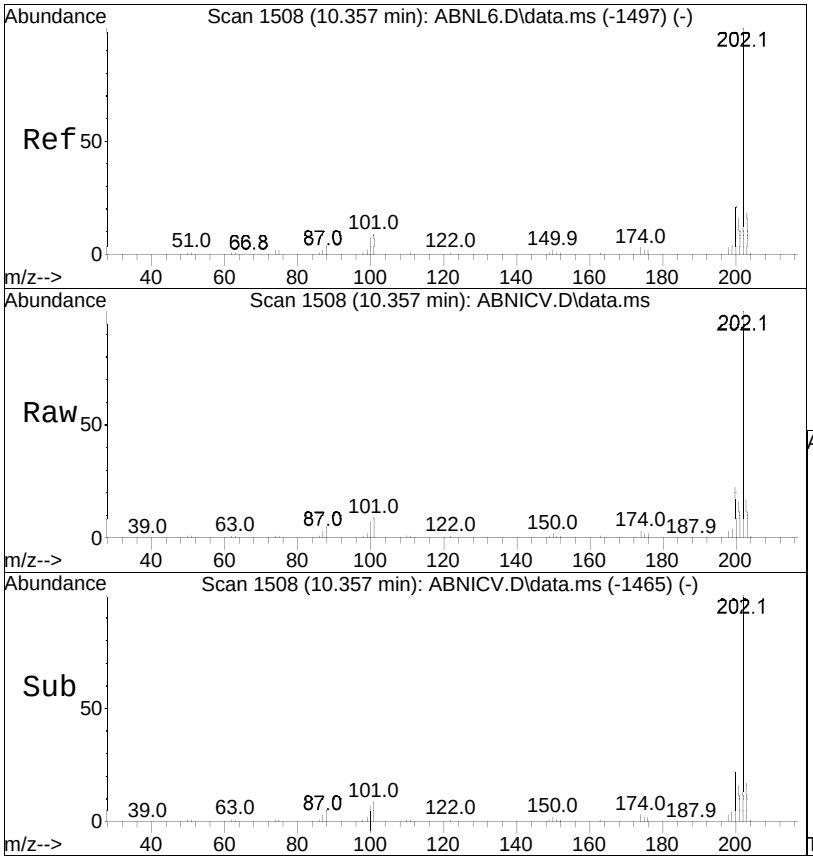


#92
Di-n-butylphthalate
Concen: 5.16 ug/ml
RT: 9.799 min Scan# 1413
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 155812

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.9	4.0	6.0

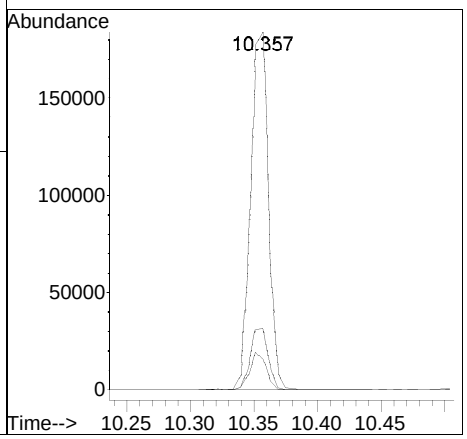


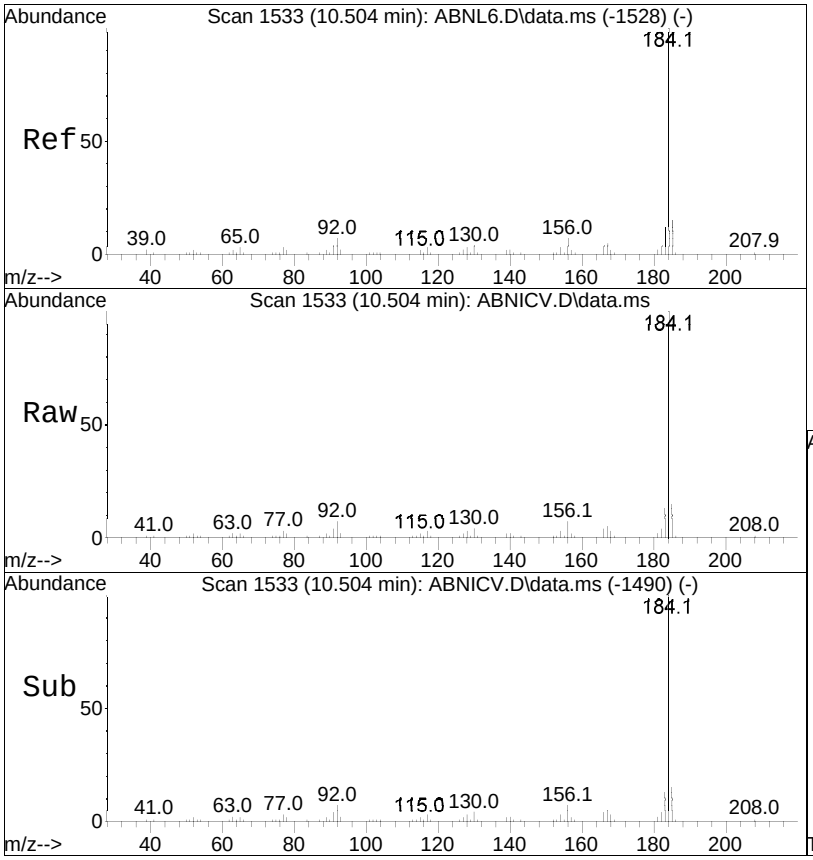


#93
Fluoranthene
Concen: 4.97 ug/ml M3
RT: 10.357 min Scan# 1508
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:202 Resp: 178241

Ion	Ratio	Lower	Upper
202	100		
101	12.5	11.2	16.8
203	19.1	13.7	20.5

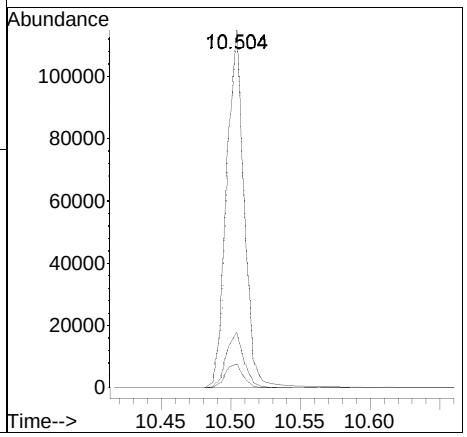


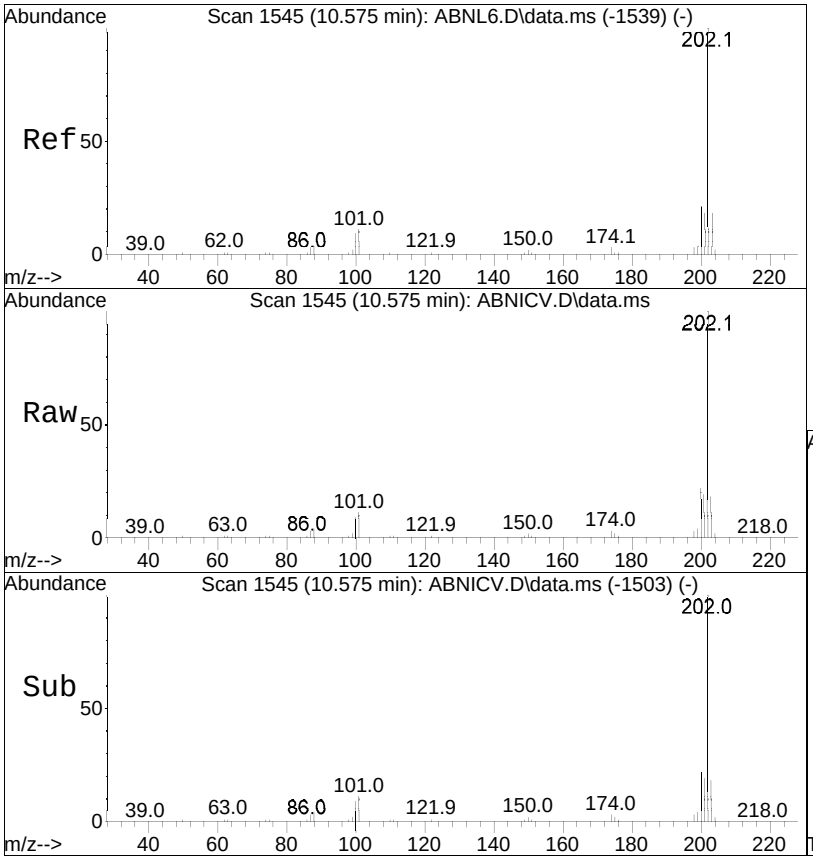


#94
Benzidine
Concen: 5.07 ug/ml
RT: 10.504 min Scan# 1533
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:184 Resp: 99975

Ion	Ratio	Lower	Upper
184	100		
92	6.8	7.3	10.9#
185	15.8	11.8	17.8

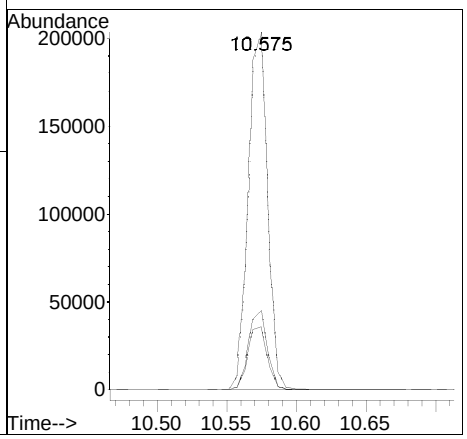


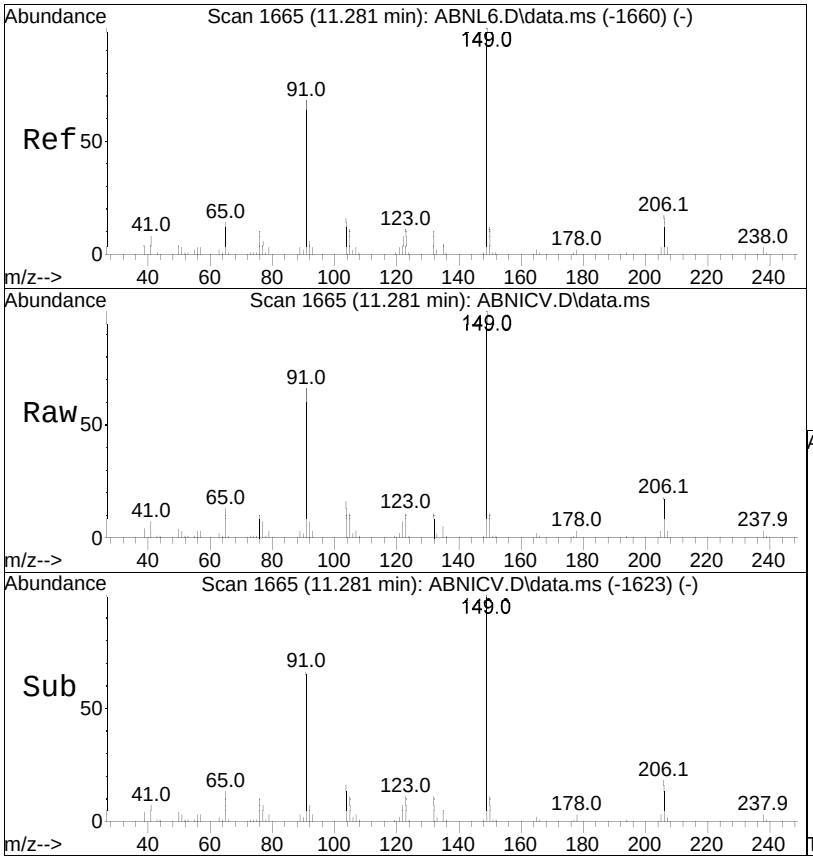


#95
Pyrene
Concen: 5.12 ug/ml
RT: 10.575 min Scan# 1545
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:202 Resp: 194546

Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.9	25.3
203	18.0	14.3	21.5

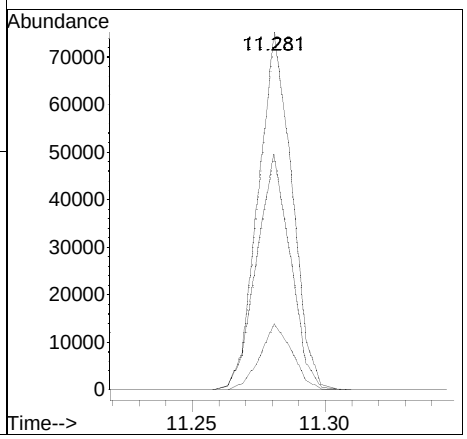


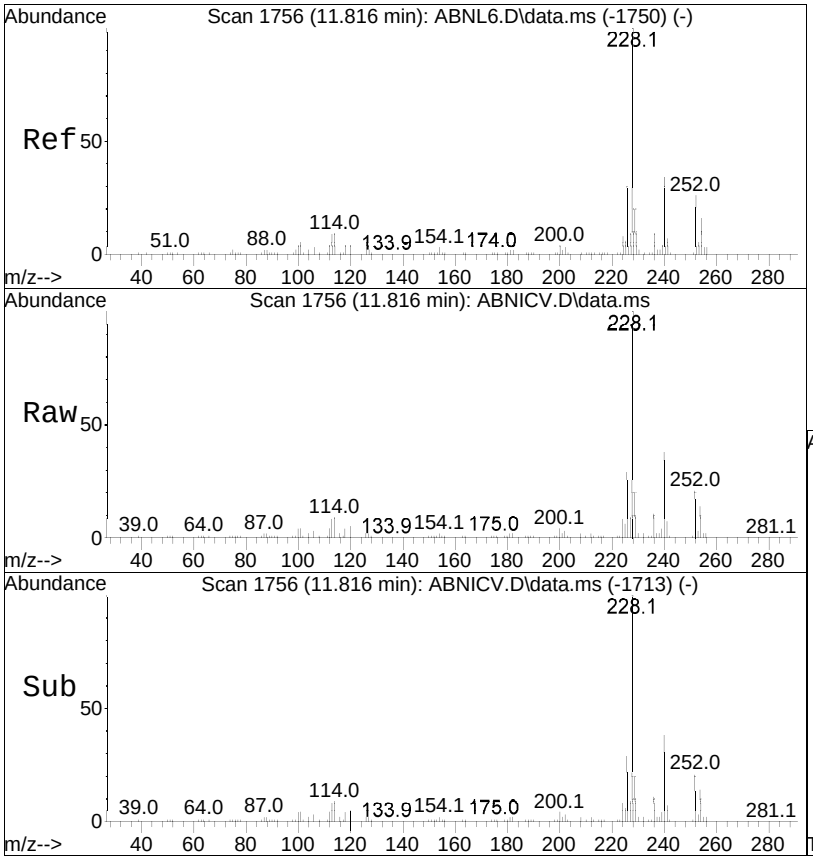


#97
Butyl benzyl phthalate
Concen: 4.89 ug/ml
RT: 11.281 min Scan# 1665
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 65418

Ion	Ratio	Lower	Upper
149	100		
91	66.4	57.9	86.9
206	17.7	11.9	17.9

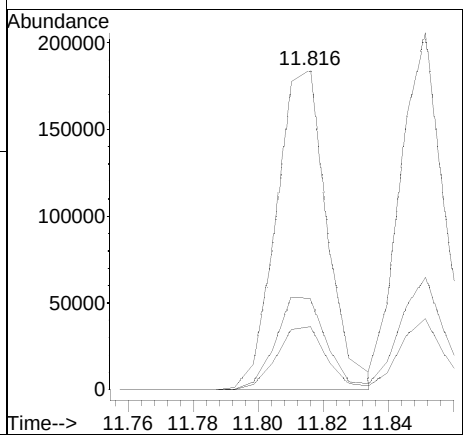


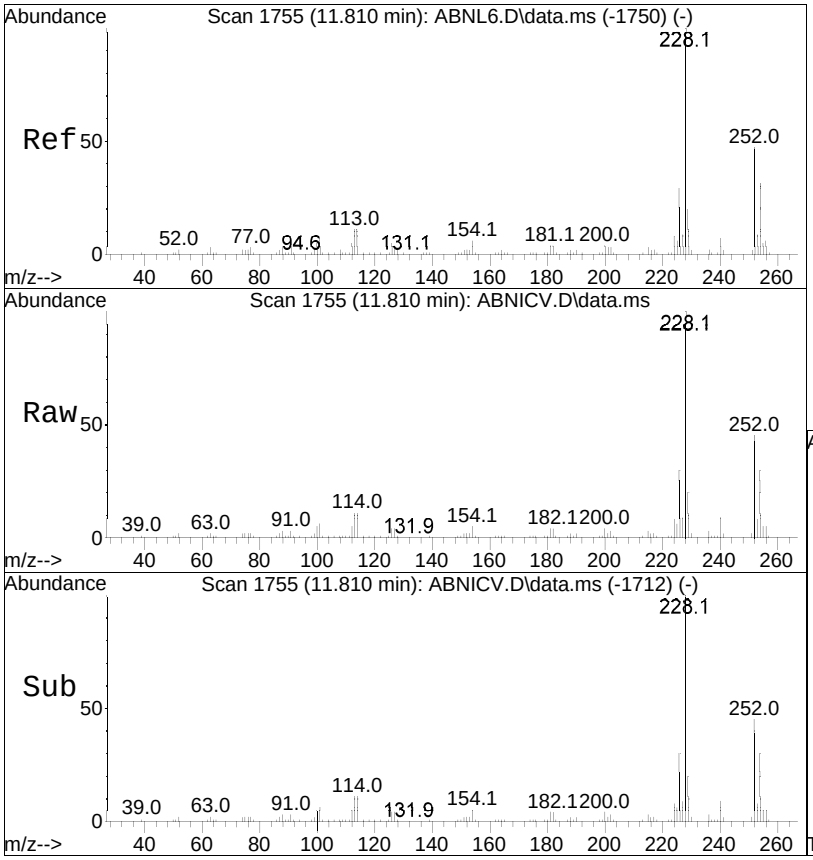


#105
Benzo(a)anthracene
Concen: 4.86 ug/ml
RT: 11.816 min Scan# 1756
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:228 Resp: 199667

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.6	34.0
229	19.6	15.8	23.6

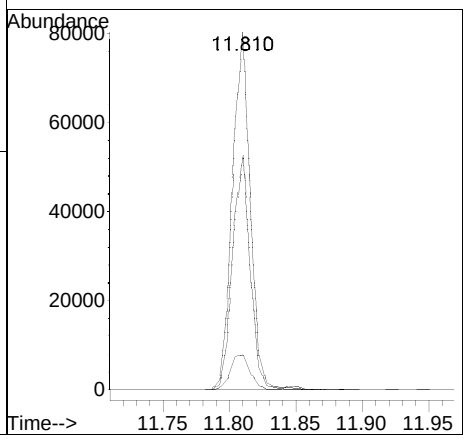


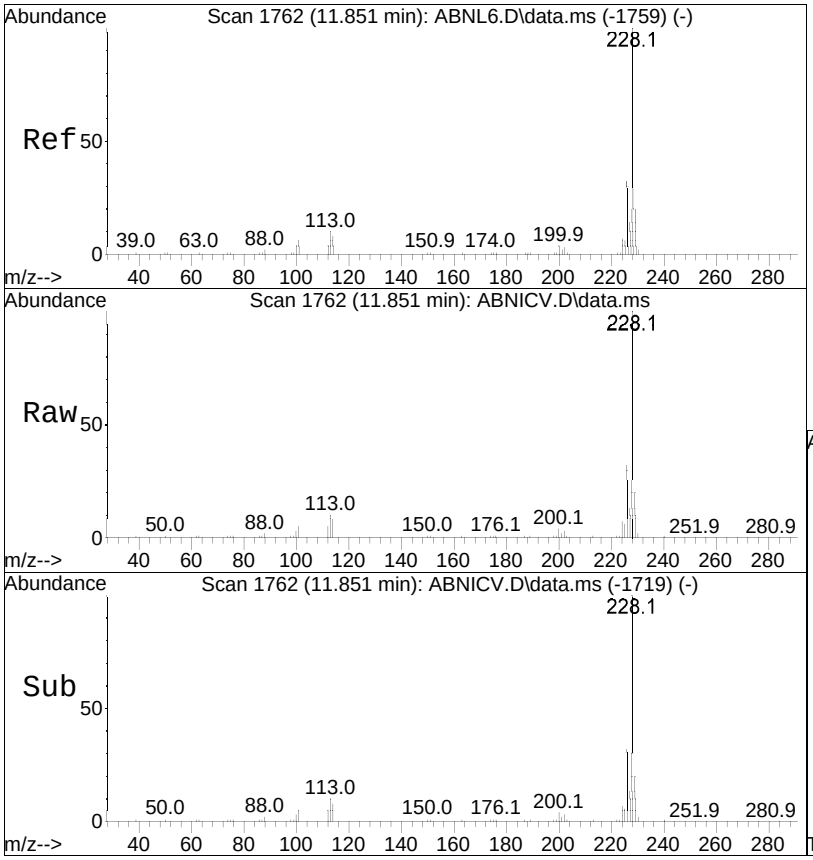


#106
3,3'-Dichlorobenzidine
Concen: 4.98 ug/ml
RT: 11.810 min Scan# 1755
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 74502

Ion	Ratio	Lower	Upper
252	100		
126	11.0	12.6	19.0#
254	64.6	51.1	76.7

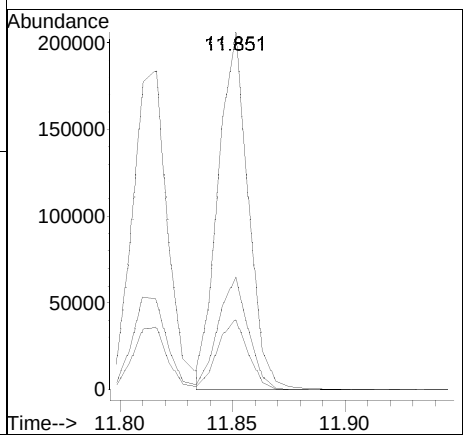


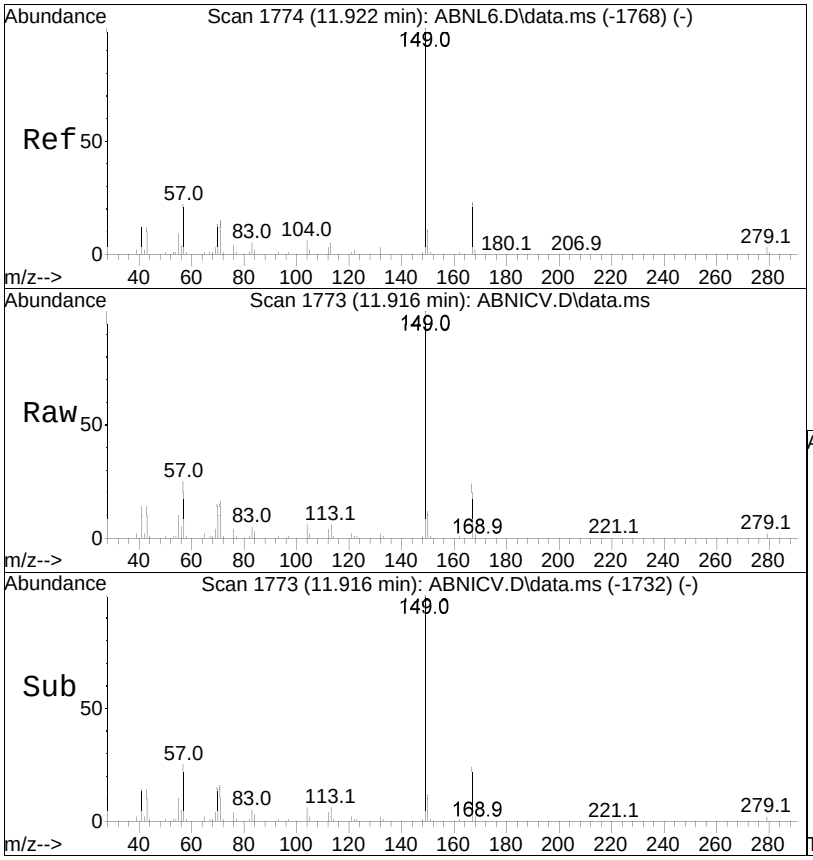


#107
Chrysene
Concen: 4.78 ug/ml
RT: 11.851 min Scan# 1762
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:228 Resp: 192294

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.7	37.1
229	20.0	15.5	23.3

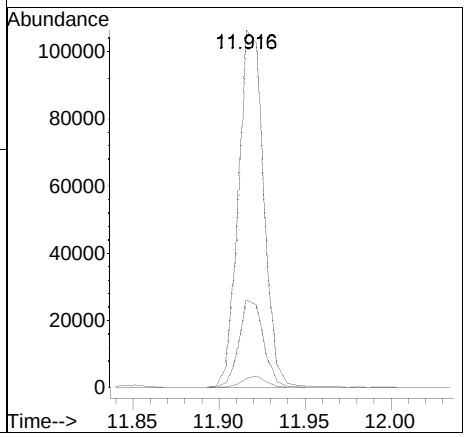


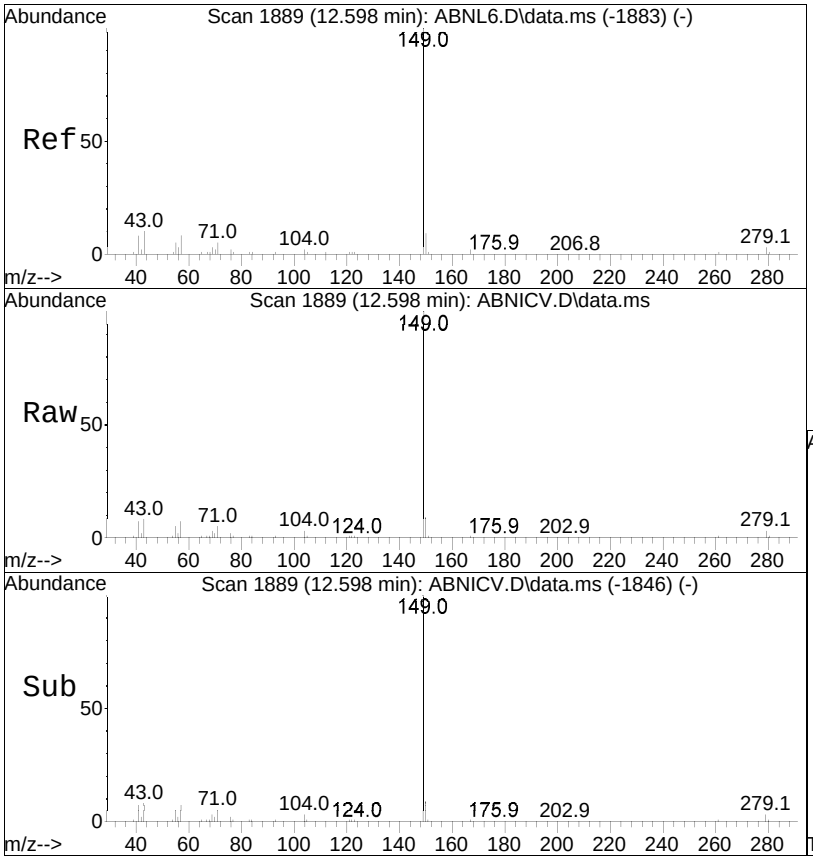


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.26 ug/ml
RT: 11.916 min Scan# 1773
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 107331

Ion	Ratio	Lower	Upper
149	100		
167	23.9	18.4	27.6
279	2.8	1.7	2.5#

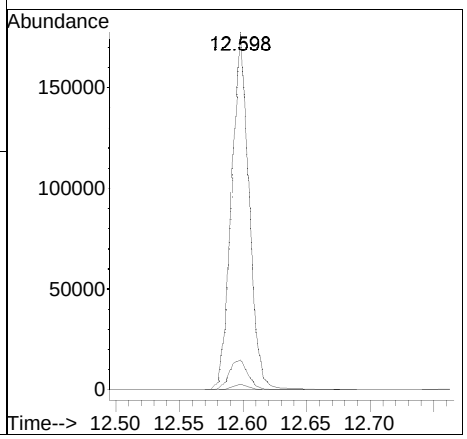


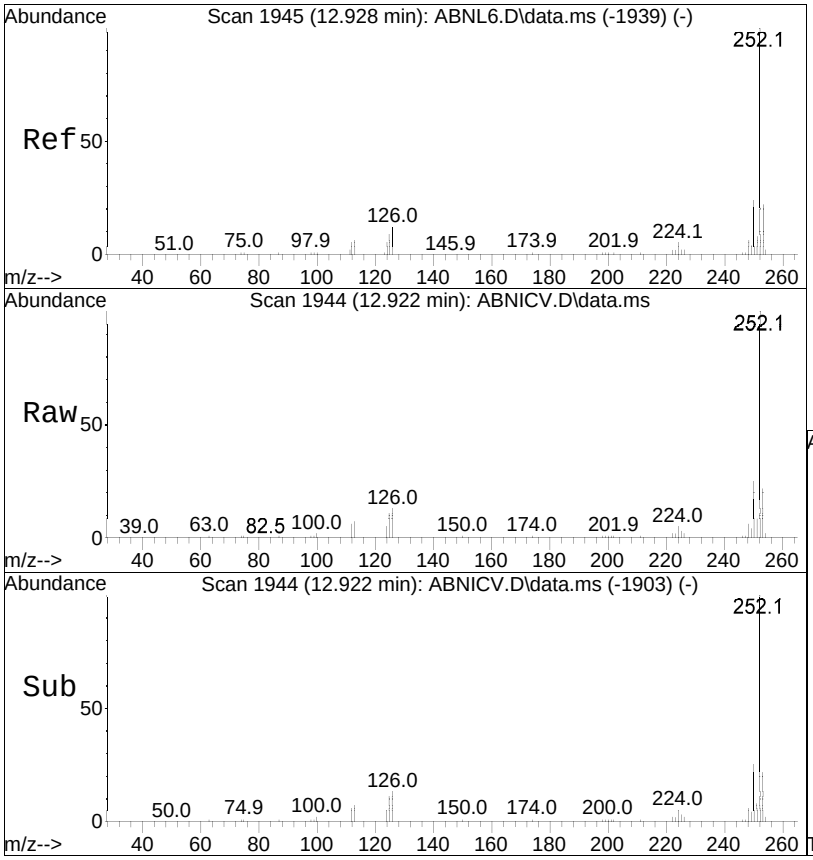


#109
Di-n-octylphthalate
Concen: 5.33 ug/ml
RT: 12.598 min Scan# 1889
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:149 Resp: 166682

Ion	Ratio	Lower	Upper
149	100		
43	9.1	8.2	12.2
167	1.4	1.1	1.7

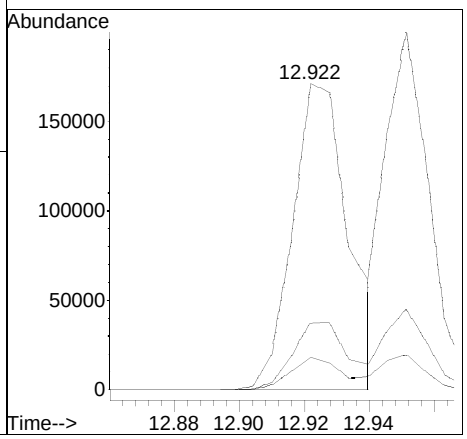


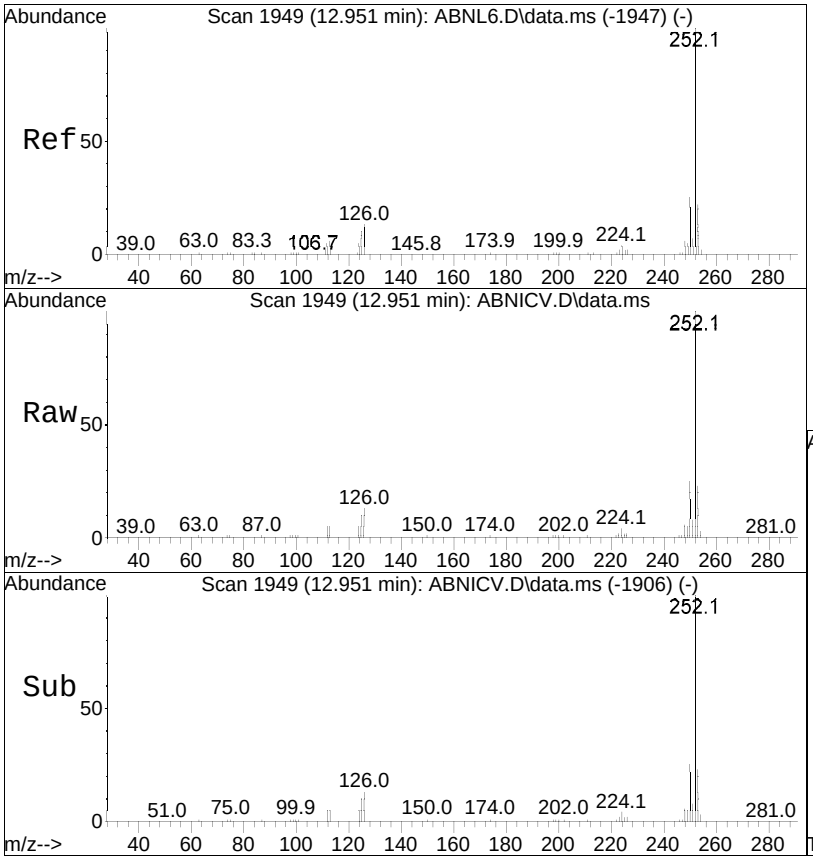


#110
Benzo(b)fluoranthene
Concen: 4.90 ug/ml
RT: 12.922 min Scan# 1944
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 206155

Ion	Ratio	Lower	Upper
252	100		
125	9.1	11.3	16.9#
253	22.2	17.8	26.8

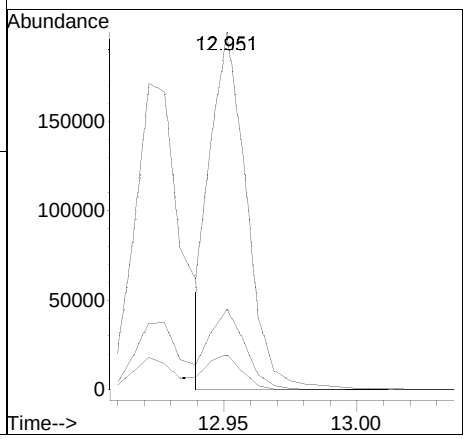


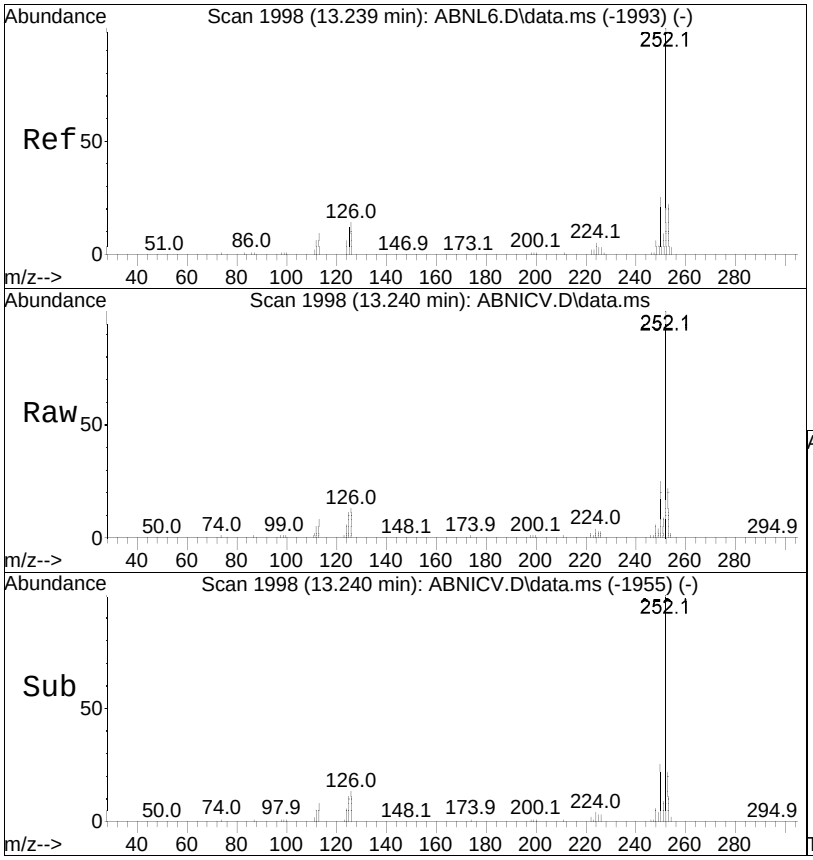


#111
Benzo(k)fluoranthene
Concen: 4.94 ug/ml M3
RT: 12.951 min Scan# 1949
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 190009

Ion	Ratio	Lower	Upper
252	100		
125	9.8	11.5	17.3#
253	24.1	17.6	26.4

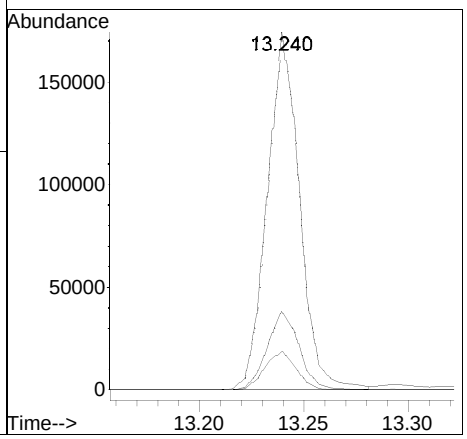


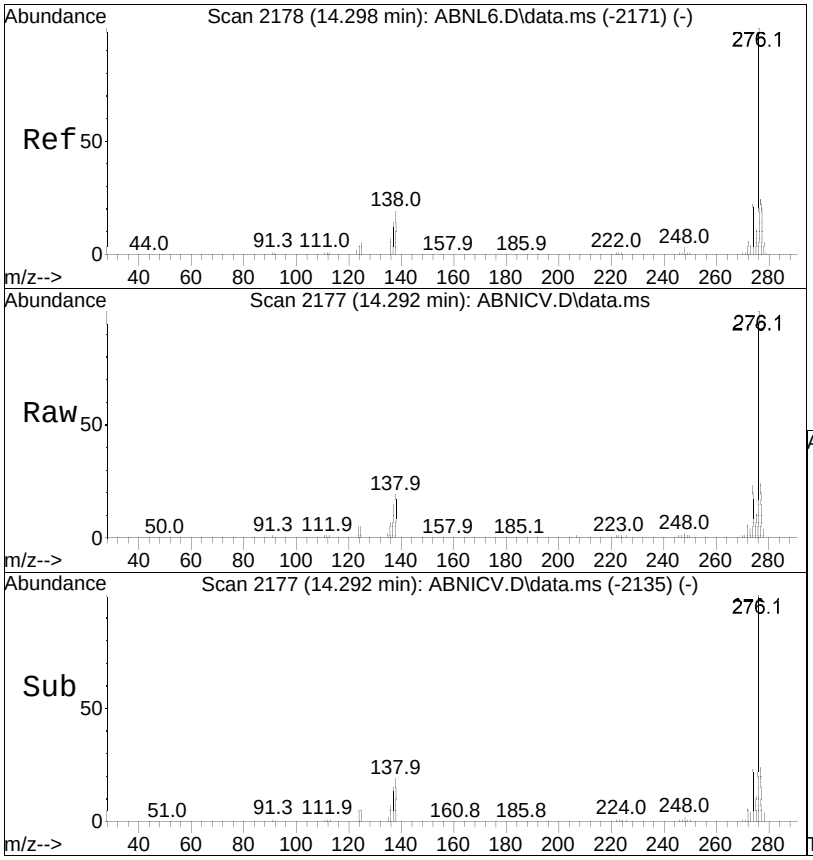


#112
Benzo(a)pyrene
Concen: 5.02 ug/ml
RT: 13.240 min Scan# 1998
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:252 Resp: 184465

Ion	Ratio	Lower	Upper
252	100		
125	11.0	12.6	18.8#
253	22.2	17.5	26.3

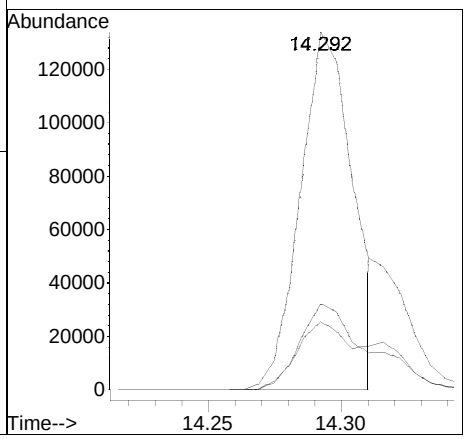


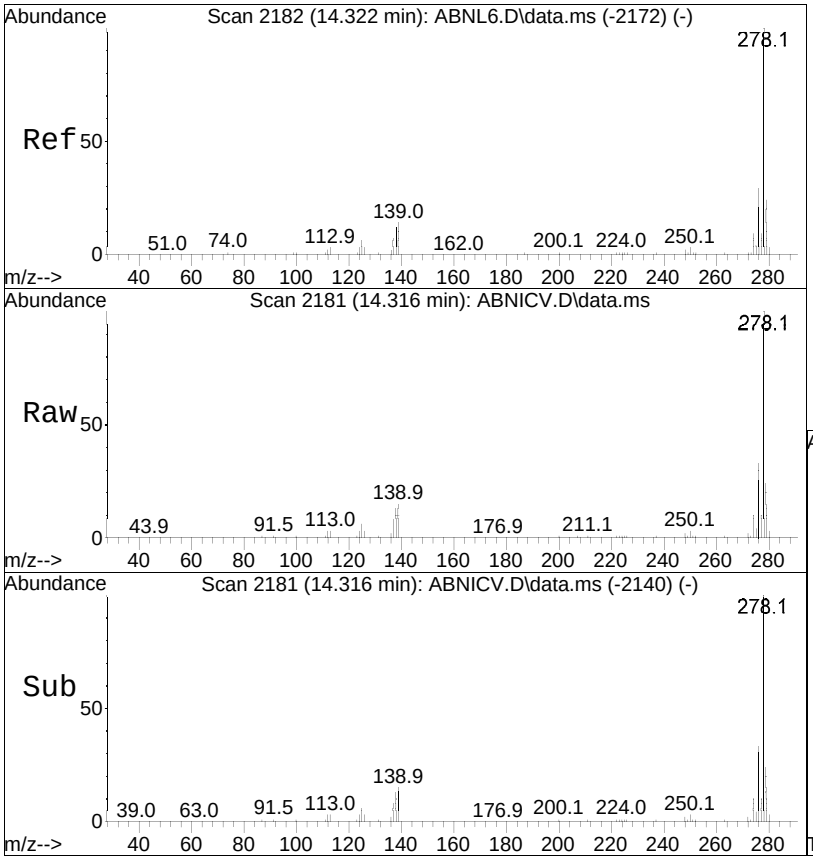


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.60 ug/mL M6
RT: 14.292 min Scan# 2177
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:276 Resp: 184779

Ion	Ratio	Lower	Upper
276	100		
138	30.3	22.1	33.1
277	32.2	19.0	28.6#

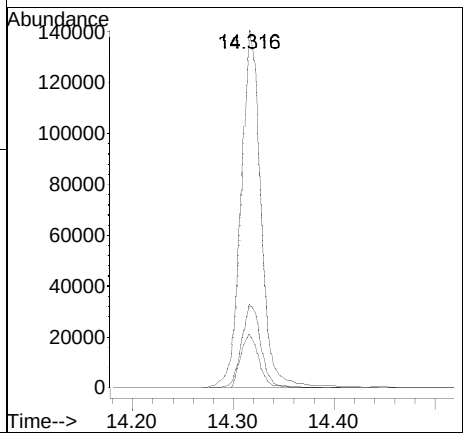


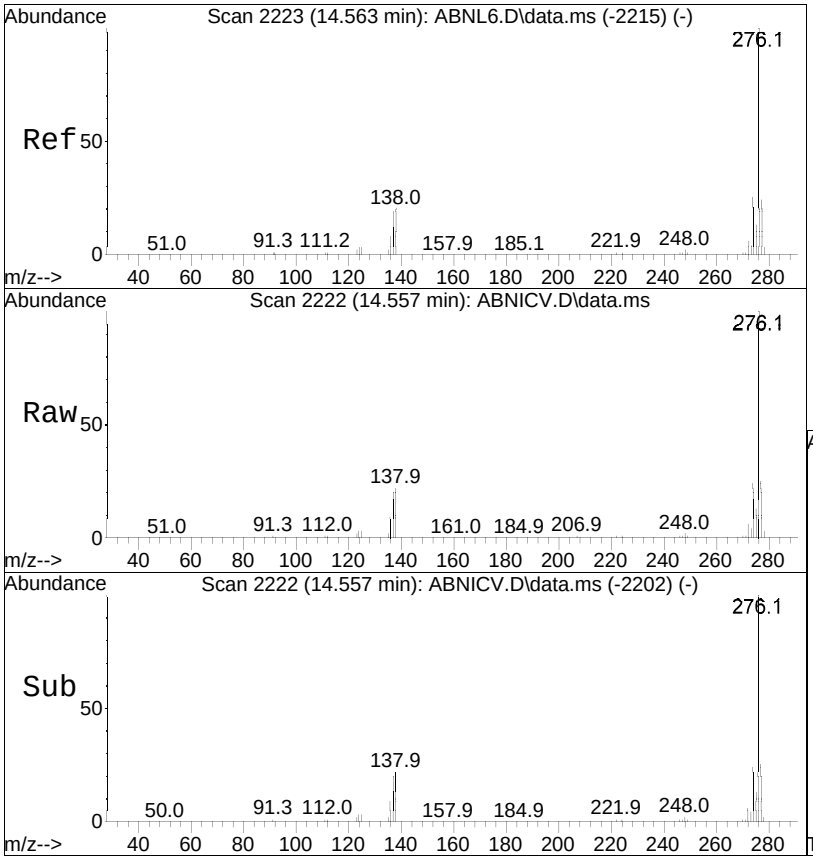


#115
Dibenzo(a,h)anthracene
Concen: 5.01 ug/ml
RT: 14.316 min Scan# 2181
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:278 Resp: 192344

Ion	Ratio	Lower	Upper
278	100		
139	14.0	17.8	26.8#
279	23.1	19.2	28.8

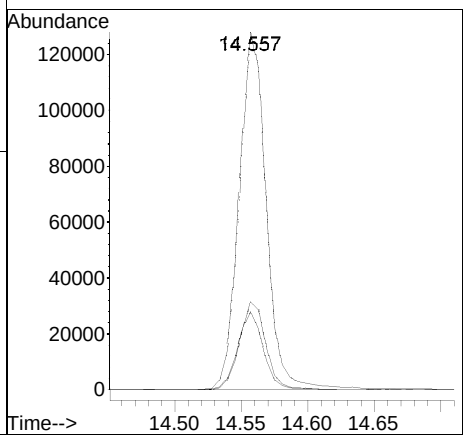




#116
Benzo(ghi)perylene
Concen: 4.62 ug/ml
RT: 14.557 min Scan# 2222
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 26 Jun 2024 03:16 am

Tgt Ion:276 Resp: 178871

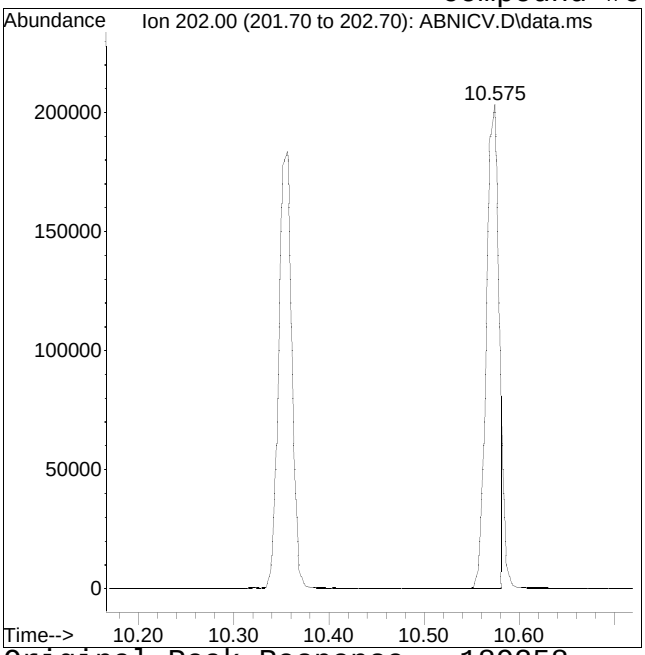
Ion	Ratio	Lower	Upper
276	100		
138	21.3	21.9	32.9#
277	24.5	18.4	27.6

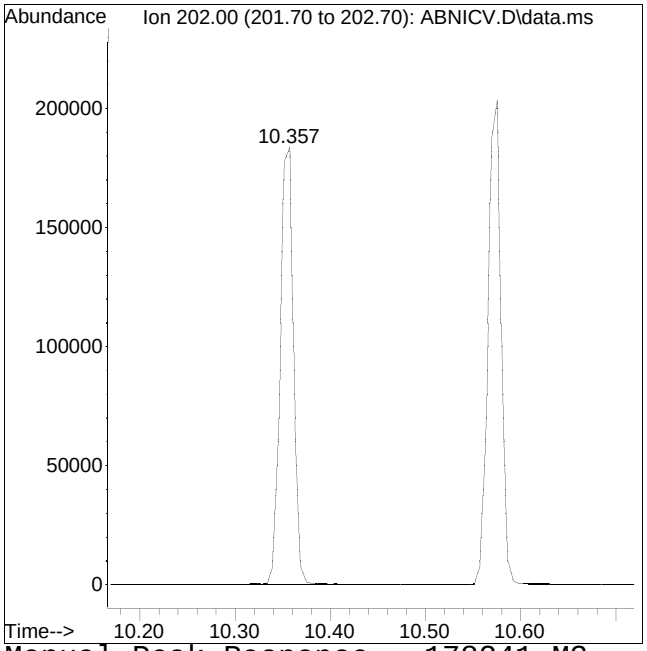


Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #93: Fluoranthene



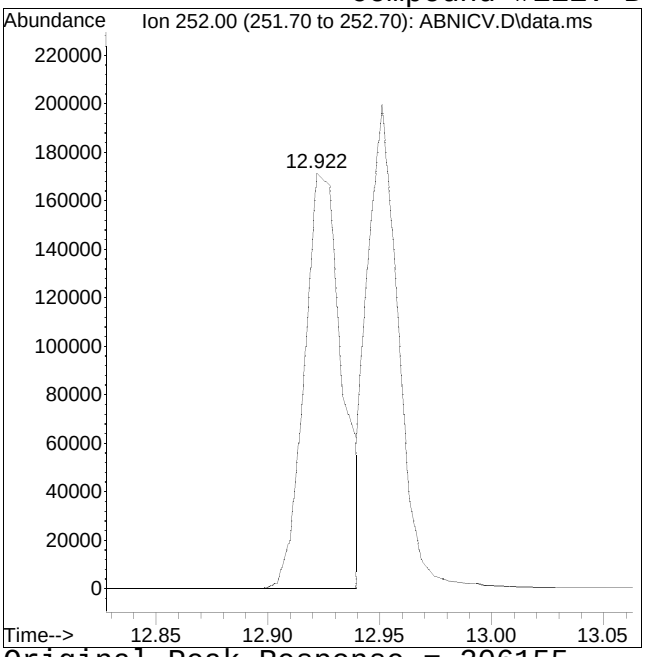


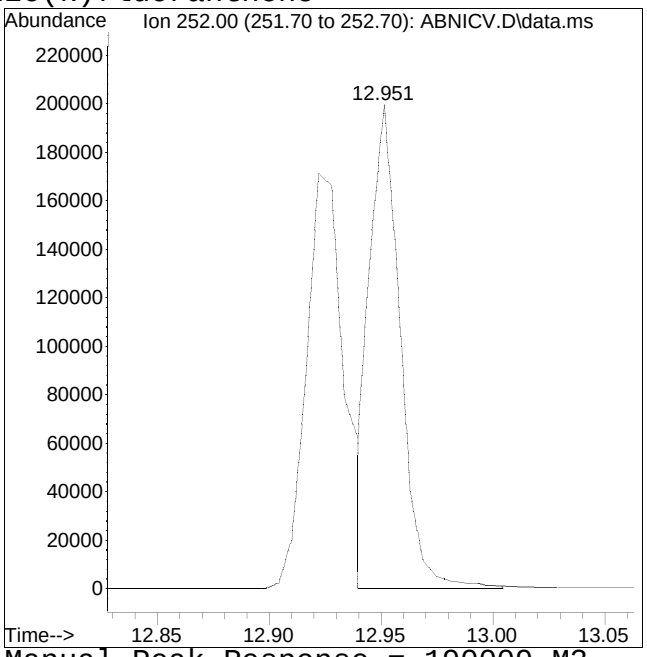
Original Peak Response = 189258 Manual Peak Response = 178241 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #111: Benzo(k)fluoranthene





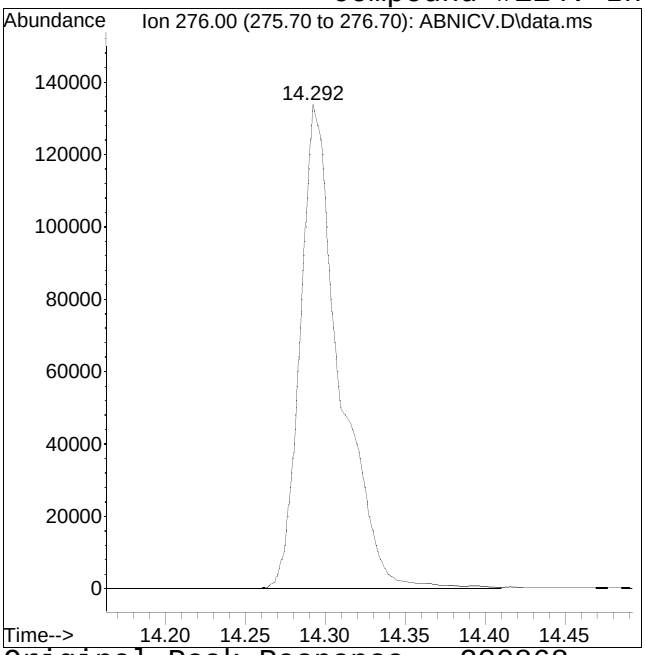
Original Peak Response = 206155 Manual Peak Response = 190009 M3

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

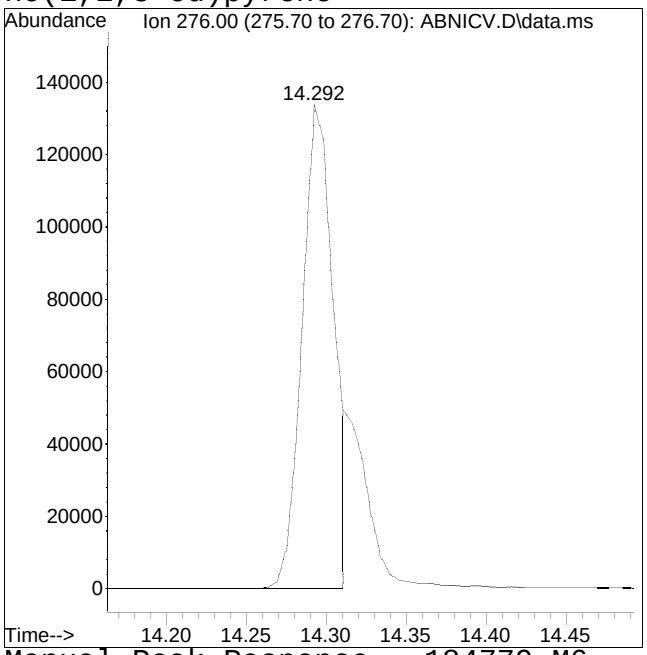
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ABNICV.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 3:16 am Instrument : SV112
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/30/2024 2:26 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 230868



Manual Peak Response = 184779 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
28	T	Benzaldehyde		1.094	1.014	7.3	86	0.00
29	T	Acetophenone		1.903	1.766	7.2	81	0.00
30	T	m-Toluidine		1.828	1.725	5.6	83	0.00
31	T	2-Chloroaniline		1.742	1.622	6.9	83	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	86	0.00
56	T	a-Terpineol		0.277	0.261	5.8	81	0.00
57	T	3-Chloroaniline		0.150	0.136	9.3	78	0.00
58	T	2,6-Dichlorophenol		0.326	0.310	4.9	80	0.00
59	T	1-chloro-2-nitrobenzene		0.143	0.138	3.5	81	0.00
60	T	Caprolactam	*	5.000	4.063	18.7	73	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.479	0.446	6.9	81	0.00
62	T	Biphenyl		1.026	0.921	10.2	78	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
84	T	Dichloran	*	5.000	3.777	24.5#	69	0.00
85	T	Pentachloronitrobenzene		0.235	0.192	18.3	70	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
99	T	Diphenamid		0.515	0.462	10.3	69	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.805	152	19496	4.000	ug/ml		0.00
Standard Area 1 = 21226			Recovery = 91.85%				
55) IS2_Naphthalene-d8	6.040	136	70493	4.000	ug/ml		0.00
Standard Area 1 = 81952			Recovery = 86.02%				
83) IS2_Acenaphthene-d10	7.746	164	42386	4.000	ug/ml		0.00
Standard Area 1 = 51795			Recovery = 81.83%				
98) IS2_Phenanthrene-d10	9.175	188	93506	4.000	ug/ml	#	0.00
Standard Area 1 = 118160			Recovery = 79.14%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.369	105	24722	4.638	ug/ml		99
29) Acetophenone	5.199	105	43034	4.639	ug/ml		97
30) m-Toluidine	5.281	106	42038	4.718	ug/ml		97
31) 2-Chloroaniline	5.646	127	39533	4.657	ug/ml		97
56) a-Terpineol	6.093	59	23032	4.714	ug/ml		94
57) 3-Chloroaniline	6.105	65	11948	4.514	ug/ml		86
58) 2,6-Dichlorophenol	6.134	162	27335	4.755	ug/ml	#	90
59) 1-chloro-2-nitrobenzene	6.387	111	12170	4.821	ug/ml		95
60) Caprolactam	6.416	55	11582	4.063	ug/ml		89
61) 1,2,4,5-Tetrachloroben...	6.904	216	39341	4.659	ug/ml	#	94
62) Biphenyl	7.199	154	81125	4.485	ug/ml		98
84) Dichloran	8.869	206	8814	3.777	ug/ml	#	73
85) Pentachloronitrobenzene	9.022	237	10155	4.082	ug/ml	#	82
99) Diphenamid	10.075	167	54038	4.489	ug/ml		84

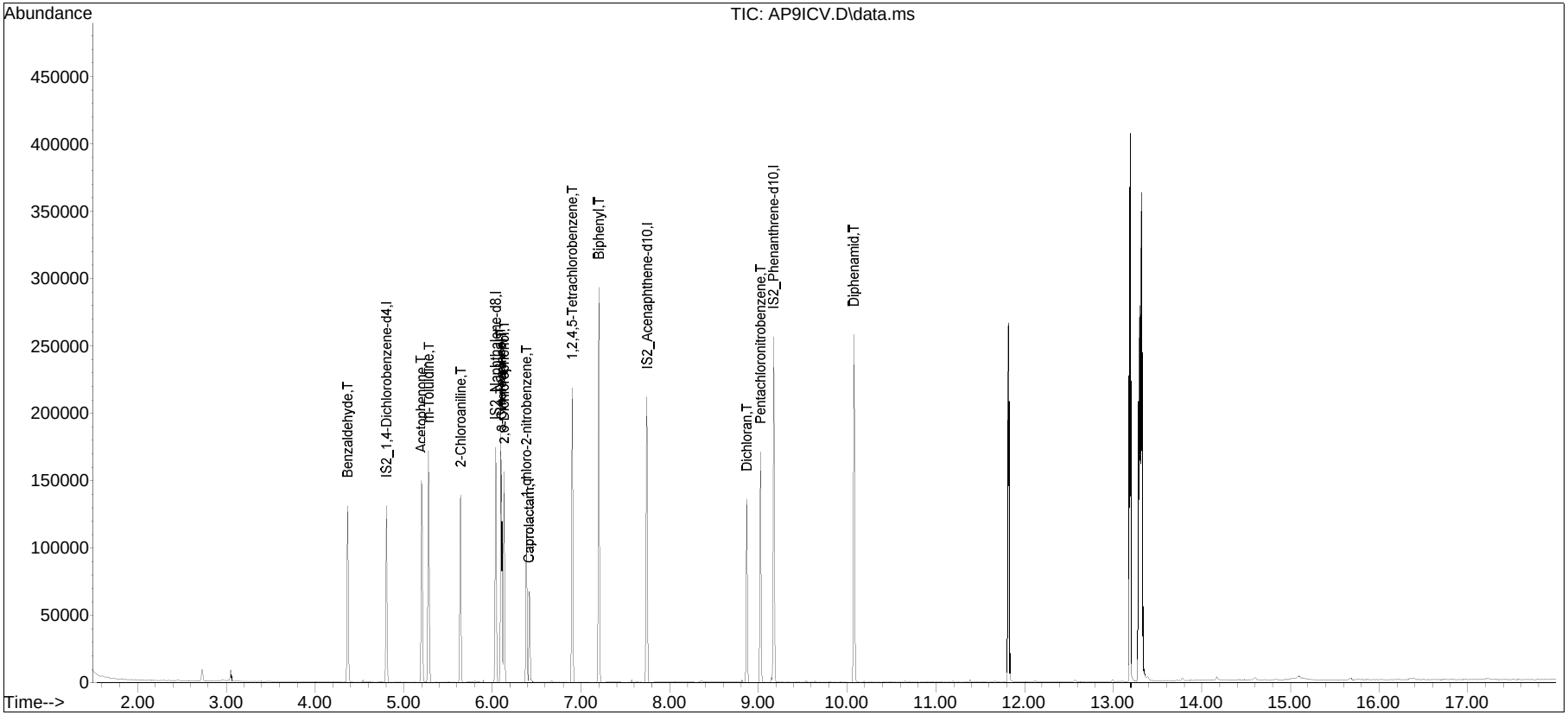
(#) = qualifier out of range (m) = manual integration (+) = signals summed

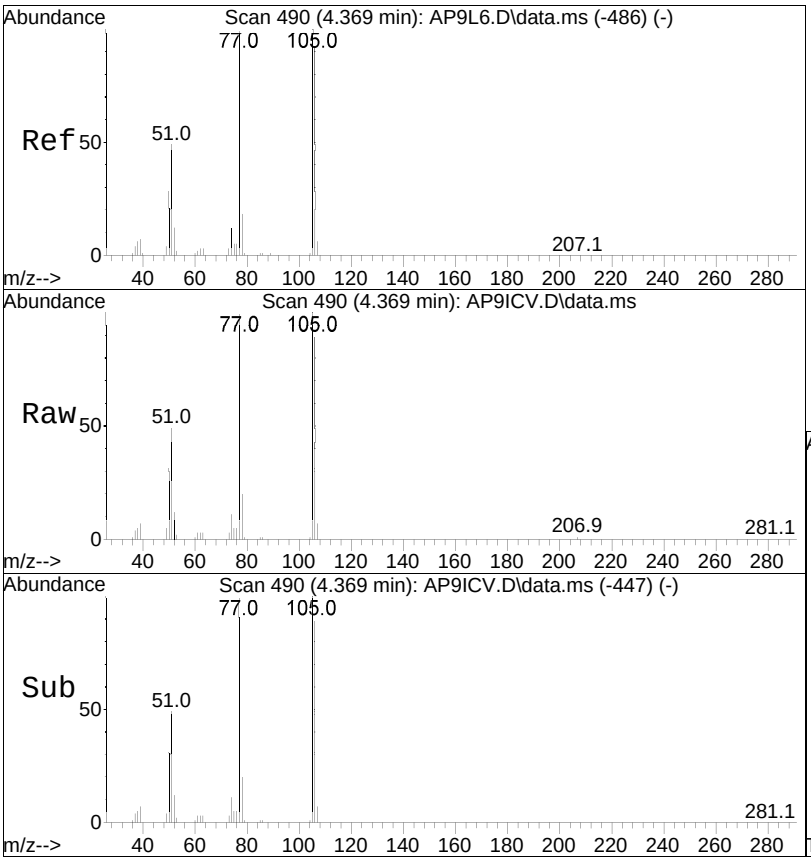
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : AP9ICV.D
Acq On : 26 Jun 2024 03:39 am
Operator : SV112:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939943
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 30 14:37:41 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 30 14:25:57 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

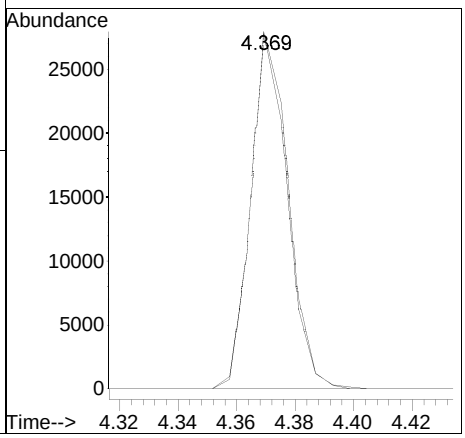


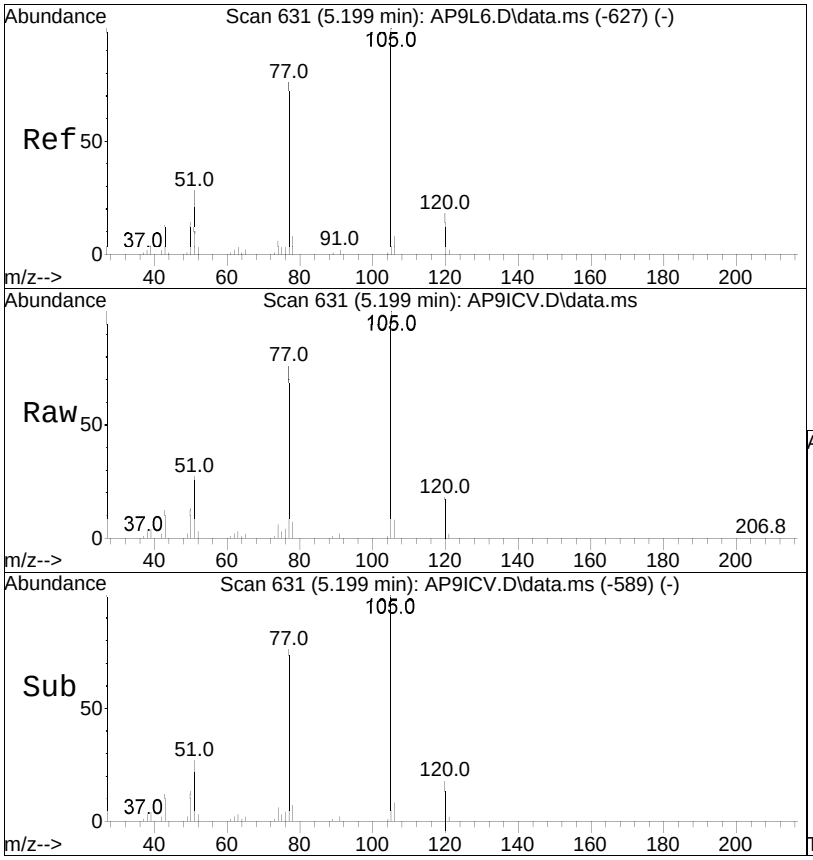


#28
Benzaldehyde
Concen: 4.64 ug/ml
RT: 4.369 min Scan# 490
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:105 Resp: 24722

Ion	Ratio	Lower	Upper
105	100		
77	97.2	77.0	115.6

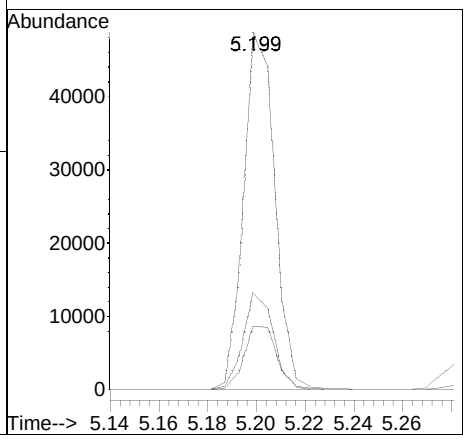


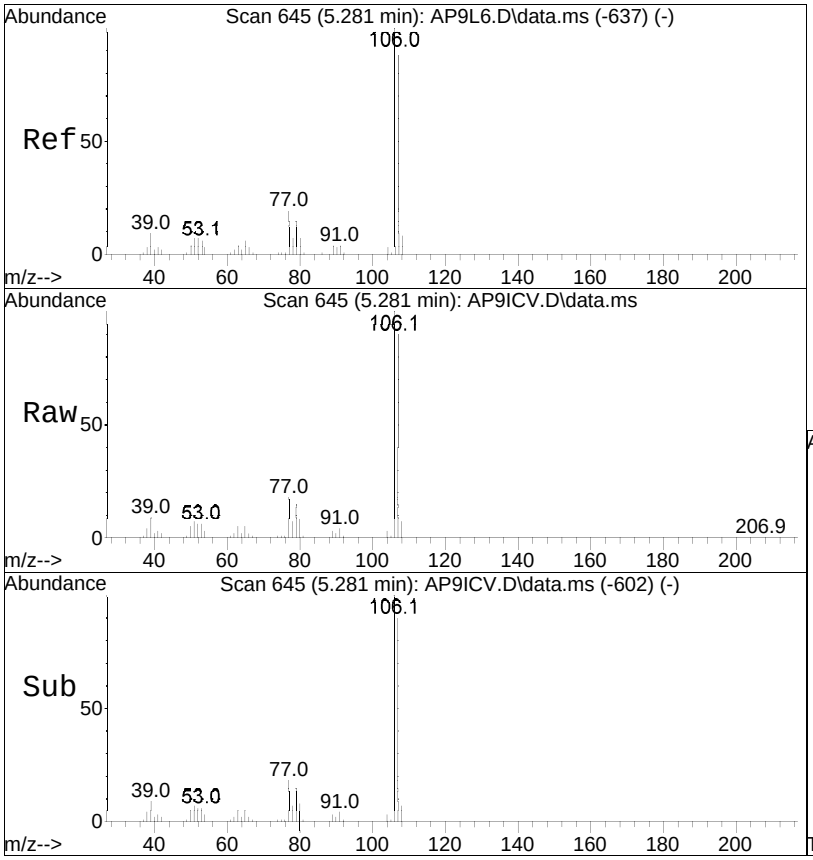


#29
Acetophenone
Concen: 4.64 ug/ml
RT: 5.199 min Scan# 631
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:105 Resp: 43034

Ion	Ratio	Lower	Upper
105	100		
120	18.5	15.2	22.8
51	26.4	23.1	34.7

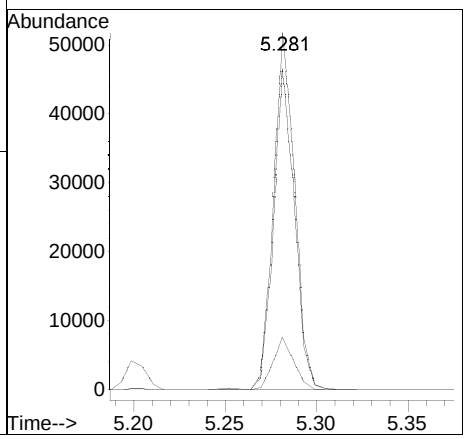


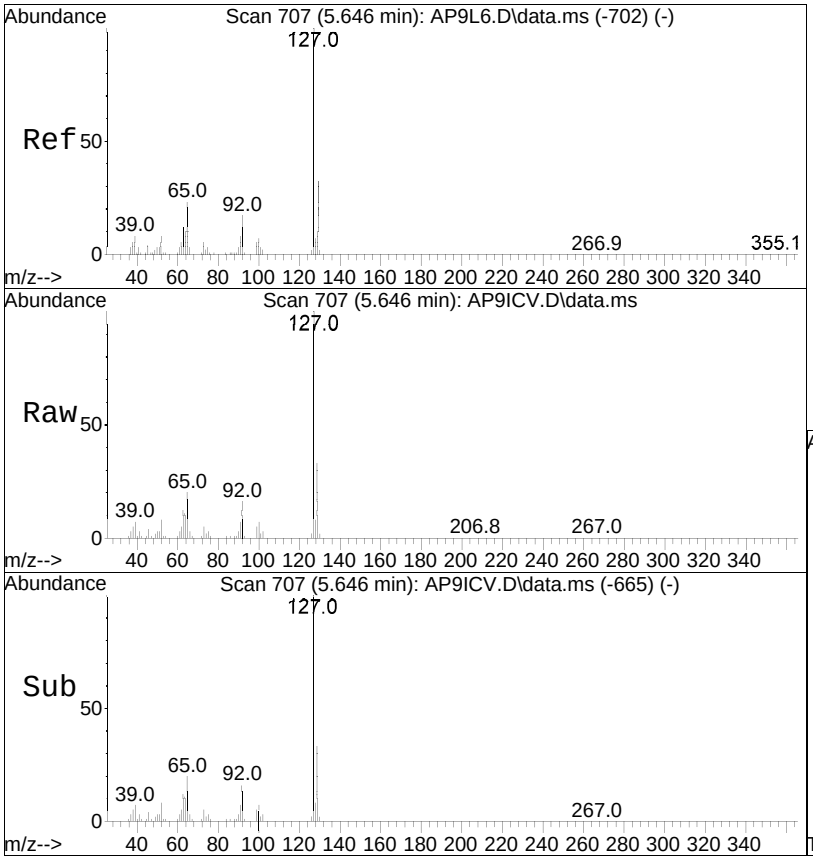


#30
m-Toluidine
Concen: 4.72 ug/ml
RT: 5.281 min Scan# 645
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:106 Resp: 42038

Ion	Ratio	Lower	Upper
106	100		
107	87.6	72.3	108.5
79	14.2	12.2	18.2

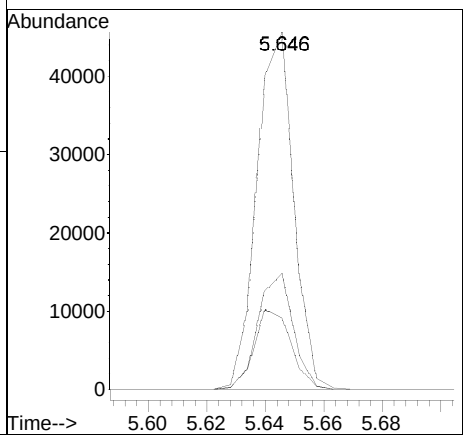


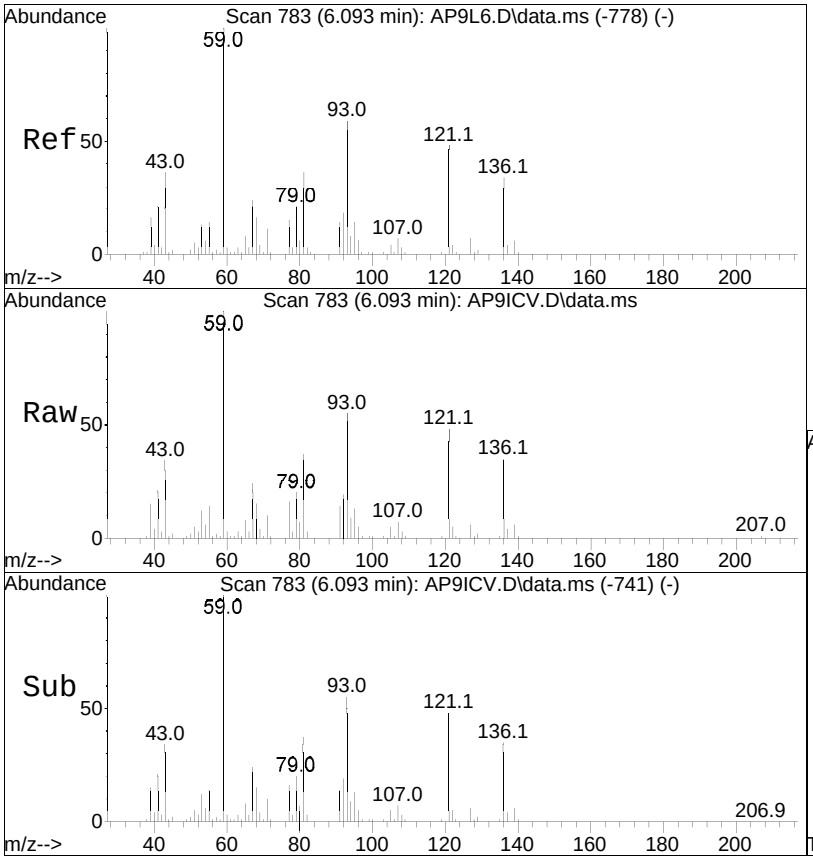


#31
2-Chloroaniline
Concen: 4.66 ug/ml
RT: 5.646 min Scan# 707
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:127 Resp: 39533

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.7	38.5
65	22.8	20.5	30.7

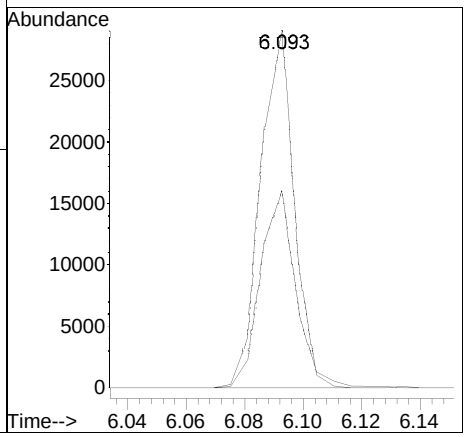


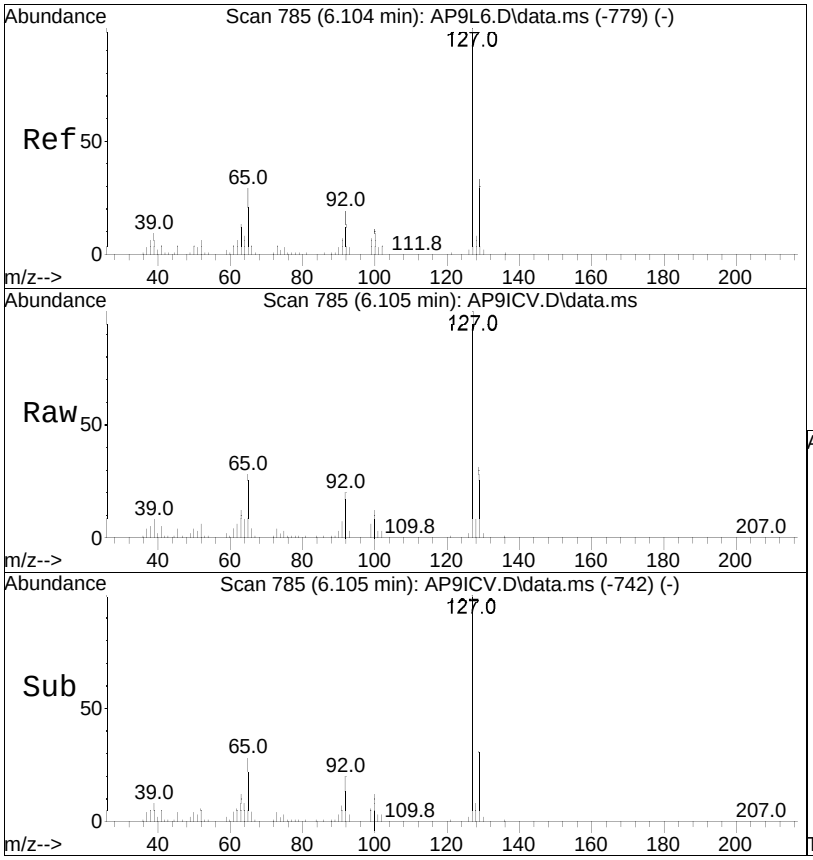


#56
a-Terpineol
Concen: 4.71 ug/ml
RT: 6.093 min Scan# 783
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 59 Resp: 23032

Ion	Ratio	Lower	Upper
59	100		
93	58.6	43.5	65.3

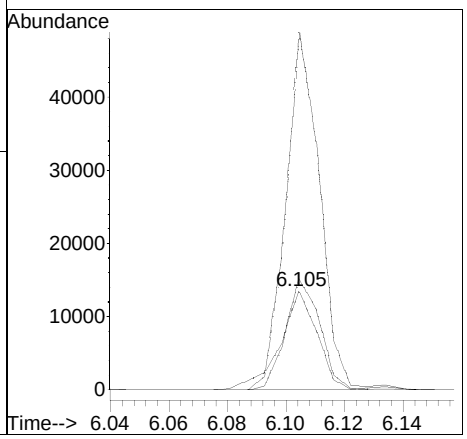


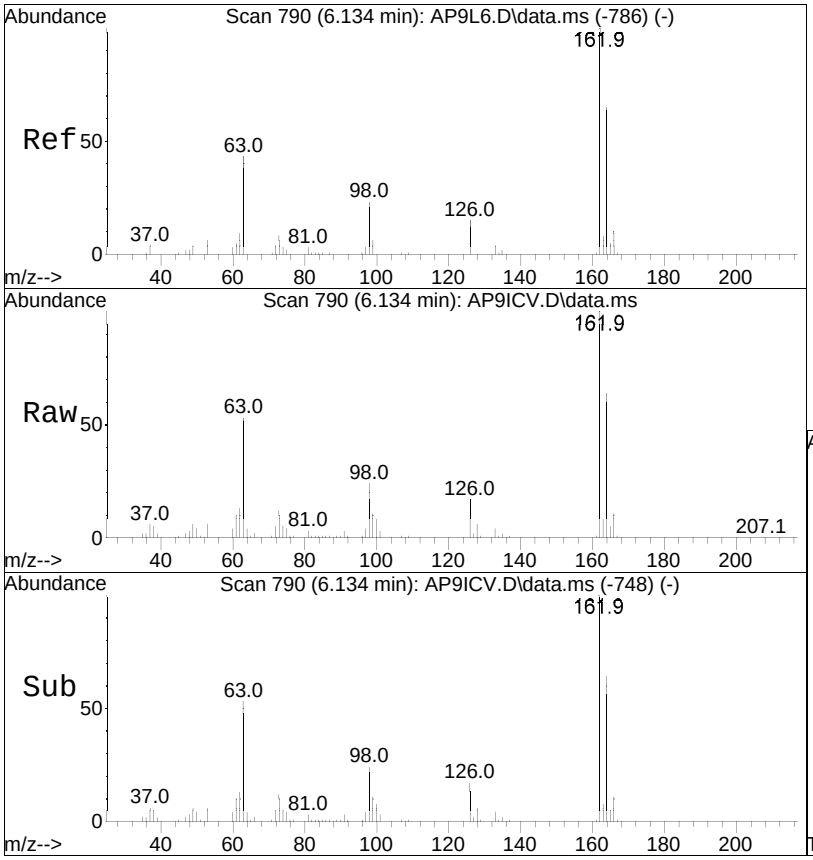


#57
3-Chloroaniline
Concen: 4.51 ug/ml
RT: 6.105 min Scan# 785
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 65 Resp: 11948

Ion	Ratio	Lower	Upper
65	100		
127	327.4	236.6	355.0
129	104.6	76.6	115.0

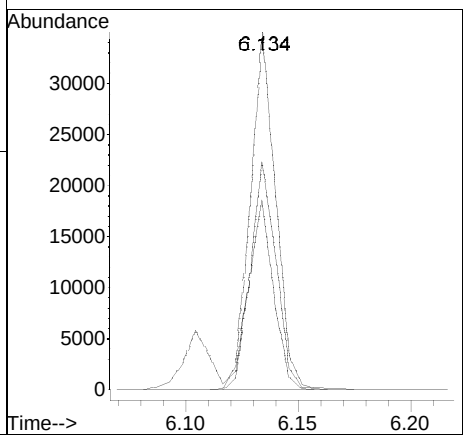


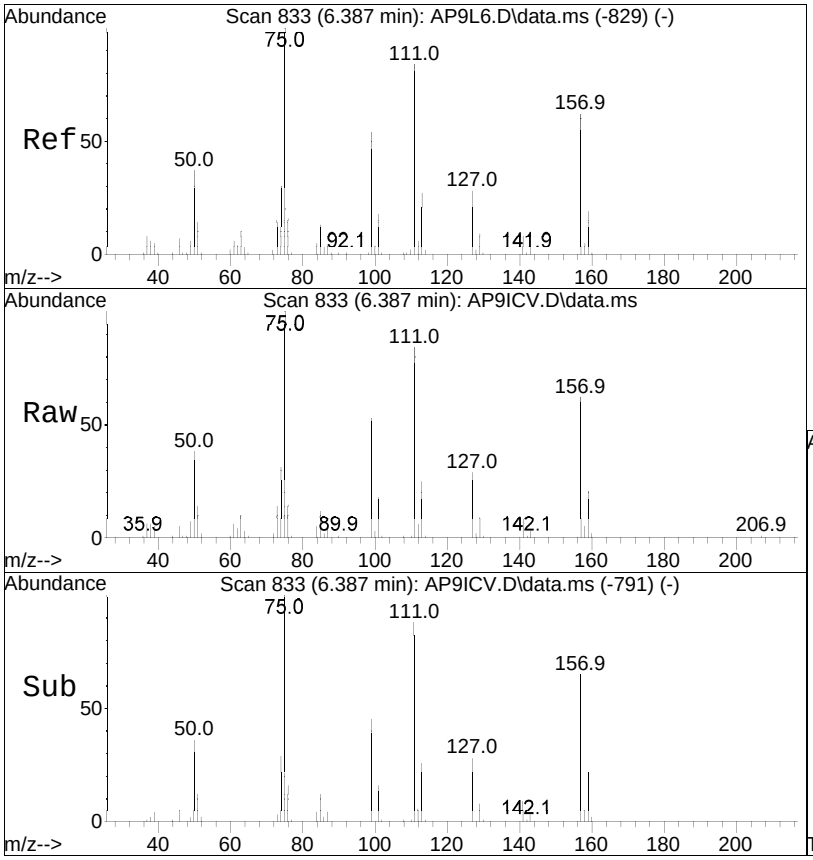


#58
2,6-Dichlorophenol
Concen: 4.76 ug/ml
RT: 6.134 min Scan# 790
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:162 Resp: 27335

Ion	Ratio	Lower	Upper
162	100		
164	64.1	50.8	76.2
63	52.1	53.6	80.4#

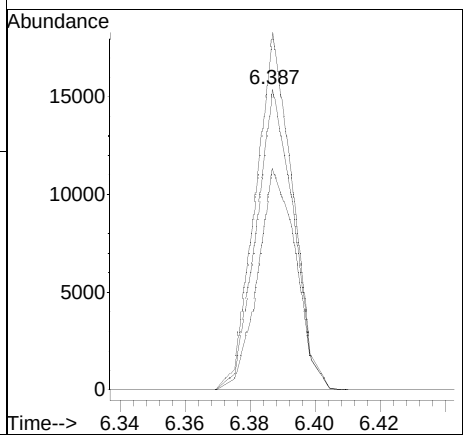


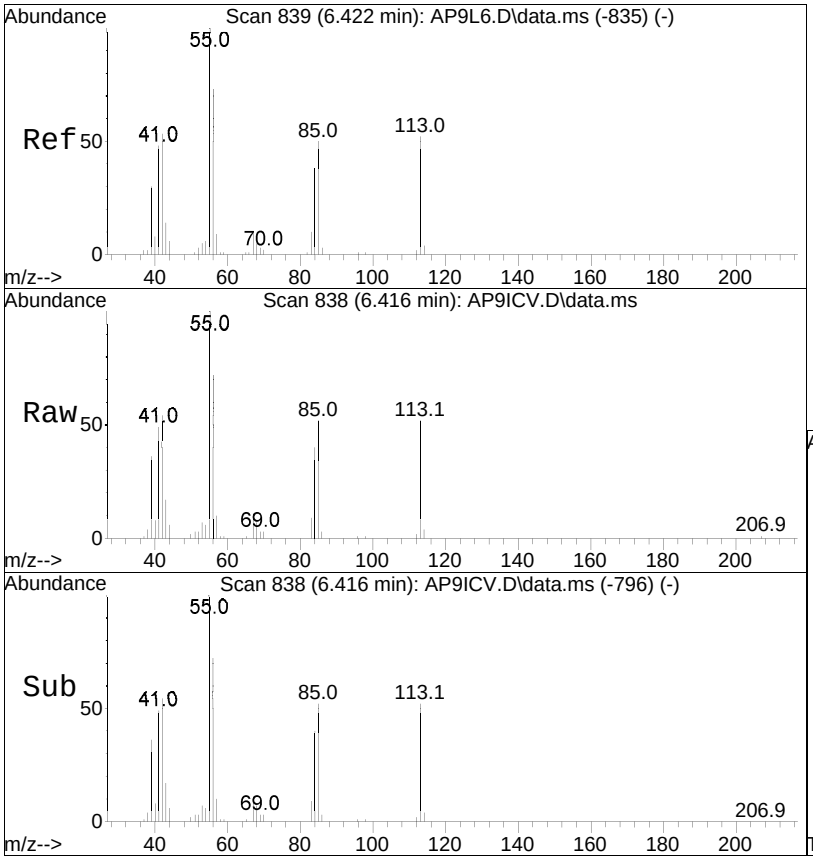


#59
1-chloro-2-nitrobenzene
Concen: 4.82 ug/ml
RT: 6.387 min Scan# 833
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:111 Resp: 12170

Ion	Ratio	Lower	Upper
111	100		
157	75.7	56.2	84.2
75	118.1	97.8	146.6

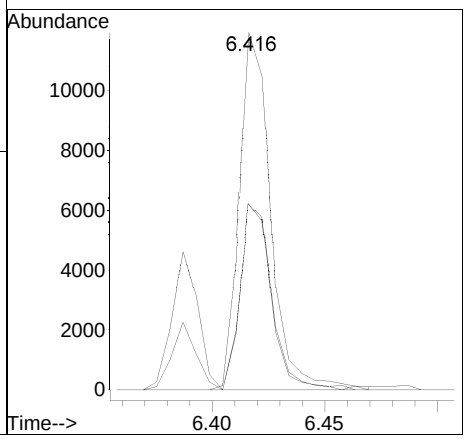


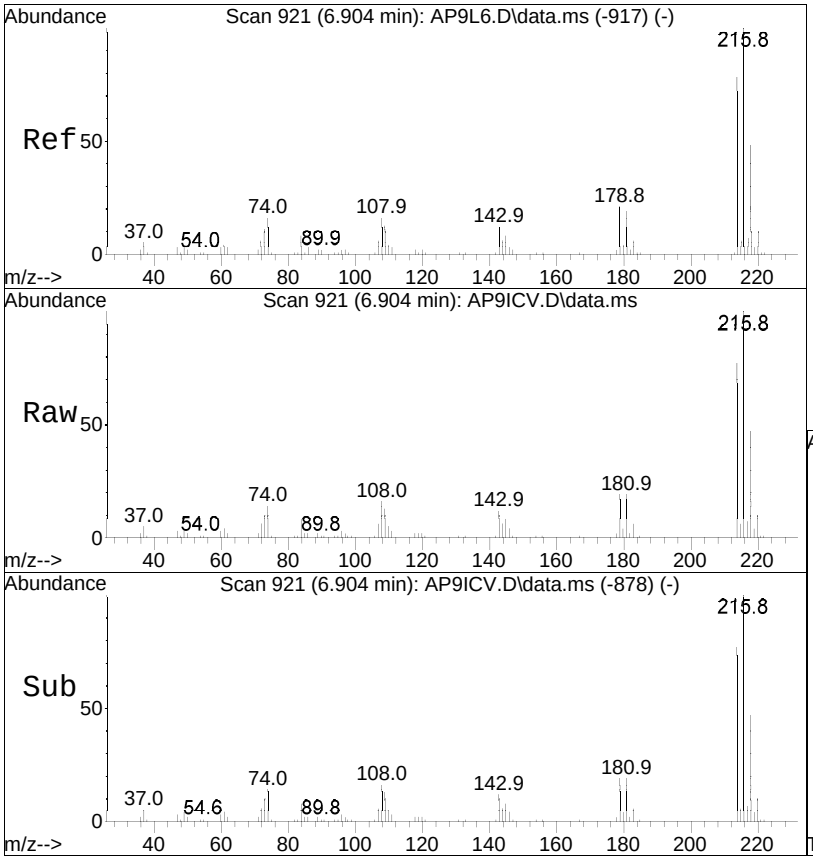


#60
Caprolactam
Concen: 4.06 ug/ml
RT: 6.416 min Scan# 838
Delta R.T. -0.006 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion: 55 Resp: 11582

Ion	Ratio	Lower	Upper
55	100		
85	51.5	35.2	52.8
113	52.5	36.6	55.0

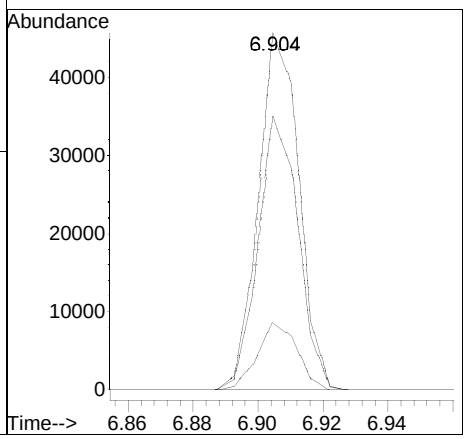


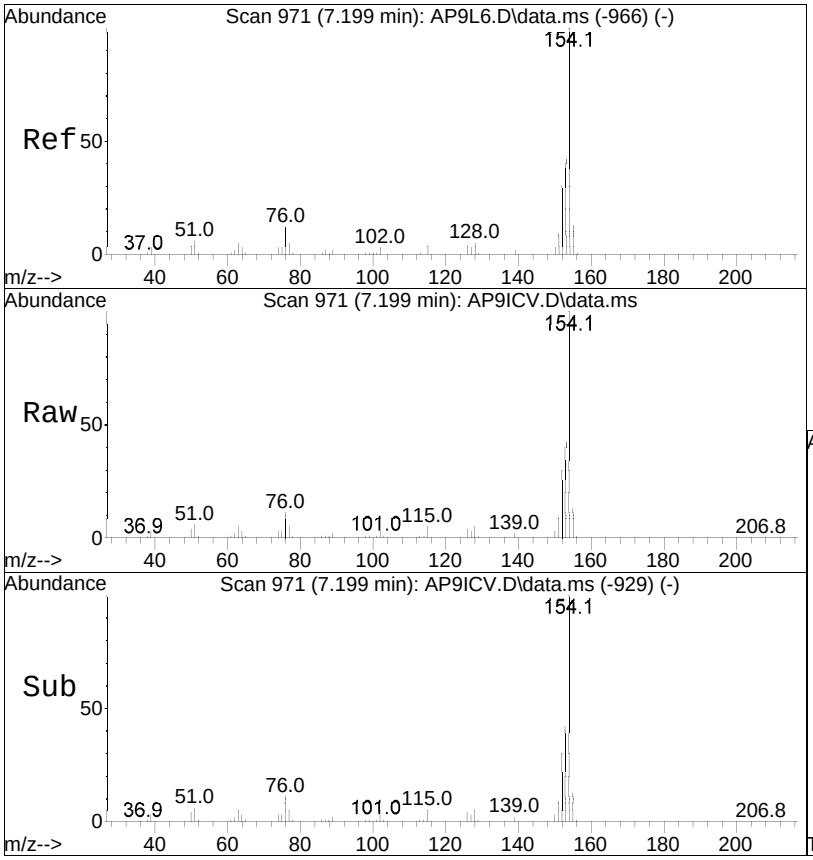


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.66 ug/ml
RT: 6.904 min Scan# 921
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:216 Resp: 39341

Ion	Ratio	Lower	Upper
216	100		
214	75.7	64.0	96.0
179	18.6	18.7	28.1#

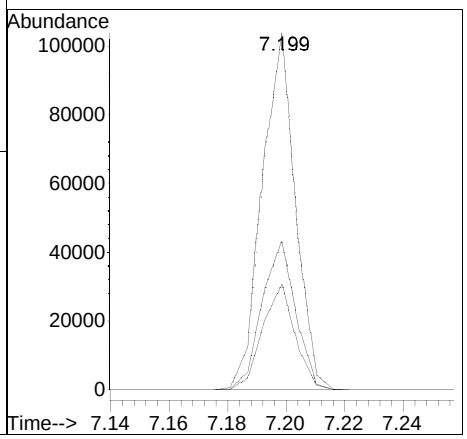


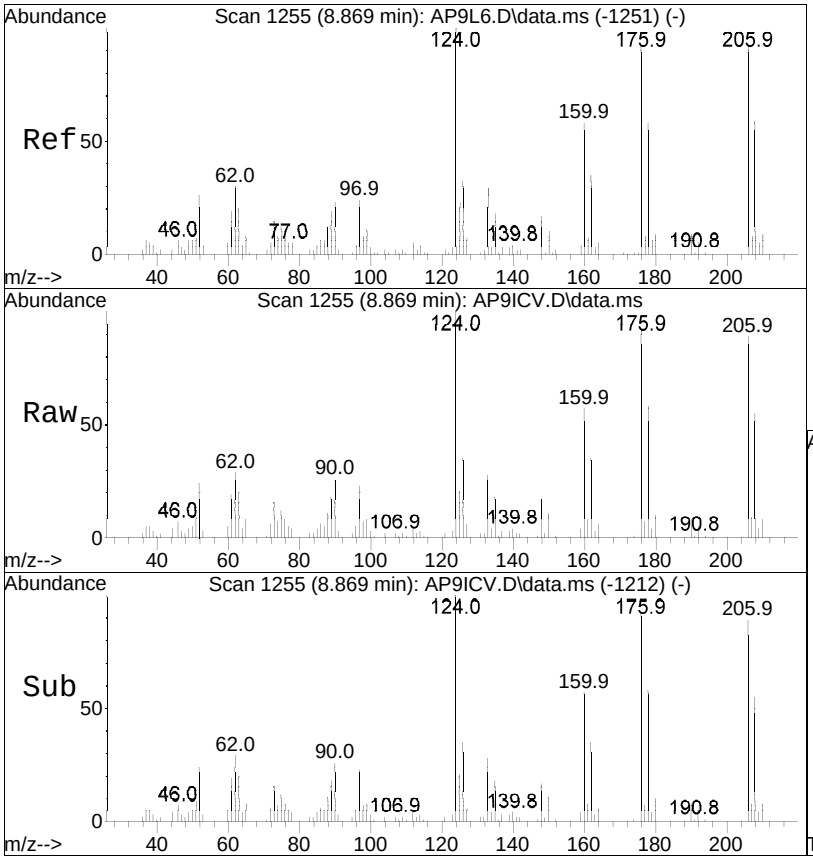


#62
Biphenyl
Concen: 4.48 ug/ml
RT: 7.199 min Scan# 971
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:154 Resp: 81125

Ion	Ratio	Lower	Upper
154	100		
153	42.3	32.5	48.7
152	29.3	22.6	34.0

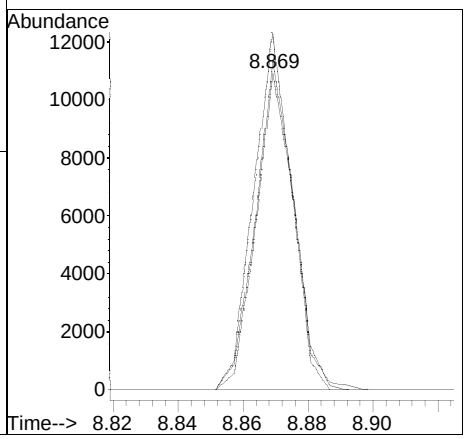


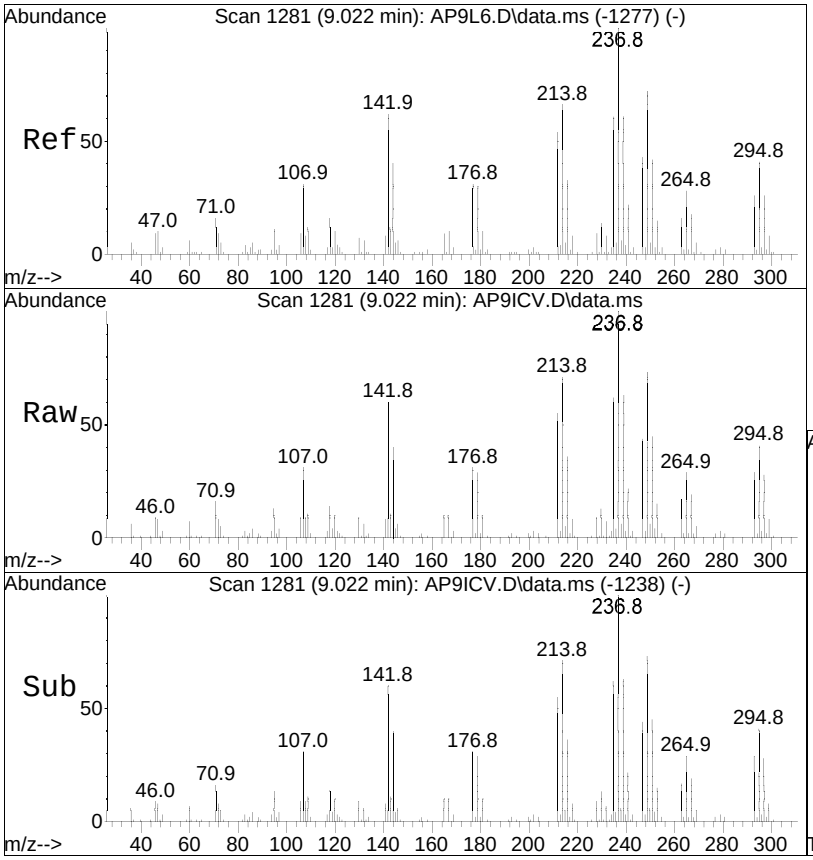


#84
Dichloran
Concen: 3.78 ug/ml
RT: 8.869 min Scan# 1255
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:206 Resp: 8814

Ion	Ratio	Lower	Upper
206	100		
176	104.9	98.8	148.2
124	111.6	125.8	188.6#

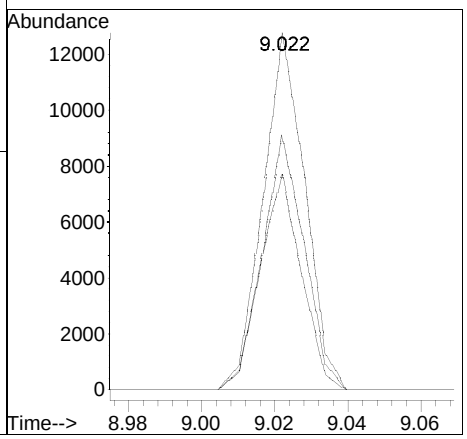


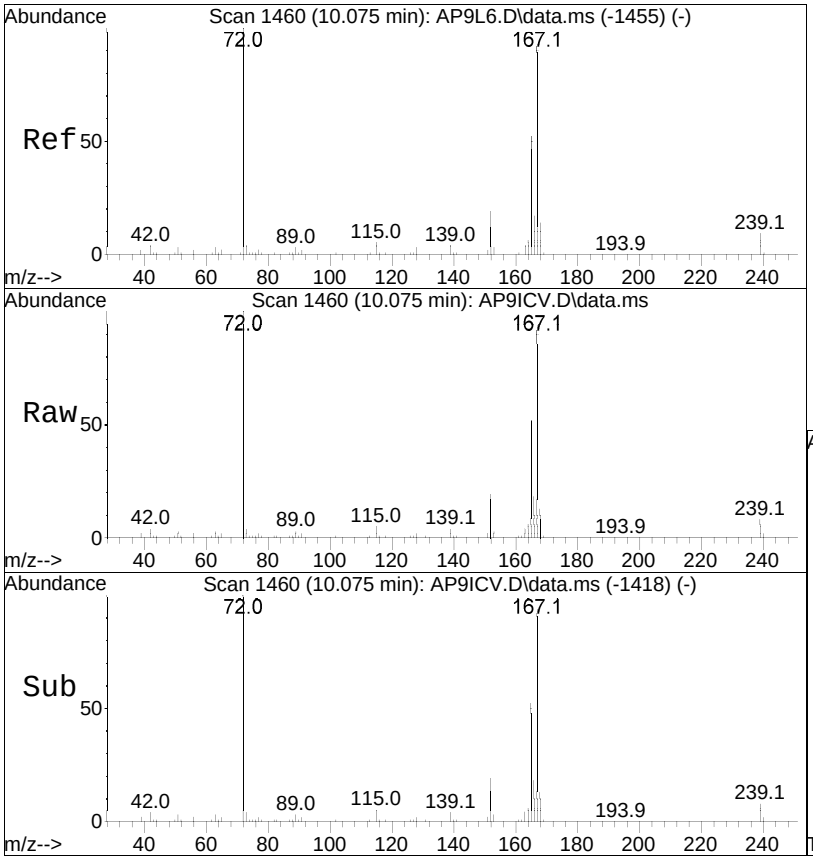


#85
Pentachloronitrobenzene
Concen: 4.08 ug/ml
RT: 9.022 min Scan# 1281
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:237 Resp: 10155

Ion	Ratio	Lower	Upper
237	100		
142	60.0	70.3	105.5#
214	70.9	59.4	89.2

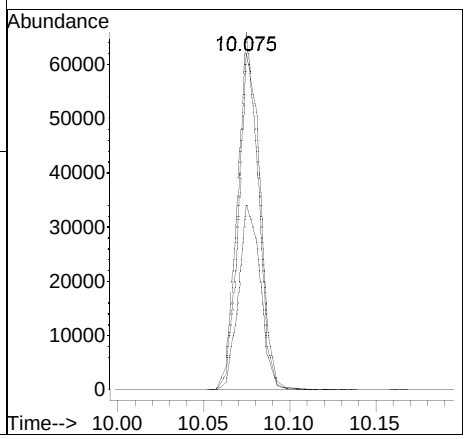




#99
Diphenamid
Concen: 4.49 ug/ml
RT: 10.075 min Scan# 1460
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Jun 2024 03:39 am

Tgt Ion:167 Resp: 54038

Ion	Ratio	Lower	Upper
167	100		
72	100.8	98.9	148.3
165	55.3	40.4	60.6



Manual Integration Report

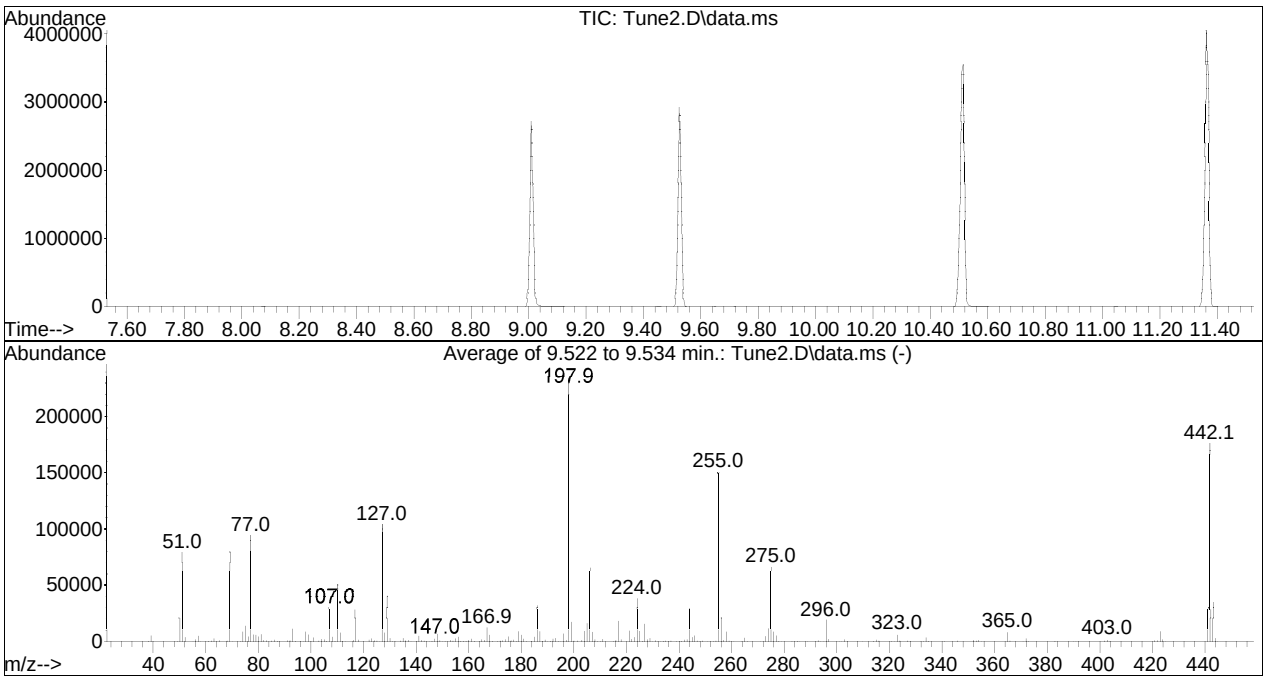
Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: AP9ICV.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 3:39 am	Instrument	: SV112
Sample	: CQICV2,32,,AP9ICV Lot# 108	Quant Date	: 6/30/2024 2:38 pm

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 21:26:04 2024



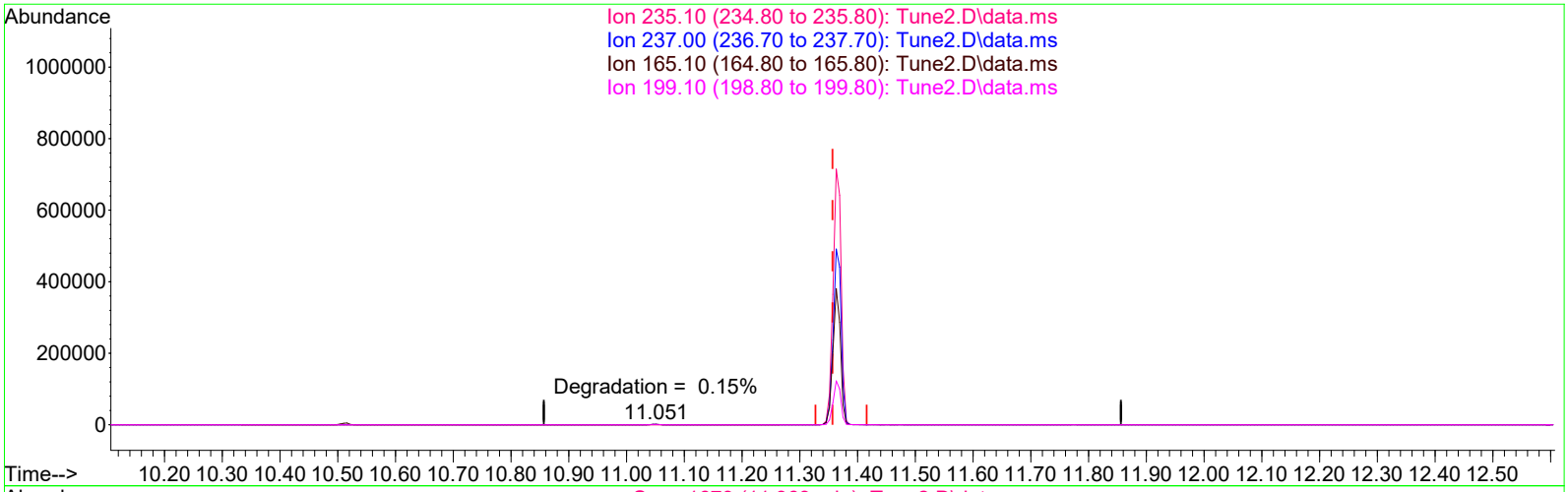
Spectrum Information: Average of 9.522 to 9.534 min.

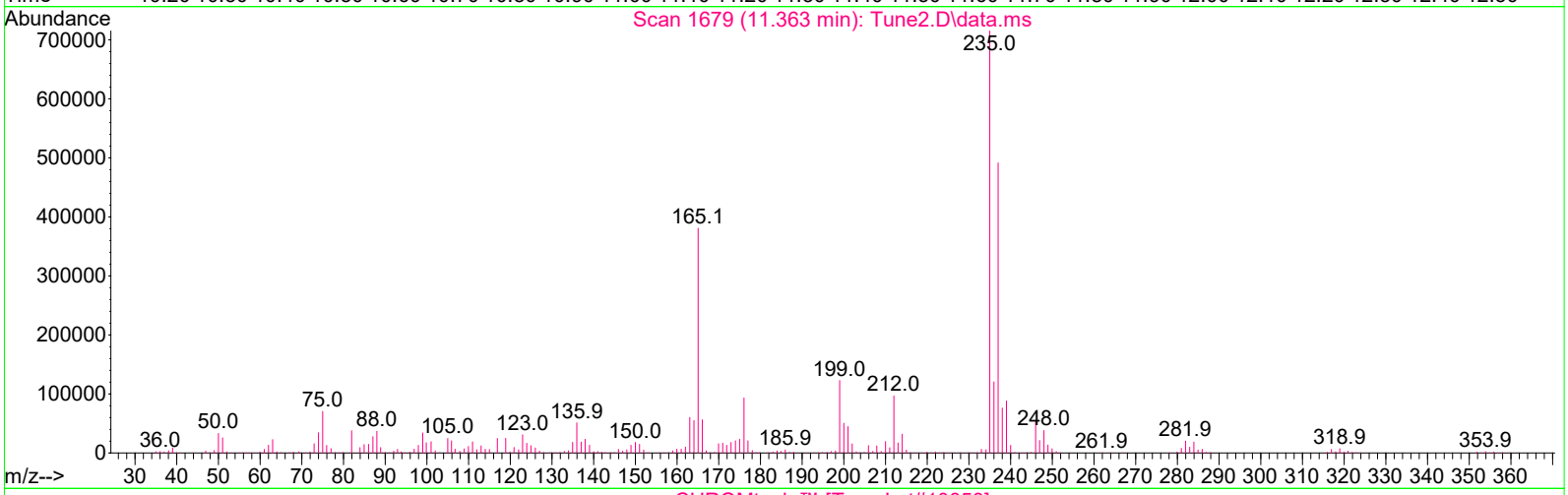
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	78592	PASS
68	69	0.00	2	1.6	1239	PASS
69	69	100	100	100.0	79691	PASS
70	69	0.00	2	0.5	407	PASS
127	198	10	80	44.2	103691	PASS
197	198	0.00	2	0.7	1726	PASS
198	198	100	100	100.0	234816	PASS
199	198	5	9	7.1	16749	PASS
275	198	10	60	28.0	65861	PASS
365	198	1	100	3.5	8174	PASS
441	442	0.01	24	17.2	30328	PASS
442	198	50	100	74.9	175909	PASS
443	442	15	24	19.9	34941	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(6) DDT (T)

11.363min (+ 0.006) 115.23

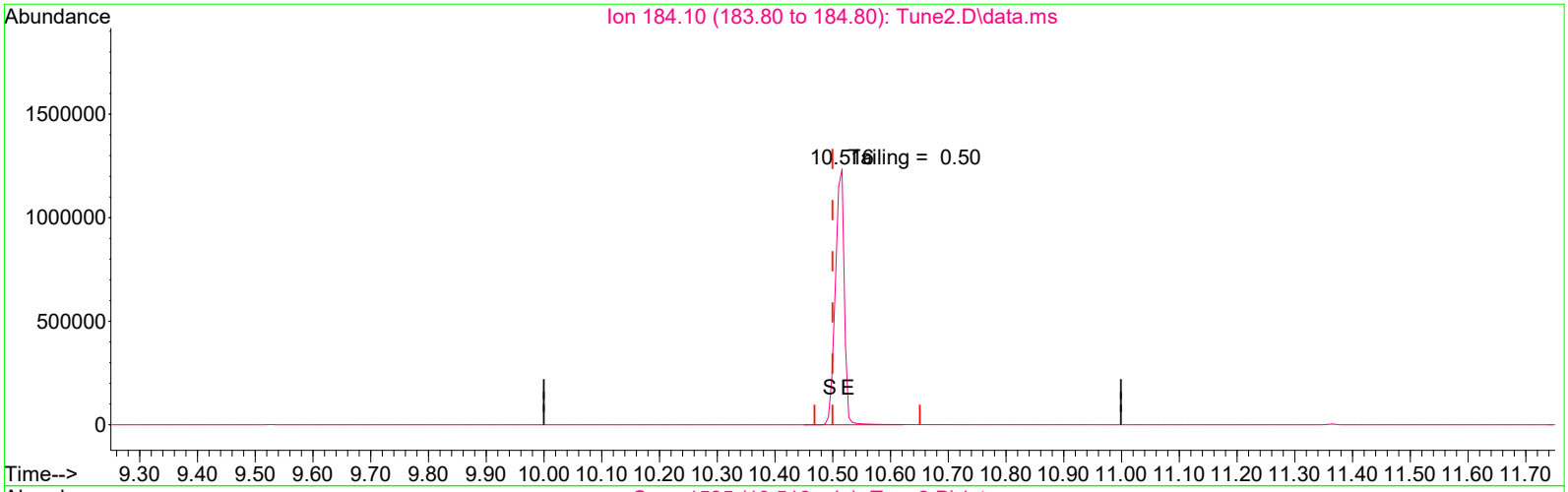
response 702426

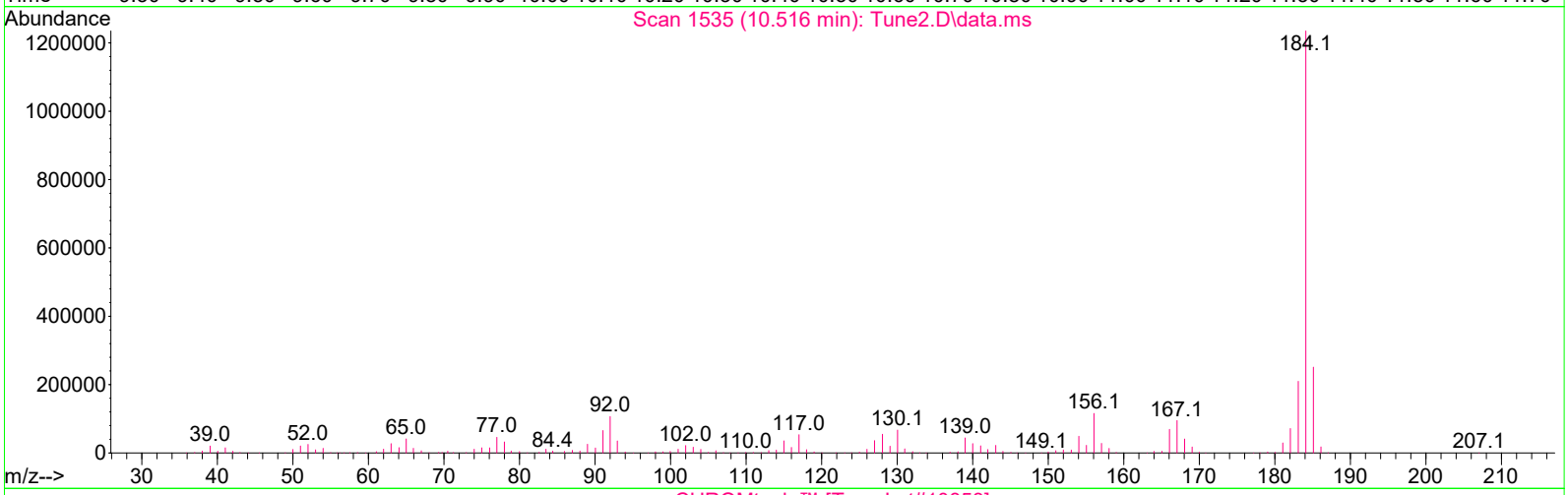
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	67.60
165.10	42.20	49.55
199.10	13.70	16.21

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(3) Benzidine (T)

10.516min (+ 0.016) 131.09

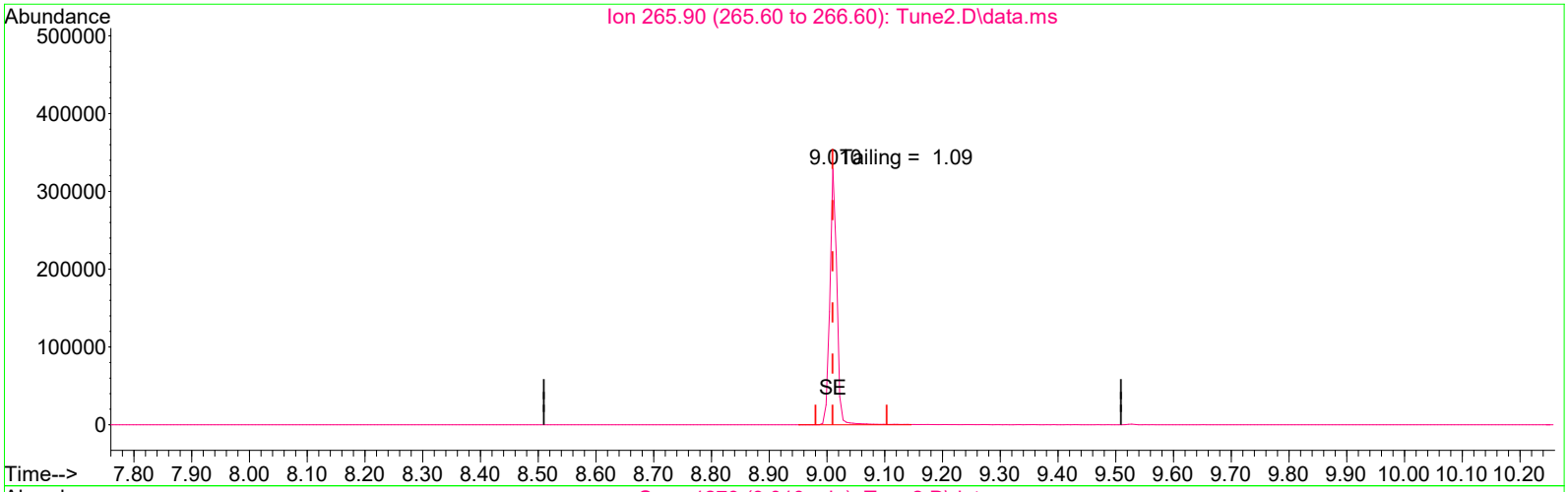
response 1334527

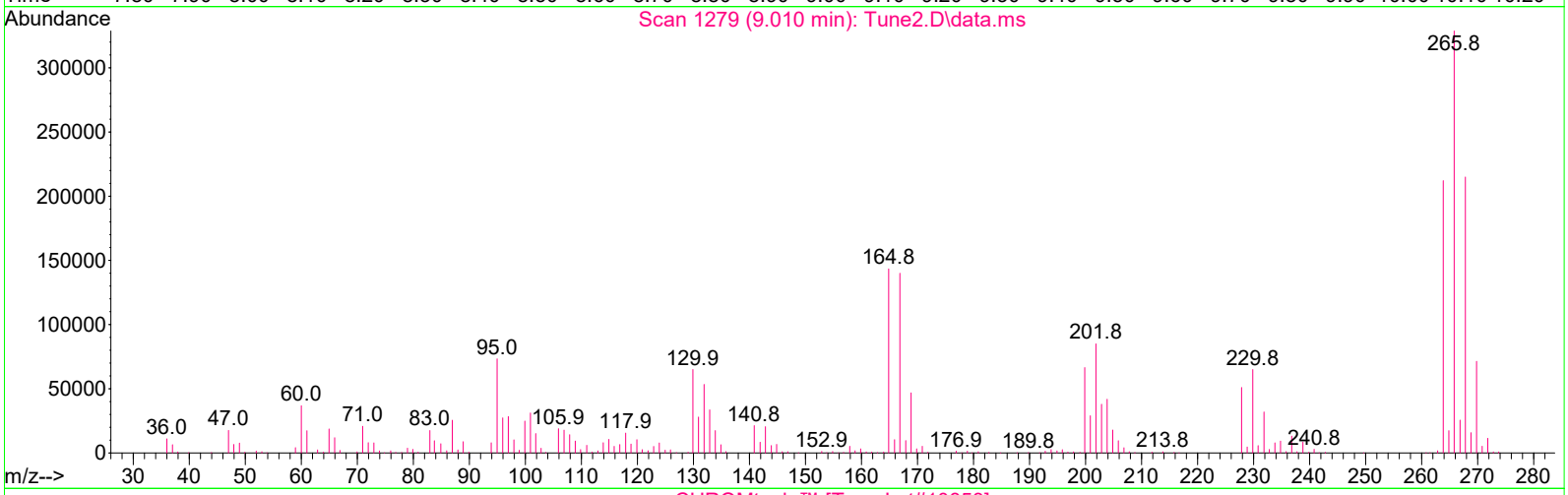
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240625RVTical\
Data File : Tune2.D
Acq On : 26 Jun 2024 04:02 am
Operator : SV112:mrg
Sample : Tune Lot#10853
Misc : WG1939943
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 26 14:46:11 2024
Quant Method : I:\8270\SV112\240625RVTical\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 07:10:40 2024
Response via : Initial Calibration





CHROMtools™ [Tune Lot#10853]

(1) Pentachlorophenol (T)

9.010min (+ 0.000) 130.93

response 275000

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(5) DDD 235.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL9.D
Acq On : 26 Jun 2024 04:25 am
Operator : SV112:mrg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939943
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:26:12 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.805	152	20470	4.000 ug/ml	0.00
Standard Area 1 = 20189			Recovery =	101.39%	
86) IS3_Acenaphthene-d10	7.746	164	50851	4.000 ug/ml	0.00
Standard Area 1 = 45088			Recovery =	112.78%	
100) IS3_Phenanthrene-d10	9.175	188	124157	4.000 ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	115.03%	
System Monitoring Compounds					
Target Compounds					Qvalue
33) 1,4-Dioxane	1.887	88	109040	45.293 ug/ml	90
34) n-Decane	4.693	57	294067	50.165 ug/ml#	94
87) Atrazine	8.952	200	328196	58.499 ug/ml	96
101) n-Octadecane	9.146	57	550946	56.408 ug/ml	90
102) Parathion	9.963	109	189120	49.698 ug/ml#	90
103) 3,3'-Dimethylbenzidine	11.257	212	1251144	49.001 ug/ml#	90

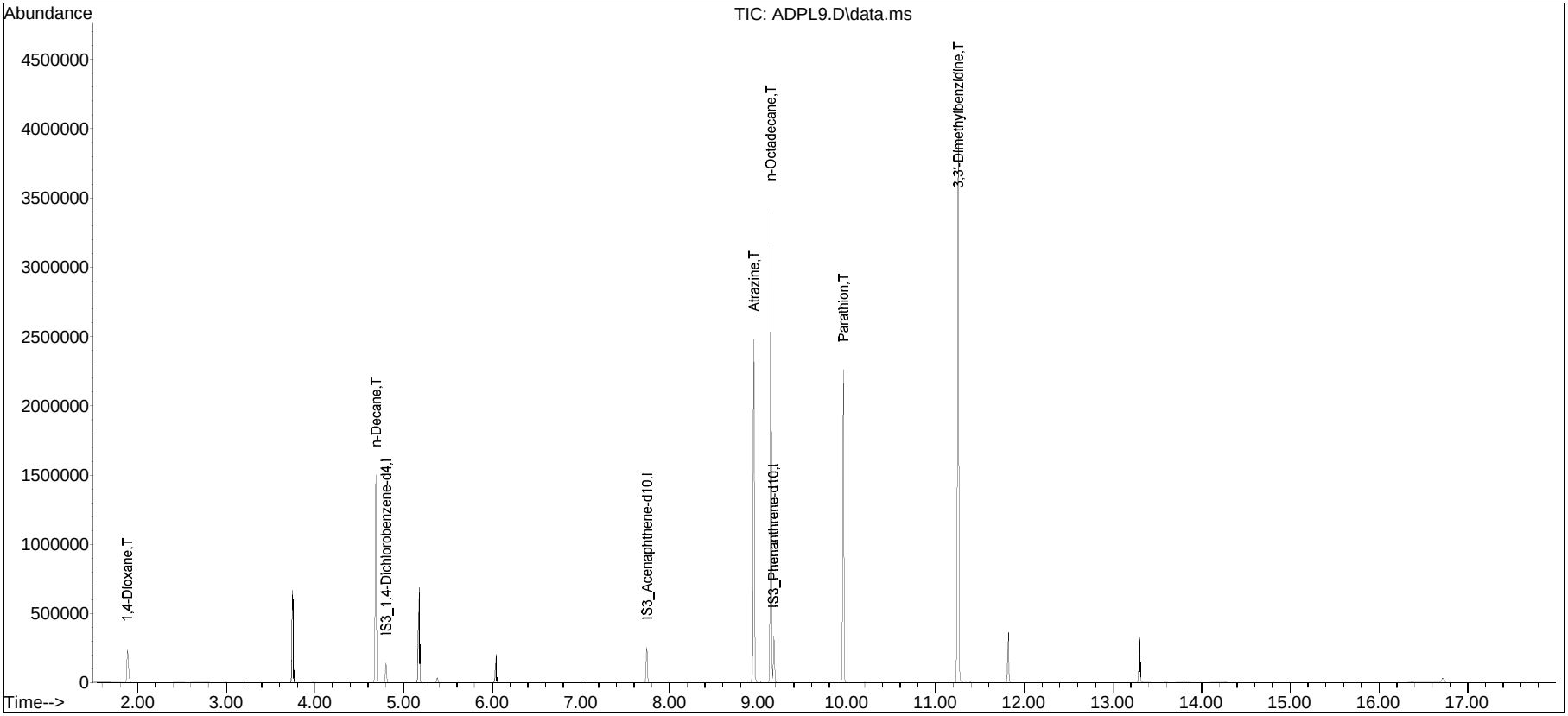
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL9.D
Acq On : 26 Jun 2024 04:25 am
Operator : SV112:mrg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939943
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:26:12 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL9.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 4:25 am	Instrument	: SV112
Sample	: IL2,32,,ADPL50 Lot# 10796	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL8.D
Acq On : 26 Jun 2024 04:48 am
Operator : SV112:mrg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939943
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:26:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

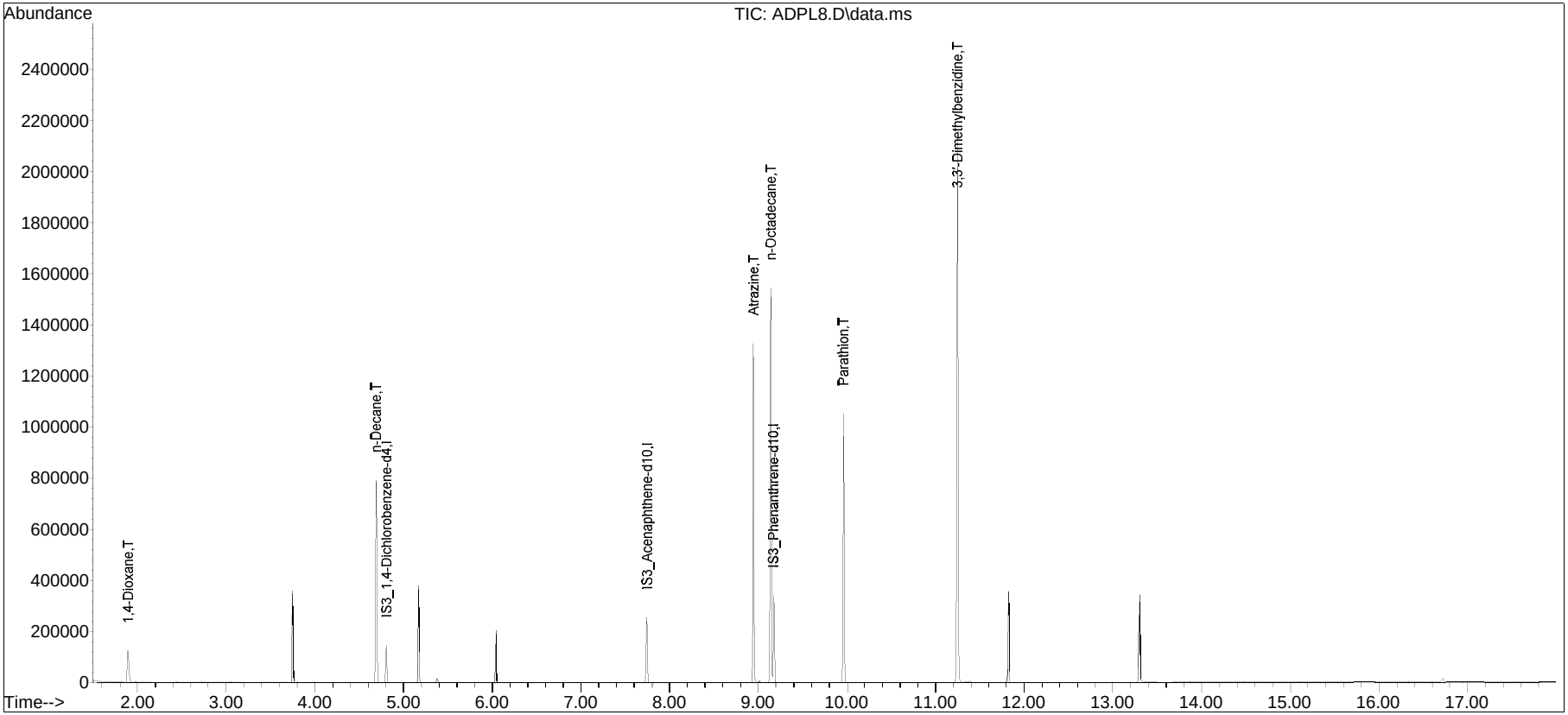
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	21763	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	107.80%		
86) IS3_Acenaphthene-d10	7.746	164	50588	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	112.20%		
100) IS3_Phenanthrene-d10	9.175	188	124301	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	115.16%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.893	88	57618	22.511	ug/ml#	88
34) n-Decane	4.687	57	155787	24.997	ug/ml	95
87) Atrazine	8.946	200	161042	28.854	ug/ml	97
101) n-Octadecane	9.146	57	271632	27.778	ug/ml	90
102) Parathion	9.957	109	84556	25.768	ug/ml#	89
103) 3,3'-Dimethylbenzidine	11.251	212	666158	26.154	ug/ml	95

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL8.D
Acq On : 26 Jun 2024 04:48 am
Operator : SV112:mrg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939943
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:26:00 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL8.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 4:48 am	Instrument	: SV112
Sample	: IL3,32,,ADPL25 Lot# 10797	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL7.D
Acq On : 26 Jun 2024 05:11 am
Operator : SV112:mrg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939943
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:25:49 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	22184	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	109.88%		
86) IS3_Acenaphthene-d10	7.746	164	50265	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	111.48%		
100) IS3_Phenanthrene-d10	9.175	188	122217	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	113.23%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.893	88	24860	9.528	ug/ml	89
34) n-Decane	4.687	57	66035	10.395	ug/ml#	94
87) Atrazine	8.940	200	63534	11.457	ug/ml	98
101) n-Octadecane	9.145	57	109359	11.374	ug/ml	91
102) Parathion	9.957	109	30072	10.443	ug/ml#	89
103) 3,3'-Dimethylbenzidine	11.251	212	264248	10.671	ug/ml	98

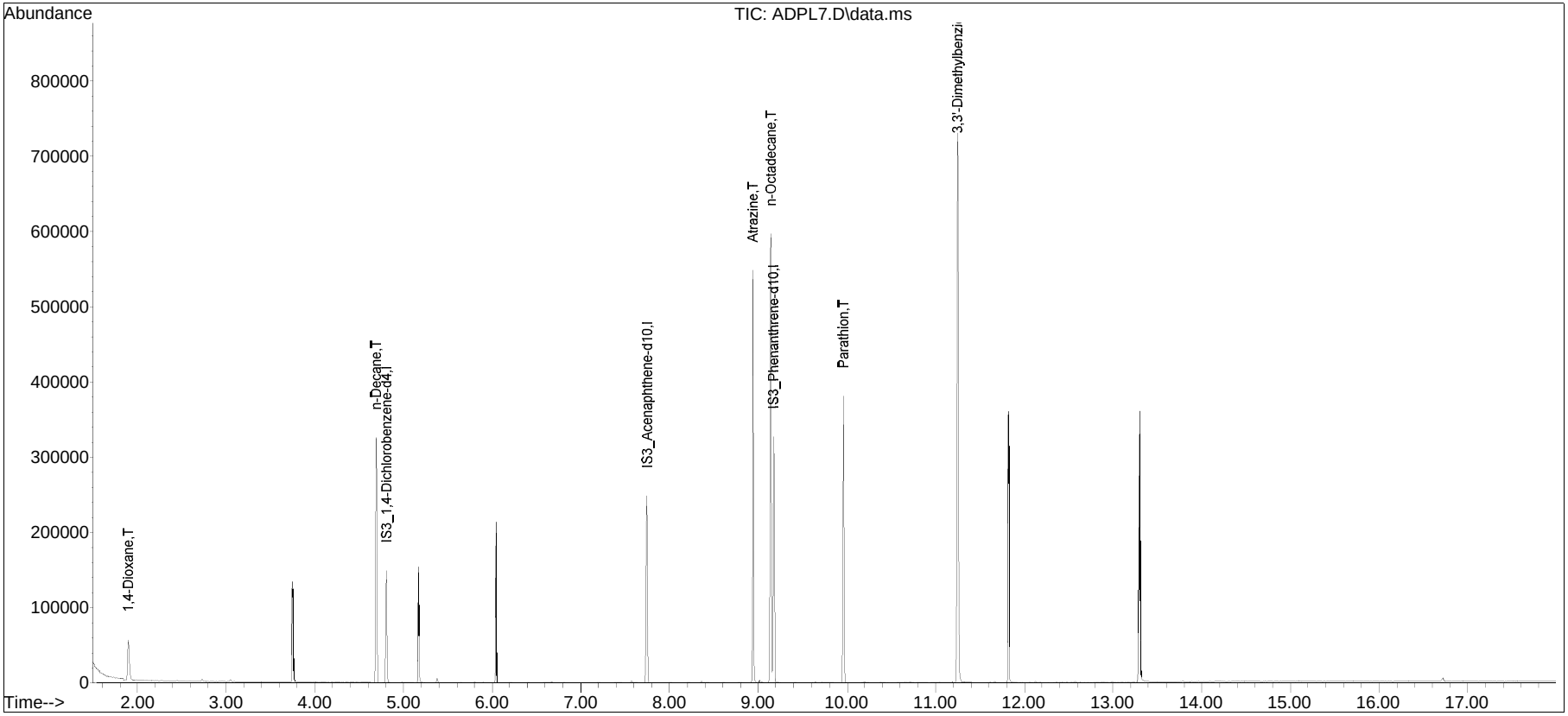
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL7.D
Acq On : 26 Jun 2024 05:11 am
Operator : SV112:mrg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939943
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:25:49 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL7.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:11 am	Instrument	: SV112
Sample	: IL4,32,,ADPL10 Lot# 10798	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL6.D
Acq On : 26 Jun 2024 05:35 am
Operator : SV112:mrg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939943
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:25:38 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

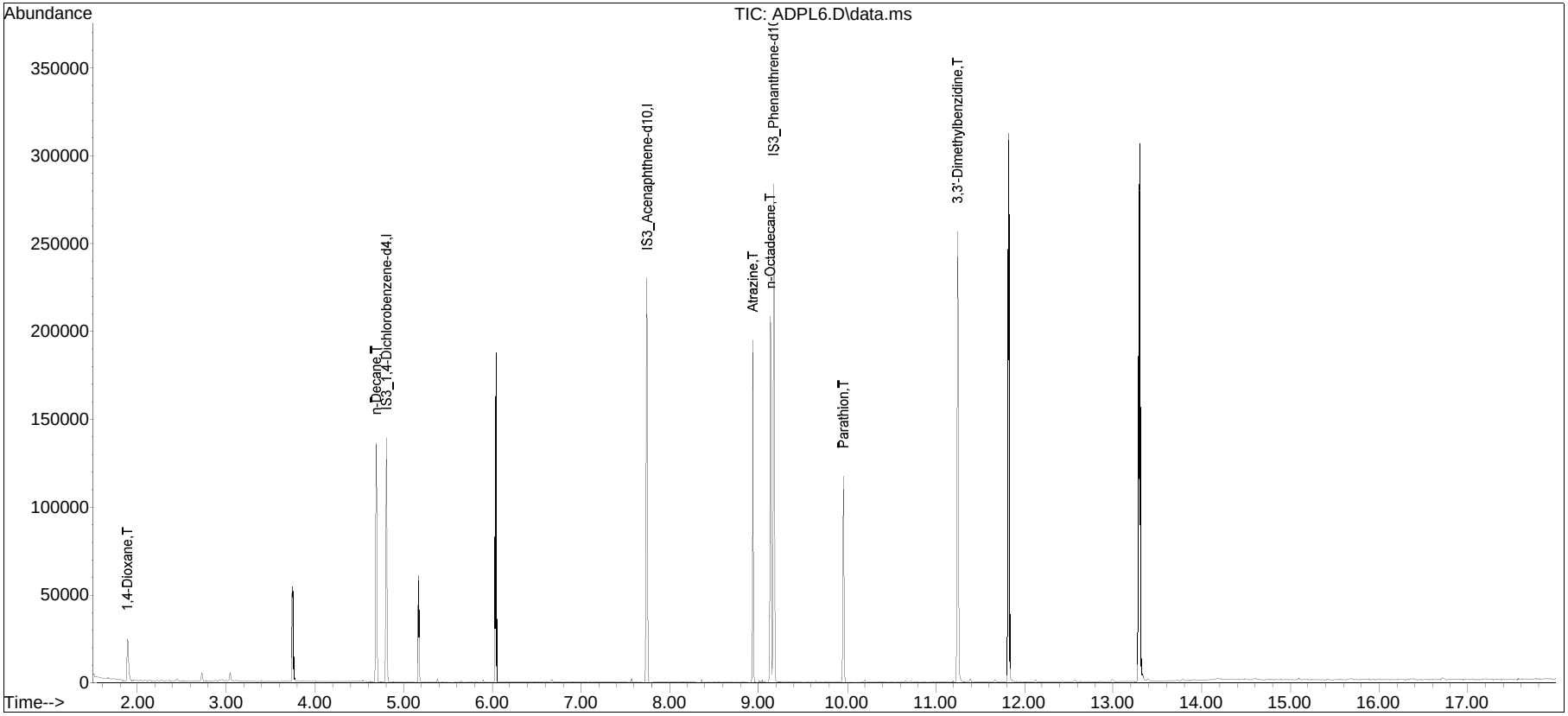
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	20189	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	7.746	164	45088	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	9.175	188	107936	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.887	88	10485	4.416	ug/ml	92
34) n-Decane	4.687	57	26759	4.628	ug/ml#	95
87) Atrazine	8.940	200	22386	4.500	ug/ml	95
101) n-Octadecane	9.140	57	37722	4.443	ug/ml	90
102) Parathion	9.957	109	9947	4.172	ug/ml#	87
103) 3,3'-Dimethylbenzidine	11.245	212	91256	4.295	ug/ml	99

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL6.D
Acq On : 26 Jun 2024 05:35 am
Operator : SV112:mrg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939943
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:25:38 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL6.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:35 am	Instrument	: SV112
Sample	: IL5,32,,ADPL5 Lot# 10799	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL5.D
Acq On : 26 Jun 2024 05:58 am
Operator : SV112:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939943
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:25:27 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

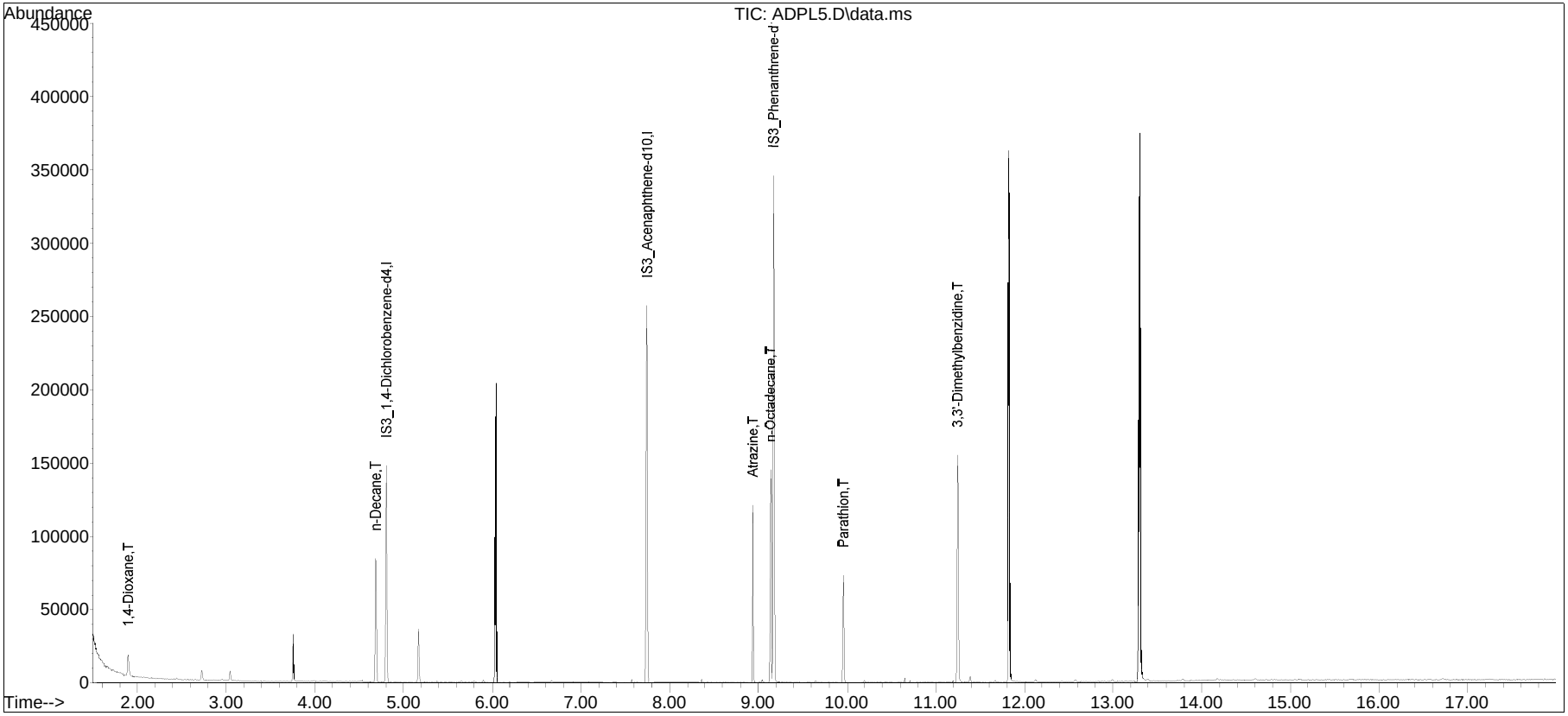
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	4.805	152	22831	4.000	ug/ml		0.00
Standard Area 1 = 20189			Recovery =	113.09%			
86) IS3_Acenaphthene-d10	7.746	164	52224	4.000	ug/ml		0.00
Standard Area 1 = 45088			Recovery =	115.83%			
100) IS3_Phenanthrene-d10	9.175	188	128613	4.000	ug/ml	#	0.00
Standard Area 1 = 107936			Recovery =	119.16%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	1.893	88	6660	2.480	ug/ml		94
34) n-Decane	4.687	57	16085	2.460	ug/ml	#	94
87) Atrazine	8.940	200	14680	2.548	ug/ml		97
101) n-Octadecane	9.140	57	25638	2.534	ug/ml		91
102) Parathion	9.957	109	6159	2.256	ug/ml	#	85
103) 3,3'-Dimethylbenzidine	11.246	212	56264	2.319	ug/ml		98

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL5.D
Acq On : 26 Jun 2024 05:58 am
Operator : SV112:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939943
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:25:27 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPL5.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 5:58 am	Instrument	: SV112
Sample	: IL6,32,,ADPL2.5 Lot# 10800	Quant Date	: 7/1/2024 6:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL4.D
Acq On : 26 Jun 2024 06:21 am
Operator : SV112:mrg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939943
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:25:16 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	4.805	152	19329	4.000	ug/ml		0.00
Standard Area 1 = 20189			Recovery = 95.74%				
86) IS3_Acenaphthene-d10	7.746	164	44400	4.000	ug/ml		0.00
Standard Area 1 = 45088			Recovery = 98.47%				
100) IS3_Phenanthrene-d10	9.175	188	106041	4.000	ug/ml	#	0.00
Standard Area 1 = 107936			Recovery = 98.24%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	1.893	88	2741M6	1.206	ug/ml		
34) n-Decane	4.687	57	6064	1.096	ug/ml		95
87) Atrazine	8.940	200	5191	1.060	ug/ml		96
101) n-Octadecane	9.140	57	8435	1.011	ug/ml		91
102) Parathion	9.957	109	2128	1.022	ug/ml	#	90
103) 3,3'-Dimethylbenzidine	11.245	212	17509	1.000	ug/ml		98

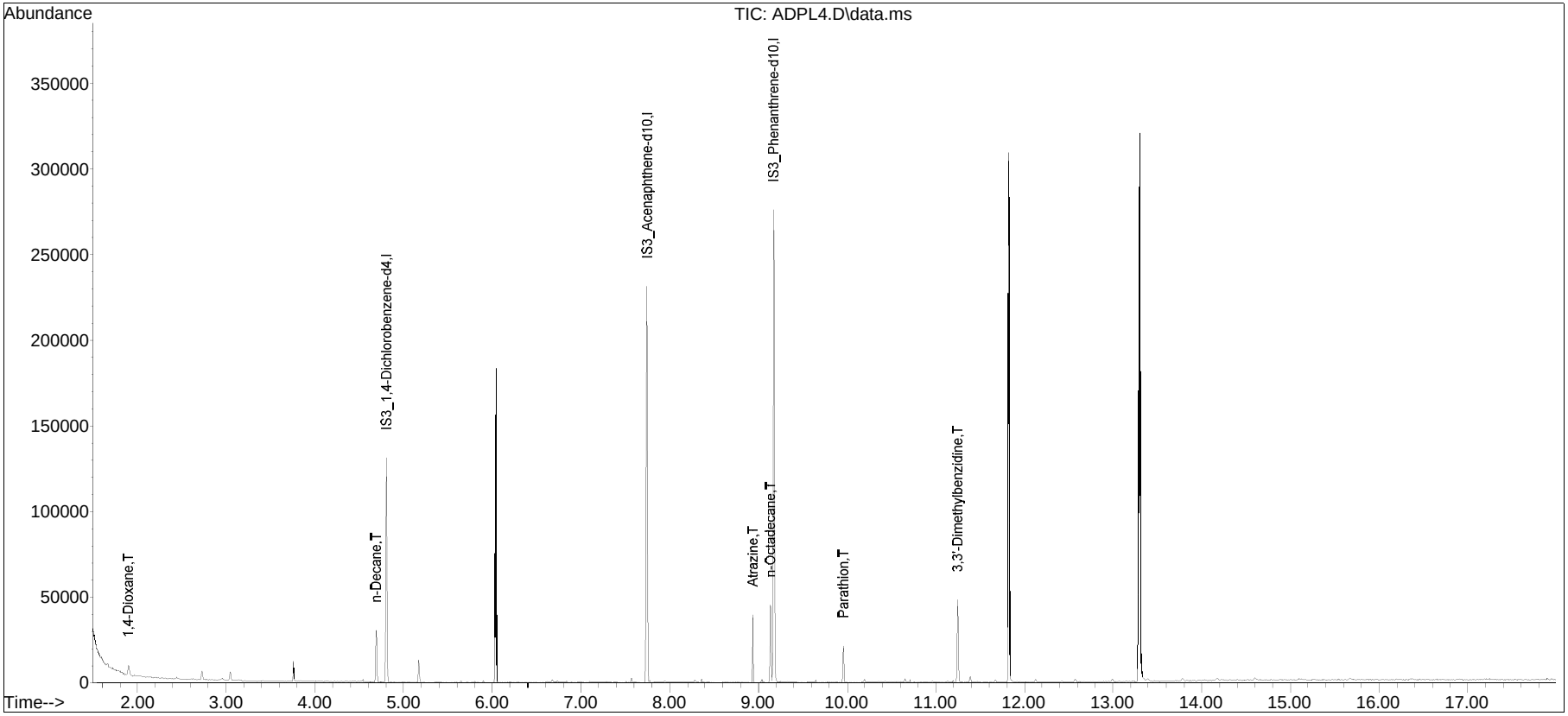
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL4.D
Acq On : 26 Jun 2024 06:21 am
Operator : SV112:mrg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939943
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:25:16 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

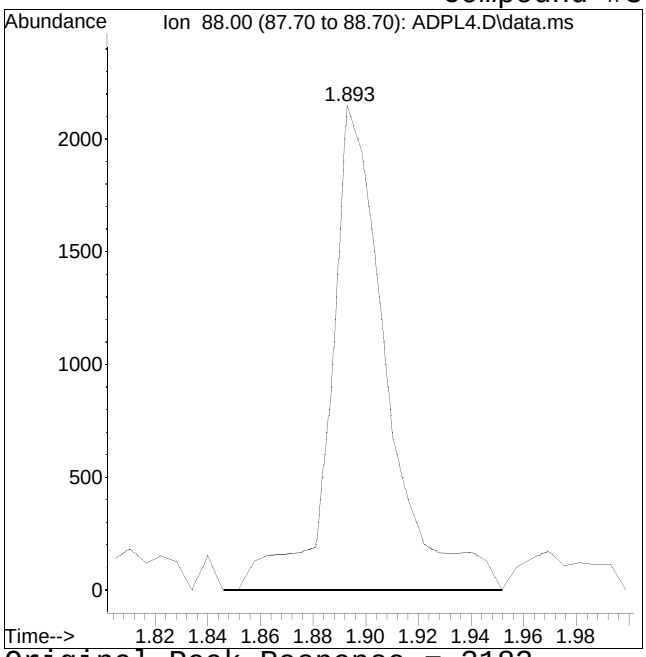
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



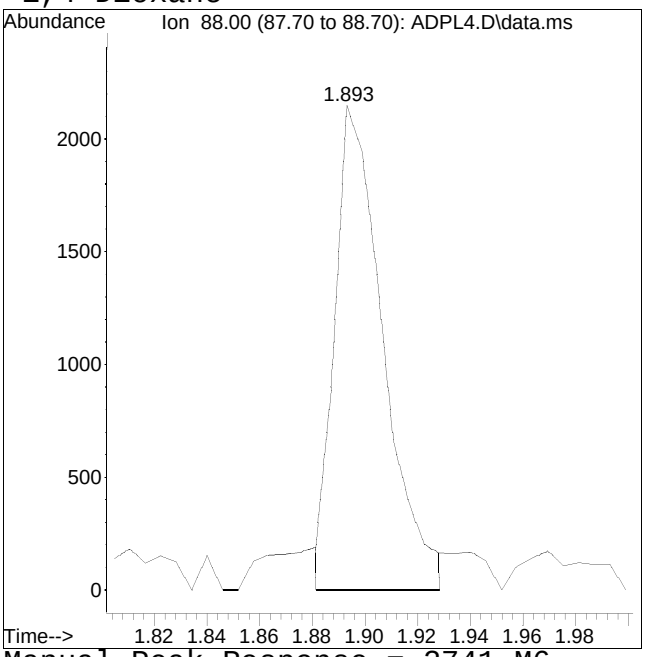
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL4.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 6:21 am Instrument : SV112
Sample : IL7,32,,ADPL1 Lot# 10801 Quant Date : 7/1/2024 6:26 am

Compound #33: 1,4-Dioxane



Original Peak Response = 3183



Manual Peak Response = 2741 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL3.D
Acq On : 26 Jun 2024 06:44 am
Operator : SV112:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939943
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:25:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

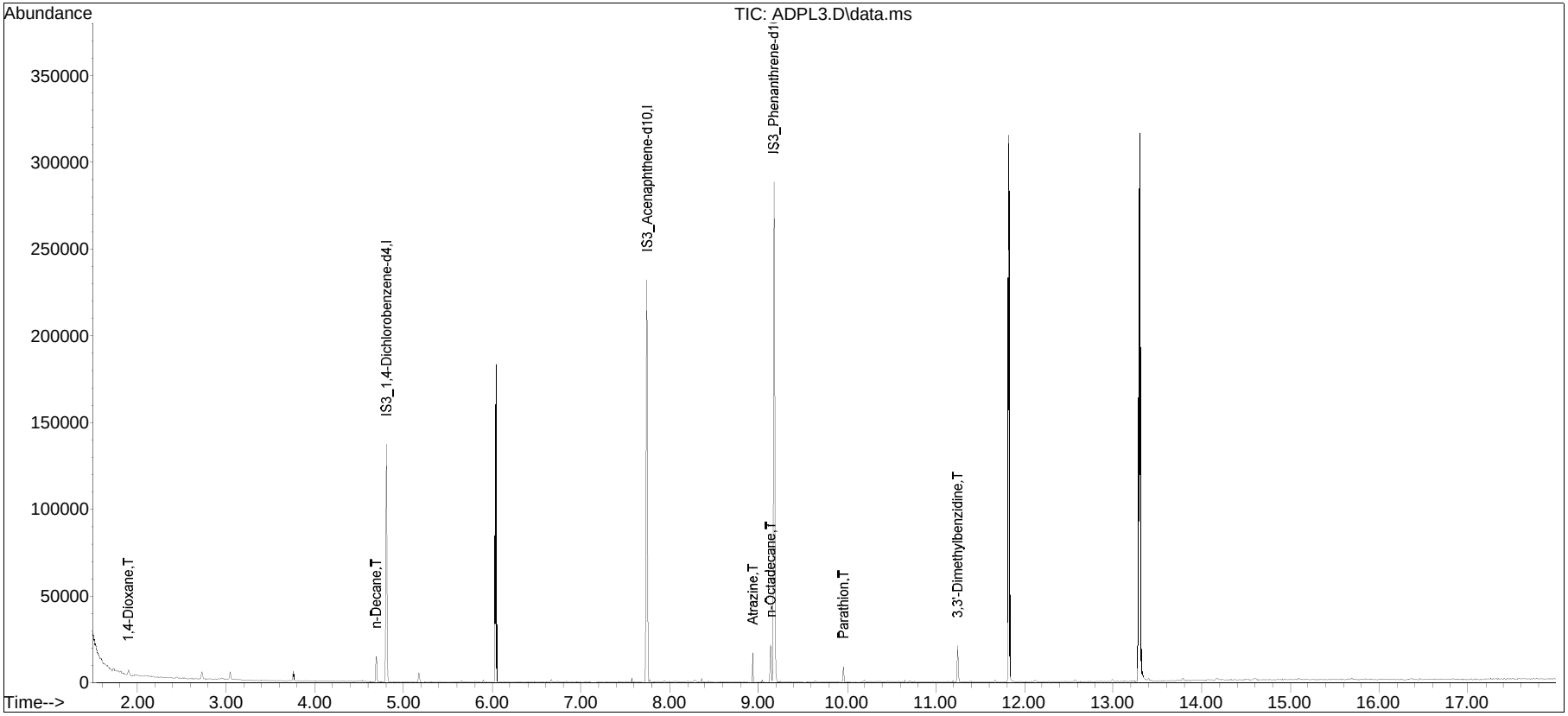
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	20408	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery =	101.08%		
86) IS3_Acenaphthene-d10	7.746	164	46018	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery =	102.06%		
100) IS3_Phenanthrene-d10	9.175	188	108127	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	100.18%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.893	88	1517M6	0.632	ug/ml	
34) n-Decane	4.687	57	3040	0.520	ug/ml	94
87) Atrazine	8.940	200	2518	0.496	ug/ml	93
101) n-Octadecane	9.140	57	4037	0.475	ug/ml	93
102) Parathion	9.957	109	1026	0.547	ug/ml#	89
103) 3,3'-Dimethylbenzidine	11.245	212	8020	0.560	ug/ml	100

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL3.D
Acq On : 26 Jun 2024 06:44 am
Operator : SV112:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939943
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:25:05 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

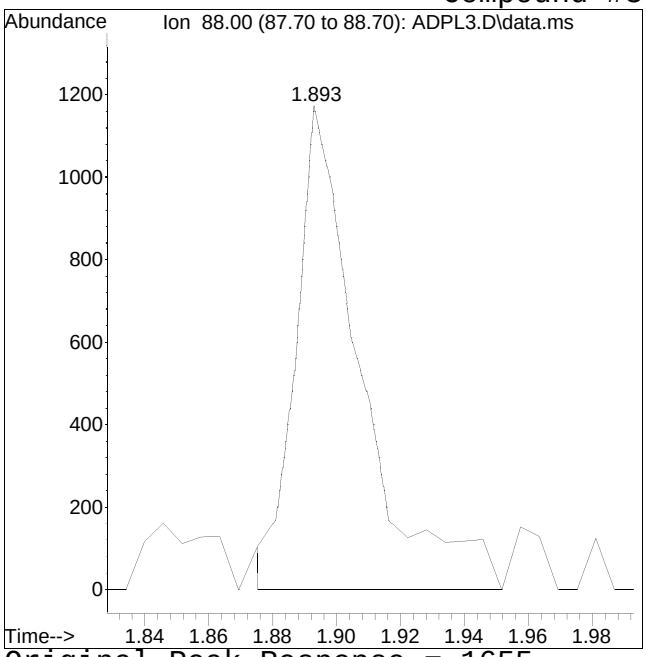
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



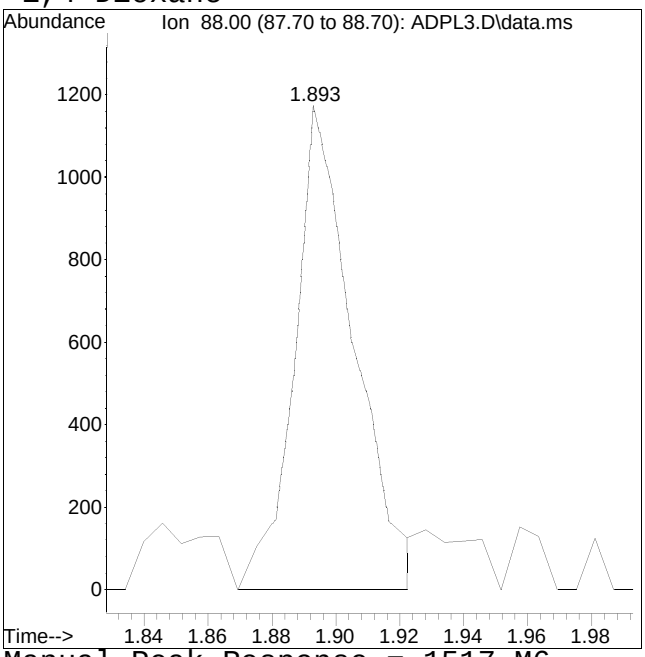
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL3.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 6:44 am Instrument : SV112
Sample : IL8,32,,ADPL0.5 Lot# 10802Quant Date : 7/1/2024 6:25 am

Compound #33: 1,4-Dioxane



Original Peak Response = 1655



Manual Peak Response = 1517 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL2.D
Acq On : 26 Jun 2024 07:08 am
Operator : SV112:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939943
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:24:54 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

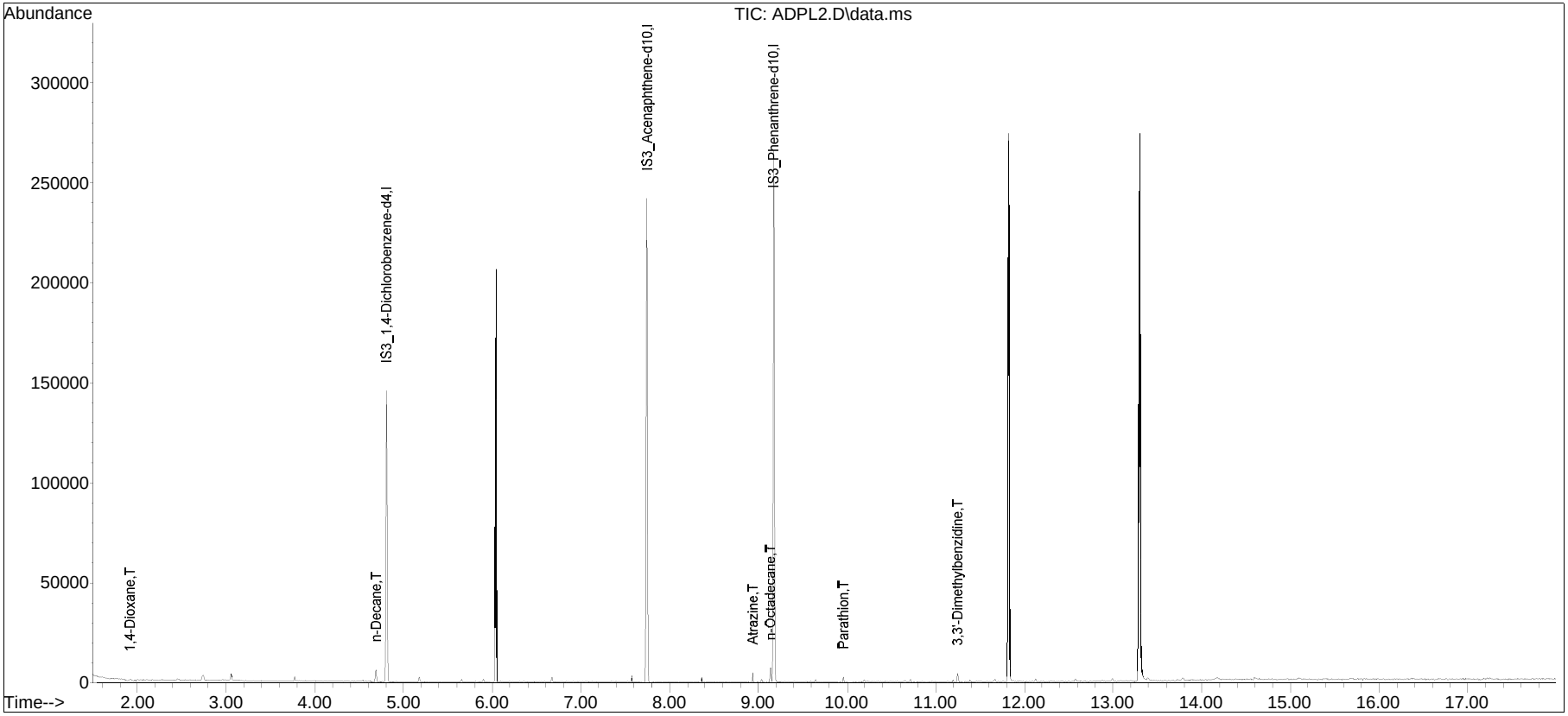
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.805	152	22327	4.000 ug/ml	0.00
Standard Area 1 = 20189			Recovery =	110.59%	
86) IS3_Acenaphthene-d10	7.746	164	46135	4.000 ug/ml	0.00
Standard Area 1 = 45088			Recovery =	102.32%	
100) IS3_Phenanthrene-d10	9.175	188	101129	4.000 ug/ml	# 0.00
Standard Area 1 = 107936			Recovery =	93.69%	
System Monitoring Compounds					
Target Compounds					Qvalue
33) 1,4-Dioxane	1.916	88	588	0.224 ug/ml#	31
34) n-Decane	4.693	57	1353	0.212 ug/ml	95
87) Atrazine	8.940	200	862	0.169 ug/ml#	37
101) n-Octadecane	9.140	57	1533	0.193 ug/ml	93
102) Parathion	9.957	109	339M2	0.269 ug/ml	
103) 3,3'-Dimethylbenzidine	11.245	212	2291	0.310 ug/ml#	61

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL2.D
Acq On : 26 Jun 2024 07:08 am
Operator : SV112:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939943
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:24:54 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

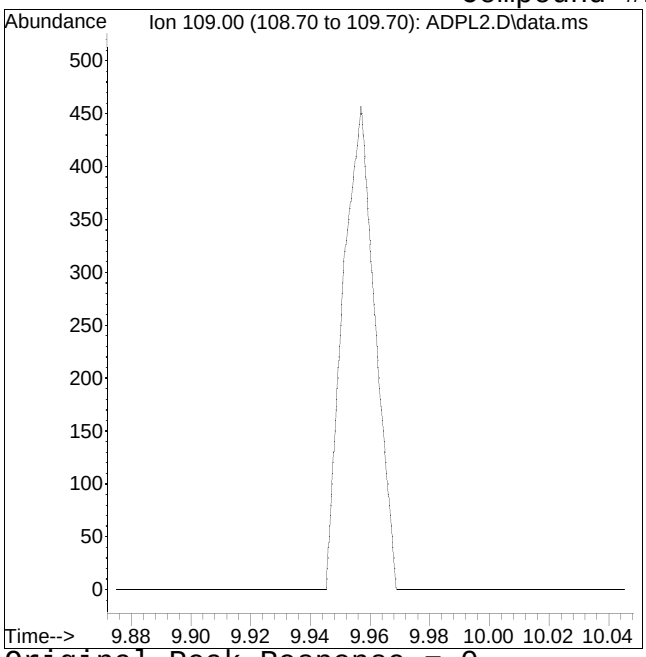
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



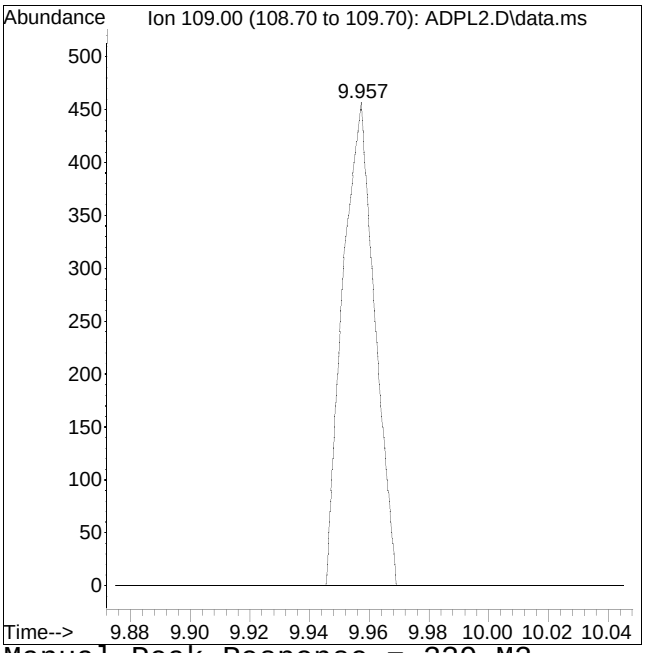
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL2.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:08 am Instrument : SV112
Sample : IL9,32,,ADPL0.2 Lot# 10803Quant Date : 7/1/2024 6:25 am

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 339 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL1.D
Acq On : 26 Jun 2024 07:31 am
Operator : SV112:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939943
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 01 06:24:42 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

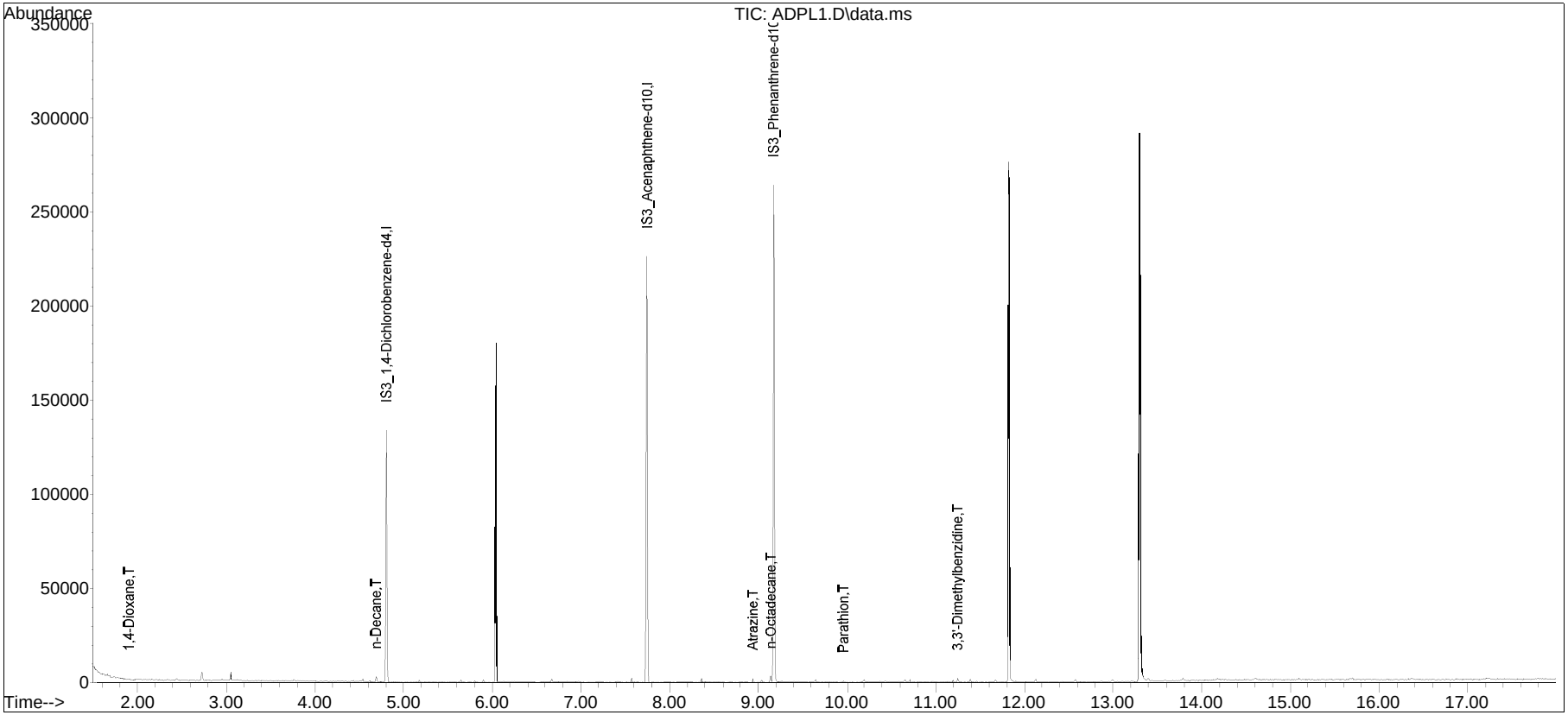
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.805	152	19406	4.000	ug/ml	0.00
Standard Area 1 = 20189			Recovery = 96.12%			
86) IS3_Acenaphthene-d10	7.746	164	43780	4.000	ug/ml	0.00
Standard Area 1 = 45088			Recovery = 97.10%			
100) IS3_Phenanthrene-d10	9.175	188	100147	4.000	ug/ml	# 0.00
Standard Area 1 = 107936			Recovery = 92.78%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.899	88	310M2	0.136	ug/ml	
34) n-Decane	4.687	57	592	0.107	ug/ml#	76
87) Atrazine	8.940	200	426M2	0.088	ug/ml	
101) n-Octadecane	9.146	57	780	0.099	ug/ml	92
102) Parathion	9.957	109	191M2	0.204	ug/ml	
103) 3,3'-Dimethylbenzidine	11.245	212	1151	0.256	ug/ml#	61

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

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPL1.D
Acq On : 26 Jun 2024 07:31 am
Operator : SV112:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939943
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 01 06:24:42 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

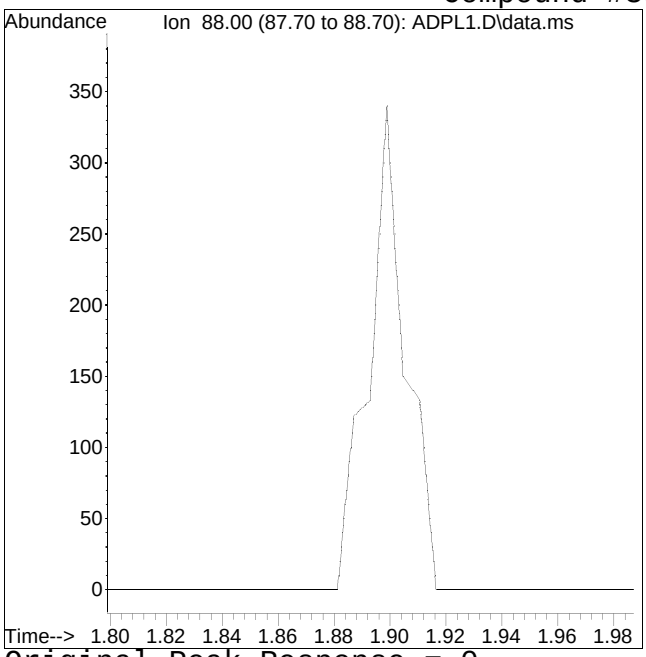
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



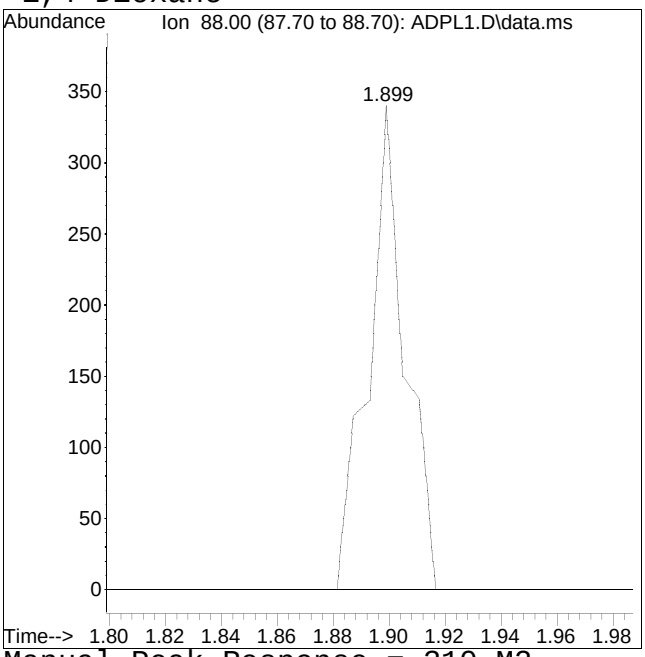
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #33: 1,4-Dioxane



Original Peak Response = 0



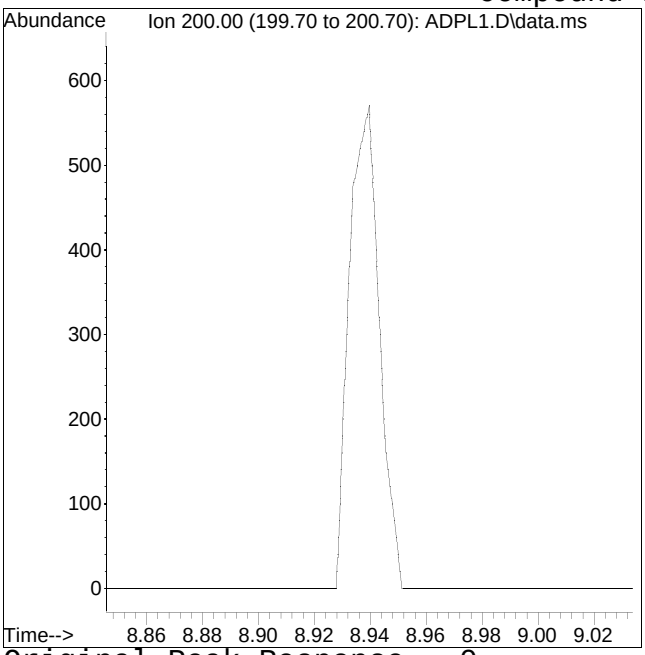
Manual Peak Response = 310 M2

M2 = Peak not found by automatic integration algorithm.

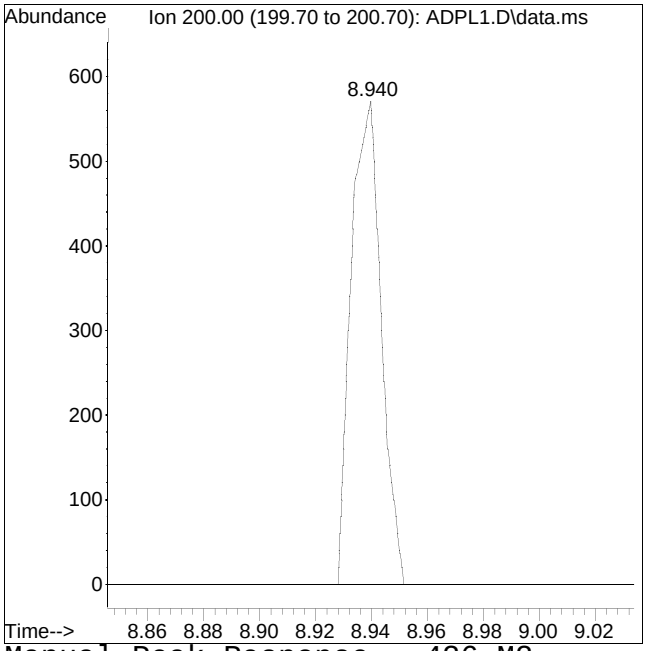
Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #87: Atrazine



Original Peak Response = 0



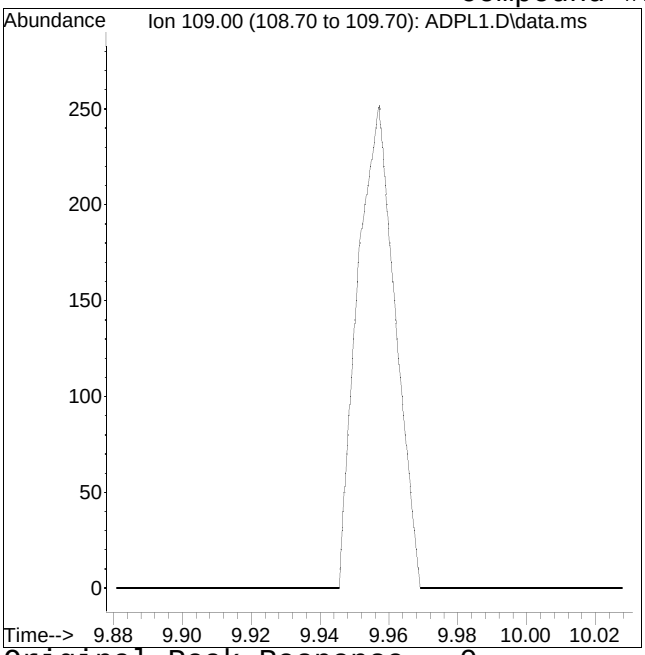
Manual Peak Response = 426 M2

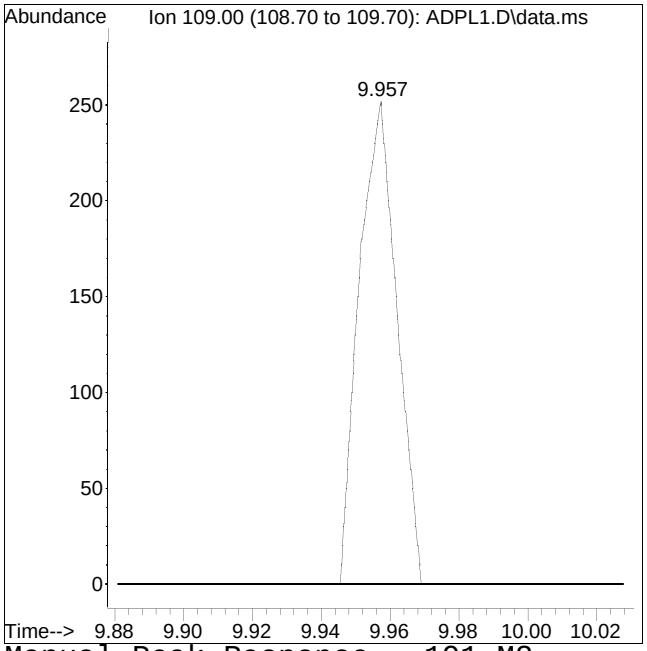
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV112\240625RVTicaQMethod : FS240625SV112RVT.m
Data File : ADPL1.D Operator : SV112:mrg
Date Inj'd : 6/26/2024 7:31 am Instrument : SV112
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 7/1/2024 6:25 am

Compound #102: Parathion





Original Peak Response = 0 Manual Peak Response = 191 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	93	0.00
33	T	1,4-Dioxane		0.470	0.437	7.0	98	0.00
34	T	n-Decane		1.145	1.147	-0.2	101	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	100	0.00
87	T	Atrazine		0.441	0.385	12.7	97	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	101	0.00
101	T	n-Octadecane		0.315	0.303	3.8	109	0.00
102	T	Parathion	*	5.000	3.993	20.1#	96	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	3.947	21.1#	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240625RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	4.805	152	18786	4.000	ug/ml		0.00
Standard Area 1 = 20189			Recovery = 93.05%				
86) IS3_Acenaphthene-d10	7.746	164	45310	4.000	ug/ml		0.00
Standard Area 1 = 45088			Recovery = 100.49%				
100) IS3_Phenanthrene-d10	9.175	188	108986	4.000	ug/ml	#	0.00
Standard Area 1 = 107936			Recovery = 100.97%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	1.887	88	10259	4.643	ug/ml	#	89
34) n-Decane	4.687	57	26927	5.005	ug/ml		94
87) Atrazine	8.940	200	21793	4.360	ug/ml		98
101) n-Octadecane	9.146	57	41233	4.809	ug/ml		94
102) Parathion	9.957	109	9588	3.993	ug/ml	#	88
103) 3,3'-Dimethylbenzidine	11.251	212	84313	3.947	ug/ml		98

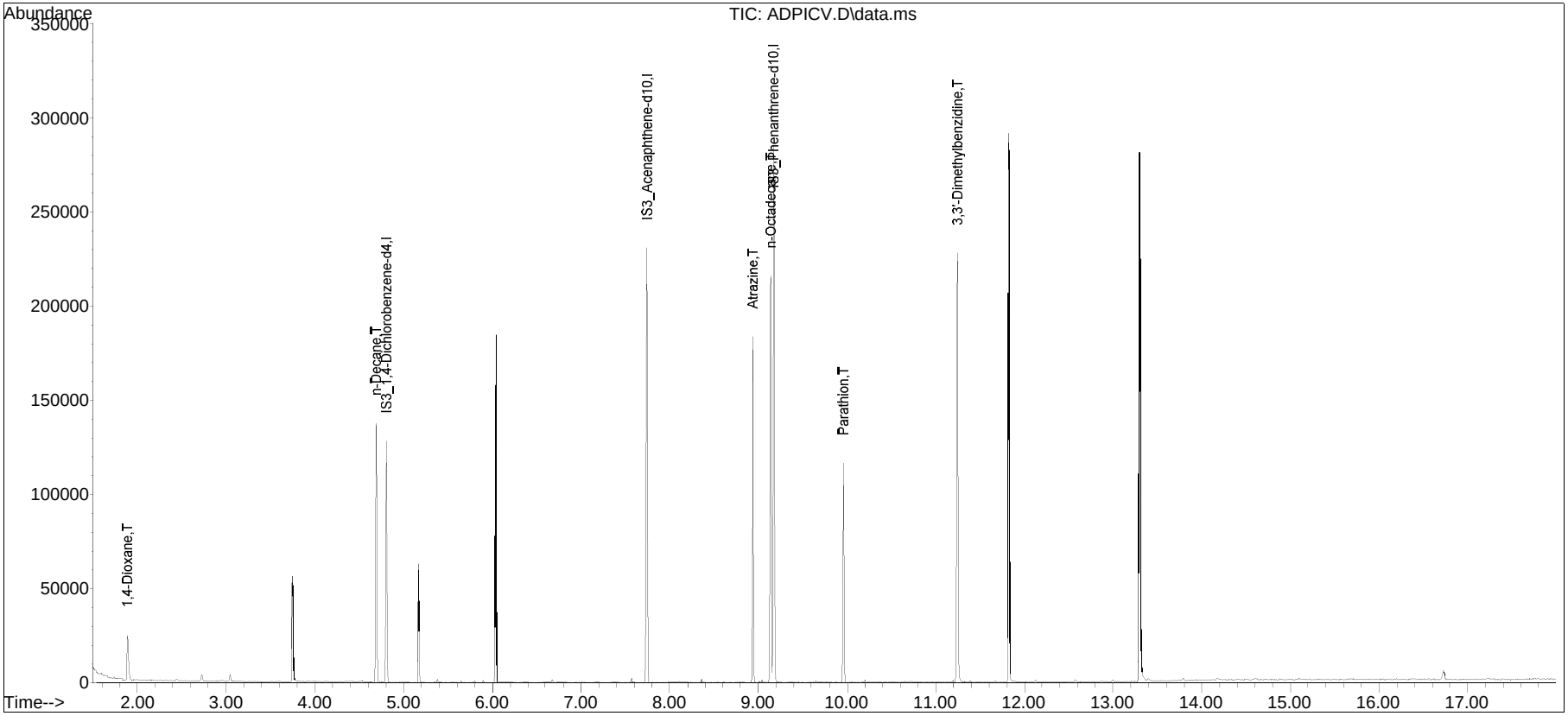
(#) = qualifier out of range (m) = manual integration (+) = signals summed

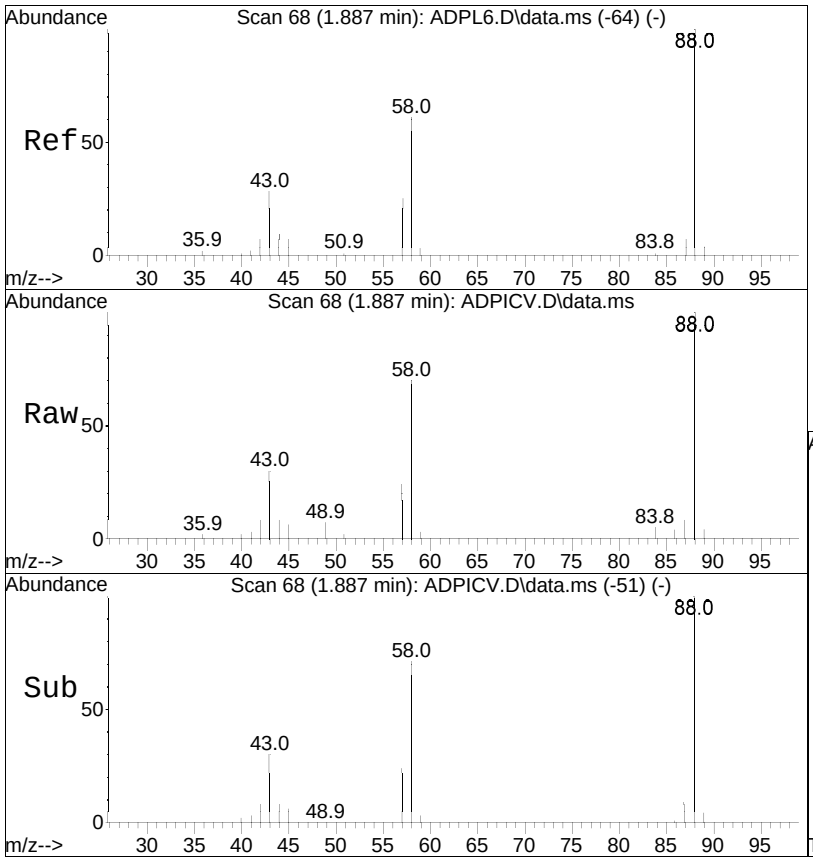
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240625RVTical\
Data File : ADPICV.D
Acq On : 26 Jun 2024 07:54 am
Operator : SV112:mrg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939943
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 01 06:17:58 2024
Quant Method : I:\8270\SV112\240625RVTical\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 01 06:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

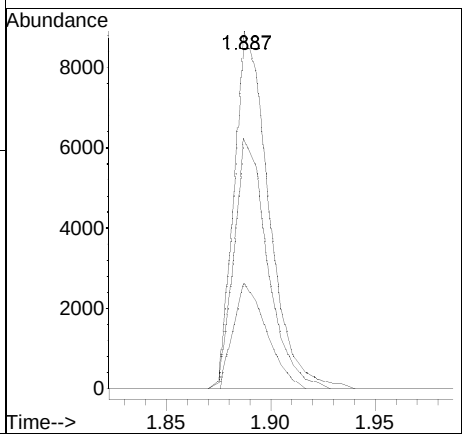


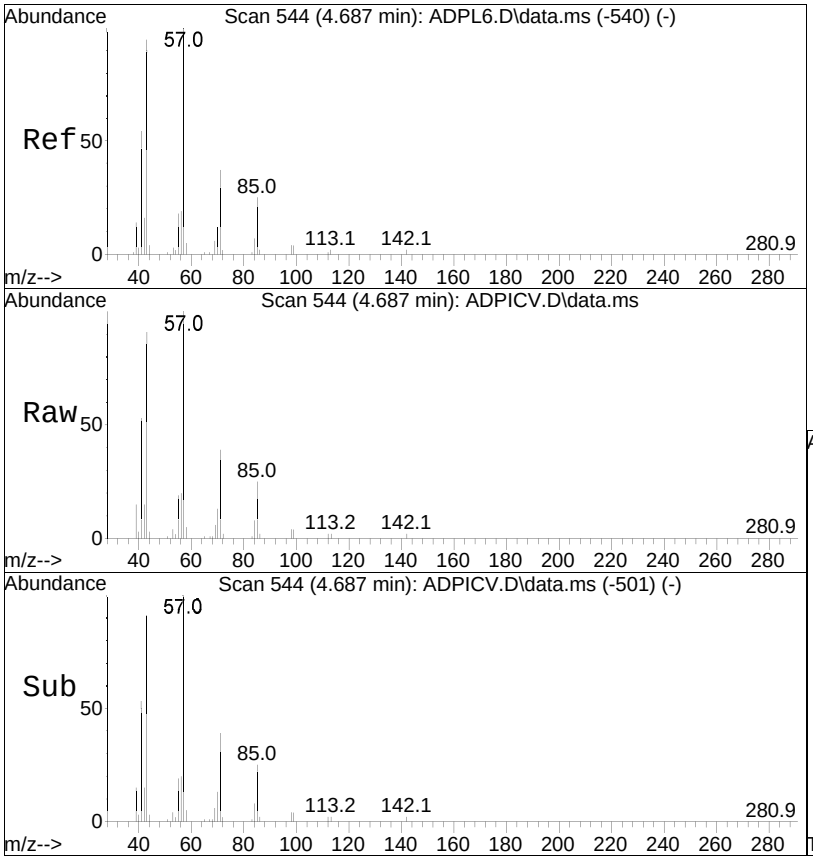


#33
1,4-Dioxane
Concen: 4.64 ug/ml
RT: 1.887 min Scan# 68
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 88 Resp: 10259

Ion	Ratio	Lower	Upper
88	100		
58	67.6	44.8	67.2#
43	28.3	22.4	33.6

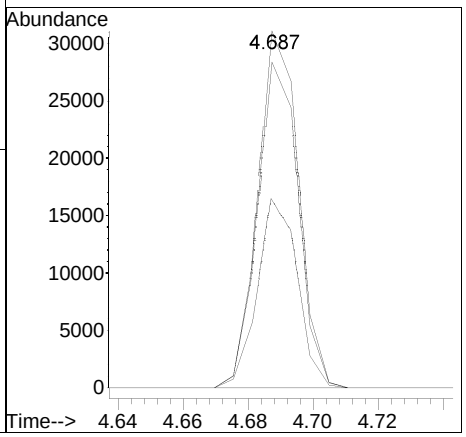


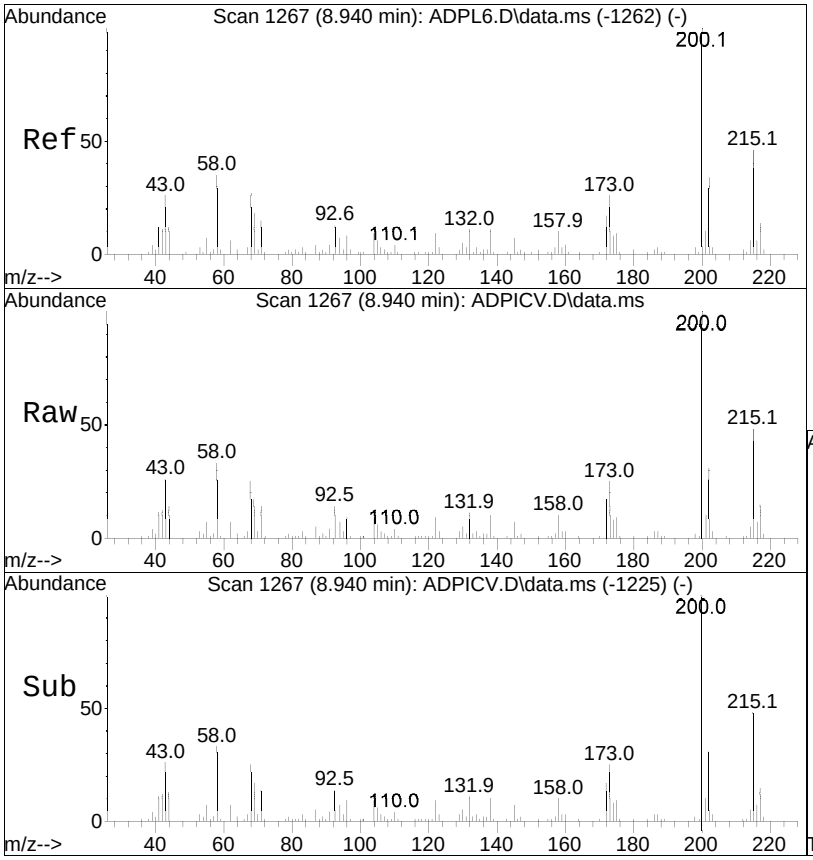


#34
n-Decane
Concen: 5.01 ug/ml
RT: 4.687 min Scan# 544
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 57 Resp: 26927

Ion	Ratio	Lower	Upper
57	100		
43	91.4	75.4	113.2
41	52.1	35.0	52.6

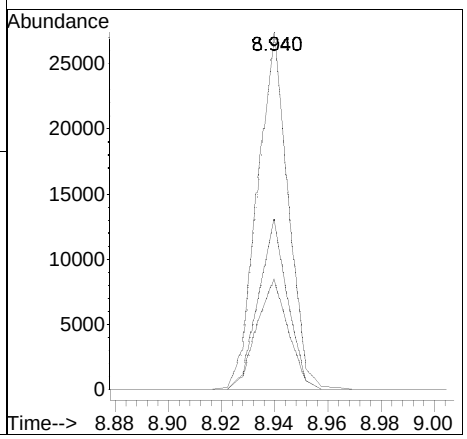


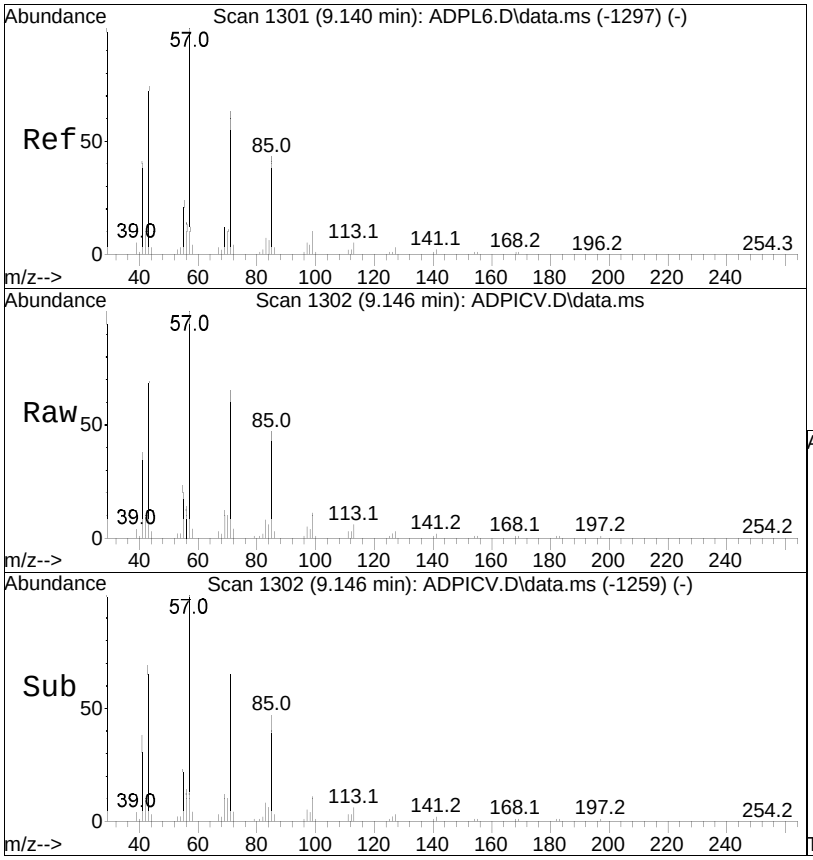


#87
Atrazine
Concen: 4.36 ug/ml
RT: 8.940 min Scan# 1267
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:200 Resp: 21793

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.0	37.6
215	45.2	34.5	51.7

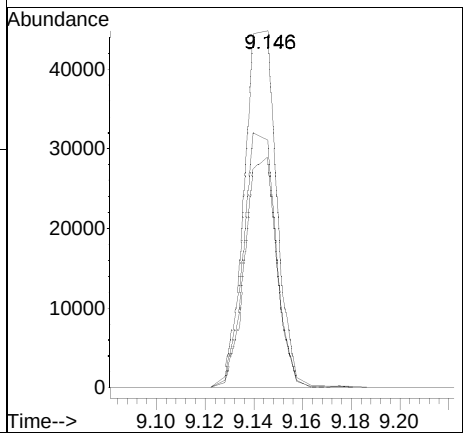


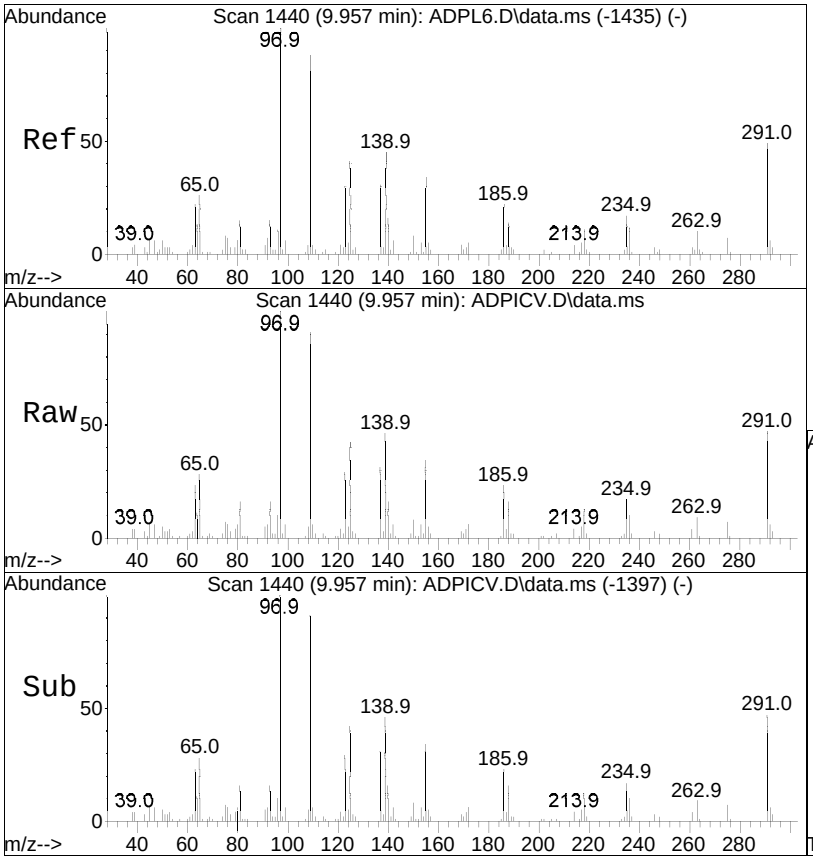


#101
n-Octadecane
Concen: 4.81 ug/ml
RT: 9.146 min Scan# 1302
Delta R.T. 0.006 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion: 57 Resp: 41233

Ion	Ratio	Lower	Upper
57	100		
43	70.9	54.3	81.5
71	62.9	45.1	67.7

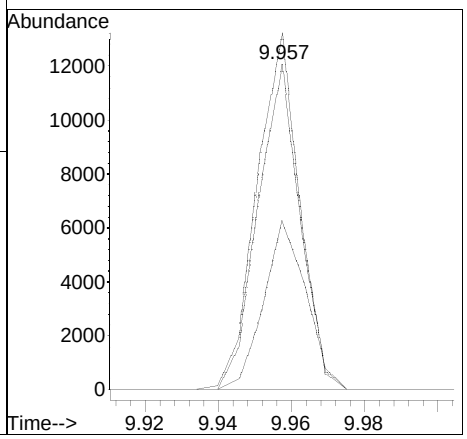


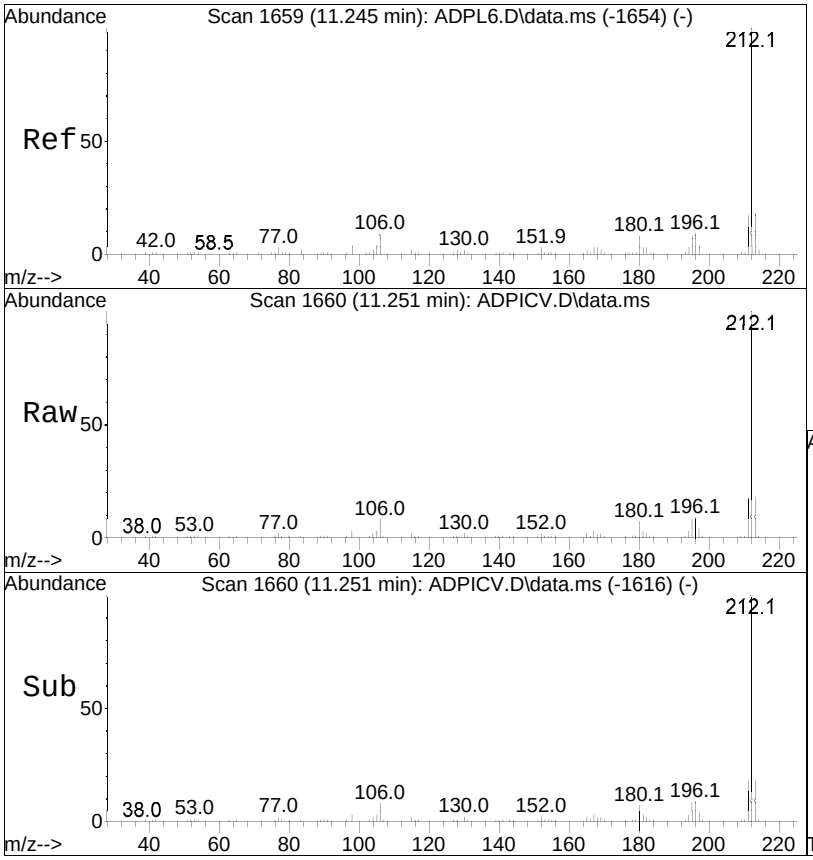


#102
Parathion
Concen: 3.99 ug/ml
RT: 9.957 min Scan# 1440
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:109 Resp: 9588

Ion	Ratio	Lower	Upper
109	100		
97	111.2	85.4	128.2
291	52.4	25.4	38.2#

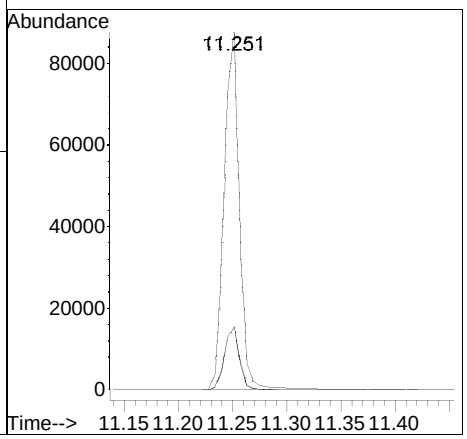




#103
3,3'-Dimethylbenzidine
Concen: 3.95 ug/ml
RT: 11.251 min Scan# 1660
Delta R.T. 0.006 min
Lab File: ADPICV.D
Acq: 26 Jun 2024 07:54 am

Tgt Ion:212 Resp: 84313

Ion	Ratio	Lower	Upper
212	100		
211	17.1	13.3	19.9
213	17.7	13.4	20.2



Manual Integration Report

Data Path	: I:\8270\SV112\240625RVTica	QMethod	: FS240625SV112RVT.m
Data File	: ADPICV.D	Operator	: SV112:mrg
Date Inj'd	: 6/26/2024 7:54 am	Instrument	: SV112
Sample	: CQICV3,32,,ADPICV Lot# 108	Quant Date	: 7/1/2024 6:18 am

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

Evaluate Relative Error Report SV112

Method Path : I:\8270\SV112\240625RVTical\
Method File : FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sun Jun 30 14:25:57 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.612	-7.8	2.50	2.700	8.0
60	T Caprolactam	L	ug/ml	5.0	4.695	-6.1	1.00	1.156	15.6
66	T 2,4-Dinitrophenol	Q	ug/ml	5.0	4.592	-8.2	0.50	0.607	21.4
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.193	-16.1	0.25	0.319	27.6
84	T Dichloran	L	ug/ml	5.0	4.379	-12.4	1.00	1.239	23.9
102	T Parathion	Q	ug/ml	5.0	4.172	-16.6	0.25	0.269	7.6
103	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.295	-14.1	0.50	0.560	12.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.999194	0.000000	0.256856	-0.0929314
60	T Caprolactam	Linear	0.998974	0.000000	0.182736	-0.0213123
66	T 2,4-Dinitrophenol	Quadratic	0.998454	0.002114	0.171832	-0.0162283
76	T 4,6-Dinitro-o-cresol	Linear	0.996627	0.000000	0.257628	-0.0149534
84	T Dichloran	Linear	0.996413	0.000000	0.264594	-0.0418721
102	T Parathion	Quadratic	0.998154	0.002810	0.0878995	-0.00258094
103	T 3,3'-Dimethylbenzidine	Linear	0.997070	0.000000	0.82599	-0.0414416

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/24/24 08:58		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1975506-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
n-Nitrosodimethylamine	0.657	0.635	-	3.3	20	74	0
Pyridine	1.043	1.025	-	1.7	20	72	0
2-Fluorophenol	1.05	1.045	-	0.5	20	82	0
Aniline	1.811	1.599	-	11.7	20	76	0
2-Chlorophenol	1.251	1.247	-	0.3	20	85	0
Phenol-d6	1.357	1.251	-	7.8	20	76	0
Phenol	1.577	1.45	-	8.1	20	77	0
Bis(2-chloroethyl)ether	1.167	1.029	-	11.8	20	77	0
1,3-Dichlorobenzene	1.508	1.459	-	3.2	20	82	0
1,4-Dichlorobenzene	1.575	1.459	-	7.4	20	82	0
1,2-Dichlorobenzene	1.475	1.398	-	5.2	20	82	0
Benzyl alcohol	0.945	0.864	-	8.6	20	76	0
Bis(2-chloroisopropyl)ethe	1.475	1.543	-	-4.6	20	90	0
2-Methylphenol	1.056	1.033	-	2.2	20	82	0
Hexachloroethane	0.558	0.503	-	9.9	20	78	0
n-Nitrosodi-n-propylamine	0.865	0.741	-	14.3	20	73	0
3-Methylphenol/4-Methylphe	1.15	1.096	-	4.7	20	79	0
Nitrobenzene-d5	1.294	1.153	-	10.9	20	75	0
Nitrobenzene	1.289	1.116	-	13.4	20	72	0
Isophorone	2.328	2.147	-	7.8	20	79	0
2-Nitrophenol	0.574	0.704	-	-22.6*	20	102	0
2,4-Dimethylphenol	1.101	1.077	-	2.2	20	90	0
Bis(2-chloroethoxy)methane	1.567	1.377	-	12.1	20	79	0
2,4-Dichlorophenol	1.153	1.227	-	-6.4	20	91	0
1,2,4-Trichlorobenzene	1.46	1.329	-	9	20	83	0
IS1_Naphthalene-d8	1	1	-	0	20	81	0
Naphthalene	1.049	1.013	-	3.4	20	83	0
Benzoic Acid	5	4.911	-	1.8	20	89	0
4-Chloroaniline	0.118	0.107	-	9.3	20	74	0
Hexachlorobutadiene	0.246	0.233	-	5.3	20	84	0
p-Chloro-m-cresol	0.277	0.282	-	-1.8	20	85	0
2-Methylnaphthalene	0.713	0.701	-	1.7	20	88	0
1-Methylnaphthalene	0.245	0.217	-	11.4	20	81	0
Hexachlorocyclopentadiene	0.251	0.301	-	-19.9	20	108	0
2,4,6-Trichlorophenol	0.256	0.286	-	-11.7	20	93	0
2,4,5-Trichlorophenol	0.262	0.304	-	-16	20	96	0
2-Fluorobiphenyl	0.904	0.912	-	-0.9	20	90	0
2-Chloronaphthalene	0.759	0.747	-	1.6	20	87	0
2-Nitroaniline	0.2	0.25	-	-25*	20	106	0
1,4-Dinitrobenzene	0.098	0.134	-	-36.7*	20	115	0
1,3-Dinitrobenzene	0.114	0.147	-	-28.9*	20	108	0
Dimethyl phthalate	0.923	0.976	-	-5.7	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/24/24 08:58		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1975506-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.12	1.197	-	-6.9	20	92	0
2,6-Dinitrotoluene	0.173	0.213	-	-23.1*	20	106	0
1,2-Dinitrobenzene	0.076	0.09	-	-18.4	20	104	0
IS1_Acenaphthene-d10	1	1	-	0	20	90	0
3-Nitroaniline	0.299	0.338	-	-13	20	99	0
Acenaphthene	1.115	1.044	-	6.4	20	91	0
2,4-Dinitrophenol	5	6.74	-	-34.8*	20	137	0
Dibenzofuran	1.837	1.762	-	4.1	20	92	0
2,4-Dinitrotoluene	0.383	0.438	-	-14.4	20	101	0
4-Nitrophenol	0.29	0.218	-	24.8*	20	69	0
2,3,5,6-Tetrachlorophenol	0.377	0.437	-	-15.9	20	102	0
2,3,4,6-Tetrachlorophenol	0.37	0.433	-	-17	20	107	0
Diethyl phthalate	1.487	1.483	-	0.3	20	100	0
Fluorene	1.431	1.406	-	1.7	20	94	0
4-Chlorophenyl phenyl ethe	0.78	0.724	-	7.2	20	94	0
4-Nitroaniline	0.314	0.373	-	-18.8	20	101	0
4,6-Dinitro-o-cresol	5	6.228	-	-24.6*	20	136	0
NDPA/DPA	1.231	1.209	-	1.8	20	95	0
Azobenzene	1.305	1.098	-	15.9	20	78	0
2,4,6-Tribromophenol	0.257	0.295	-	-14.8	20	112	0
4-Bromophenyl phenyl ether	0.5	0.491	-	1.8	20	100	0
Hexachlorobenzene	0.628	0.584	-	7	20	99	0
Pentachlorophenol	0.322	0.401	-	-24.5*	20	120	0
IS1_Phenanthrene-d10	1	1	-	0	20	91	0
Phenanthrene	1.058	1.044	-	1.3	20	94	0
Anthracene	1.035	1.066	-	-3	20	97	0
Carbazole	0.948	1.001	-	-5.6	20	96	0
Di-n-butylphthalate	1.034	1.224	-	-18.4	20	113	0
Fluoranthene	1.228	1.317	-	-7.2	20	102	0
Benzidine	0.675	0.869	-	-28.7*	20	113	0
Pyrene	1.301	1.369	-	-5.2	20	97	0
4-Terphenyl-d14	1.029	1.067	-	-3.7	20	101	0
Butyl benzyl phthalate	0.458	0.584	-	-27.5*	20	126	0
IS1_Chrysene-d12	1	1	-	0	20	101	0
Benzo(a)anthracene	1.284	1.233	-	4	20	100	0
3,3'-Dichlorobenzidine	0.468	0.518	-	-10.7	20	112	0
Chrysene	1.259	1.178	-	6.4	20	99	0
Bis(2-ethylhexyl)phthalate	0.639	0.832	-	-30.2*	20	138	0
Di-n-octylphthalate	0.979	1.335	-	-36.4*	20	136	0
Benzo(b)fluoranthene	1.317	1.352	-	-2.7	20	105	0
Benzo(k)fluoranthene	1.202	1.244	-	-3.5	20	98	0
Benzo(a)pyrene	1.149	1.236	-	-7.6	20	106	0
IS1_Perylene-d12	1	1	-	0	20	101	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/24/24 08:58		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1975506-3	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.118	1.257	-	-12.4	20	111	0
Dibenzo(a,h)anthracene	1.068	1.136	-	-6.4	20	106	0
Benzo(ghi)perylene	1.078	1.096	-	-1.7	20	104	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/24/24 09:43		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1975506-5	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	86	0
1,4-Dioxane	0.47	0.456	-	3	20	95	0
n-Decane	1.145	1.141	-	0.3	20	93	0
IS3_Acenaphthene-d10	1	1	-	0	20	86	0
Atrazine	0.441	0.512	-	-16.1	20	111	0
IS3_Phenanthrene-d10	1	1	-	0	20	81	0
n-Octadecane	0.315	0.363	-	-15.2	20	105	0
Parathion	5	6.73	-	-34.6*	20	135	0
3,3'-Dimethylbenzidine	5	6.313	-	-26.3*	20	121	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV112	**Calibration Date**	: 09/24/24 10:06		
Lab File ID	: AP90924A	**Init. Calib. Date(s)**	: 06/25/24	06/26/24	
Sample No	: WG1975506-4	**Init. Calib. Times**	: 20:18	07:31	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
Benzaldehyde	1.094	0.91	-	16.8	20	69	0
Acetophenone	1.903	1.53	-	19.6	20	63	0
m-Toluidine	1.828	1.515	-	17.1	20	64	0
2-Chloroaniline	1.742	1.459	-	16.2	20	67	0
IS2_Naphthalene-d8	1	1	-	0	20	78	0
a-Terpineol	0.277	0.235	-	15.2	20	66	0
3-Chloroaniline	0.15	0.11	-	26.7*	20	57	0
2,6-Dichlorophenol	0.326	0.303	-	7.1	20	70	0
1-chloro-2-nitrobenzene	0.143	0.128	-	10.5	20	68	0
Caprolactam	5	4.249	-	15	20	70	0
1,2,4,5-Tetrachlorobenzene	0.479	0.389	-	18.8	20	64	0
Biphenyl	1.026	0.856	-	16.6	20	65	0
IS2_Acenaphthene-d10	1	1	-	0	20	76	0
Dichloran	5	4.577	-	8.5	20	80	0
Pentachloronitrobenzene	0.235	0.213	-	9.4	20	72	0
IS2_Phenanthrene-d10	1	1	-	0	20	73	0
Diphenamid	0.515	0.512	-	0.6	20	70	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	84	0.00
2	T	n-Nitrosodimethylamine		0.657	0.635	3.3	74	0.00
3	T	Pyridine		1.043	1.025	1.7	72	0.00
4	S	2-Fluorophenol		1.050	1.045	0.5	82	0.00
5	T	Aniline		1.811	1.599	11.7	76	0.00
6	T	2-Chlorophenol		1.251	1.247	0.3	85	0.00
7	S	Phenol-d6		1.357	1.251	7.8	76	0.00
8	T	Phenol		1.577	1.450	8.1	77	0.00
9	T	Bis(2-chloroethyl)ether		1.167	1.029	11.8	77	0.00
10	T	1,3-Dichlorobenzene		1.508	1.459	3.2	82	0.00
11	T	1,4-Dichlorobenzene		1.575	1.459	7.4	82	0.00
12	T	1,2-Dichlorobenzene		1.475	1.398	5.2	82	0.00
13	T	Benzyl alcohol		0.945	0.864	8.6	76	0.00
14	T	Bis(2-chloroisopropyl)ether		1.475	1.543	-4.6	90	0.00
15	T	2-Methylphenol		1.056	1.033	2.2	82	0.00
16	T	Hexachloroethane		0.558	0.503	9.9	78	0.00
17	T	n-Nitrosodi-n-propylamine		0.865	0.741	14.3	73	0.00
18	T	3-Methylphenol/4-Methylphen		1.150	1.096	4.7	79	0.00
19	S	Nitrobenzene-d5		1.294	1.153	10.9	75	0.00
20	T	Nitrobenzene		1.289	1.116	13.4	72	0.00
21	T	Isophorone		2.328	2.147	7.8	79	0.00
22	T	2-Nitrophenol		0.574	0.704	-22.6#	102	0.00
23	T	2,4-Dimethylphenol		1.101	1.077	2.2	90	0.00
24	T	Bis(2-chloroethoxy)methane		1.567	1.377	12.1	79	0.00
25	T	2,4-Dichlorophenol		1.153	1.227	-6.4	91	0.00
26	T	1,2,4-Trichlorobenzene		1.460	1.329	9.0	83	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	81	0.00
36	T	Naphthalene		1.049	1.013	3.4	83	0.00
37	T	Benzoic Acid	*	5.000	4.911	1.8	89	0.00
38	T	4-Chloroaniline		0.118	0.107	9.3	74	0.00
39	T	Hexachlorobutadiene		0.246	0.233	5.3	84	0.00
40	T	p-Chloro-m-cresol		0.277	0.282	-1.8	85	0.00
41	T	2-Methylnaphthalene		0.713	0.701	1.7	88	0.00
42	T	1-Methylnaphthalene		0.245	0.217	11.4	81	0.00
43	T	Hexachlorocyclopentadiene		0.251	0.301	-19.9	108	0.00
44	T	2,4,6-Trichlorophenol		0.256	0.286	-11.7	93	0.00
45	T	2,4,5-Trichlorophenol		0.262	0.304	-16.0	96	0.00
46	S	2-Fluorobiphenyl		0.904	0.912	-0.9	90	0.00

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.759	0.747	1.6	87	0.00
48	T	2-Nitroaniline		0.200	0.250	-25.0#	106	0.00
49	T	1,4-Dinitrobenzene		0.098	0.134	-36.7#	115	0.00
50	T	1,3-Dinitrobenzene		0.114	0.147	-28.9#	108	0.00
51	T	Dimethyl phthalate		0.923	0.976	-5.7	96	0.00
52	T	Acenaphthylene		1.120	1.197	-6.9	92	0.00
53	T	2,6-Dinitrotoluene		0.173	0.213	-23.1#	106	0.00
54	T	1,2-Dinitrobenzene		0.076	0.090	-18.4	104	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	90	0.00
64	T	3-Nitroaniline		0.299	0.338	-13.0	99	0.00
65	T	Acenaphthene		1.115	1.044	6.4	91	0.00
66	T	2,4-Dinitrophenol	*	5.000	6.740	-34.8#	137	0.00
67	T	Dibenzofuran		1.837	1.762	4.1	92	0.00
68	T	2,4-Dinitrotoluene		0.383	0.438	-14.4	101	0.00
69	T	4-Nitrophenol		0.290	0.218	24.8#	69	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.377	0.437	-15.9	102	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.370	0.433	-17.0	107	0.00
72	T	Diethyl phthalate		1.487	1.483	0.3	100	0.00
73	T	Fluorene		1.431	1.406	1.7	94	0.00
74	T	4-Chlorophenyl phenyl ether		0.780	0.724	7.2	94	0.00
75	T	4-Nitroaniline		0.314	0.373	-18.8	101	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	6.228	-24.6#	136	0.00
77	T	NDPA/DPA		1.231	1.209	1.8	95	0.00
78	T	Azobenzene		1.305	1.098	15.9	78	0.00
79	S	2,4,6-Tribromophenol		0.257	0.295	-14.8	112	0.00
80	T	4-Bromophenyl phenyl ether		0.500	0.491	1.8	100	0.00
81	T	Hexachlorobenzene		0.628	0.584	7.0	99	0.00
82	T	Pentachlorophenol		0.322	0.401	-24.5#	120	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	91	0.00
89	T	Phenanthrene		1.058	1.044	1.3	94	0.00
90	T	Anthracene		1.035	1.066	-3.0	97	0.00
91	T	Carbazole		0.948	1.001	-5.6	96	0.00
92	T	Di-n-butylphthalate		1.034	1.224	-18.4	113	0.00
93	T	Fluoranthene		1.228	1.317	-7.2	102	0.00
94	T	Benzidine		0.675	0.869	-28.7#	113	0.00
95	T	Pyrene		1.301	1.369	-5.2	97	0.00
96	S	4-Terphenyl-d14		1.029	1.067	-3.7	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.458	0.584	-27.5#	126	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	101	0.00
105	T	Benzo(a)anthracene	1.284	1.233	4.0	100	0.00
106	T	3,3'-Dichlorobenzidine	0.468	0.518	-10.7	112	0.00
107	T	Chrysene	1.259	1.178	6.4	99	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.639	0.832	-30.2#	138	0.00
109	T	Di-n-octylphthalate	0.979	1.335	-36.4#	136	0.00
110	T	Benzo(b)fluoranthene	1.317	1.352	-2.7	105	0.00
111	T	Benzo(k)fluoranthene	1.202	1.244	-3.5	98	0.00
112	T	Benzo(a)pyrene	1.149	1.236	-7.6	106	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	101	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.118	1.257	-12.4	111	0.00
115	T	Dibenzo(a,h)anthracene	1.068	1.136	-6.4	106	0.00
116	T	Benzo(ghi)perylene	1.078	1.096	-1.7	104	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	17786	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	5.975	136	66392	4.000	ug/ml		0.00
63) IS1_Acenaphthene-d10	7.675	164	44283	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	9.104	188	94364	4.000	ug/ml	#	0.00
104) IS1_Chrysene-d12	11.739	240	112377	4.000	ug/ml	#	0.00
113) IS1_Perylene-d12	13.210	264	132148	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	23242	4.977	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 248.85%#				
7) Phenol-d6	4.416	99	27803	4.609	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 230.45%#				
19) Nitrobenzene-d5	5.281	82	25642	4.457	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 445.70%#				
46) 2-Fluorobiphenyl	7.040	172	75679	5.041	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 504.10%#				
79) 2,4,6-Tribromophenol	8.440	330	16303	5.735	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 286.75%#				
96) 4-Terphenyl-d14	10.681	244	125890	5.187	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 518.70%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.099	74	14118	4.832	ug/ml#		94
3) Pyridine	2.134	79	22796M1	4.917	ug/ml		
5) Aniline	4.422	93	35544	4.414	ug/ml#		54
6) 2-Chlorophenol	4.534	128	27728	4.986	ug/ml		92
8) Phenol	4.428	94	32247	4.599	ug/ml#		55
9) Bis(2-chloroethyl)ether	4.505	93	22882	4.409	ug/ml		96
10) 1,3-Dichlorobenzene	4.687	146	32444	4.837	ug/ml		95
11) 1,4-Dichlorobenzene	4.758	146	32440	4.633	ug/ml		93
12) 1,2-Dichlorobenzene	4.905	146	31075	4.737	ug/ml		94
13) Benzyl alcohol	4.893	79	19214	4.574	ug/ml		93
14) Bis(2-chloroisopropyl)...	5.034	45	34308	5.232	ug/ml#		70
15) 2-Methylphenol	5.016	108	22957	4.887	ug/ml		97
16) Hexachloroethane	5.234	117	11177	4.507	ug/ml#		55
17) n-Nitrosodi-n-propylamine	5.157	70	16483	4.284	ug/ml		96
18) 3-Methylphenol/4-Methy...	5.175	108	24364	4.763	ug/ml		95
20) Nitrobenzene	5.299	77	24807	4.327	ug/ml		92
21) Isophorone	5.540	82	47742	4.612	ug/ml		96
22) 2-Nitrophenol	5.616	139	15645	6.127	ug/ml#		86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.687	107	23949	4.891	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.775	93	30614	4.394	ug/ml	98
25) 2,4-Dichlorophenol	5.852	162	27275	5.321	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.928	180	29552	4.552	ug/ml	95
36) Naphthalene	5.993	128	84110	4.833	ug/ml	100
37) Benzoic Acid	5.746	105	14769	4.911	ug/ml	92
38) 4-Chloroaniline	6.063	65	8916	4.558	ug/ml#	70
39) Hexachlorobutadiene	6.146	225	19296	4.730	ug/ml	98
40) p-Chloro-m-cresol	6.552	107	23412	5.094	ug/ml#	84
41) 2-Methylnaphthalene	6.669	142	58170	4.914	ug/ml	97
42) 1-Methylnaphthalene	6.763	115	17993	4.420	ug/ml	83
43) Hexachlorocyclopentadiene	6.840	237	24946	5.991	ug/ml	97
44) 2,4,6-Trichlorophenol	6.957	196	23770M3	5.584	ug/ml	
45) 2,4,5-Trichlorophenol	6.987	196	25189	5.784	ug/ml	98
47) 2-Chloronaphthalene	7.140	162	62035	4.927	ug/ml	92
48) 2-Nitroaniline	7.246	138	20756	6.239	ug/ml#	80
49) 1,4-Dinitrobenzene	7.375	168	11158	6.838	ug/ml#	65
50) 1,3-Dinitrobenzene	7.451	168	12181	6.438	ug/ml#	65
51) Dimethyl phthalate	7.446	163	80972	5.287	ug/ml	100
52) Acenaphthylene	7.534	152	99333	5.344	ug/ml	99
53) 2,6-Dinitrotoluene	7.487	165	17645	6.160	ug/ml#	79
54) 1,2-Dinitrobenzene	7.534	168	7478	5.931	ug/ml#	23
64) 3-Nitroaniline	7.646	138	18697	5.652	ug/ml#	84
65) Acenaphthene	7.704	154	57778	4.682	ug/ml	96
66) 2,4-Dinitrophenol	7.746	184	12368	6.740	ug/ml#	76
67) Dibenzofuran	7.875	168	97515	4.795	ug/ml	90
68) 2,4-Dinitrotoluene	7.875	165	24252	5.715	ug/ml#	76
69) 4-Nitrophenol	7.828	65	12050	3.760	ug/ml#	75
70) 2,3,5,6-Tetrachlorophenol	7.963	232	24203	5.805	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	8.004	232	23950	5.848	ug/ml	96
72) Diethyl phthalate	8.134	149	82077	4.987	ug/ml	97
73) Fluorene	8.204	166	77800	4.912	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.222	204	40102	4.646	ug/ml#	81
75) 4-Nitroaniline	8.228	138	20655	5.935	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.263	198	17101	6.228	ug/ml#	67
77) NDPA/DPA	8.340	169	66926	4.912	ug/ml	97
78) Azobenzene	8.375	77	60798	4.208	ug/ml#	90
80) 4-Bromophenyl phenyl e...	8.693	248	27173	4.914	ug/ml#	79
81) Hexachlorobenzene	8.746	284	32309	4.650	ug/ml#	82
82) Pentachlorophenol	8.934	266	22175	6.215	ug/ml	99
89) Phenanthrene	9.128	178	123177	4.935	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	9.175	178	125758	5.149	ug/ml	98
91) Carbazole	9.345	167	118069	5.280	ug/ml	98
92) Di-n-butylphthalate	9.728	149	144392	5.919	ug/ml	99
93) Fluoranthene	10.281	202	155393	5.365	ug/ml#	93
94) Benzidine	10.428	184	102493	6.436	ug/ml#	96
95) Pyrene	10.498	202	161483	5.260	ug/ml	99
97) Butyl benzyl phthalate	11.204	149	68903	6.384	ug/ml#	85
105) Benzo(a)anthracene	11.728	228	173192M3	4.800	ug/ml	
106) 3,3'-Dichlorobenzidine	11.728	252	72750	5.535	ug/ml#	96
107) Chrysene	11.769	228	165530	4.679	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.845	149	116895	6.515	ug/ml#	98
109) Di-n-octylphthalate	12.522	149	187474	6.818	ug/ml#	94
110) Benzo(b)fluoranthene	12.839	252	189915	5.131	ug/ml#	96
111) Benzo(k)fluoranthene	12.863	252	174730M3	5.172	ug/ml	
112) Benzo(a)pyrene	13.151	252	173630	5.377	ug/ml#	95
114) Indeno(1,2,3-cd)pyrene	14.192	276	207630M6	5.619	ug/mL	
115) Dibenzo(a,h)anthracene	14.216	278	187725	5.320	ug/ml#	91
116) Benzo(ghi)perylene	14.445	276	181062	5.085	ug/ml#	91

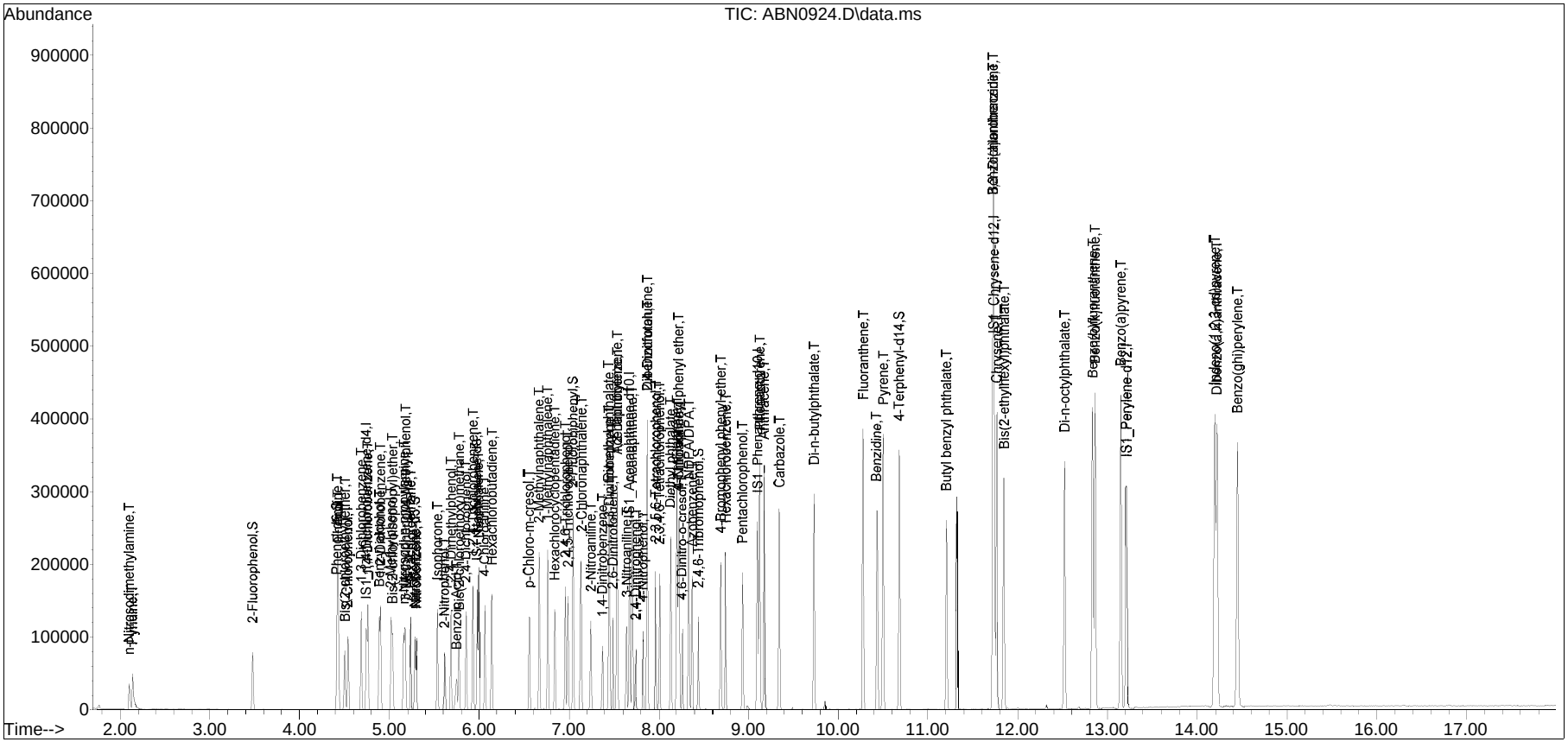
(#) = qualifier out of range (m) = manual integration (+) = signals summed

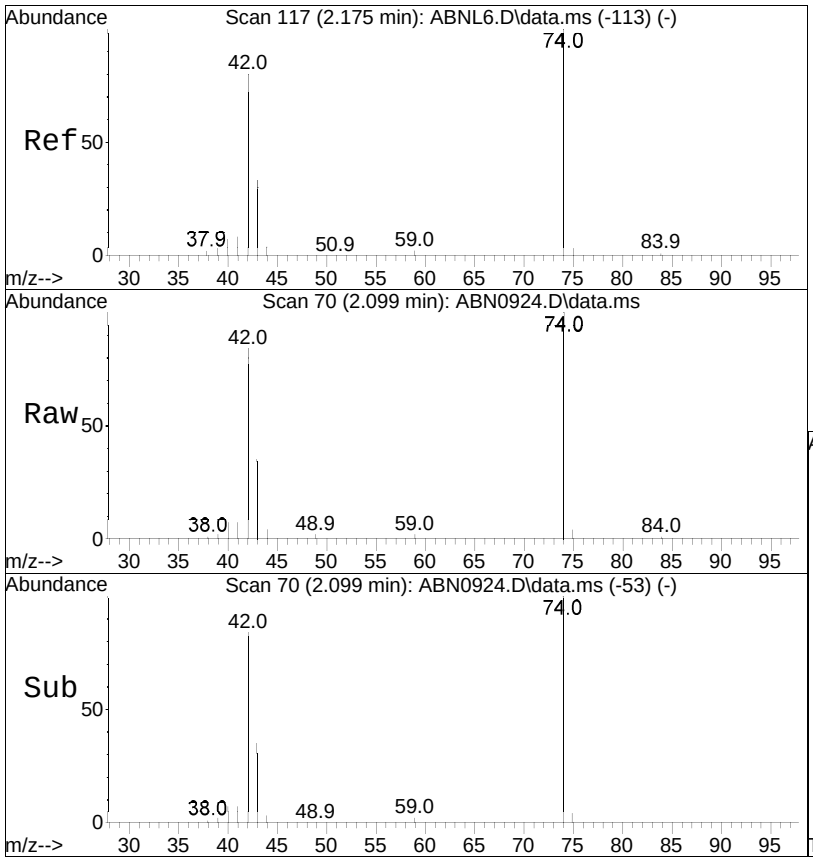
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 08:58 am
Operator : SV112:slr
Sample : WG1975506-3,32,,ABN 10908 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 12:54:35 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 09:30:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

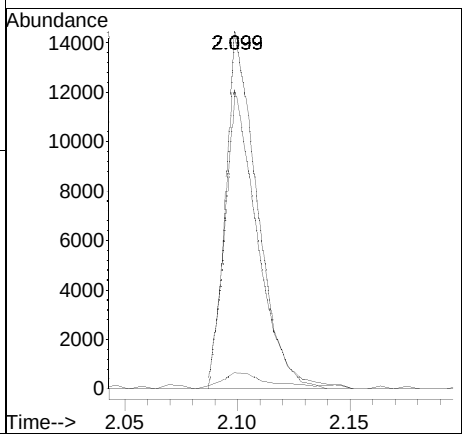


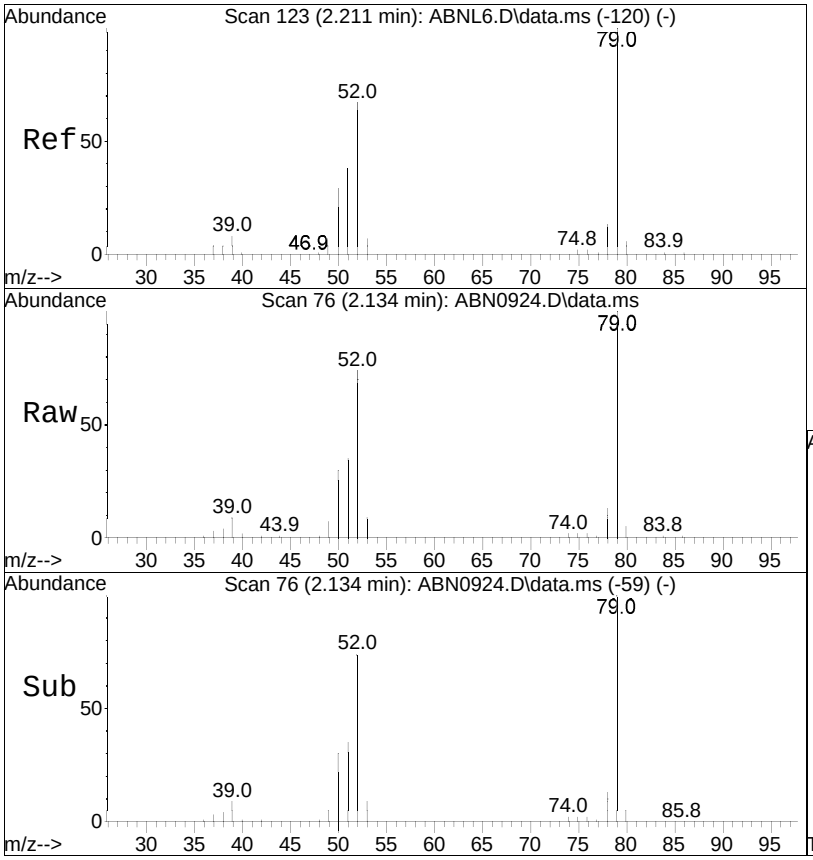


#2
n-Nitrosodimethylamine
Concen: 4.83 ug/ml
RT: 2.099 min Scan# 70
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 74 Resp: 14118

Ion	Ratio	Lower	Upper
74	100		
42	84.9	63.8	95.8
44	7.5	4.3	6.5#

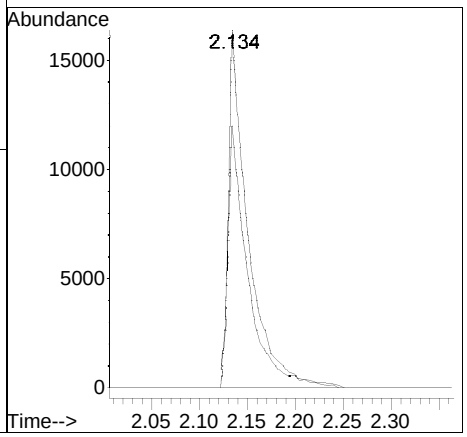


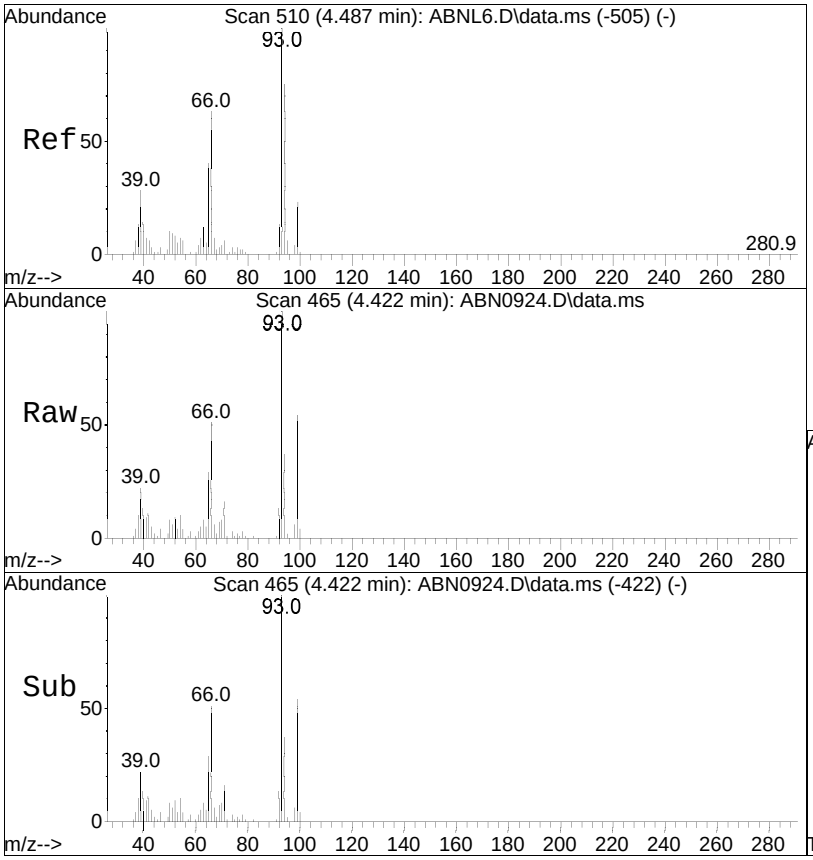


#3
Pyridine
Concen: 4.92 ug/ml M1
RT: 2.134 min Scan# 76
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 79 Resp: 22796

Ion	Ratio	Lower	Upper
79	100		
52	73.9	64.6	96.8

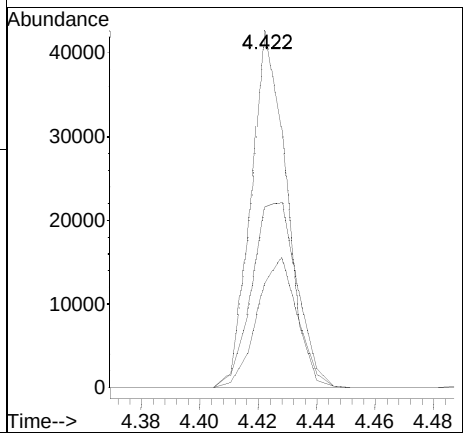


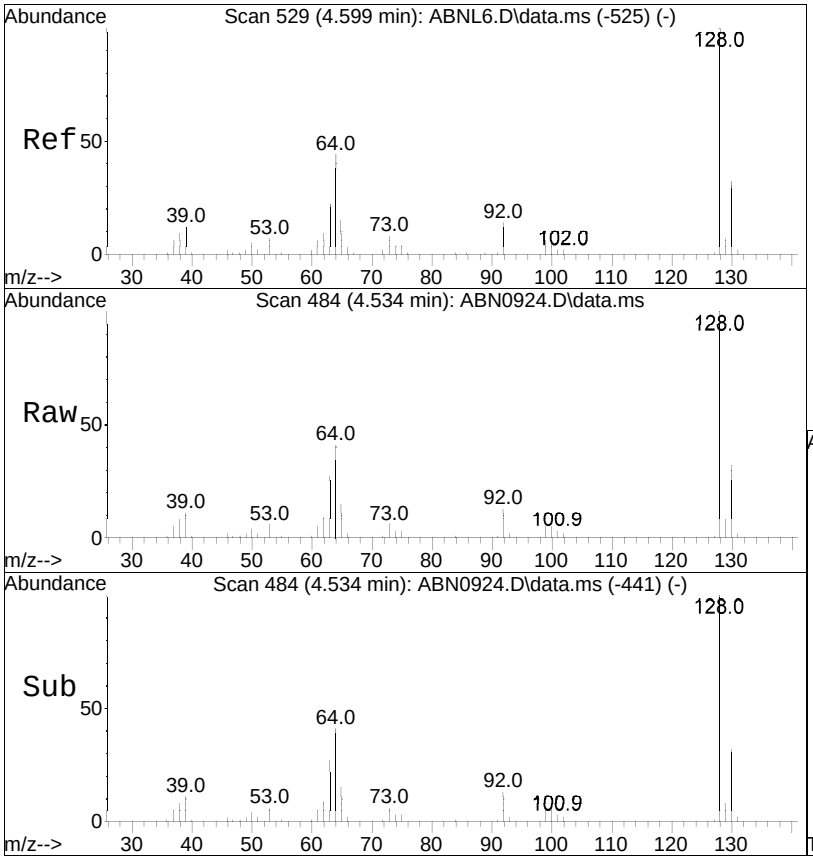


#5
Aniline
Concen: 4.41 ug/ml
RT: 4.422 min Scan# 465
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 93 Resp: 35544

Ion	Ratio	Lower	Upper
93	100		
66	66.8	31.3	46.9#
65	42.2	16.6	25.0#

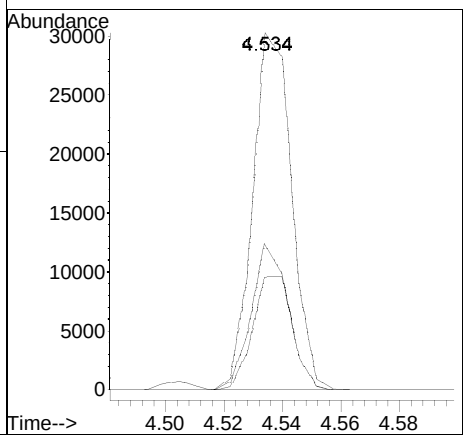


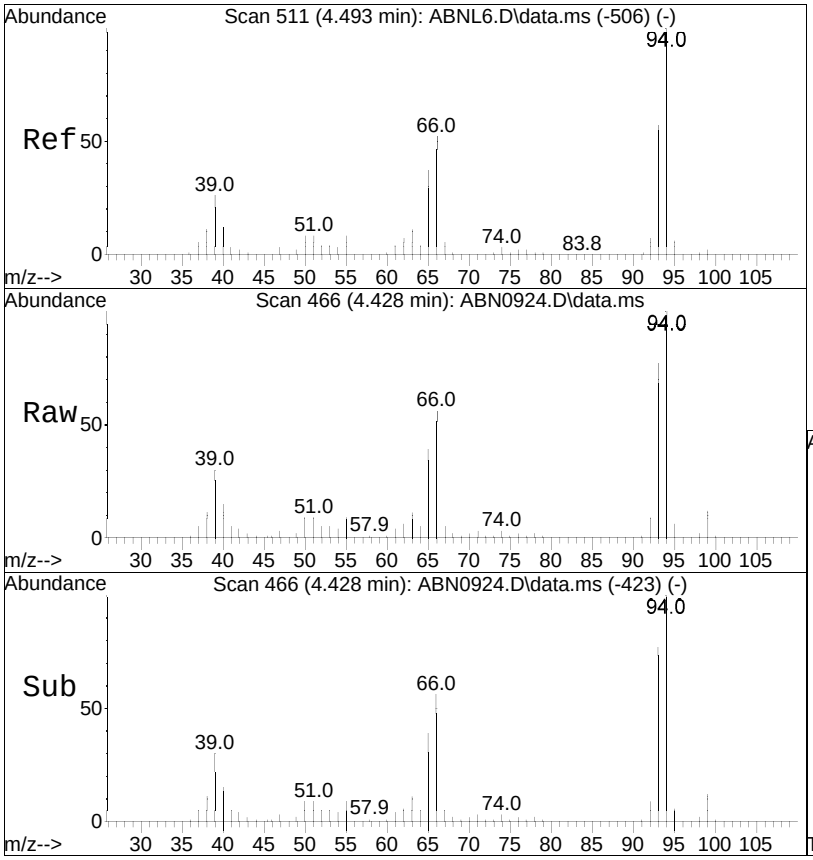


#6
2-Chlorophenol
Concen: 4.99 ug/ml
RT: 4.534 min Scan# 484
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:128 Resp: 27728

Ion	Ratio	Lower	Upper
128	100		
64	39.0	38.2	57.4
130	32.7	26.2	39.2

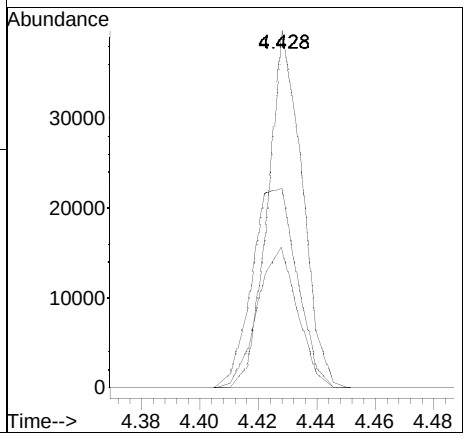


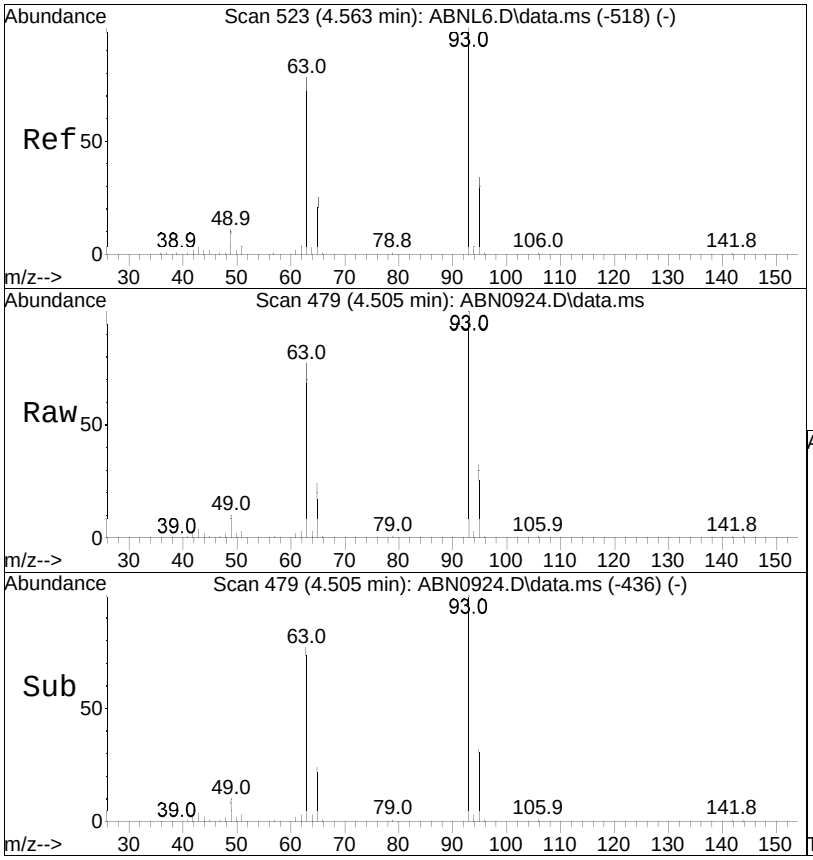


#8
Phenol
Concen: 4.60 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 94 Resp: 32247

Ion	Ratio	Lower	Upper
94	100		
65	46.5	23.0	34.6#
66	73.7	32.1	48.1#

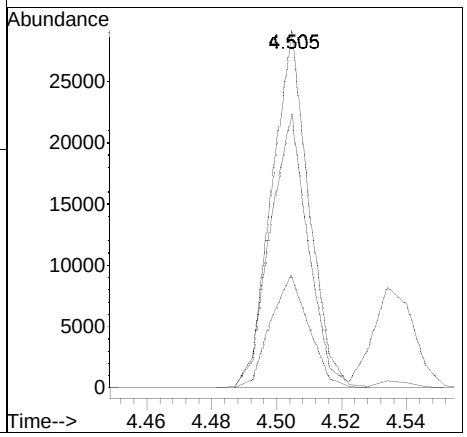


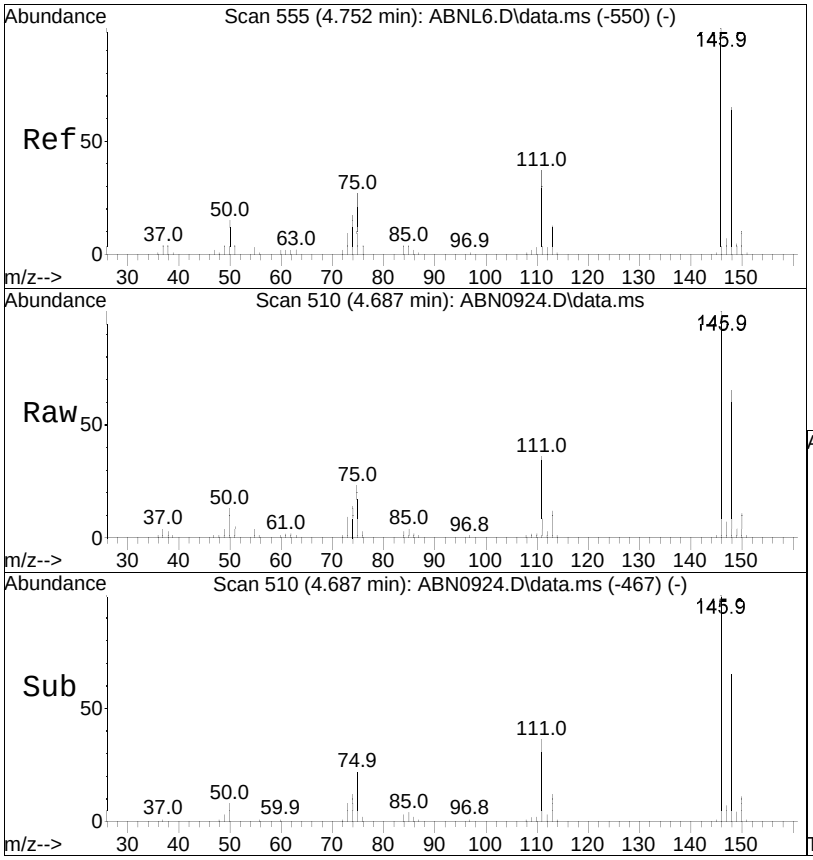


#9
Bis(2-chloroethyl)ether
Concen: 4.41 ug/ml
RT: 4.505 min Scan# 479
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 93 Resp: 22882

Ion	Ratio	Lower	Upper
93	100		
63	79.2	67.0	100.4
95	32.8	26.1	39.1

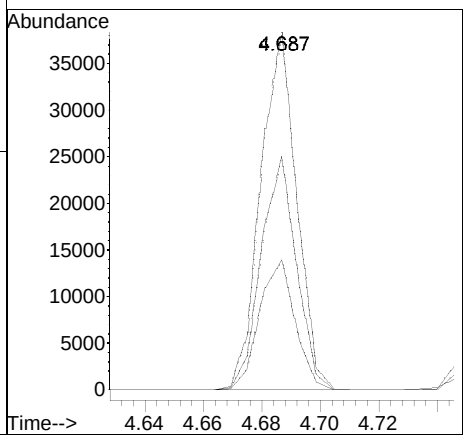


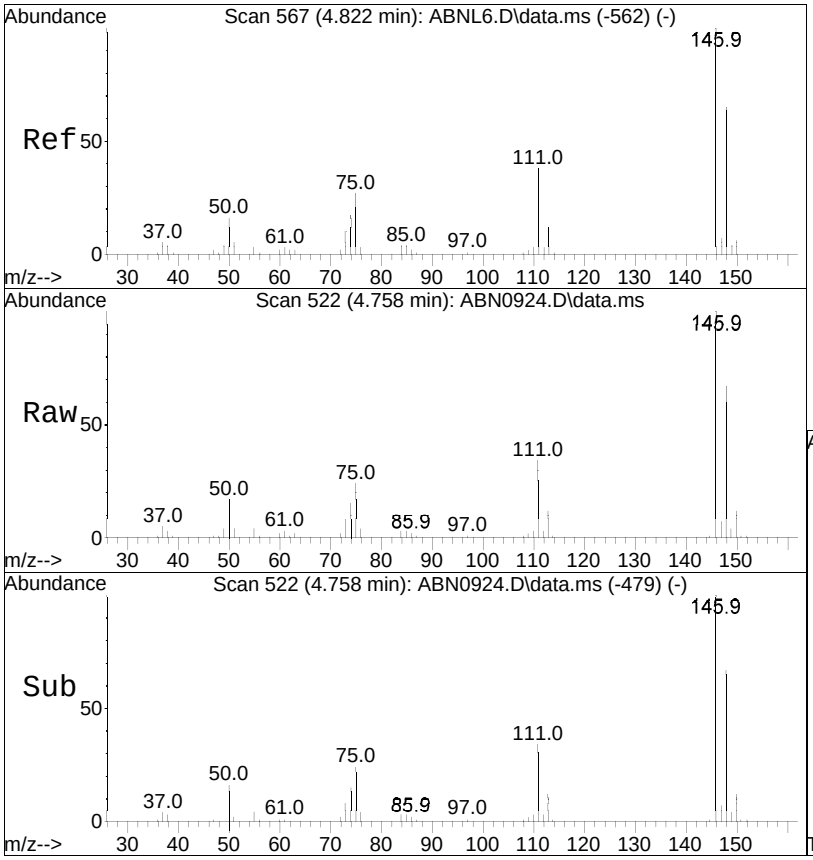


#10
1,3-Dichlorobenzene
Concen: 4.84 ug/ml
RT: 4.687 min Scan# 510
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:146 Resp: 32444

Ion	Ratio	Lower	Upper
146	100		
111	36.2	35.0	52.4
148	64.0	51.3	76.9

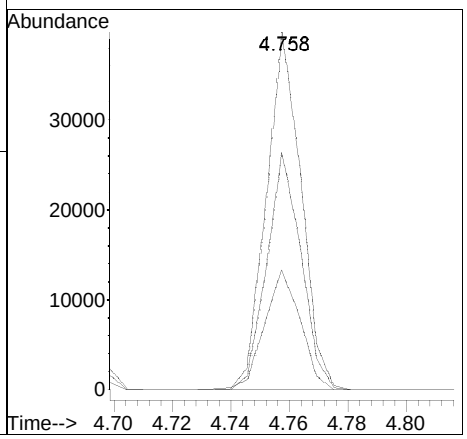


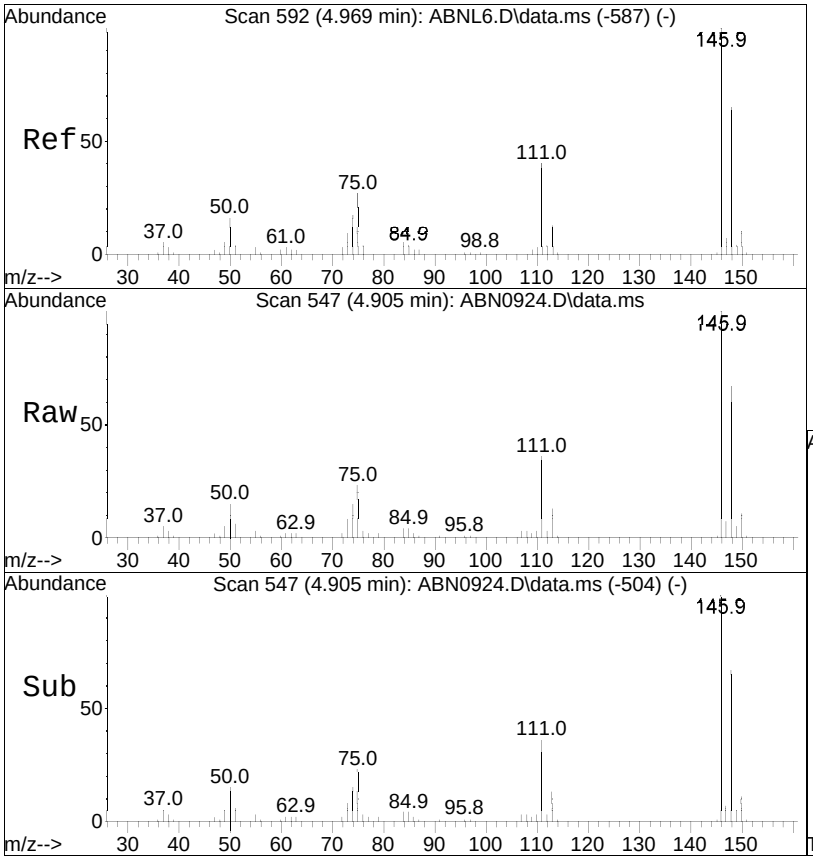


#11
1,4-Dichlorobenzene
Concen: 4.63 ug/ml
RT: 4.758 min Scan# 522
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:146 Resp: 32440

Ion	Ratio	Lower	Upper
146	100		
148	65.6	51.1	76.7
111	34.7	34.4	51.6

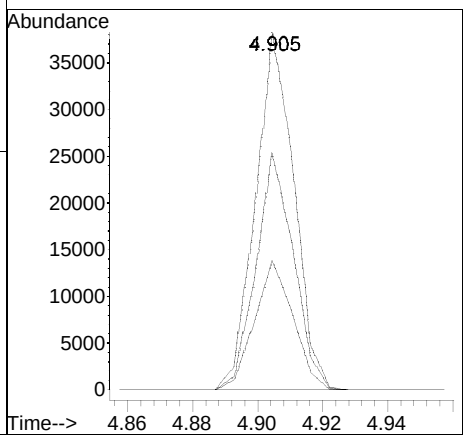


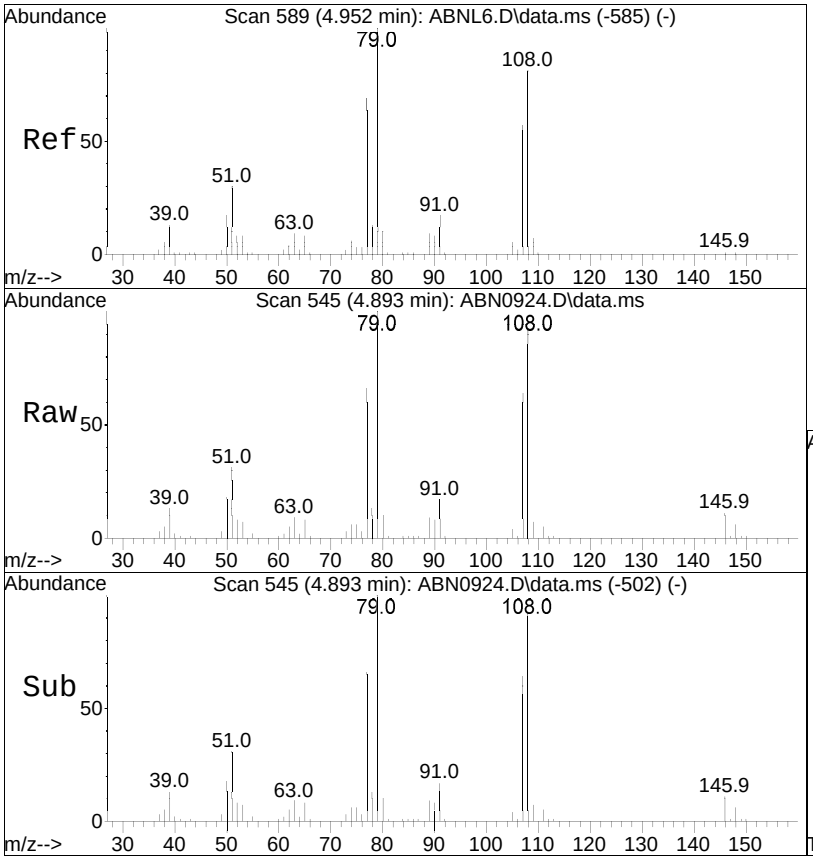


#12
1,2-Dichlorobenzene
Concen: 4.74 ug/ml
RT: 4.905 min Scan# 547
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:146 Resp: 31075

Ion	Ratio	Lower	Upper
146	100		
111	36.4	35.5	53.3
148	64.8	50.6	76.0

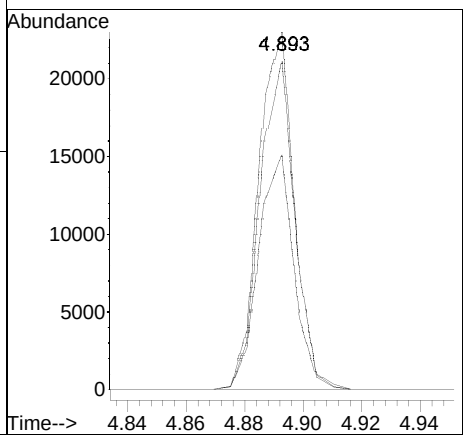


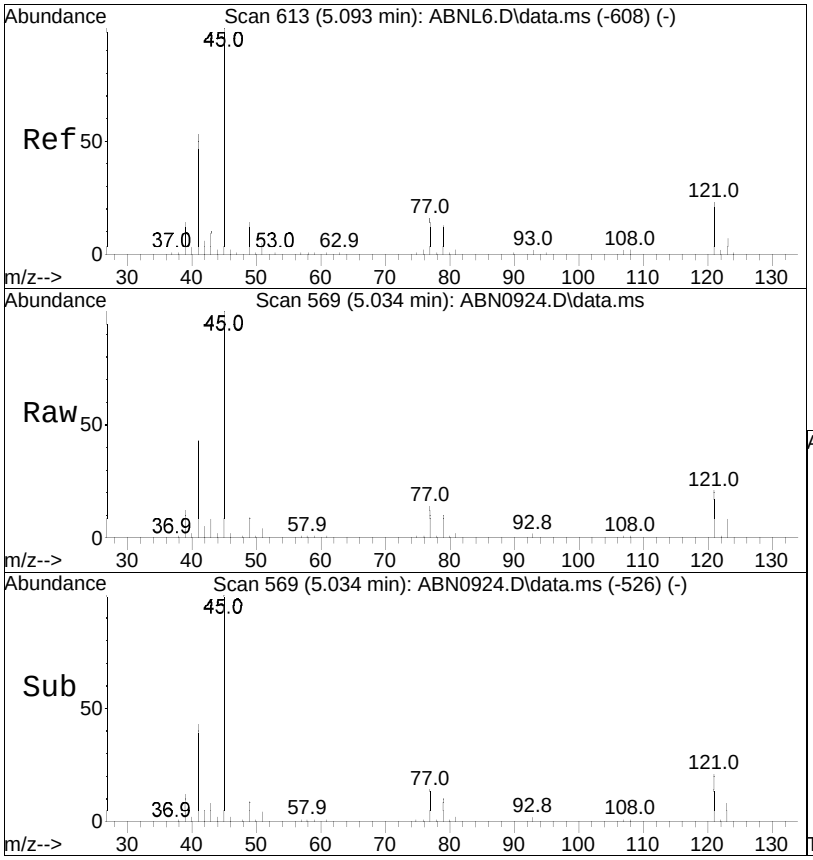


#13
Benzyl alcohol
Concen: 4.57 ug/ml
RT: 4.893 min Scan# 545
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 79 Resp: 19214

Ion	Ratio	Lower	Upper
79	100		
77	65.5	51.8	77.6
108	90.4	63.9	95.9

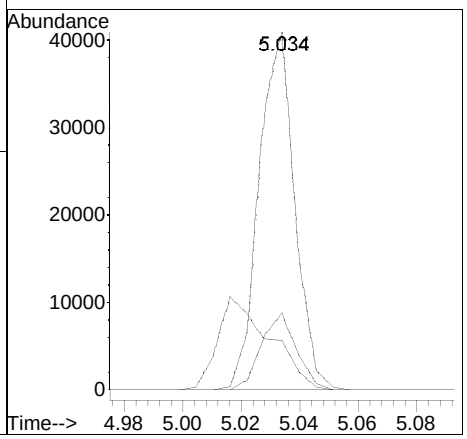


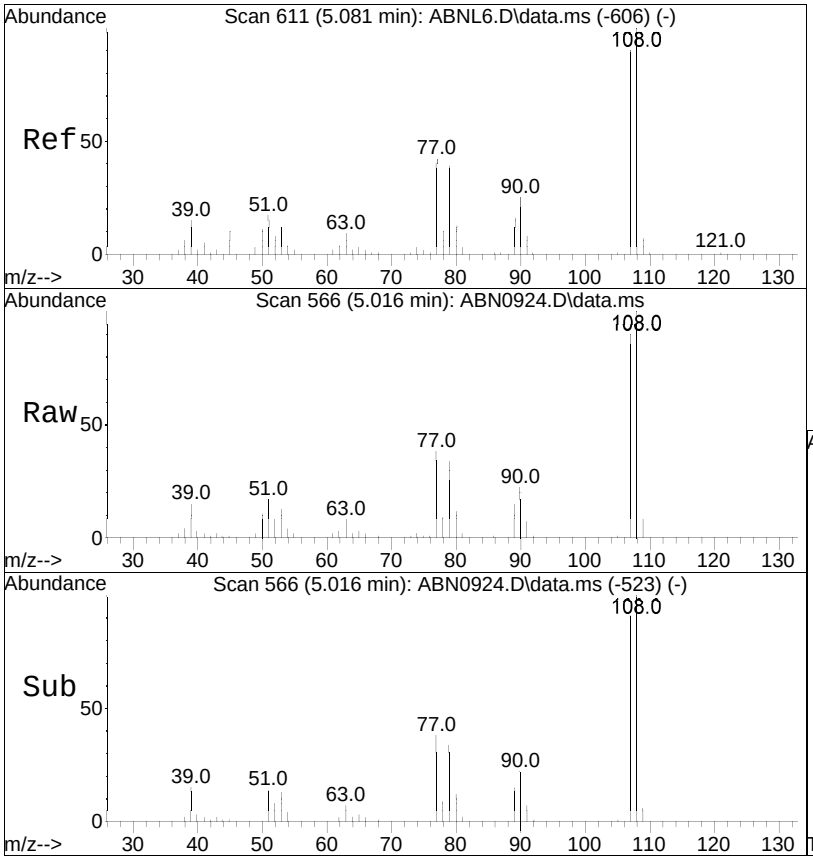


#14
Bis(2-chloroisopropyl)ether
Concen: 5.23 ug/ml
RT: 5.034 min Scan# 569
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 45 Resp: 34308

Ion	Ratio	Lower	Upper
45	100		
121	21.3	14.8	22.2
77	38.2	10.5	15.7#

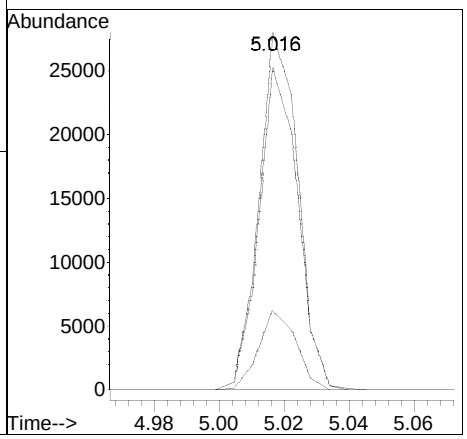


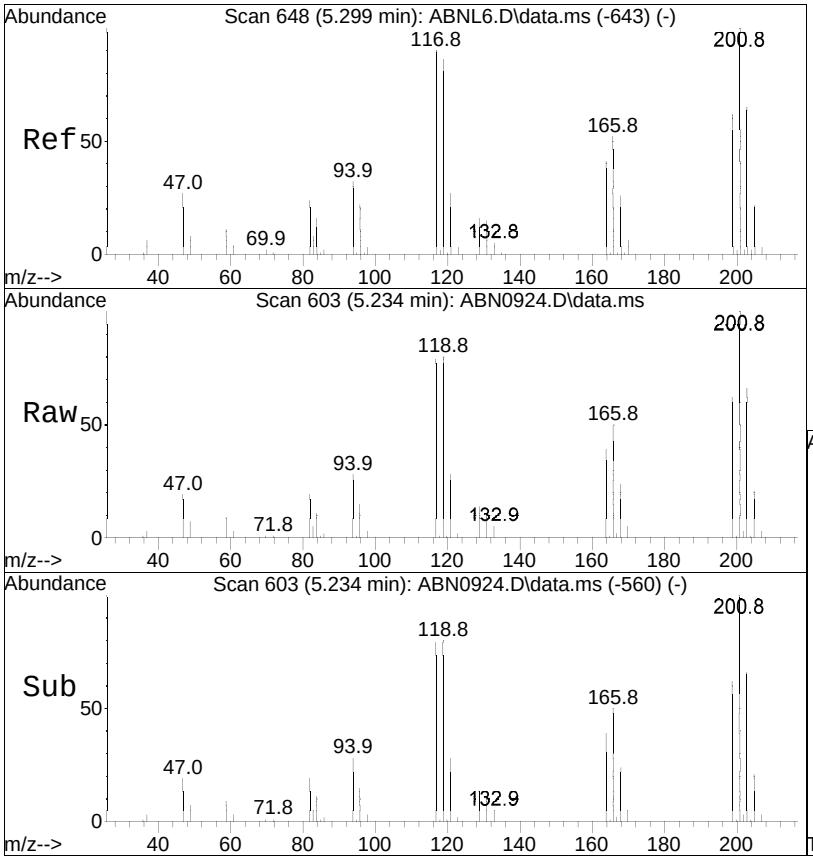


#15
2-Methylphenol
Concen: 4.89 ug/ml
RT: 5.016 min Scan# 566
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:108 Resp: 22957

Ion	Ratio	Lower	Upper
108	100		
107	90.3	71.0	106.4
90	21.6	19.7	29.5

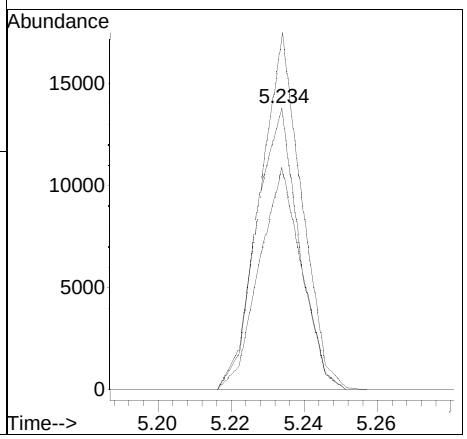


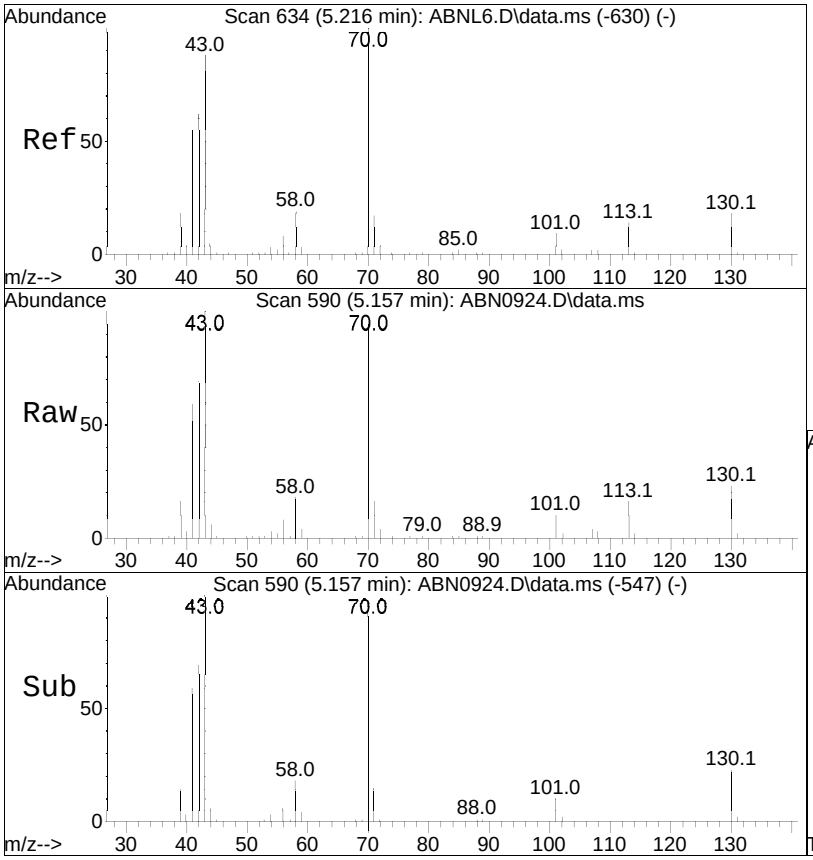


#16
Hexachloroethane
Concen: 4.51 ug/ml
RT: 5.234 min Scan# 603
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:117 Resp: 11177

Ion	Ratio	Lower	Upper
117	100		
201	122.9	64.4	96.6#
199	78.8	40.5	60.7#

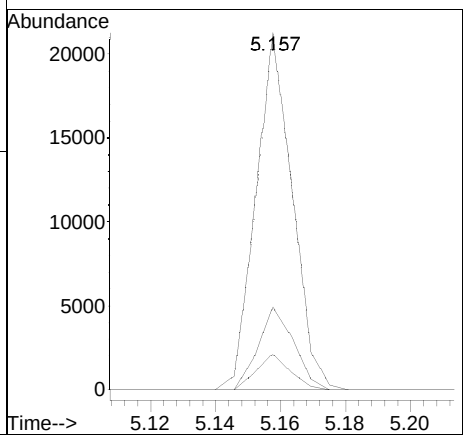


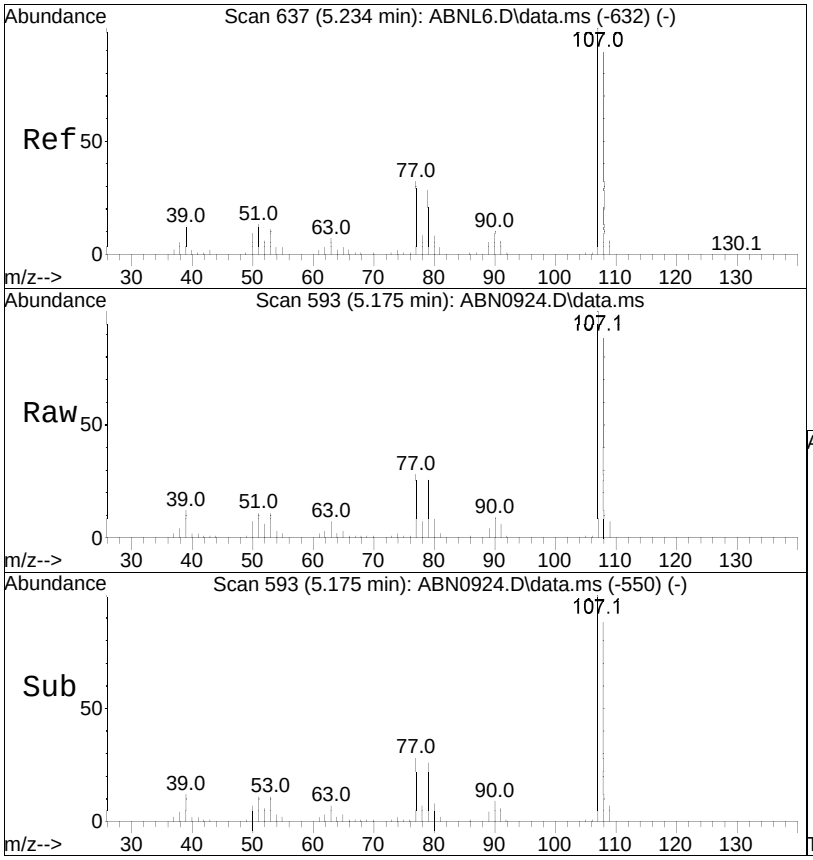


#17
n-Nitrosodi-n-propylamine
Concen: 4.28 ug/ml
RT: 5.157 min Scan# 590
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 70 Resp: 16483

Ion	Ratio	Lower	Upper
70	100		
130	22.6	16.2	24.4
101	9.3	7.6	11.4

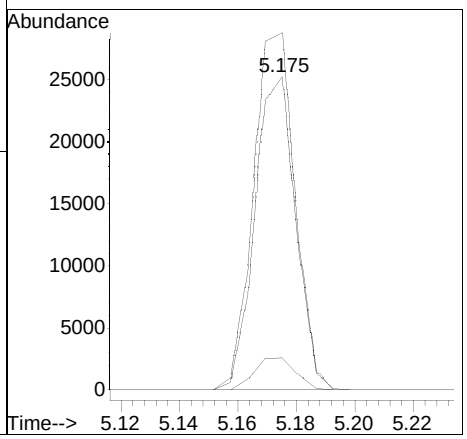


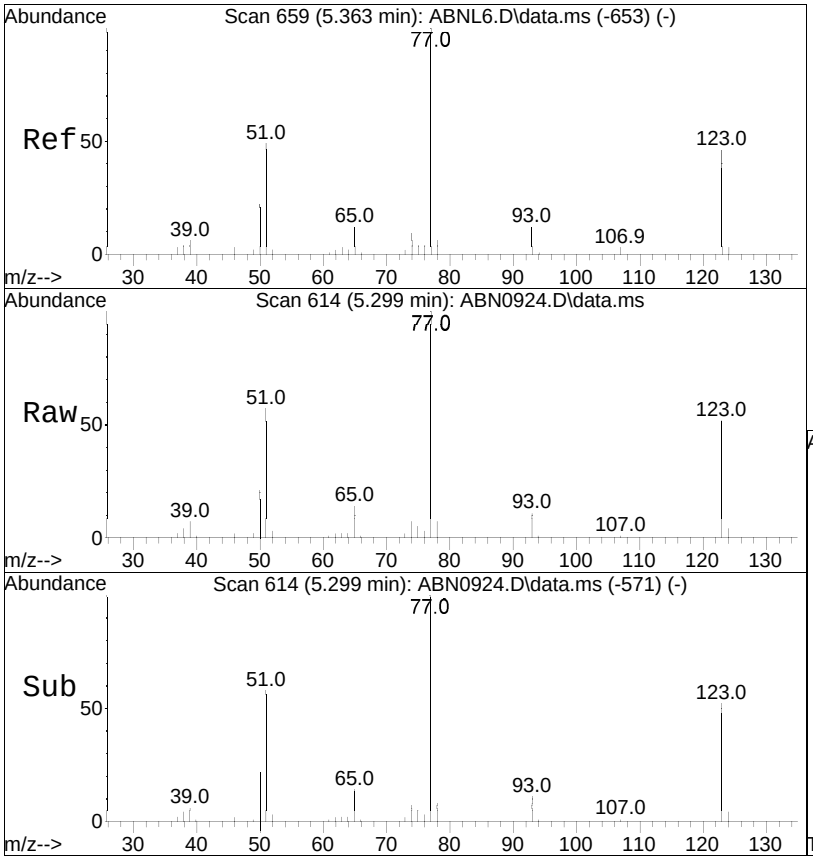


#18
3-Methylphenol/4-Methylphenol
Concen: 4.76 ug/ml
RT: 5.175 min Scan# 593
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:108 Resp: 24364

Ion	Ratio	Lower	Upper
108	100		
107	116.9	88.8	133.2
90	10.4	9.0	13.6

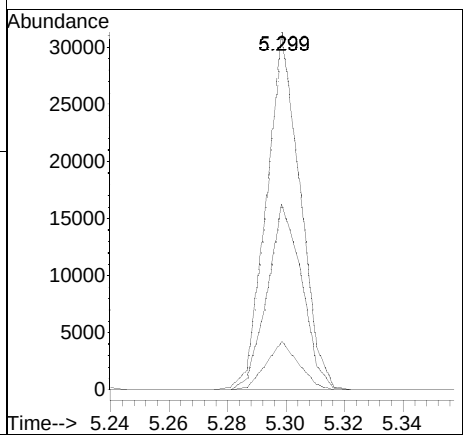


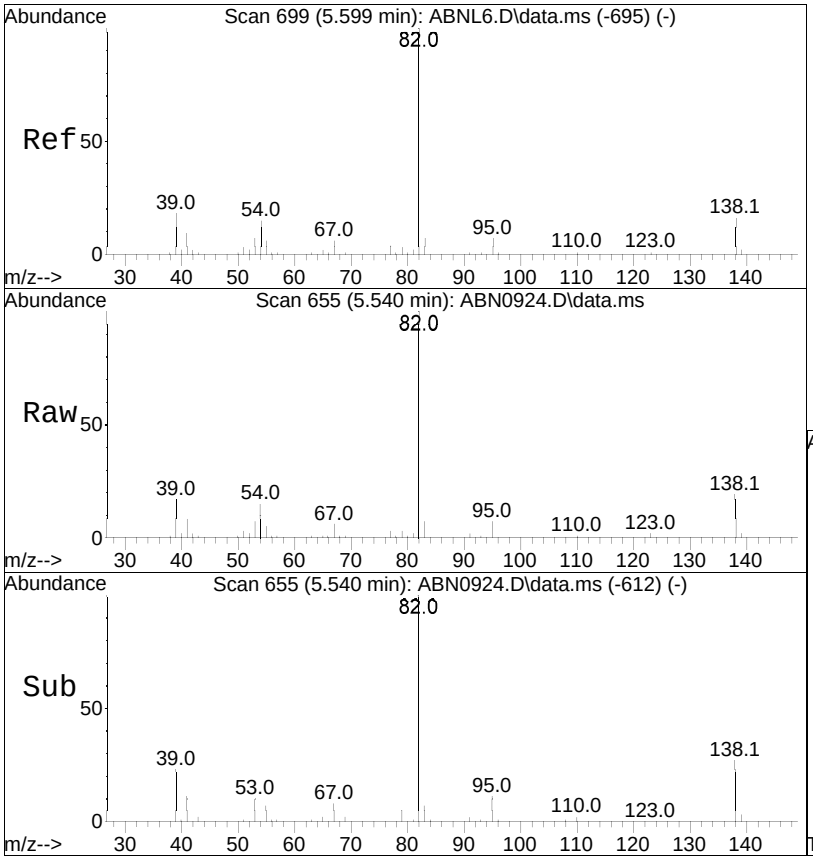


#20
Nitrobenzene
Concen: 4.33 ug/ml
RT: 5.299 min Scan# 614
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 77 Resp: 24807

Ion	Ratio	Lower	Upper
77	100		
123	53.7	37.3	55.9
65	13.3	10.9	16.3

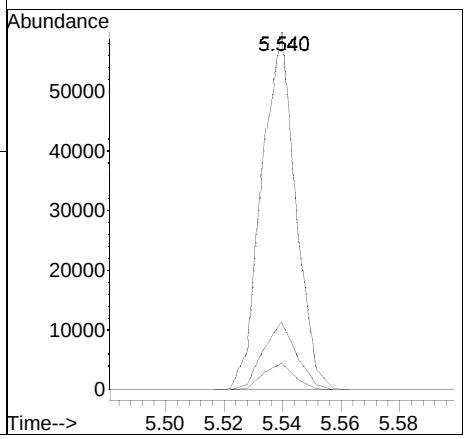


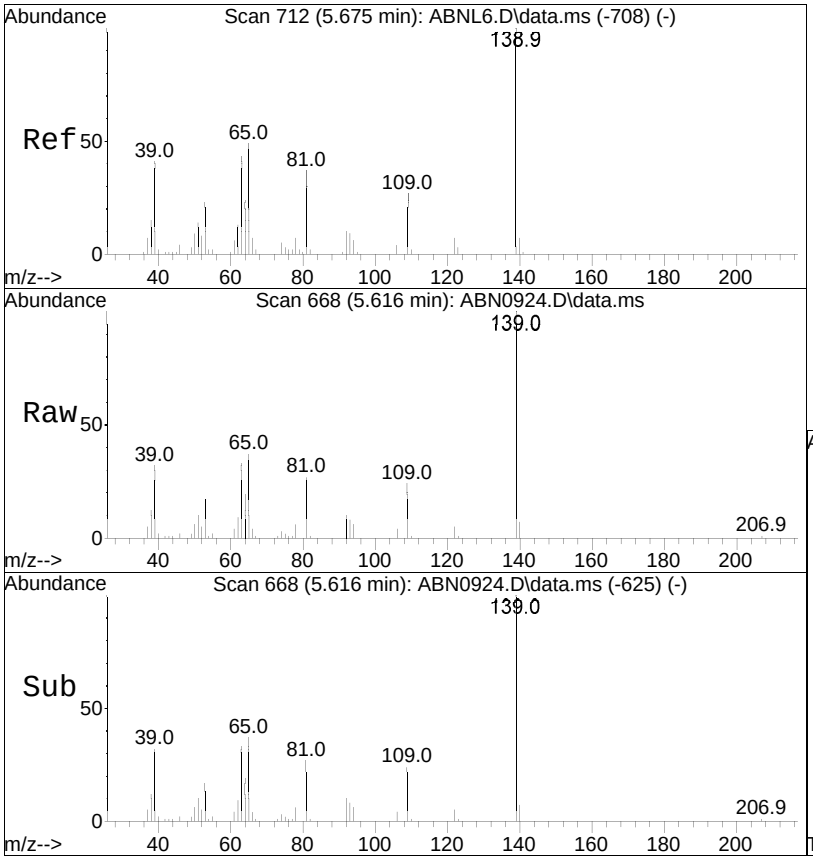


#21
Isophorone
Concen: 4.61 ug/ml
RT: 5.540 min Scan# 655
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 82 Resp: 47742

Ion	Ratio	Lower	Upper
82	100		
138	18.7	13.0	19.4
95	7.0	5.5	8.3

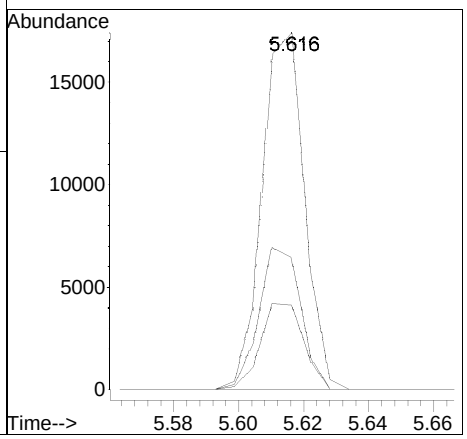


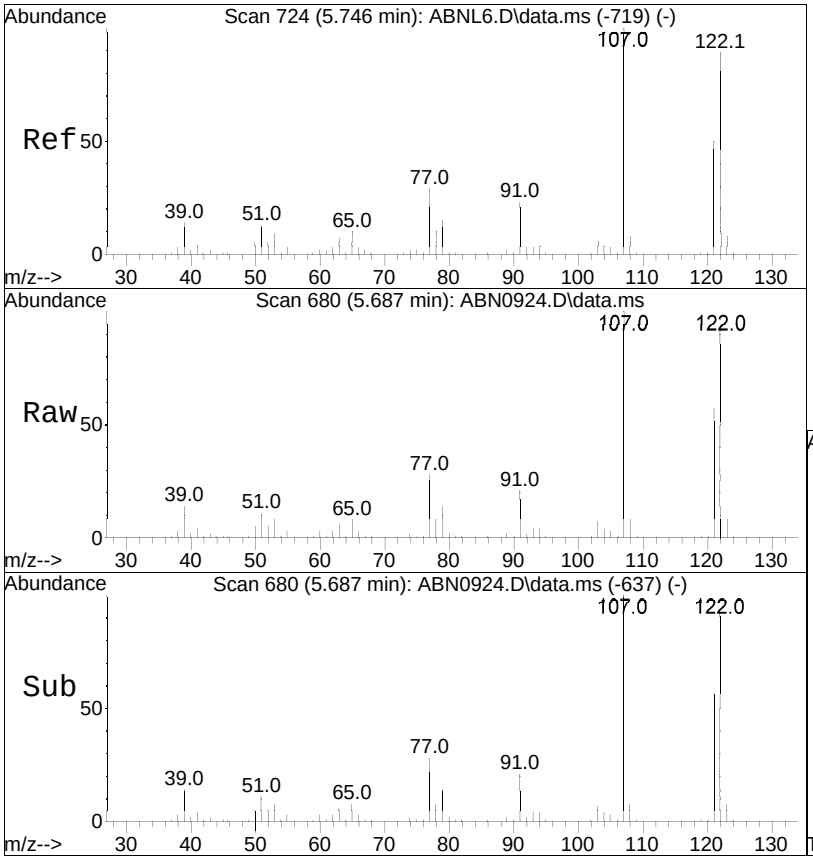


#22
2-Nitrophenol
Concen: 6.13 ug/ml
RT: 5.616 min Scan# 668
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:139 Resp: 15645

Ion	Ratio	Lower	Upper
139	100		
109	24.9	23.1	34.7
65	39.4	41.4	62.2#

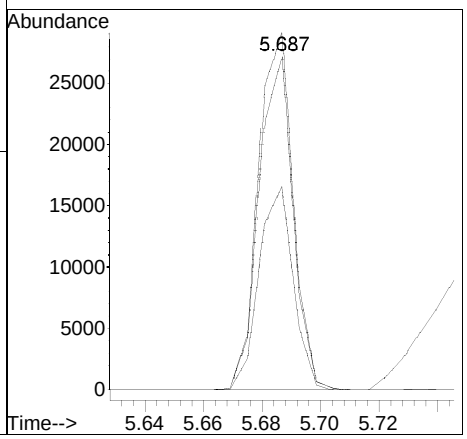


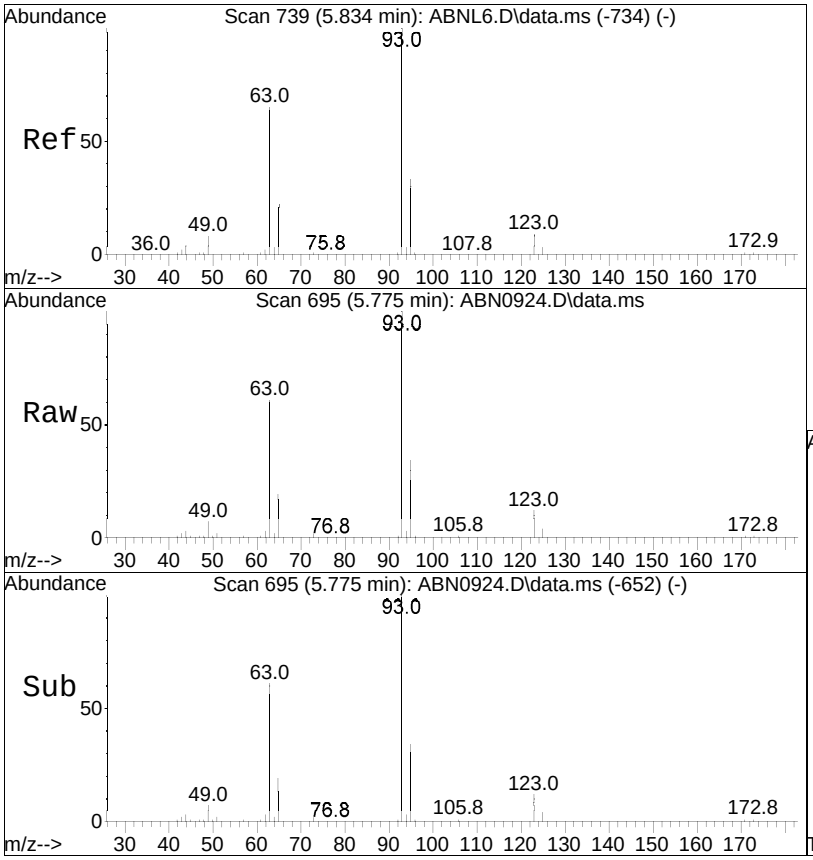


#23
2,4-Dimethylphenol
Concen: 4.89 ug/ml
RT: 5.687 min Scan# 680
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:107 Resp: 23949

Ion	Ratio	Lower	Upper
107	100		
121	56.1	41.3	61.9
122	91.5	69.3	103.9

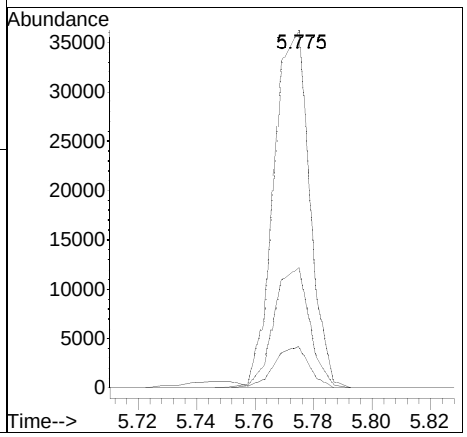


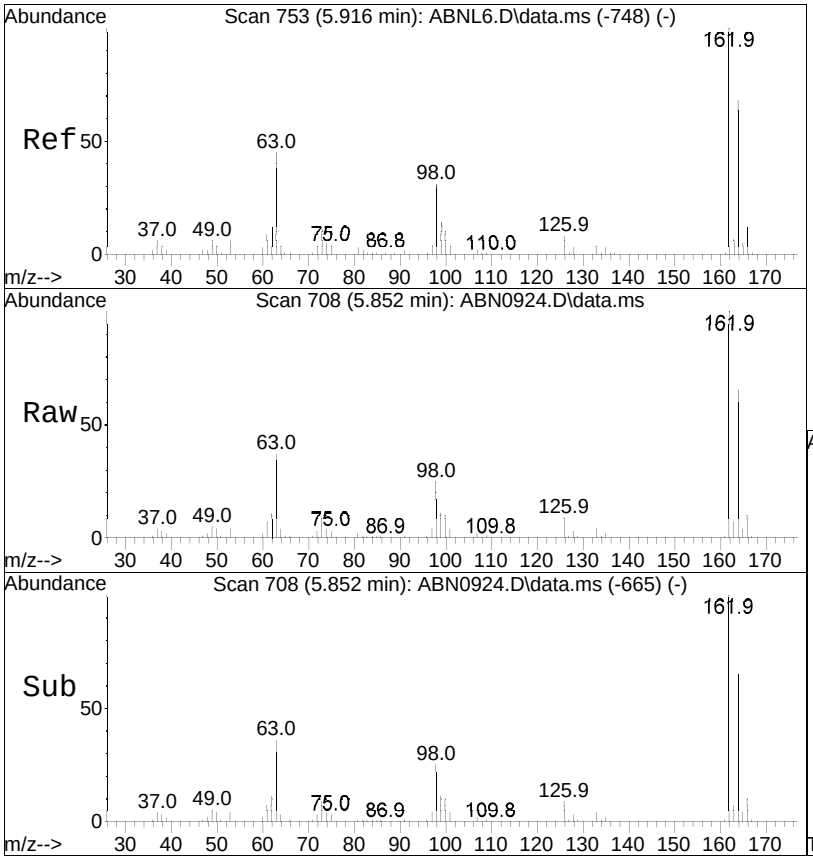


#24
Bis(2-chloroethoxy)methane
Concen: 4.39 ug/ml
RT: 5.775 min Scan# 695
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 93 Resp: 30614

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.8	38.8
123	11.2	9.6	14.4

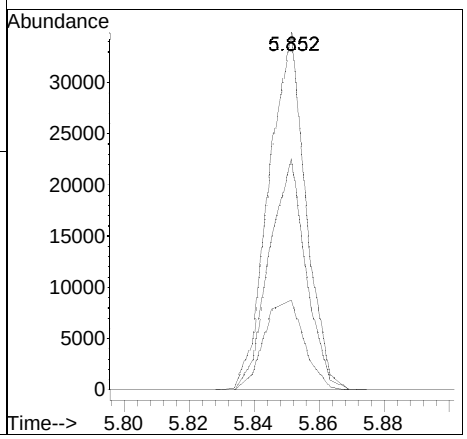


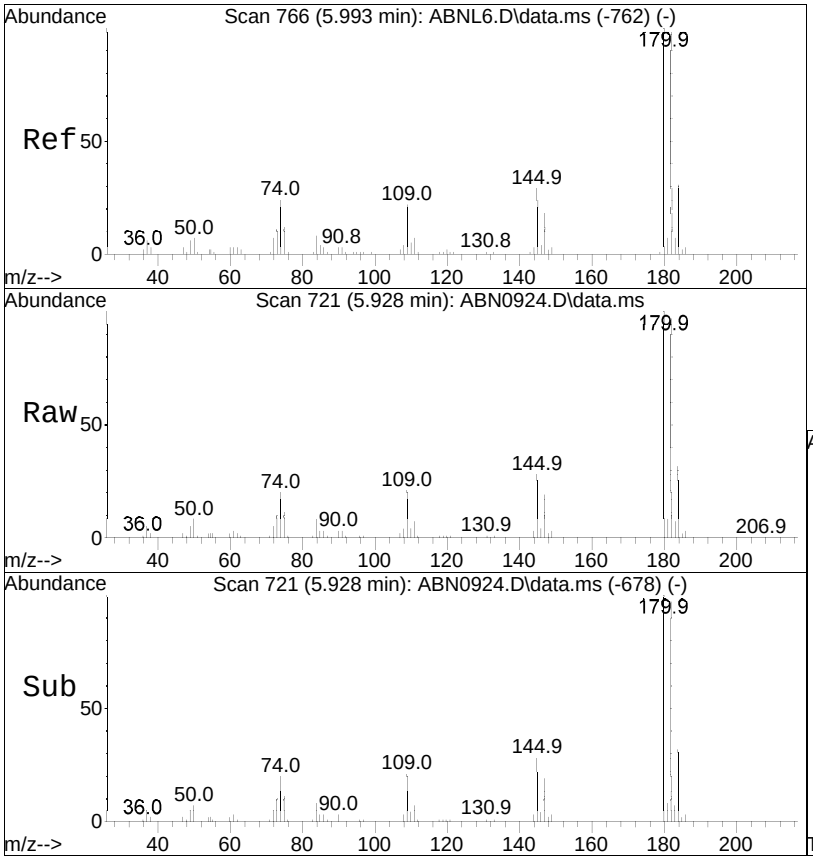


#25
2,4-Dichlorophenol
Concen: 5.32 ug/ml
RT: 5.852 min Scan# 708
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:162 Resp: 27275

Ion	Ratio	Lower	Upper
162	100		
164	64.3	51.1	76.7
98	27.4	32.2	48.2#

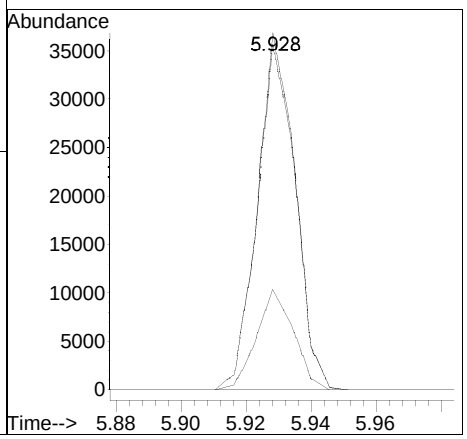


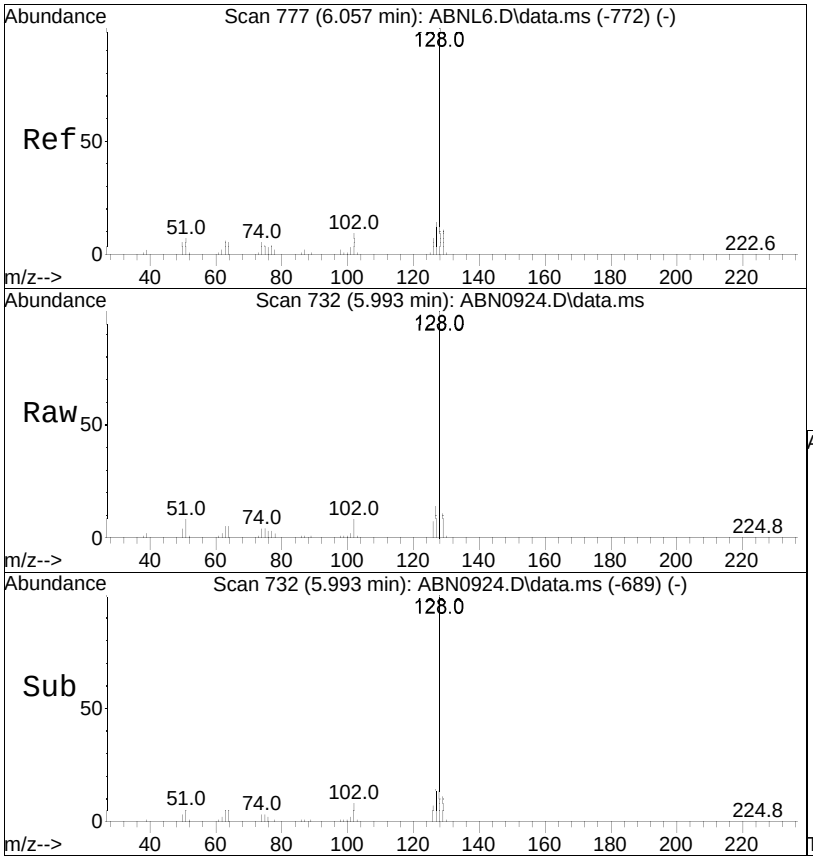


#26
1,2,4-Trichlorobenzene
Concen: 4.55 ug/ml
RT: 5.928 min Scan# 721
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:180 Resp: 29552

Ion	Ratio	Lower	Upper
180	100		
182	97.7	75.8	113.8
145	27.7	26.3	39.5

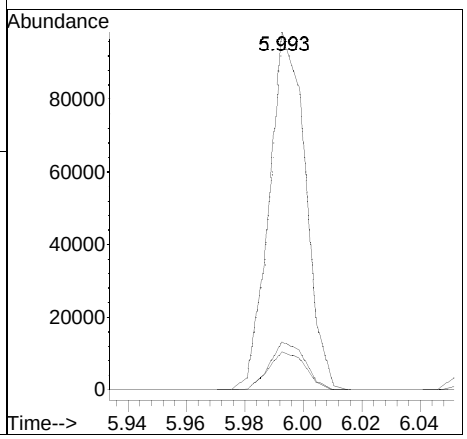


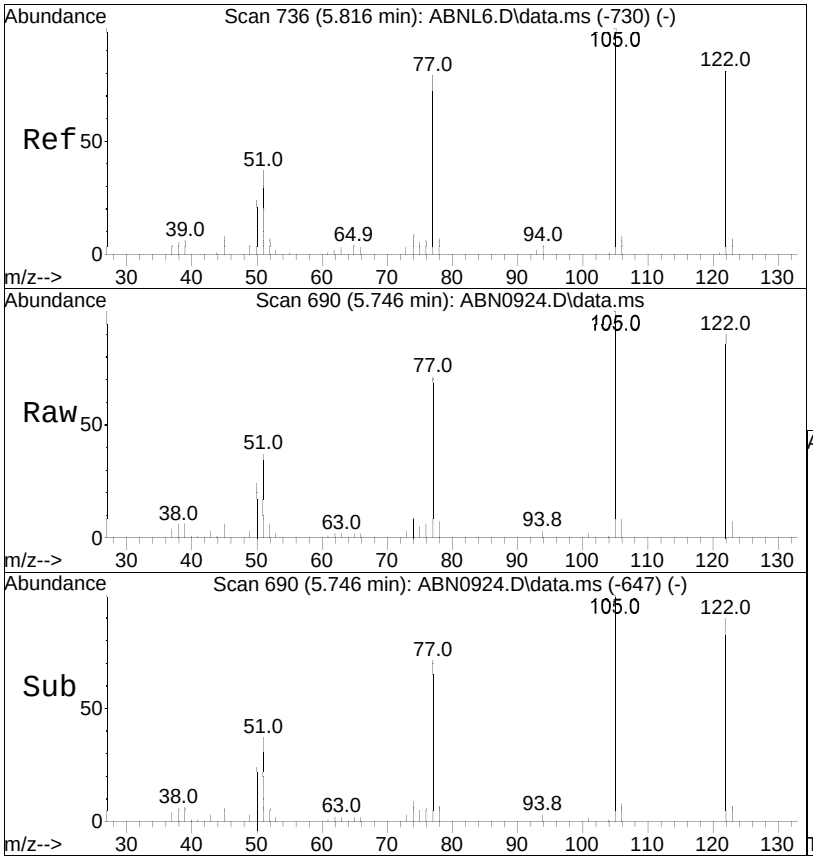


#36
Naphthalene
Concen: 4.83 ug/ml
RT: 5.993 min Scan# 732
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:128 Resp: 84110

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.3	10.6	15.8

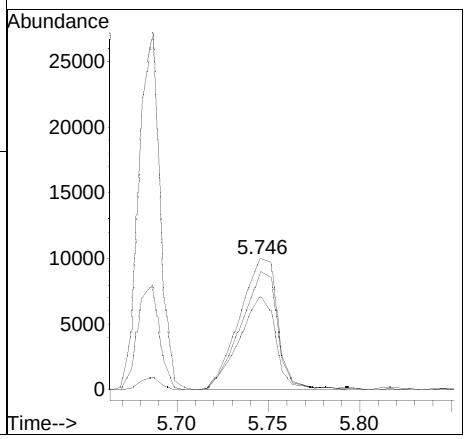


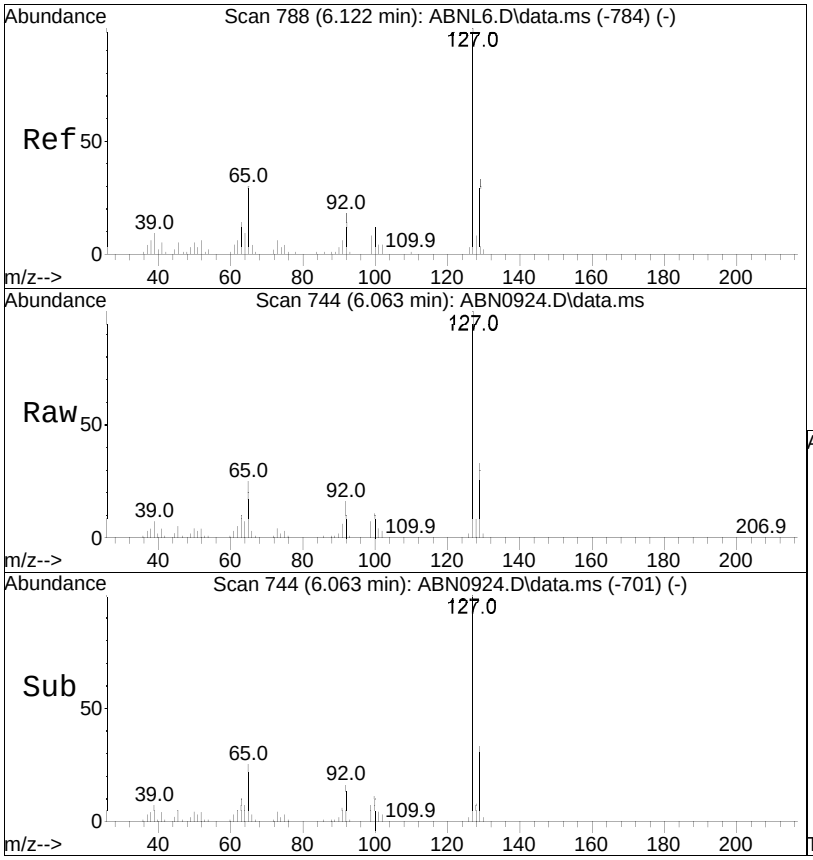


#37
Benzoic Acid
Concen: 4.91 ug/ml
RT: 5.746 min Scan# 690
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:105 Resp: 14769

Ion	Ratio	Lower	Upper
105	100		
122	86.4	62.6	93.8
77	68.0	59.1	88.7

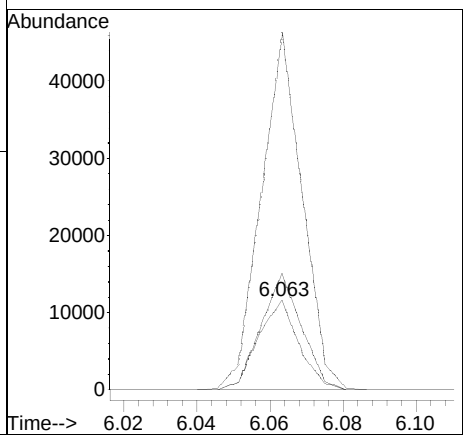


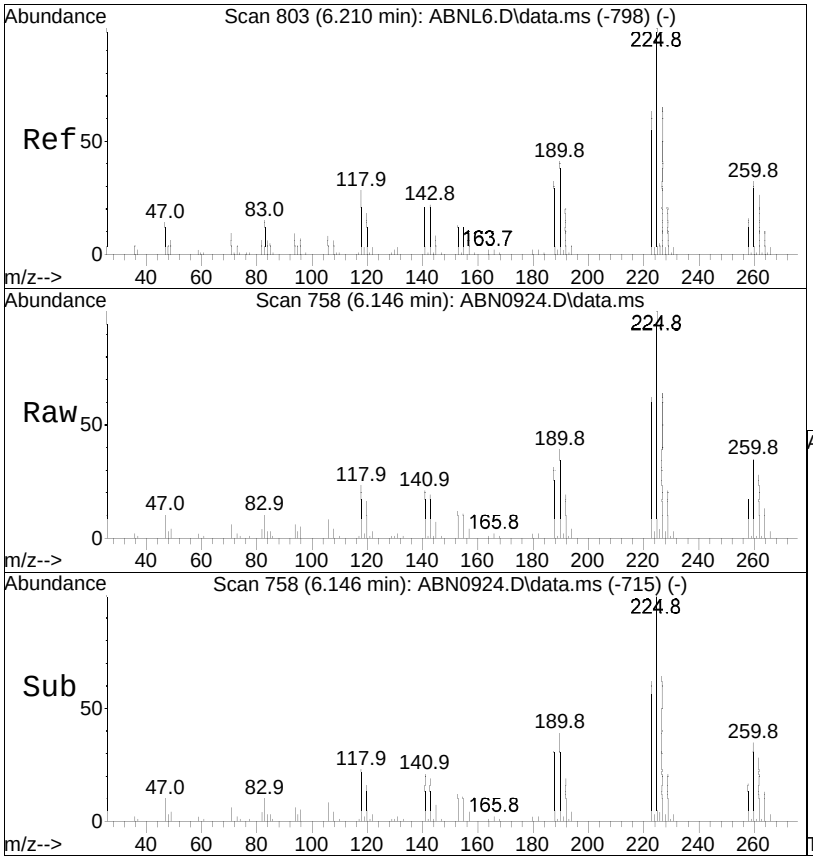


#38
4-Chloroaniline
Concen: 4.56 ug/ml
RT: 6.063 min Scan# 744
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 65 Resp: 8916

Ion	Ratio	Lower	Upper
65	100		
127	400.4	266.2	399.4#
129	129.1	85.0	127.4#

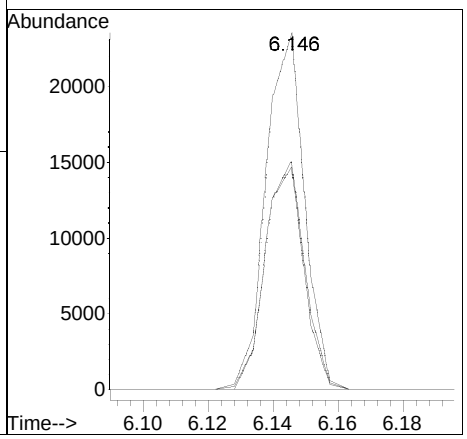


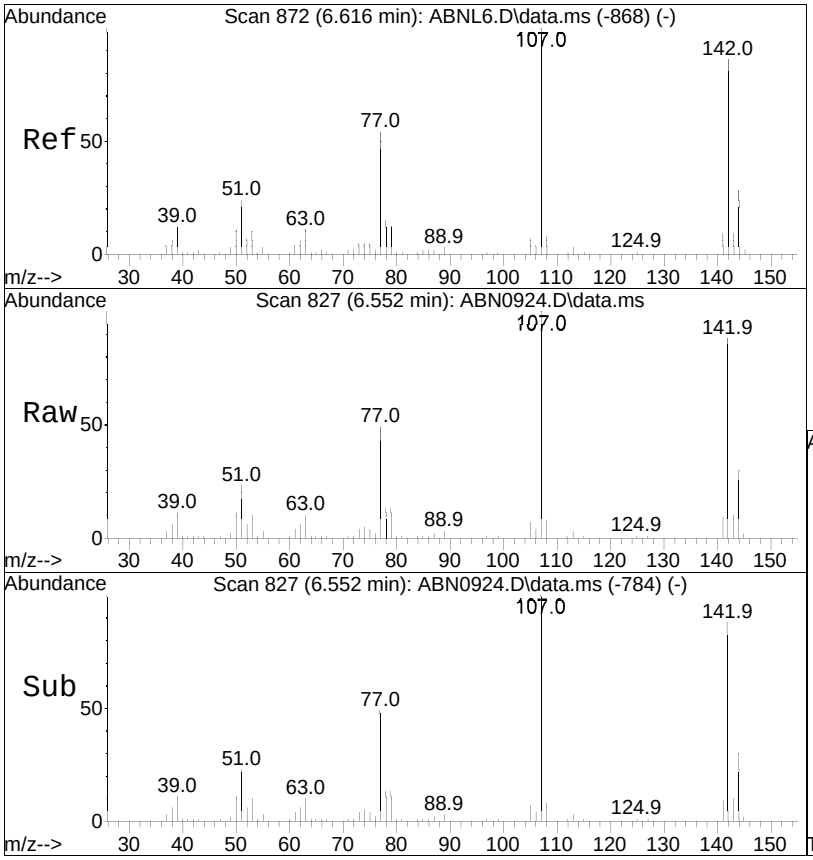


#39
Hexachlorobutadiene
Concen: 4.73 ug/ml
RT: 6.146 min Scan# 758
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:225 Resp: 19296

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.5	75.7
227	65.3	50.4	75.6

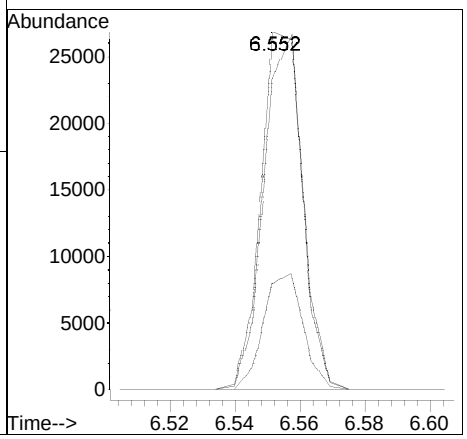


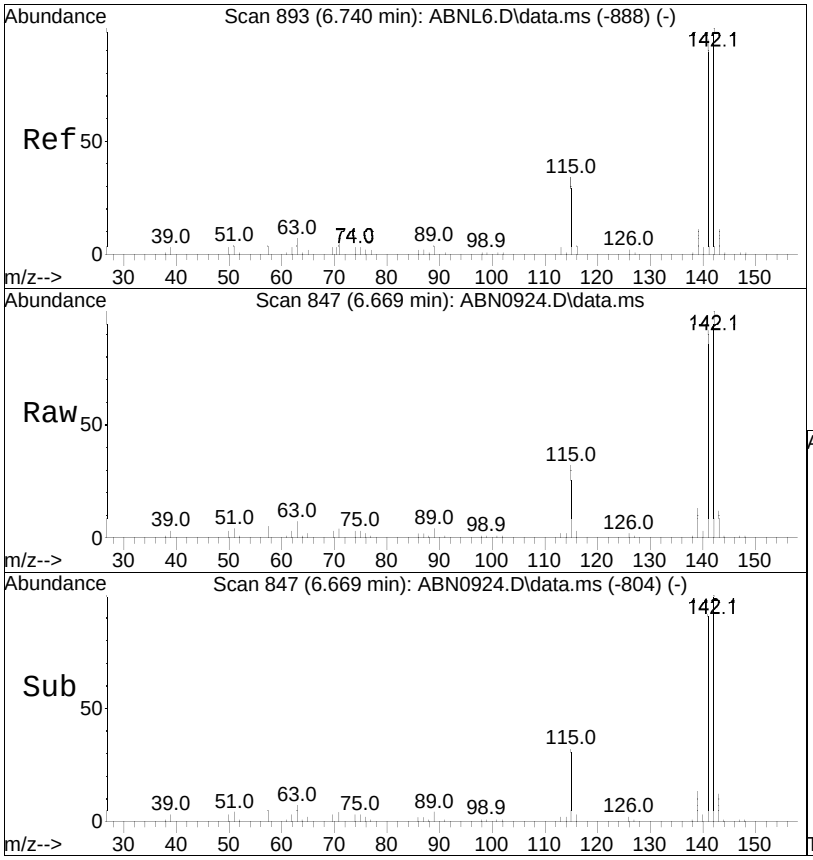


#40
p-Chloro-m-cresol
Concen: 5.09 ug/ml
RT: 6.552 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:107 Resp: 23412

Ion	Ratio	Lower	Upper
107	100		
144	31.5	20.3	30.5#
142	94.9	63.8	95.6

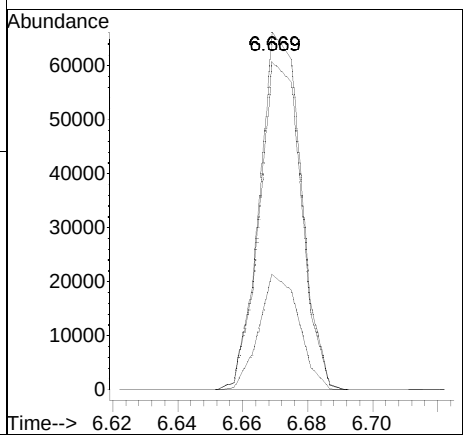


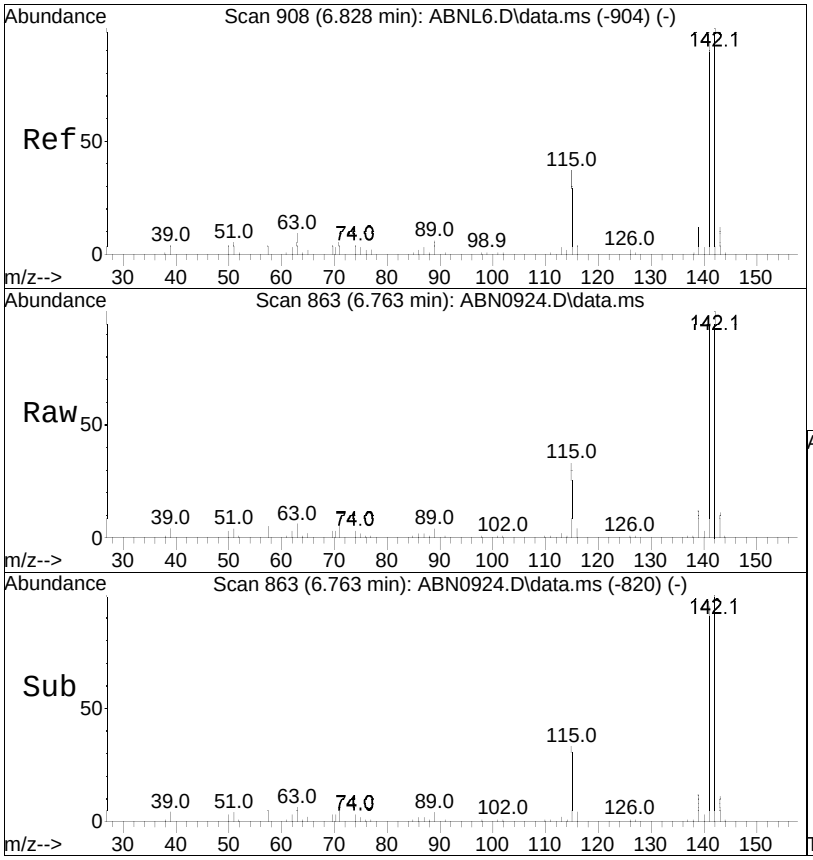


#41
2-Methylnaphthalene
Concen: 4.91 ug/ml
RT: 6.669 min Scan# 847
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:142 Resp: 58170

Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.2	108.4
115	31.3	27.8	41.6

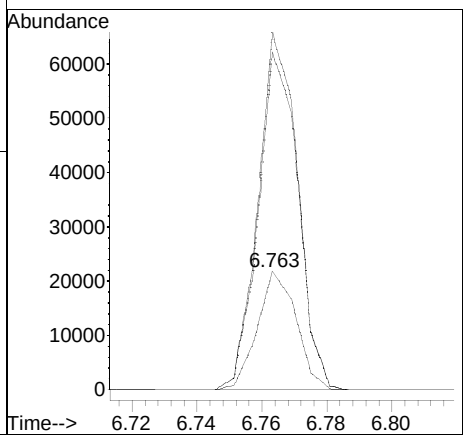


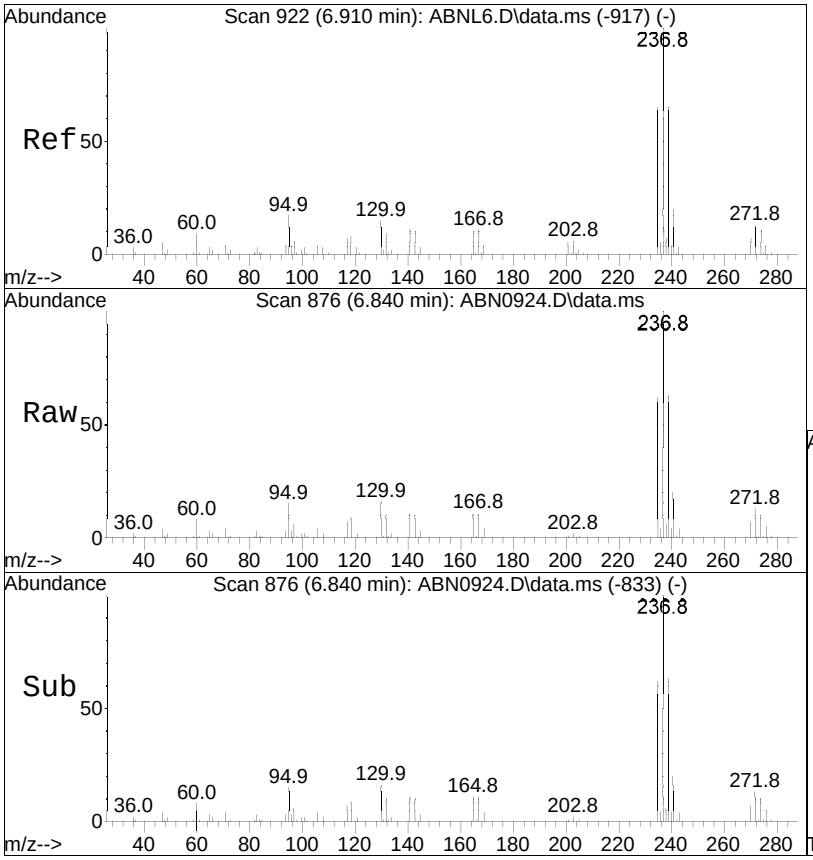


#42
1-Methylnaphthalene
Concen: 4.42 ug/ml
RT: 6.763 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:115 Resp: 17993

Ion	Ratio	Lower	Upper
115	100		
141	290.2	205.4	308.2
142	304.0	220.2	330.4

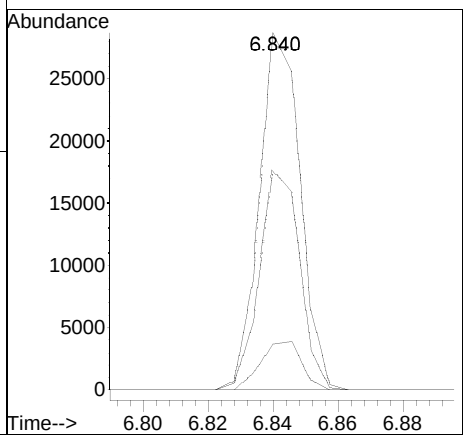


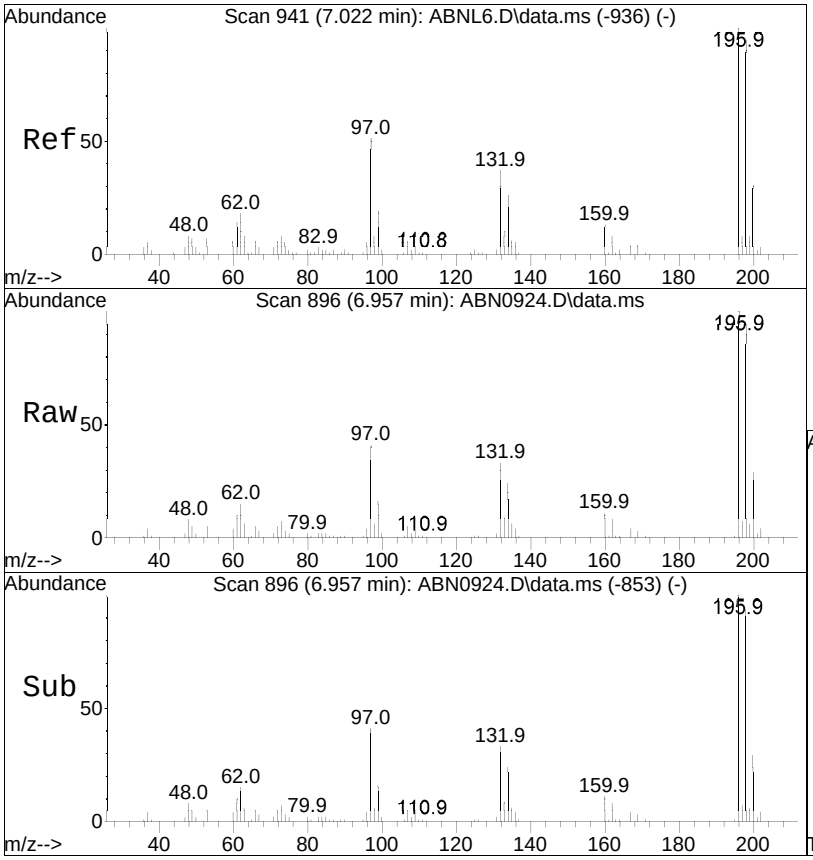


#43
Hexachlorocyclopentadiene
Concen: 5.99 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:237 Resp: 24946

Ion	Ratio	Lower	Upper
237	100		
235	60.8	50.9	76.3
272	13.7	10.1	15.1

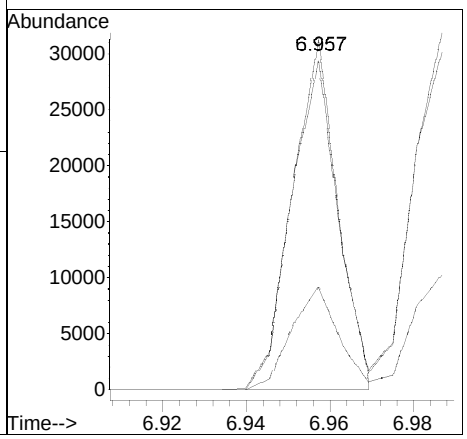


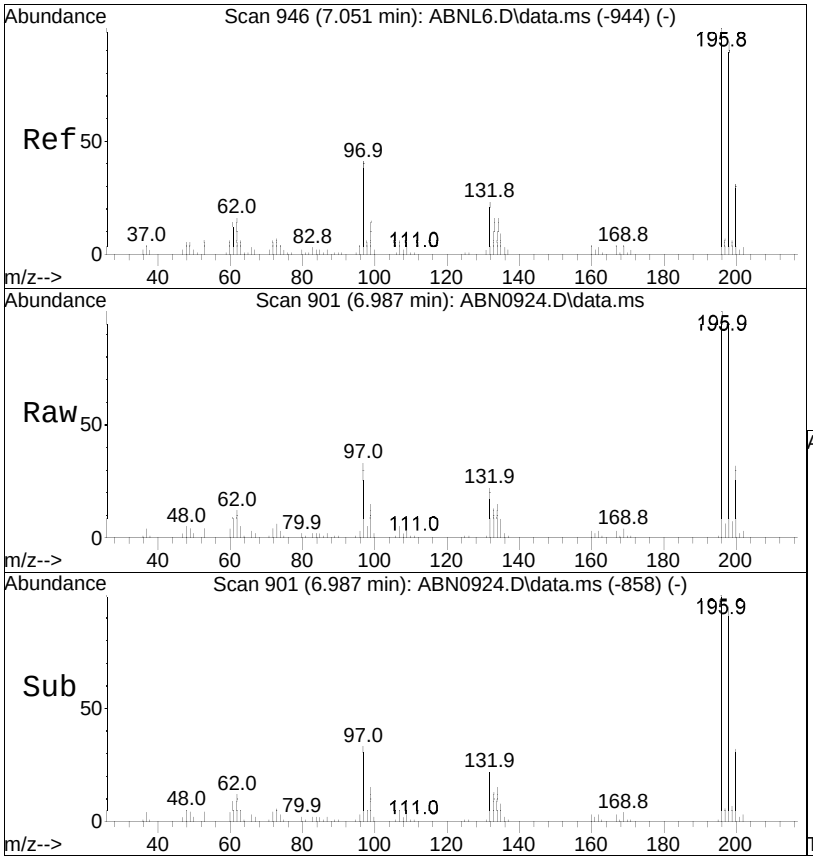


#44
2,4,6-Trichlorophenol
Concen: 5.58 ug/ml M3
RT: 6.957 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:196 Resp: 23770

Ion	Ratio	Lower	Upper
196	100		
198	96.7	76.4	114.6
200	30.6	24.4	36.6

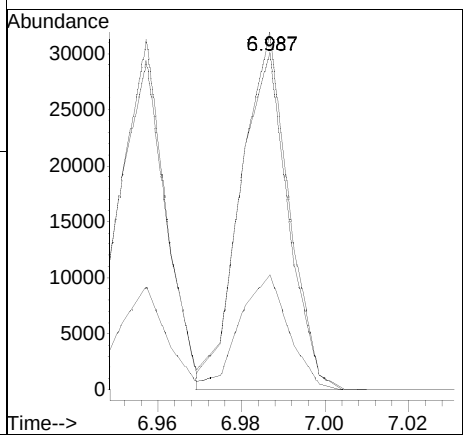


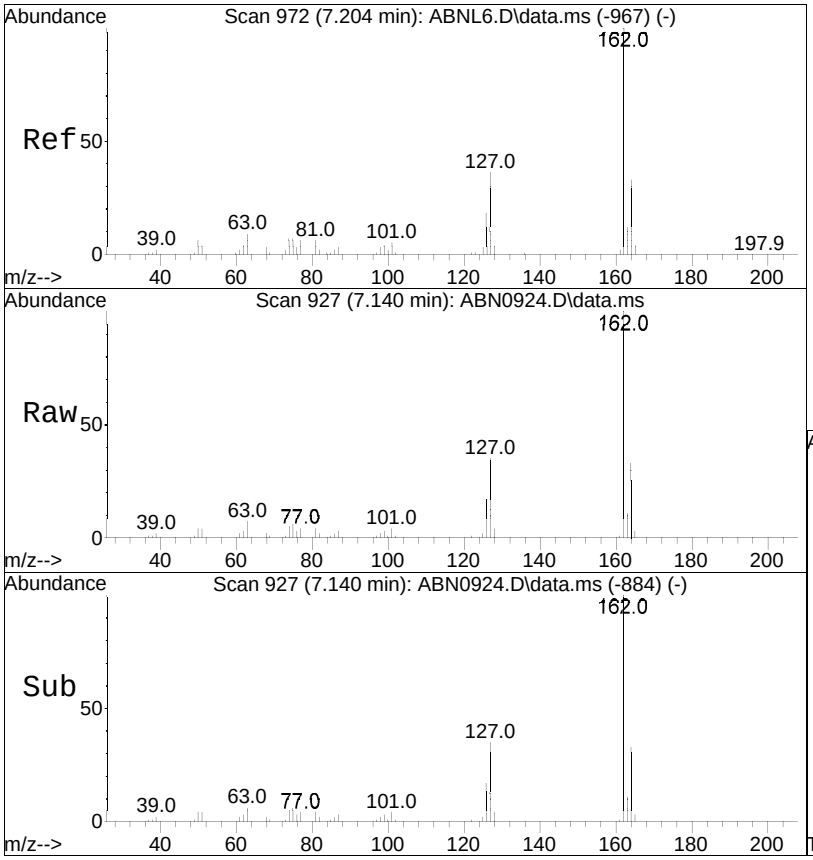


#45
2,4,5-Trichlorophenol
Concen: 5.78 ug/ml
RT: 6.987 min Scan# 901
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:196 Resp: 25189

Ion	Ratio	Lower	Upper
196	100		
200	33.1	24.2	36.4
198	96.0	76.2	114.2

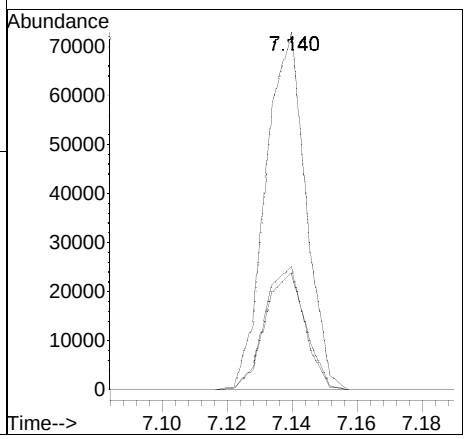


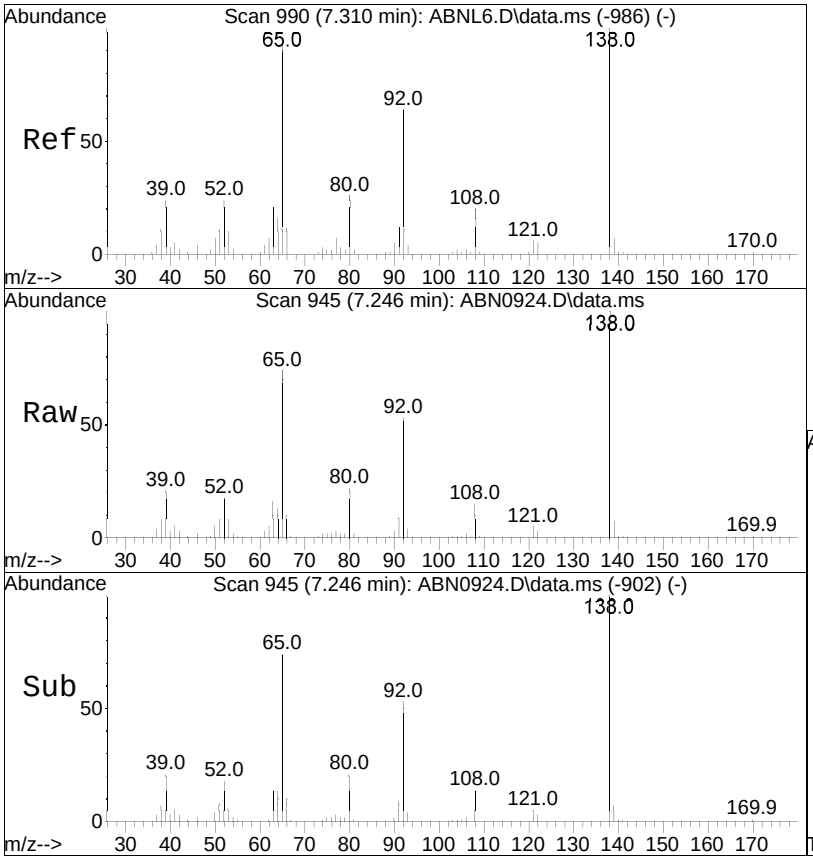


#47
2-Chloronaphthalene
Concen: 4.93 ug/ml
RT: 7.140 min Scan# 927
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:162 Resp: 62035

Ion	Ratio	Lower	Upper
162	100		
127	34.4	33.8	50.6
164	33.4	25.8	38.6

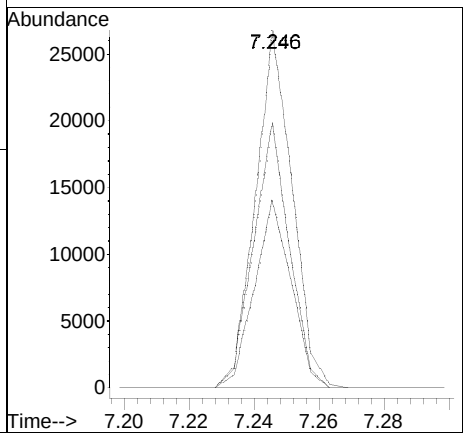


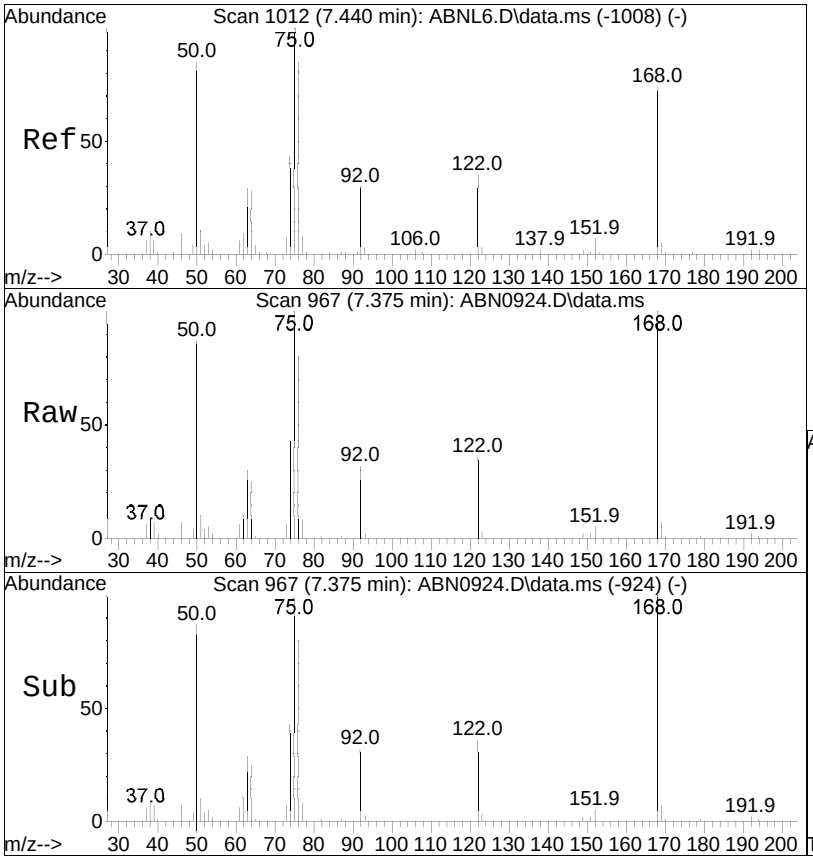


#48
2-Nitroaniline
Concen: 6.24 ug/ml
RT: 7.246 min Scan# 945
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:138 Resp: 20756

Ion	Ratio	Lower	Upper
138	100		
92	52.8	52.1	78.1
65	72.5	75.9	113.9#

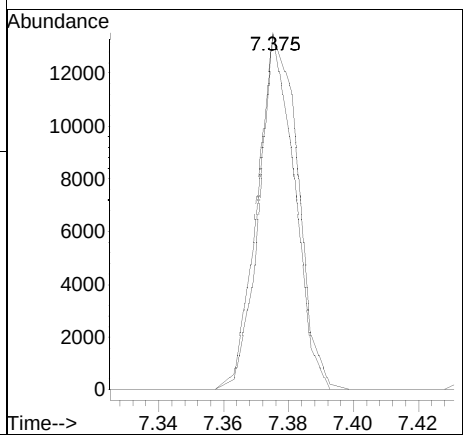


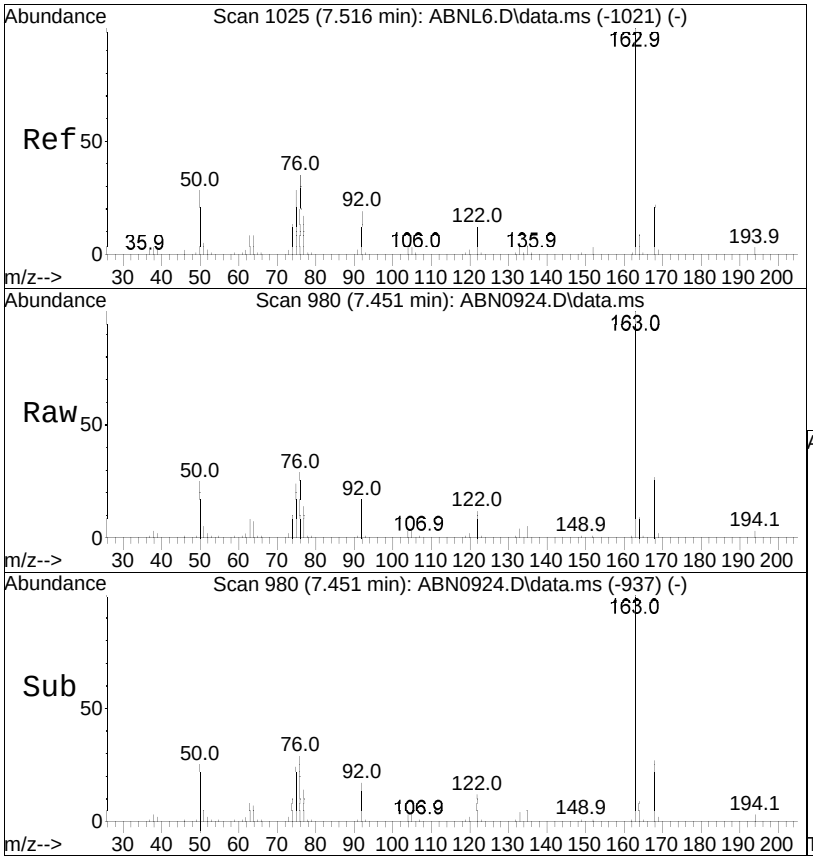


#49
1,4-Dinitrobenzene
Concen: 6.84 ug/ml
RT: 7.375 min Scan# 967
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:168 Resp: 11158

Ion	Ratio	Lower	Upper
168	100		
75	95.9	111.0	166.4#

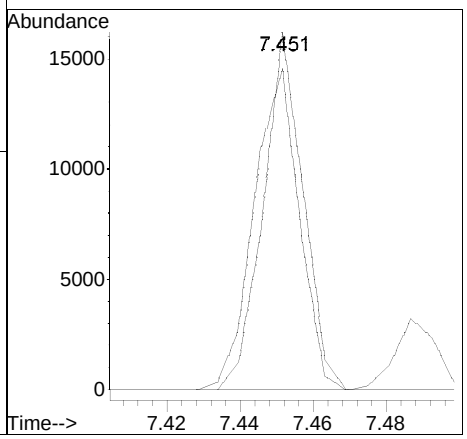


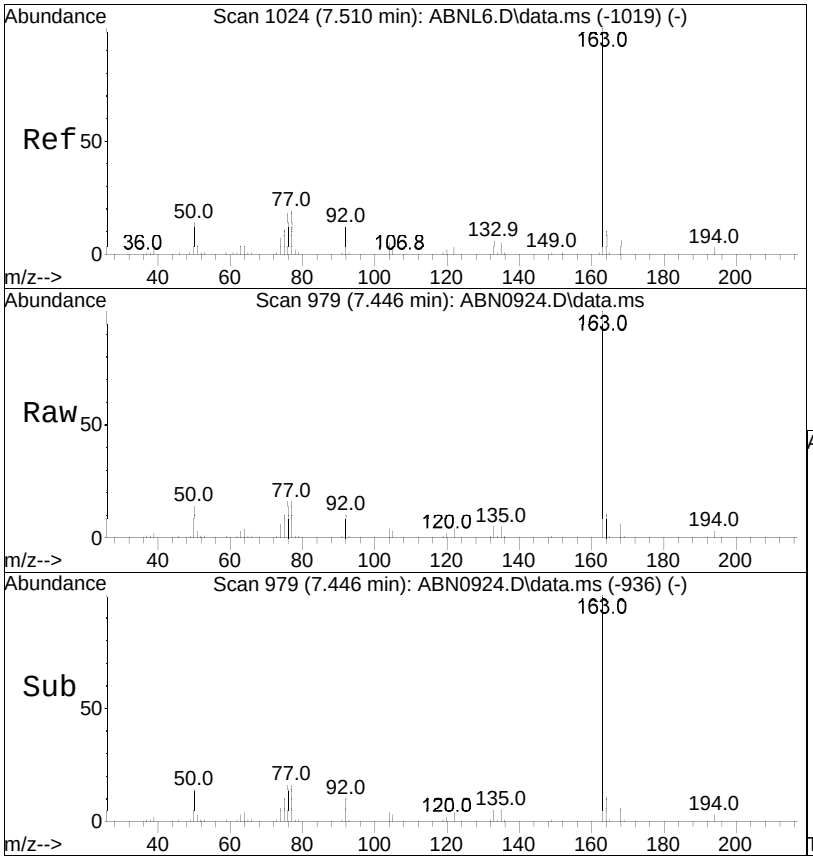


#50
1,3-Dinitrobenzene
Concen: 6.44 ug/ml
RT: 7.451 min Scan# 980
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:168 Resp: 12181

Ion	Ratio	Lower	Upper
168	100		
75	102.1	116.4	174.6#

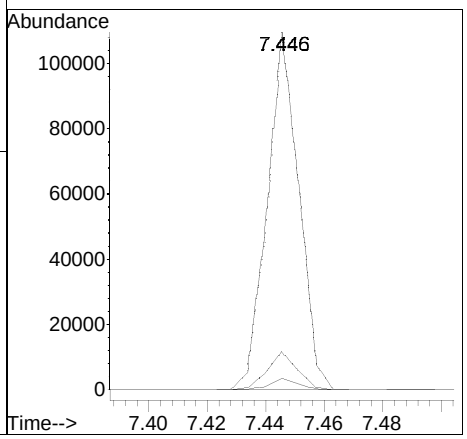


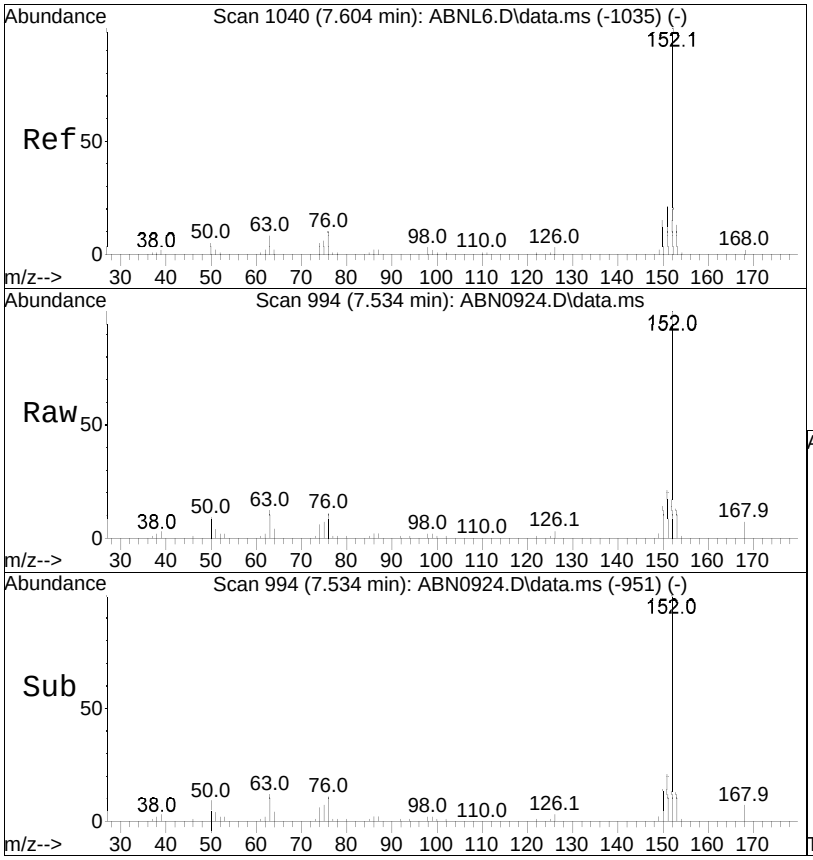


#51
Dimethyl phthalate
Concen: 5.29 ug/ml
RT: 7.446 min Scan# 979
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:163 Resp: 80972

Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.3	3.5
164	10.4	8.2	12.2

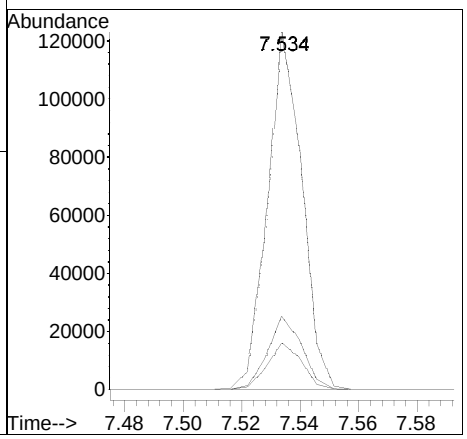


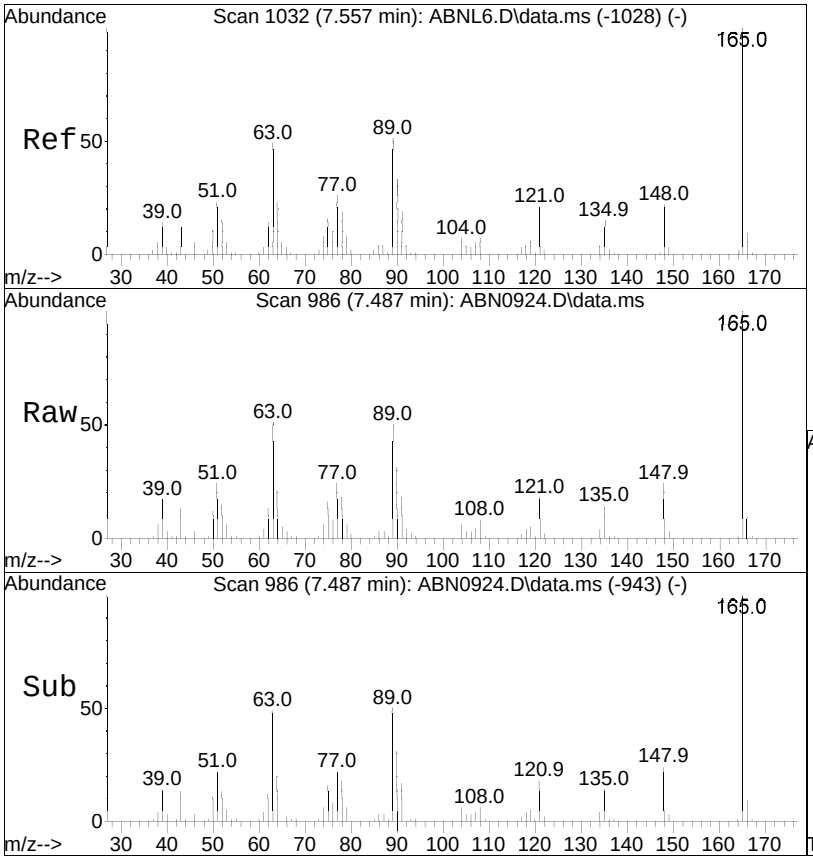


#52
Acenaphthylene
Concen: 5.34 ug/ml
RT: 7.534 min Scan# 994
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:152 Resp: 99333

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.9	23.9
153	13.2	10.5	15.7

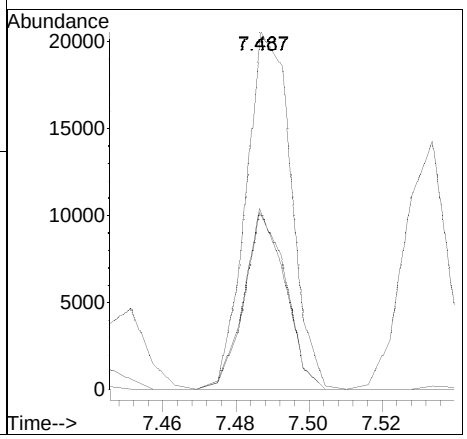


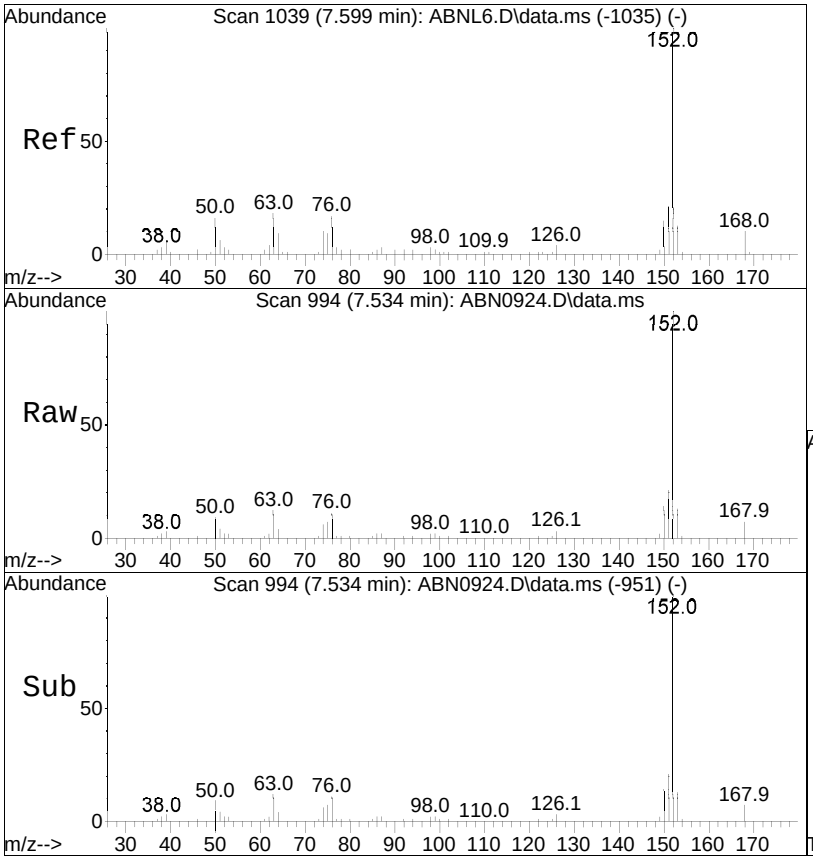


#53
2,6-Dinitrotoluene
Concen: 6.16 ug/ml
RT: 7.487 min Scan# 986
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:165 Resp: 17645

Ion	Ratio	Lower	Upper
165	100		
89	45.8	48.8	73.2#
63	46.0	50.5	75.7#

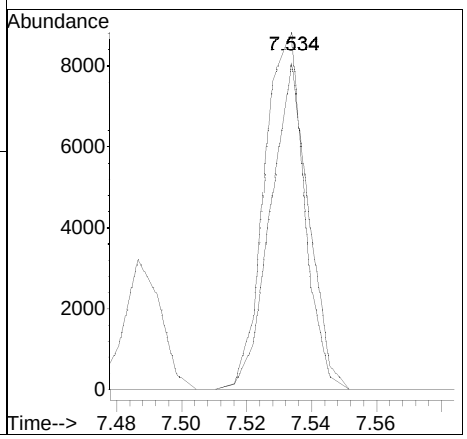


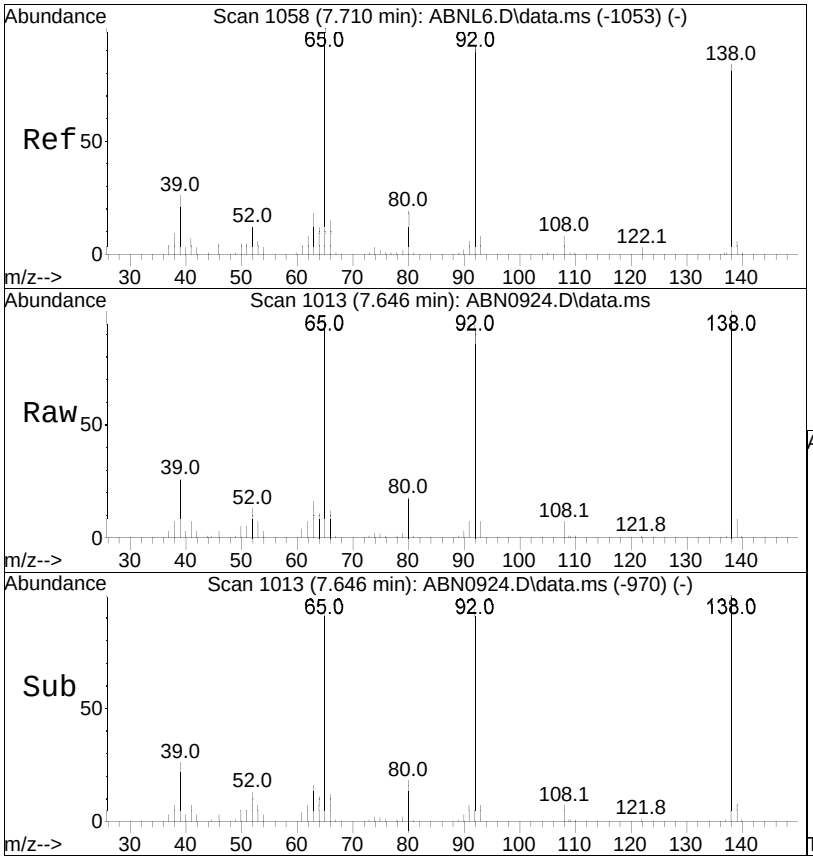


#54
1,2-Dinitrobenzene
Concen: 5.93 ug/ml
RT: 7.534 min Scan# 994
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:168 Resp: 7478

Ion	Ratio	Lower	Upper
168	100		
75	87.9	32.2	48.2#

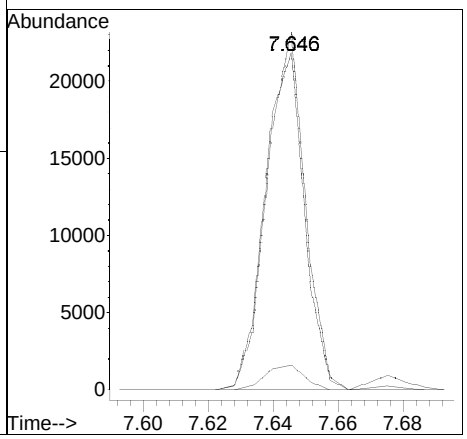


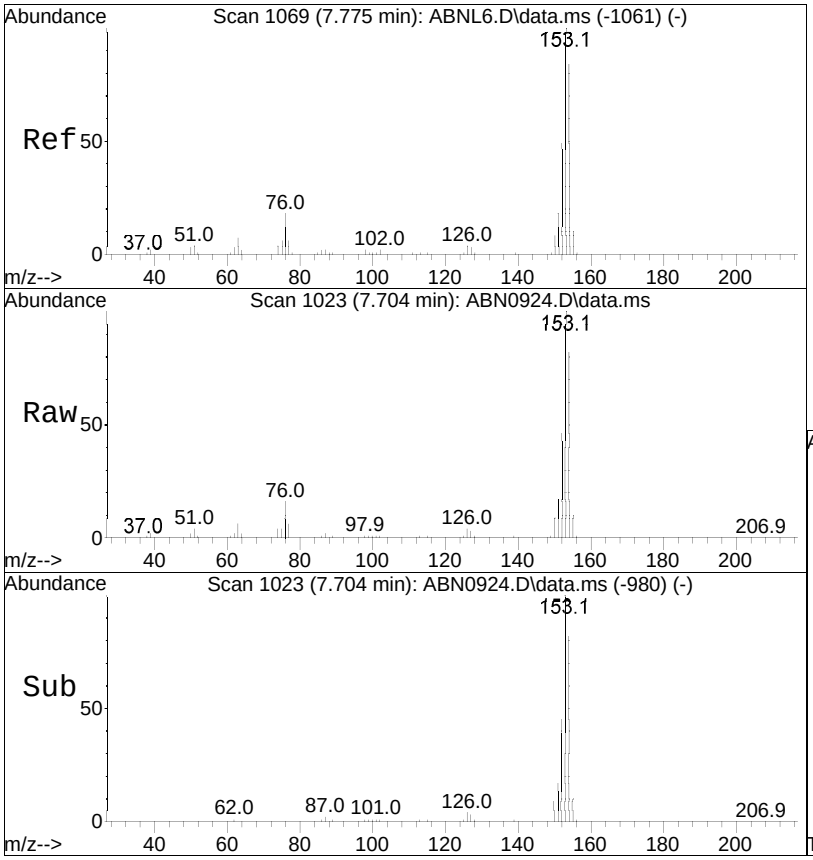


#64
3-Nitroaniline
Concen: 5.65 ug/ml
RT: 7.646 min Scan# 1013
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:138 Resp: 18697

Ion	Ratio	Lower	Upper
138	100		
92	97.5	92.8	139.2
108	7.1	7.9	11.9#

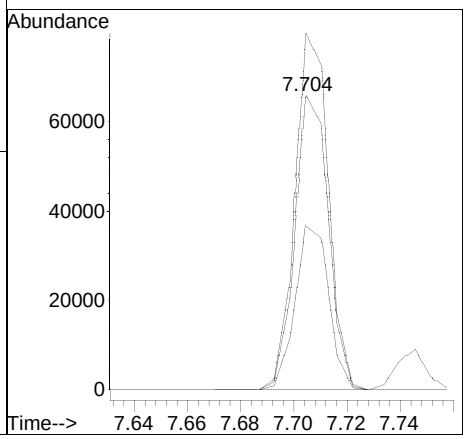


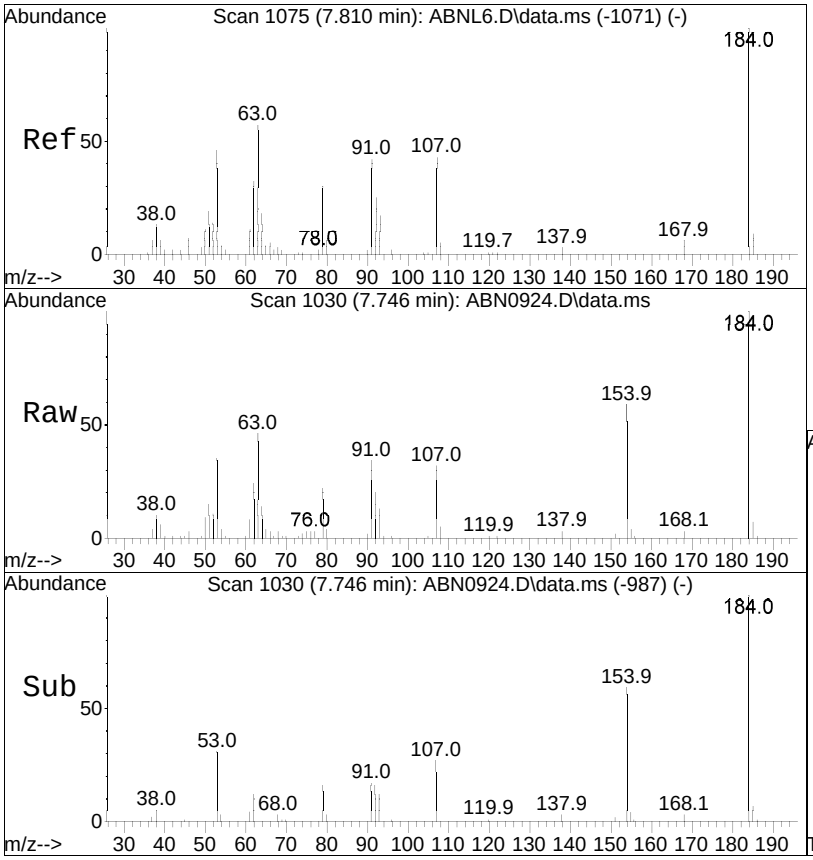


#65
Acenaphthene
Concen: 4.68 ug/ml
RT: 7.704 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:154 Resp: 57778

Ion	Ratio	Lower	Upper
154	100		
153	120.8	93.0	139.4
152	56.1	43.3	64.9

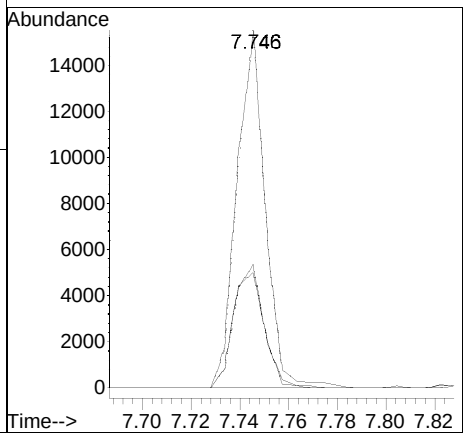


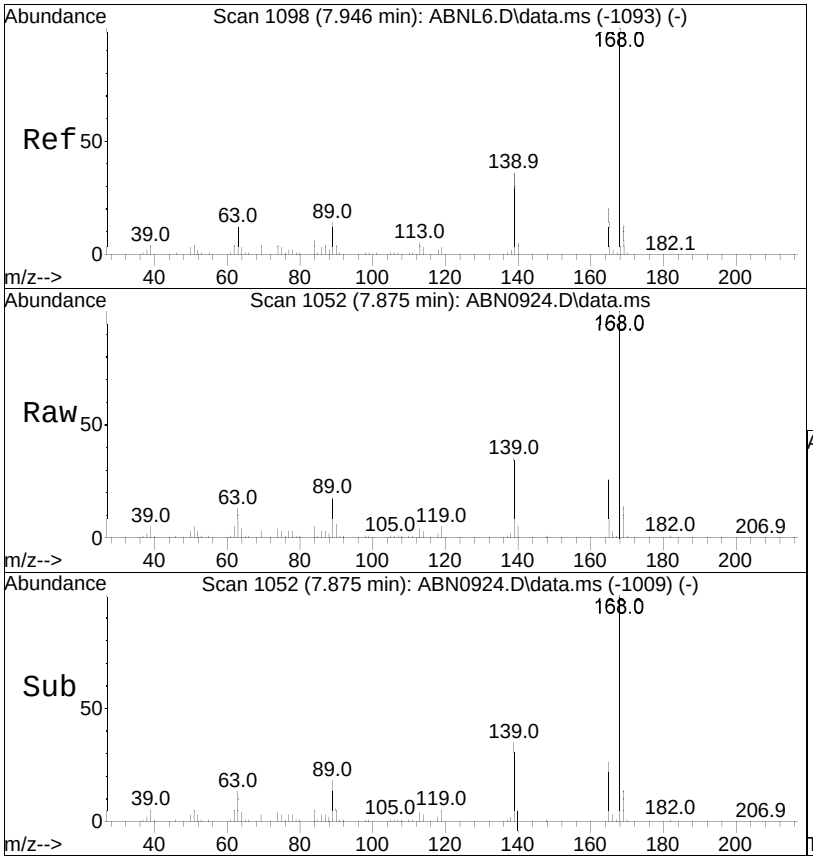


#66
2,4-Dinitrophenol
Concen: 6.74 ug/ml
RT: 7.746 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:184 Resp: 12368

Ion	Ratio	Lower	Upper
184	100		
107	36.0	41.8	62.6#
91	37.3	44.2	66.2#

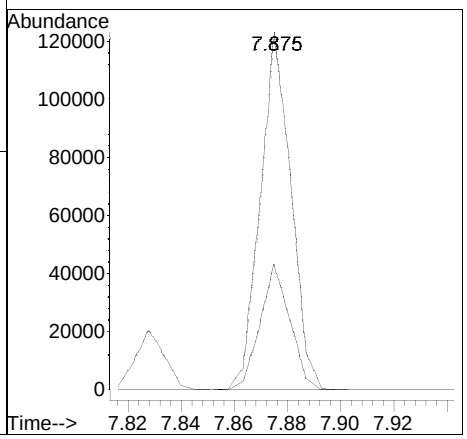


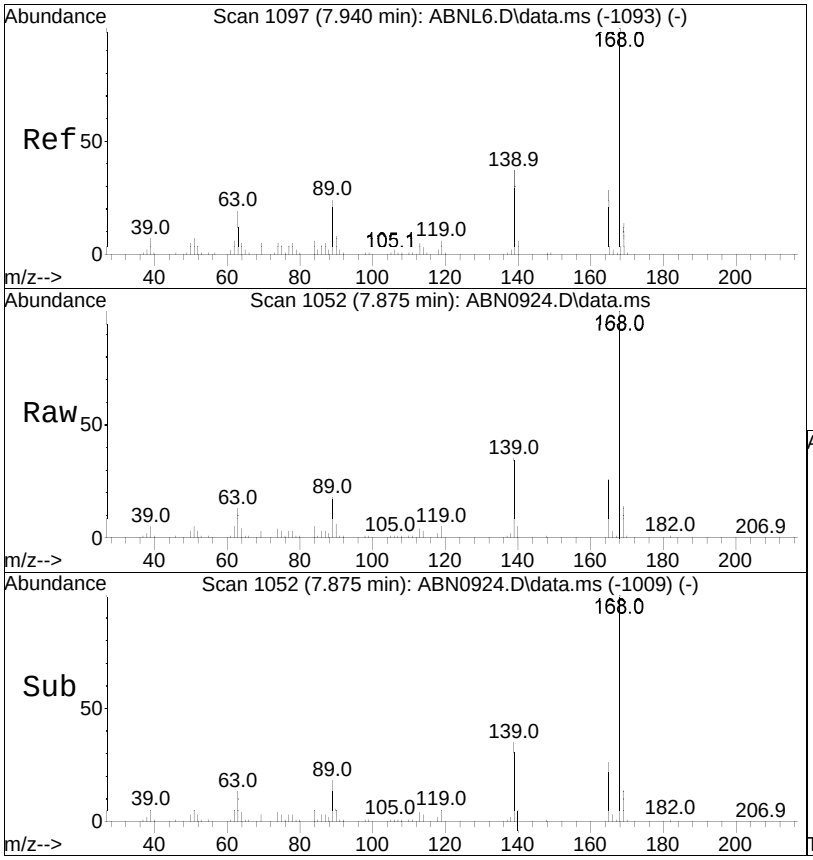


#67
Dibenzofuran
Concen: 4.79 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:168 Resp: 97515

Ion	Ratio	Lower	Upper
168	100		
139	34.5	32.3	48.5

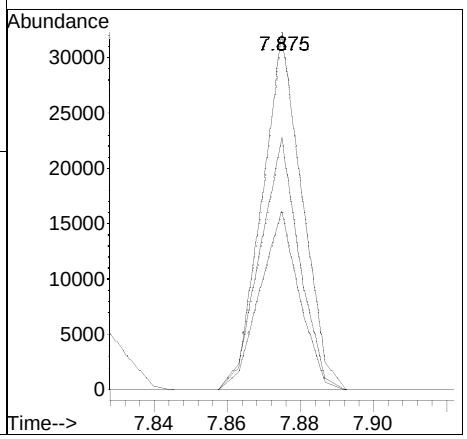


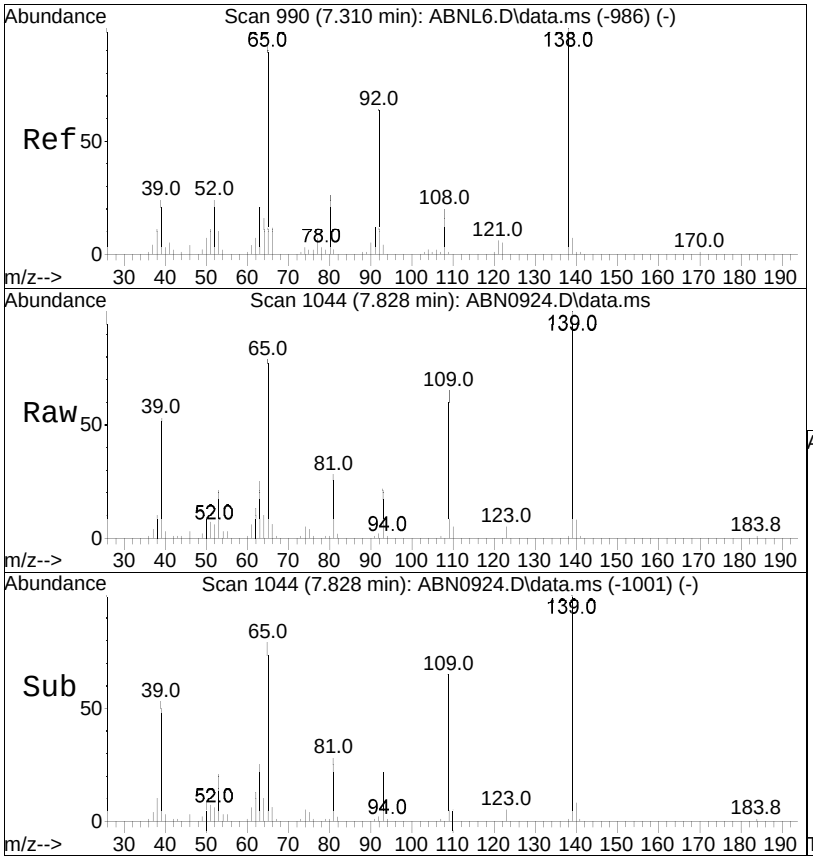


#68
2,4-Dinitrotoluene
Concen: 5.71 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:165 Resp: 24252

Ion	Ratio	Lower	Upper
165	100		
89	69.6	73.0	109.4#
63	49.9	56.3	84.5#

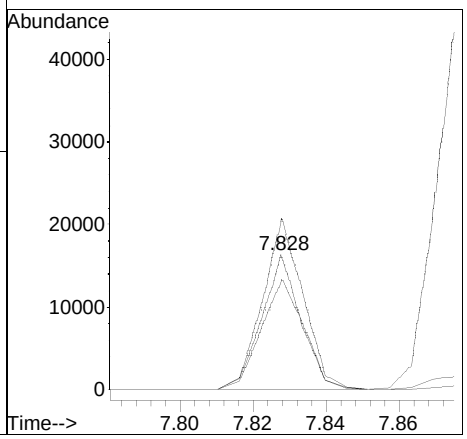


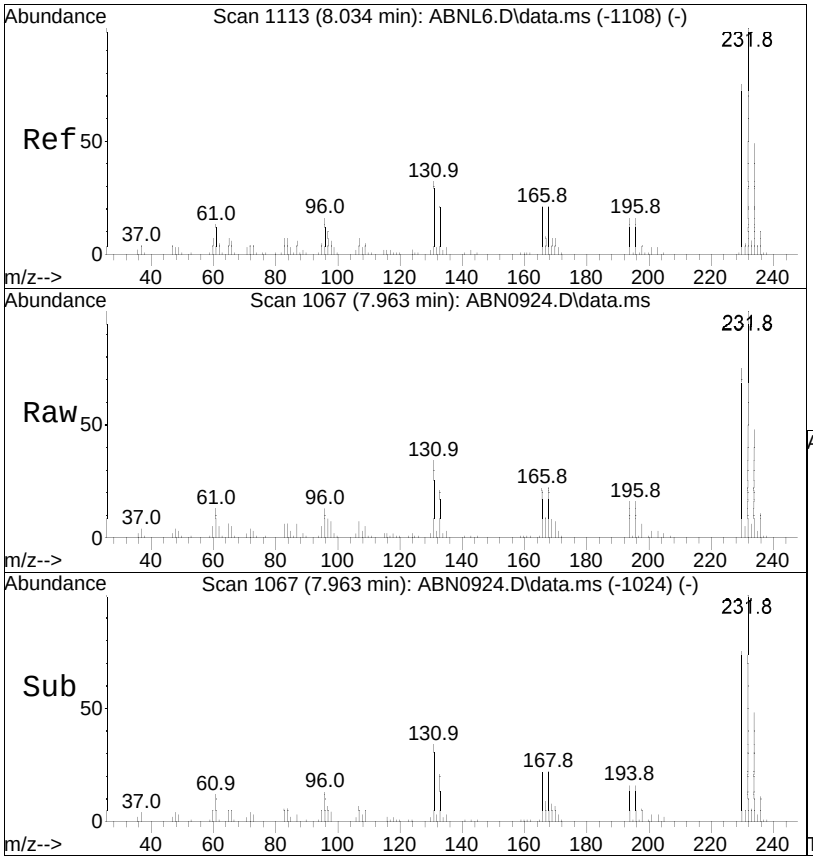


#69
4-Nitrophenol
Concen: 3.76 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 65 Resp: 12050

Ion	Ratio	Lower	Upper
65	100		
109	89.7	60.2	90.2
139	131.9	81.1	121.7#

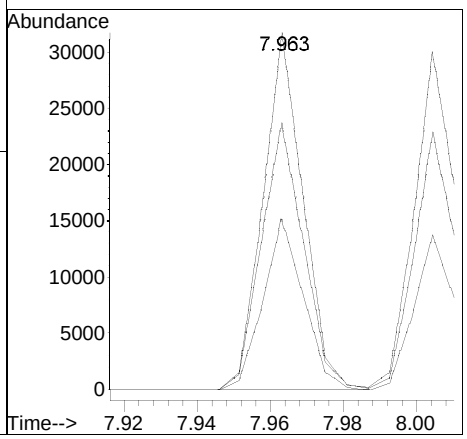


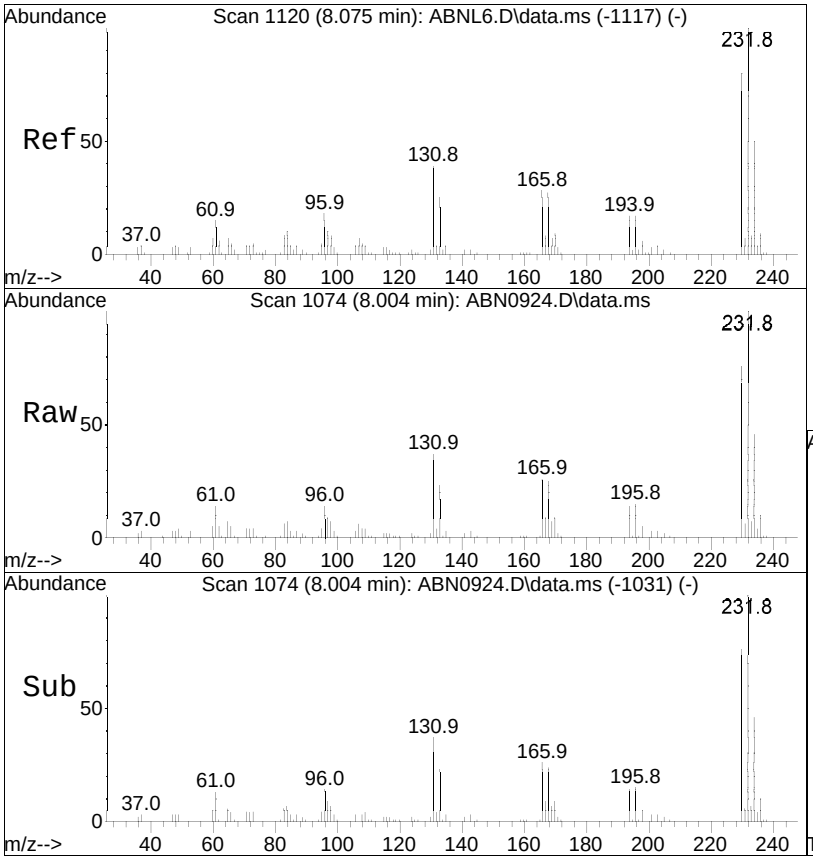


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.81 ug/ml
RT: 7.963 min Scan# 1067
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:232 Resp: 24203

Ion	Ratio	Lower	Upper
232	100		
230	78.8	63.8	95.8
234	48.4	38.3	57.5

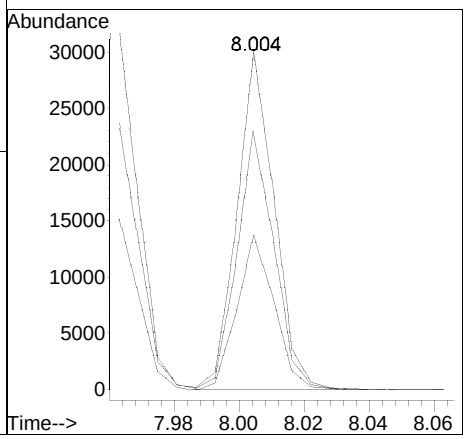


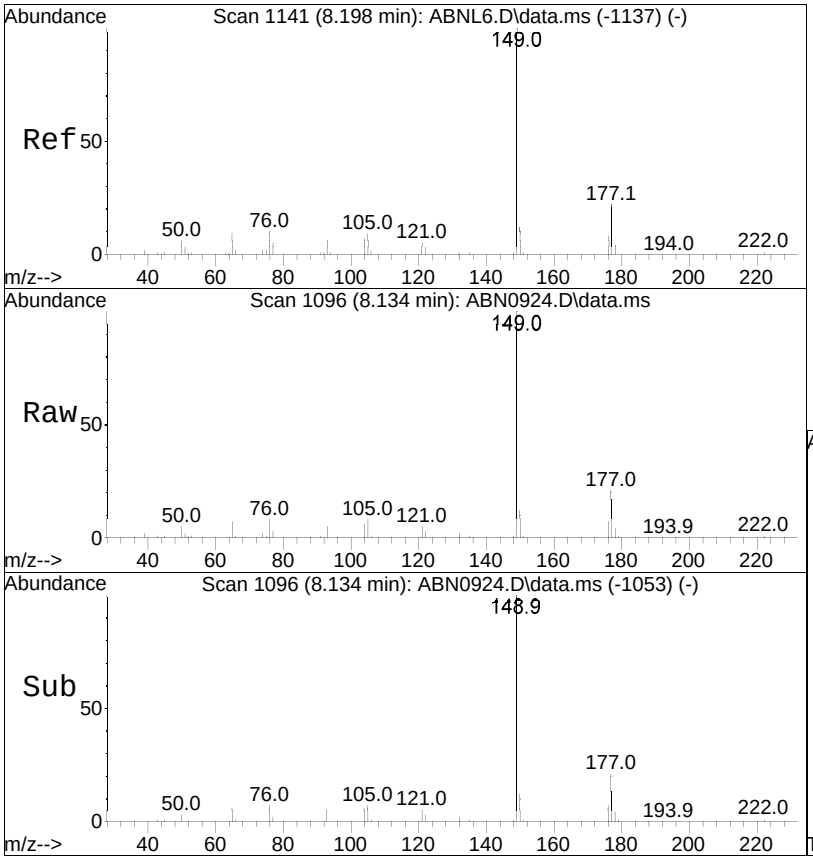


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.85 ug/ml
RT: 8.004 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:232 Resp: 23950

Ion	Ratio	Lower	Upper
232	100		
230	76.3	63.8	95.8
234	45.8	39.0	58.6

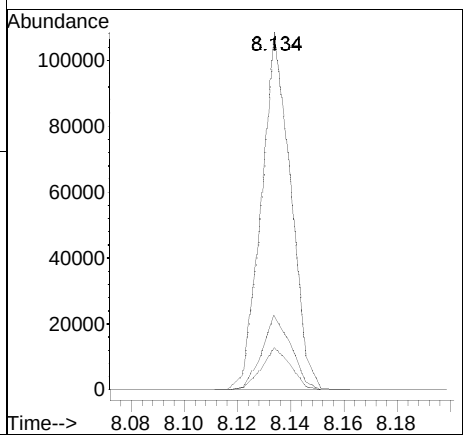


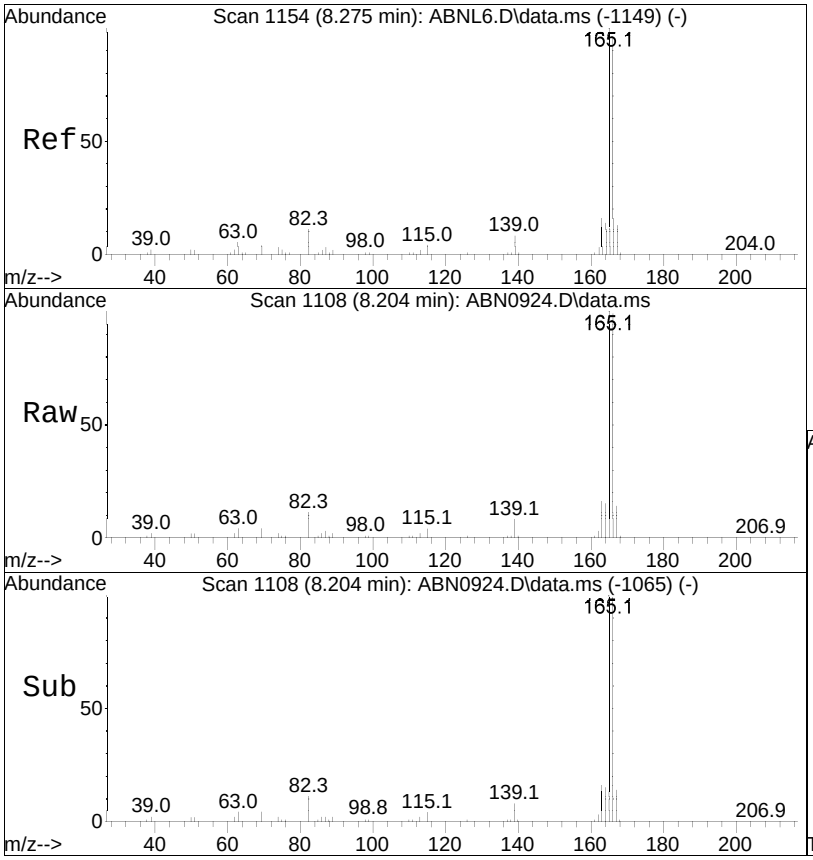


#72
Diethyl phthalate
Concen: 4.99 ug/ml
RT: 8.134 min Scan# 1096
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:149 Resp: 82077

Ion	Ratio	Lower	Upper
149	100		
177	21.0	15.0	22.6
150	12.0	9.8	14.6

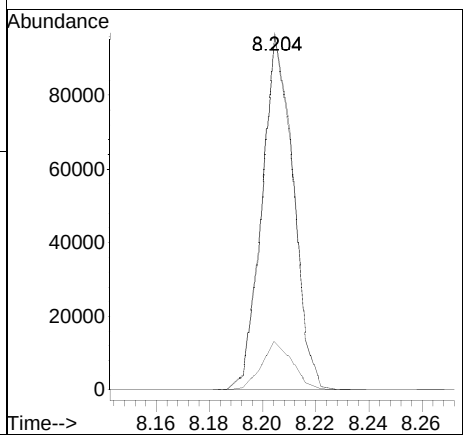


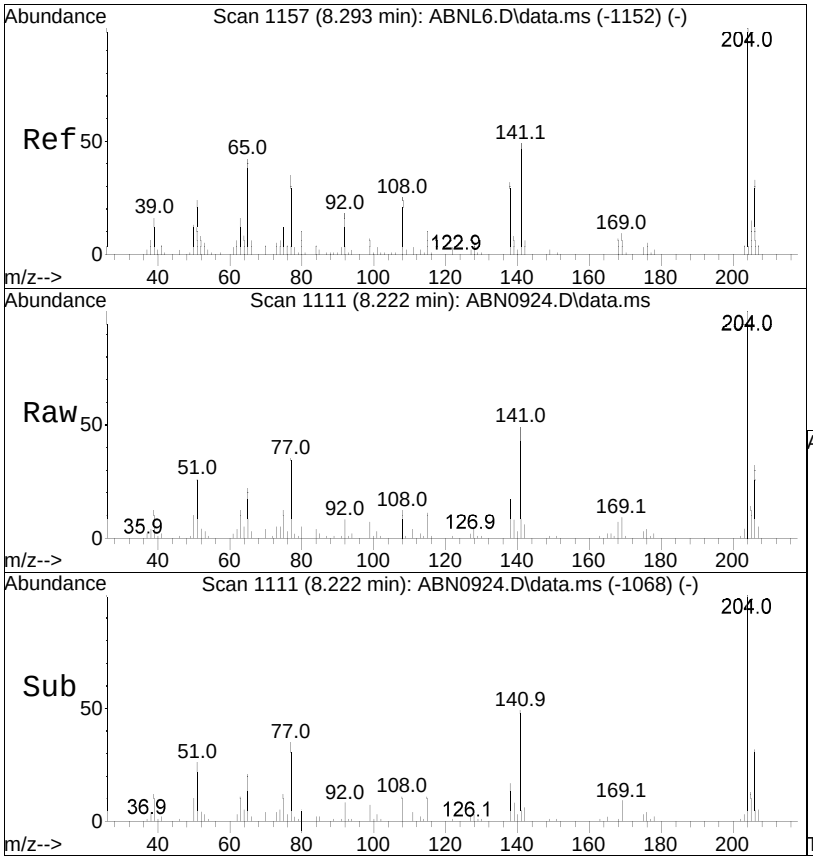


#73
Fluorene
Concen: 4.91 ug/ml
RT: 8.204 min Scan# 1108
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:166 Resp: 77800

Ion	Ratio	Lower	Upper
166	100		
165	102.5	80.0	120.0
167	13.8	10.7	16.1

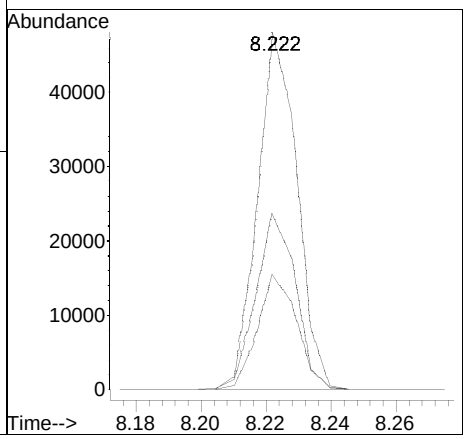


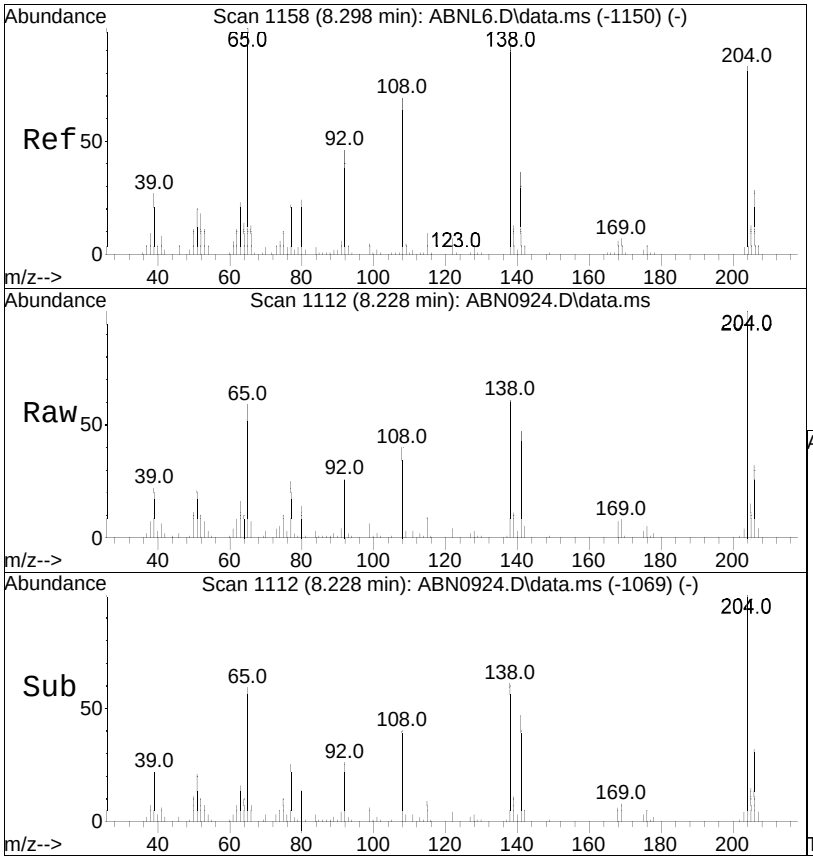


#74
4-Chlorophenyl phenyl ether
Concen: 4.65 ug/ml
RT: 8.222 min Scan# 1111
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:204 Resp: 40102

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.3	39.5
141	49.9	58.4	87.6#

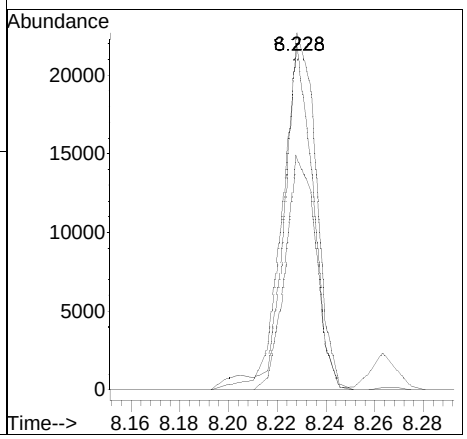


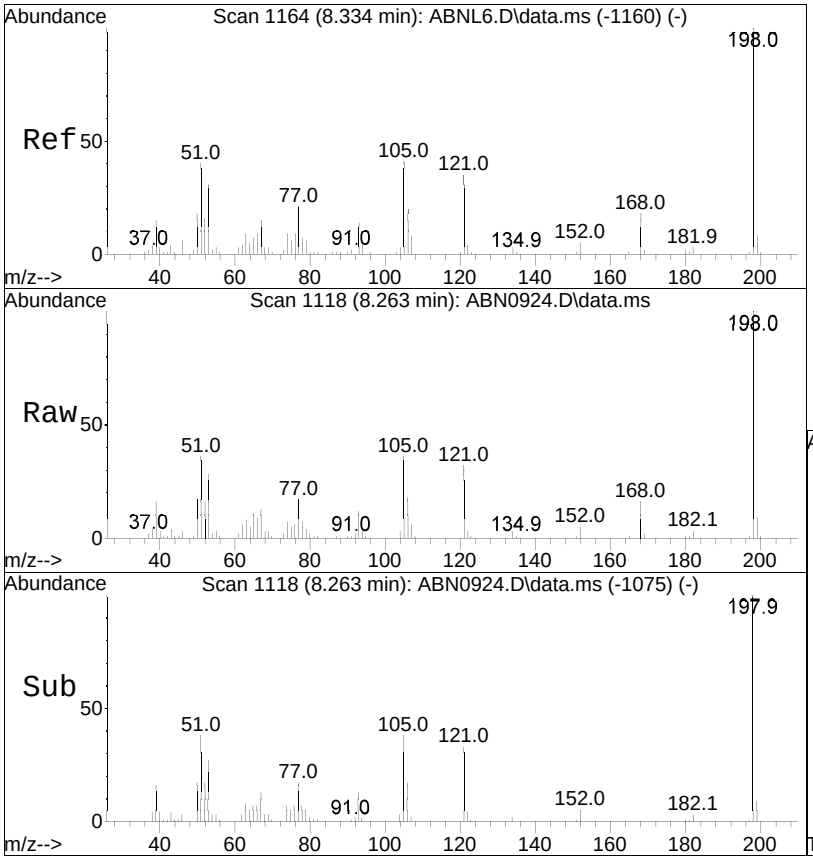


#75
4-Nitroaniline
Concen: 5.94 ug/ml
RT: 8.228 min Scan# 1112
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:138 Resp: 20655

Ion	Ratio	Lower	Upper
138	100		
108	63.1	59.2	88.8
65	92.8	97.6	146.4#

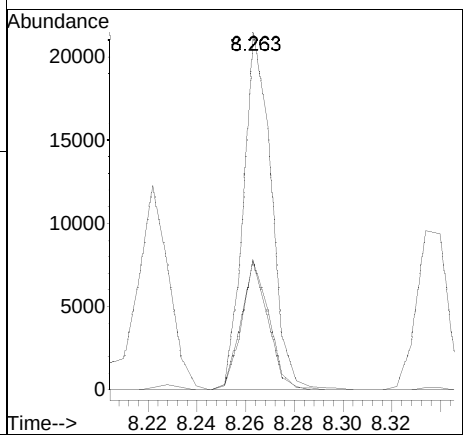


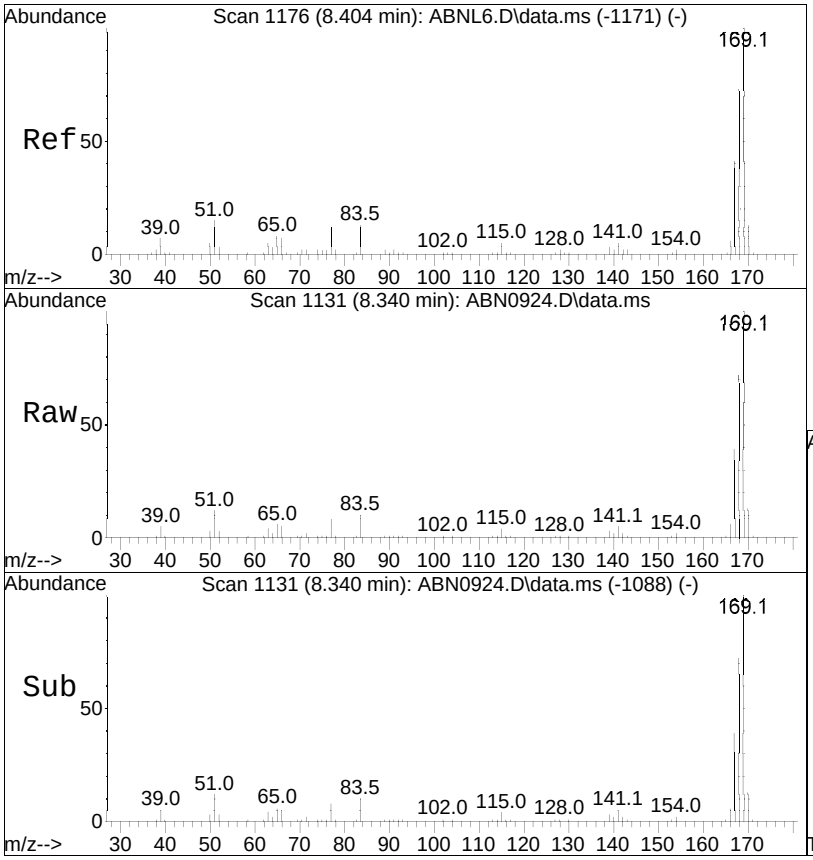


#76
4,6-Dinitro-o-cresol
Concen: 6.23 ug/ml
RT: 8.263 min Scan# 1118
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:198 Resp: 17101

Ion	Ratio	Lower	Upper
198	100		
51	34.8	49.9	74.9#
105	35.6	45.8	68.6#

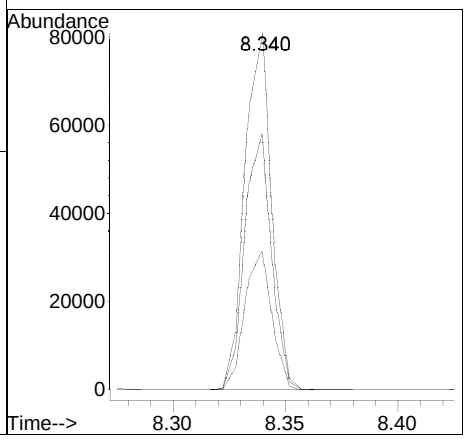


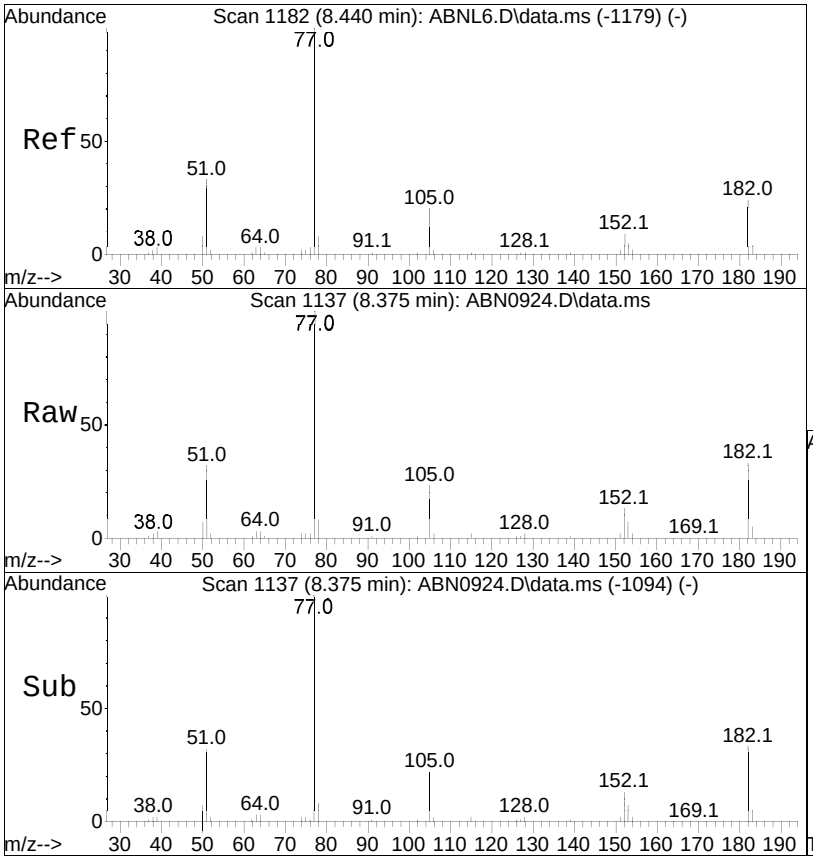


#77
NDPA/DPA
Concen: 4.91 ug/ml
RT: 8.340 min Scan# 1131
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:169 Resp: 66926

Ion	Ratio	Lower	Upper
169	100		
168	72.0	55.2	82.8
167	39.5	30.4	45.6

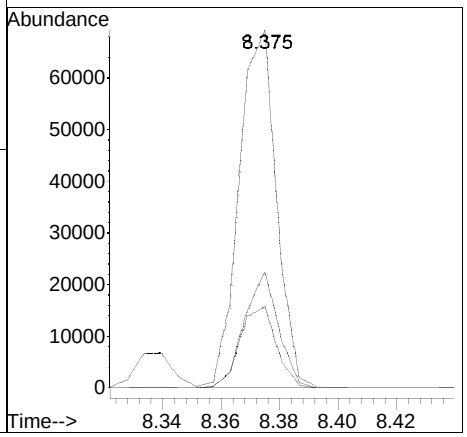


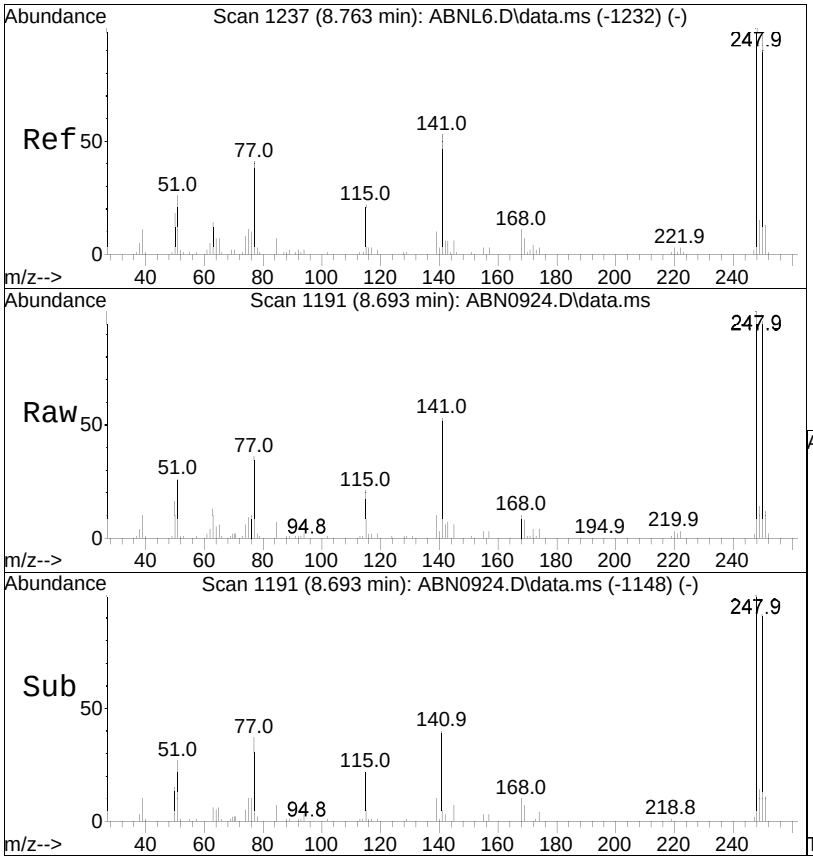


#78
Azobenzene
Concen: 4.21 ug/ml
RT: 8.375 min Scan# 1137
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion: 77 Resp: 60798

Ion	Ratio	Lower	Upper
77	100		
182	29.6	16.2	24.2#
105	22.3	17.9	26.9

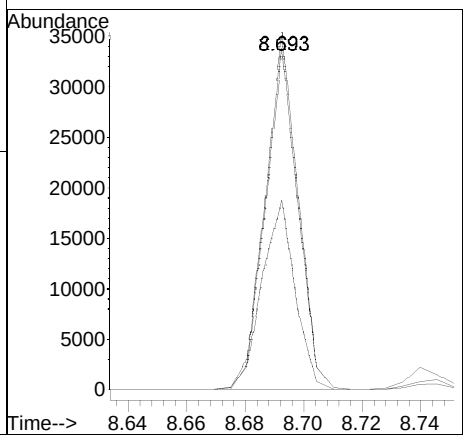


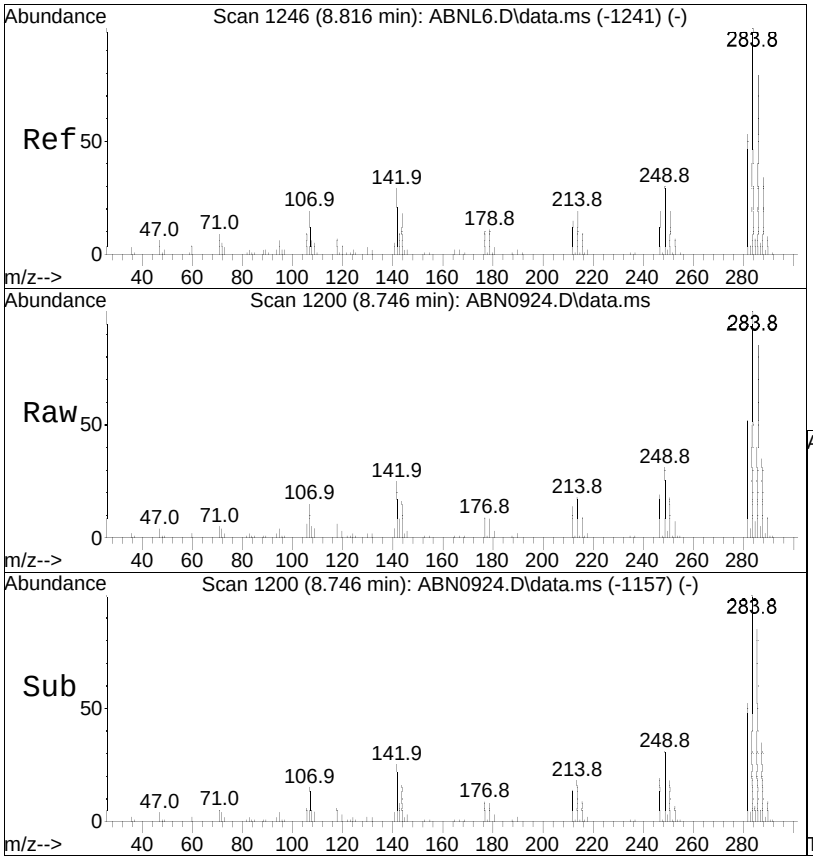


#80
4-Bromophenyl phenyl ether
Concen: 4.91 ug/ml
RT: 8.693 min Scan# 1191
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:248 Resp: 27173

Ion	Ratio	Lower	Upper
248	100		
141	53.9	74.6	111.8#
250	94.5	76.9	115.3

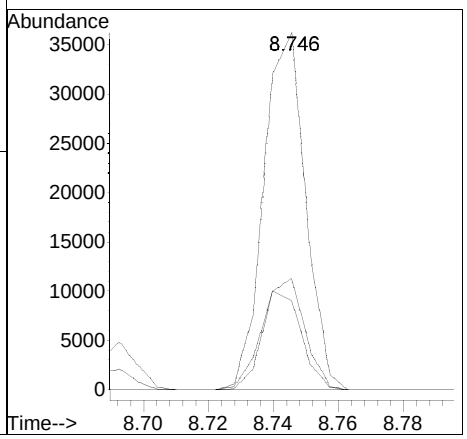


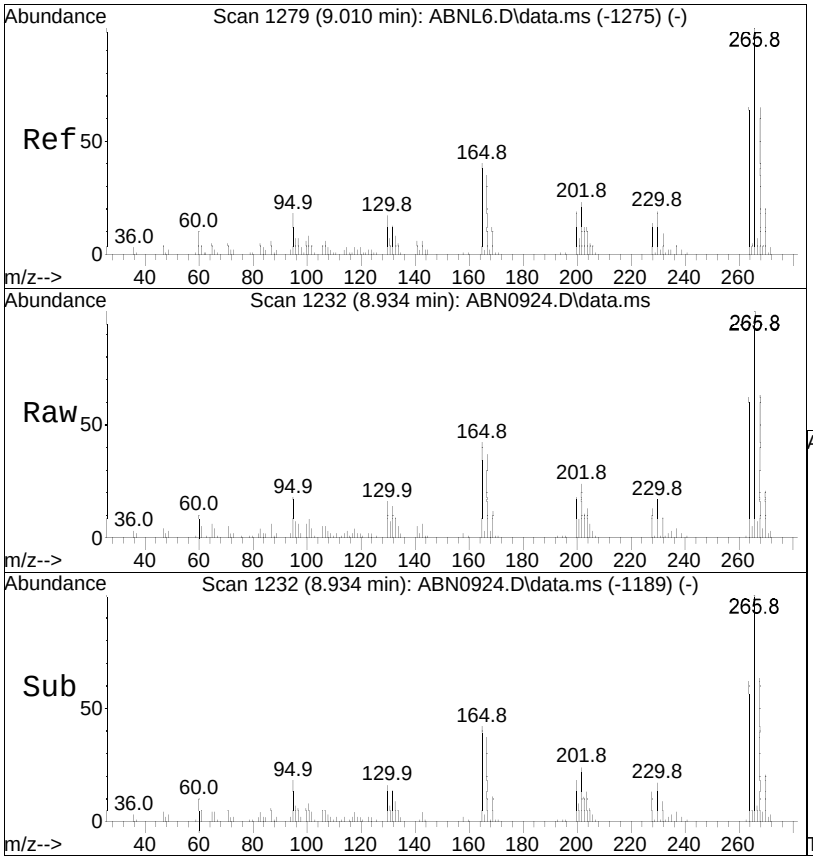


#81
Hexachlorobenzene
Concen: 4.65 ug/ml
RT: 8.746 min Scan# 1200
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:284 Resp: 32309

Ion	Ratio	Lower	Upper
284	100		
142	27.8	37.6	56.4#
249	30.4	25.4	38.2

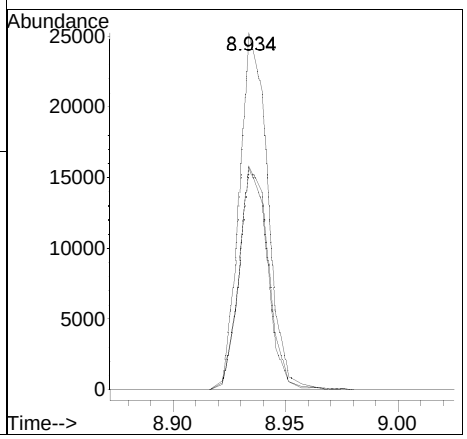


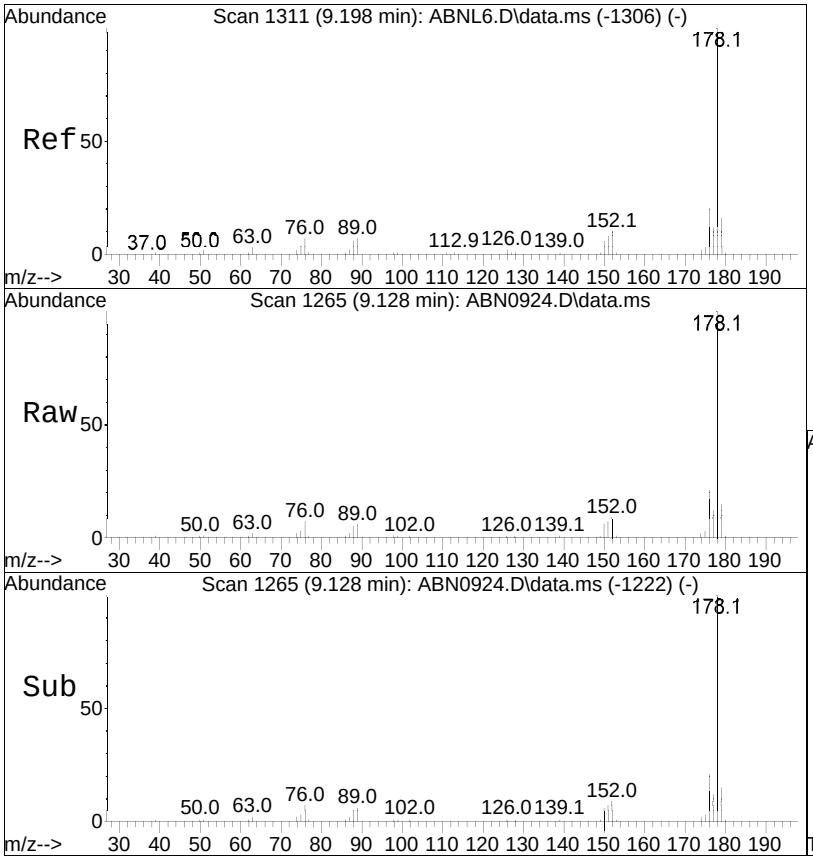


#82
Pentachlorophenol
Concen: 6.22 ug/ml
RT: 8.934 min Scan# 1232
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:266 Resp: 22175

Ion	Ratio	Lower	Upper
266	100		
264	61.9	50.7	76.1
268	65.0	52.5	78.7

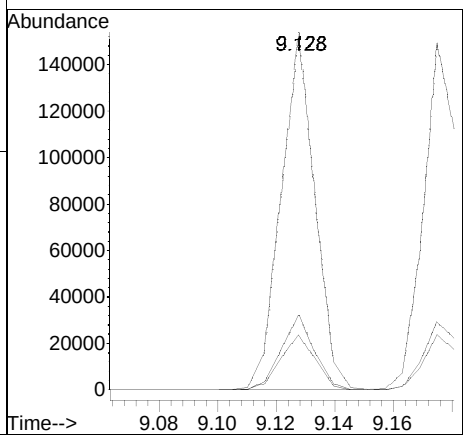


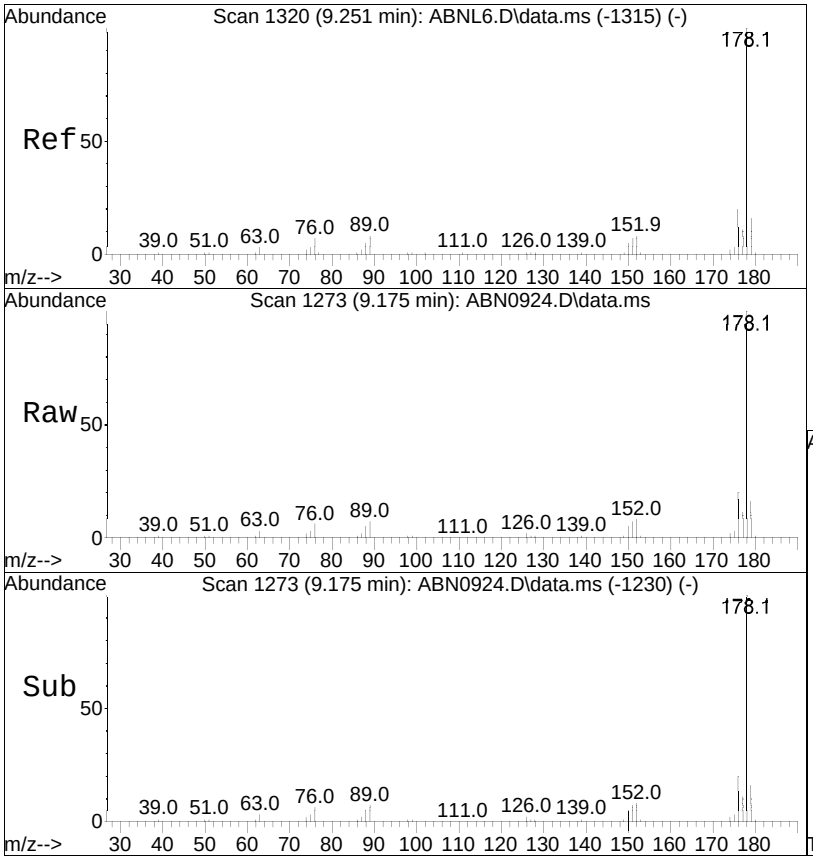


#89
Phenanthrene
Concen: 4.93 ug/ml
RT: 9.128 min Scan# 1265
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:178 Resp: 123177

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	20.5	15.4	23.2

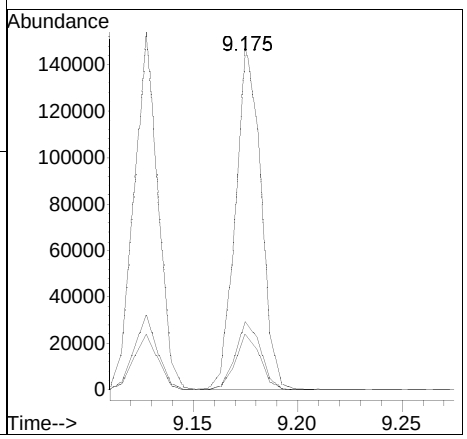


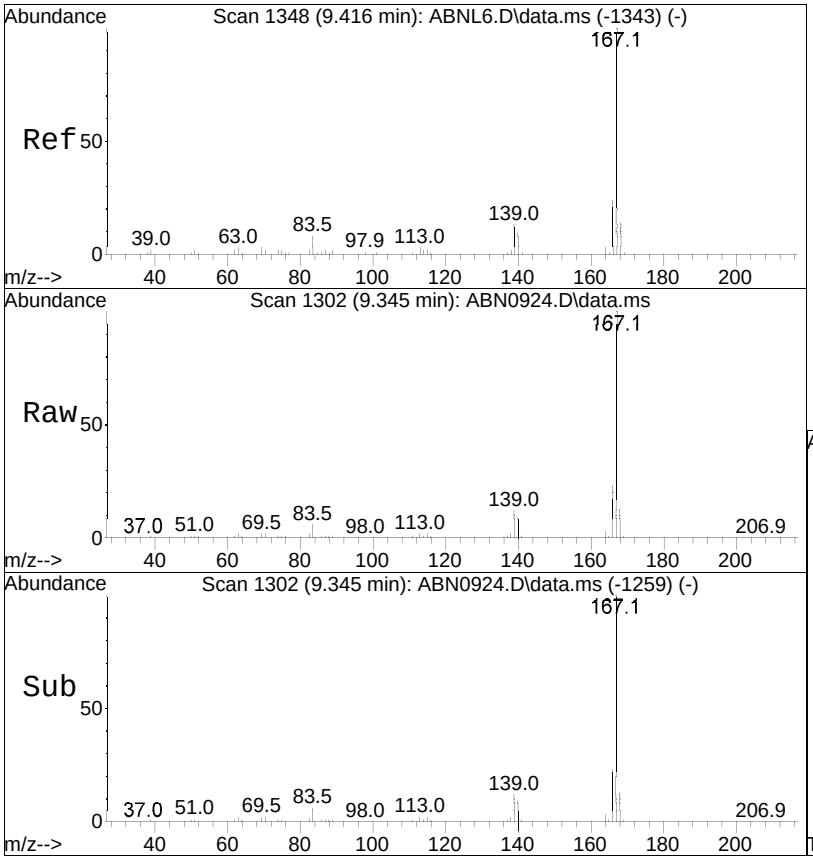


#90
Anthracene
Concen: 5.15 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:178 Resp: 125758

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.2
176	19.7	15.1	22.7

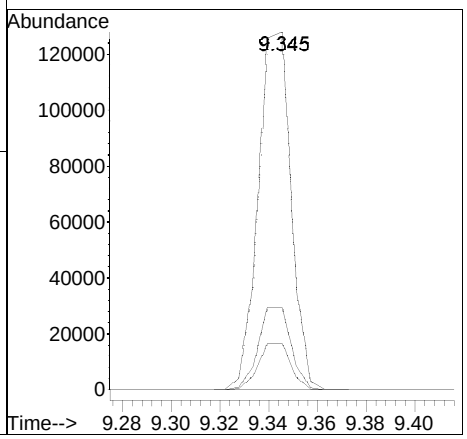


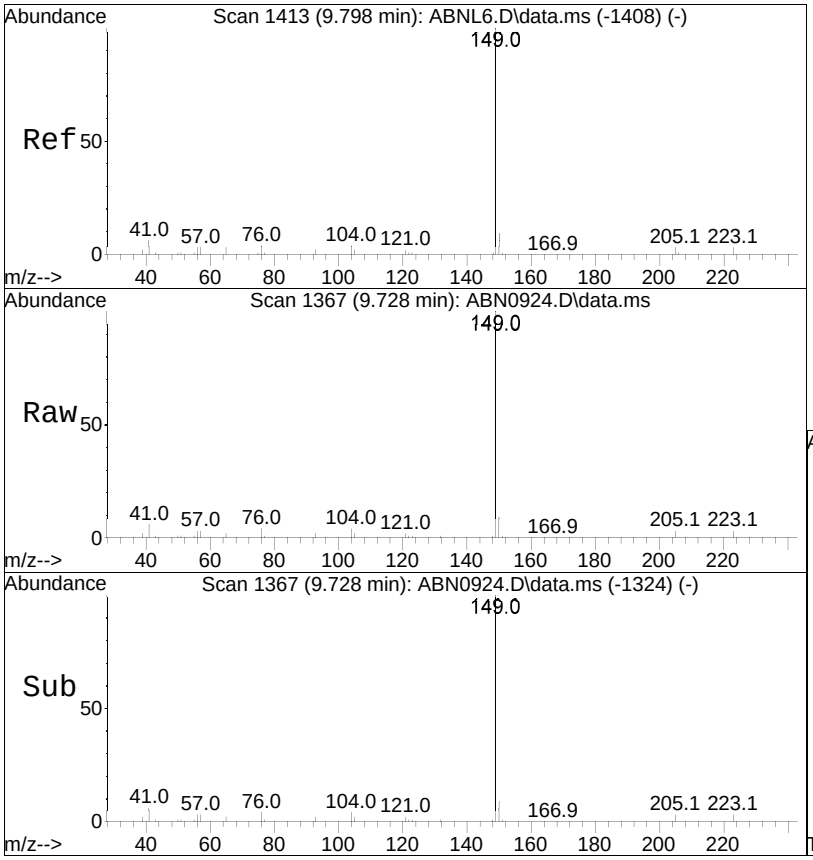


#91
Carbazole
Concen: 5.28 ug/ml
RT: 9.345 min Scan# 1302
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:167 Resp: 118069

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.8	16.2
166	23.3	17.7	26.5

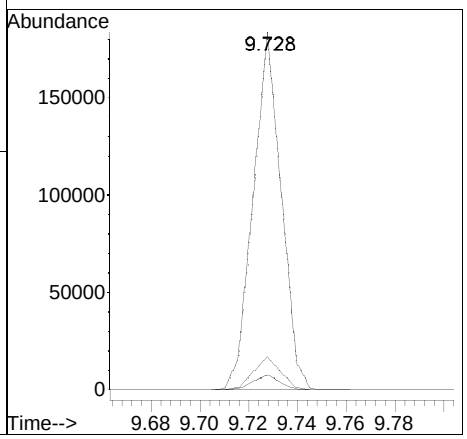


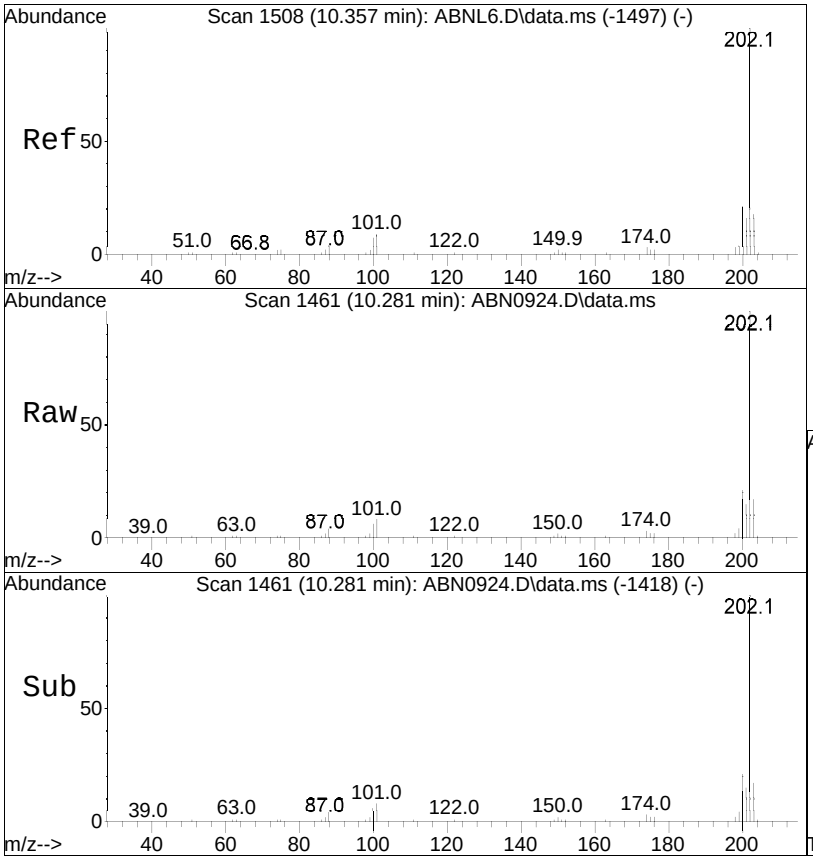


#92
Di-n-butylphthalate
Concen: 5.92 ug/ml
RT: 9.728 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:149 Resp: 144392

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.2	4.0	6.0

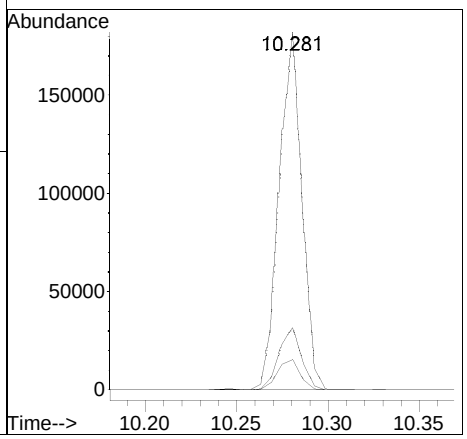


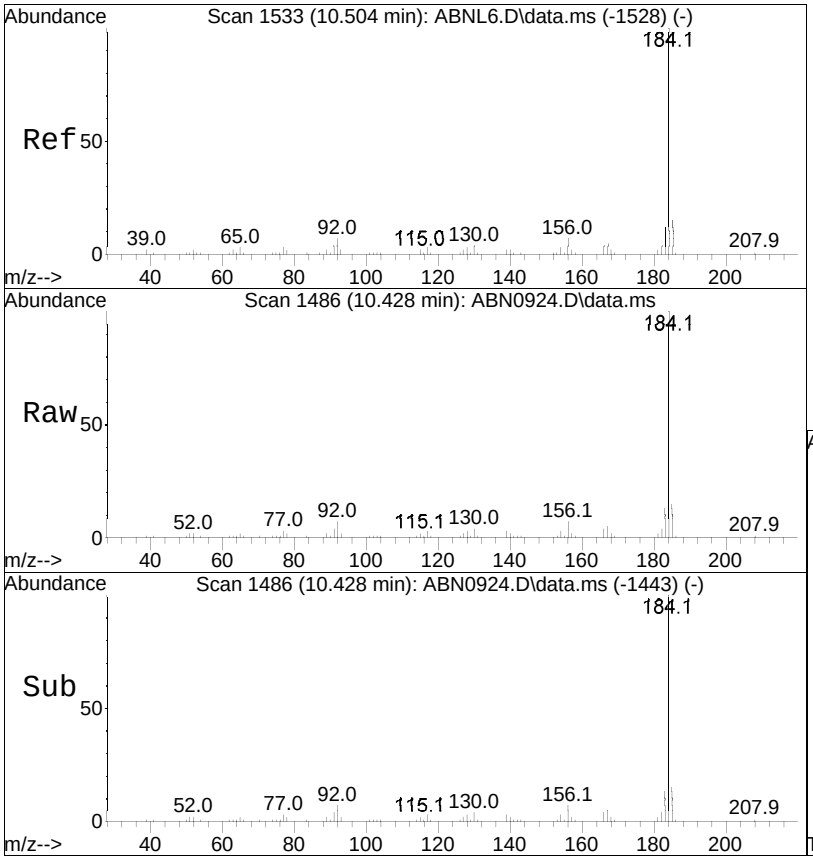


#93
Fluoranthene
Concen: 5.36 ug/ml
RT: 10.281 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:202 Resp: 155393

Ion	Ratio	Lower	Upper
202	100		
101	8.6	11.2	16.8#
203	17.5	13.7	20.5

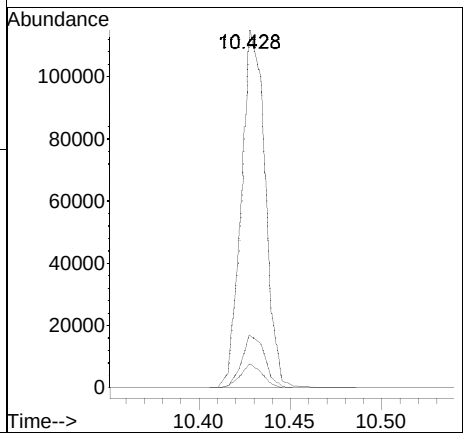


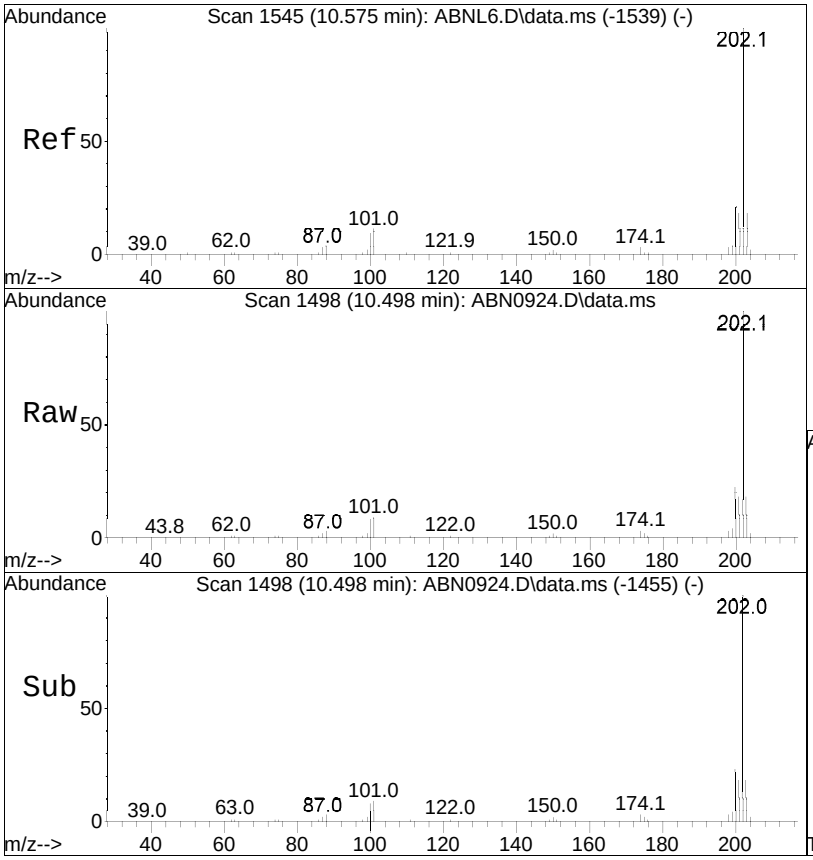


#94
Benzidine
Concen: 6.44 ug/ml
RT: 10.428 min Scan# 1486
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:184 Resp: 102493

Ion	Ratio	Lower	Upper
184	100		
92	6.2	7.3	10.9#
185	14.3	11.8	17.8

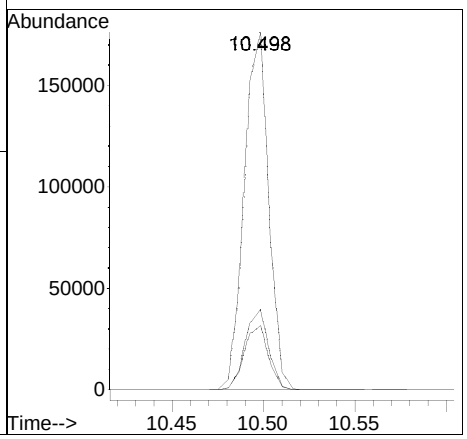


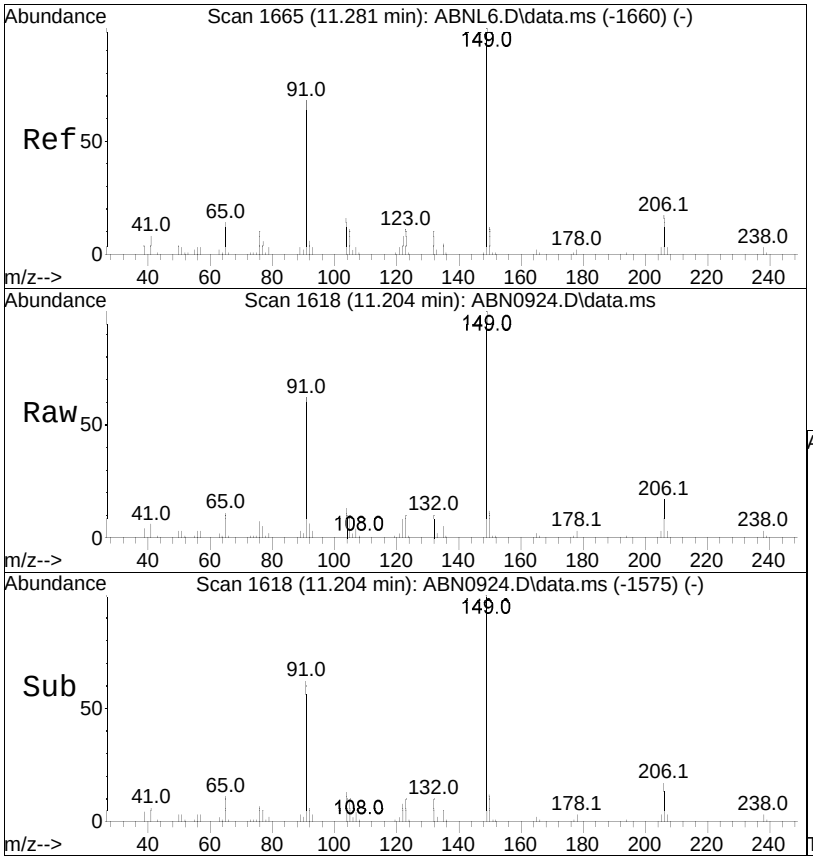


#95
Pyrene
Concen: 5.26 ug/ml
RT: 10.498 min Scan# 1498
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:202 Resp: 161483

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.9	25.3
203	18.0	14.3	21.5

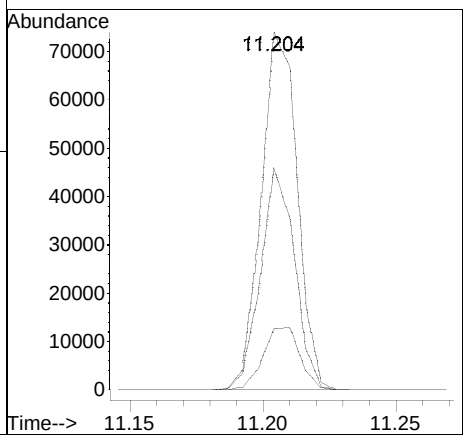


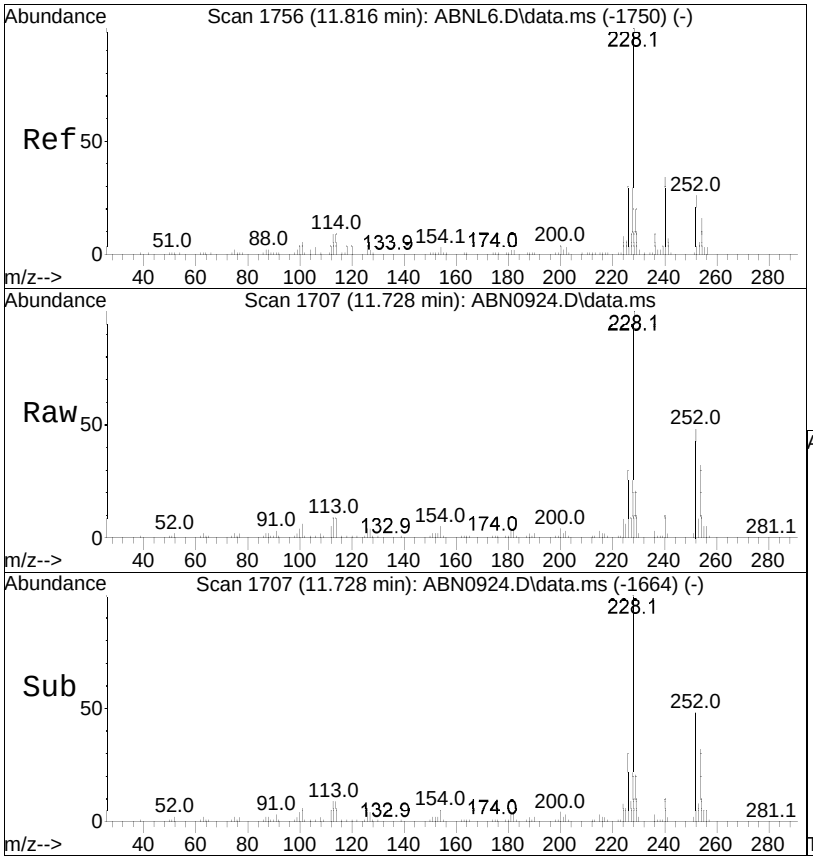


#97
Butyl benzyl phthalate
Concen: 6.38 ug/ml
RT: 11.204 min Scan# 1618
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:149 Resp: 68903

Ion	Ratio	Lower	Upper
149	100		
91	58.7	57.9	86.9
206	18.0	11.9	17.9#

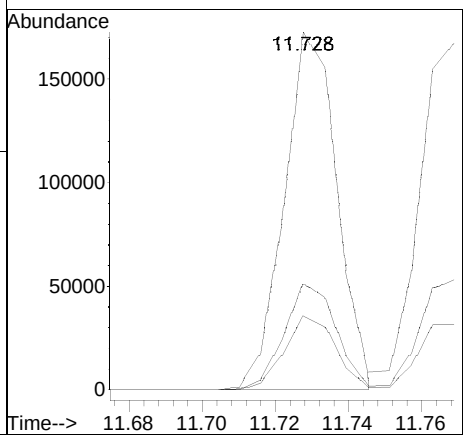


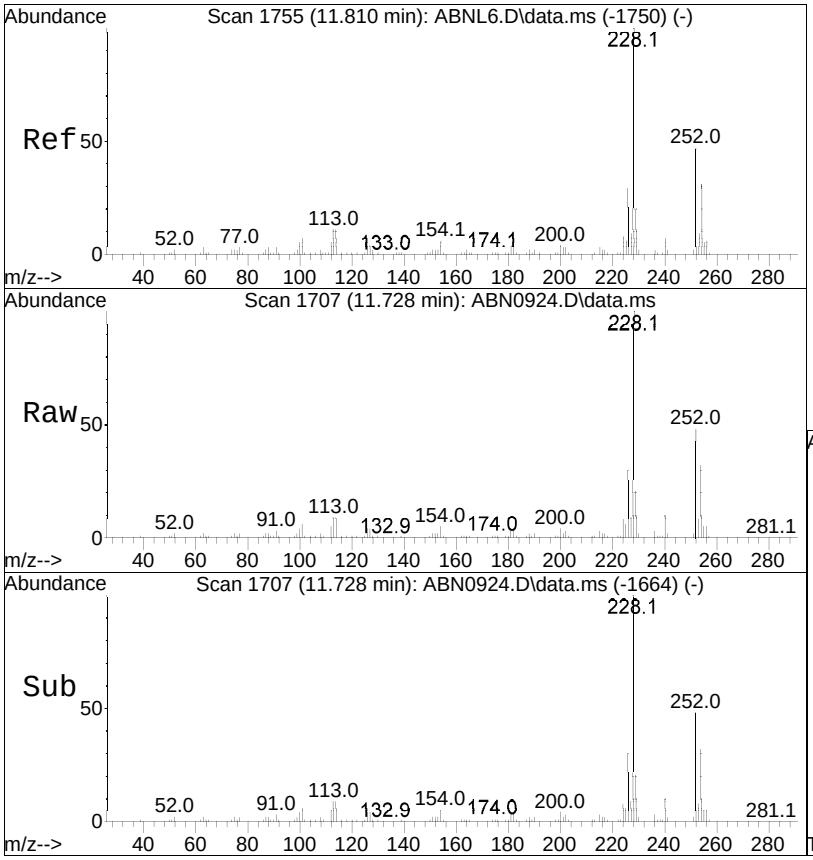


#105
Benzo(a)anthracene
Concen: 4.80 ug/ml M3
RT: 11.728 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:228 Resp: 173192

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	34.0
229	20.1	15.8	23.6

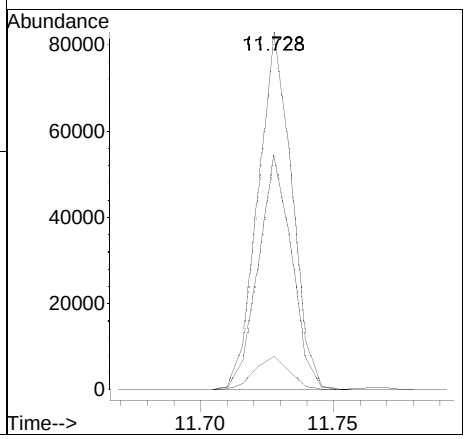


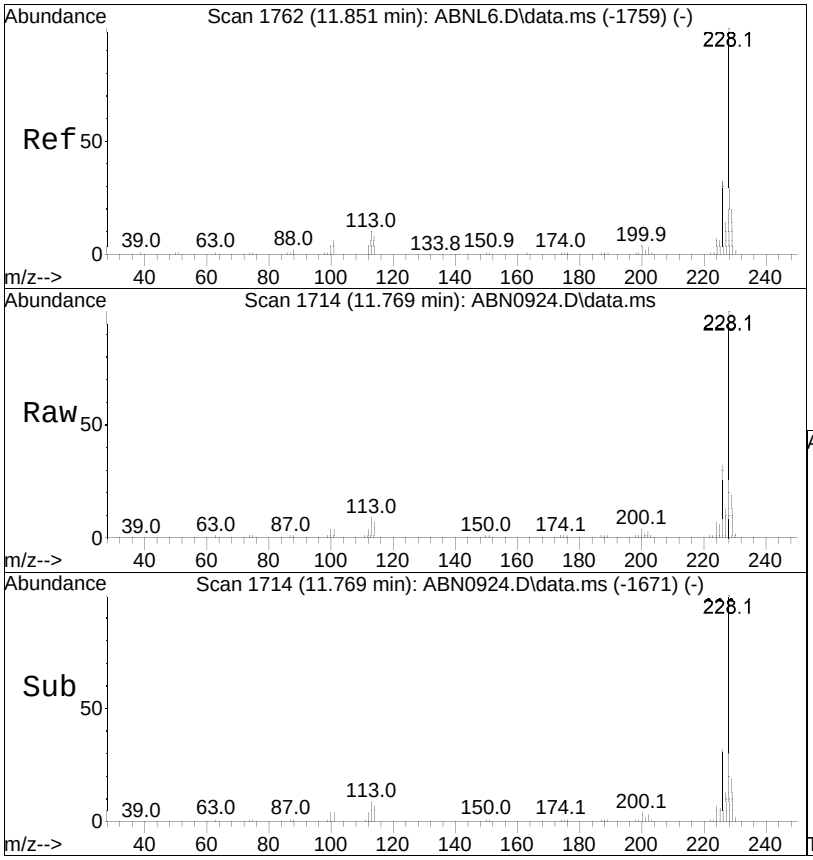


#106
3,3'-Dichlorobenzidine
Concen: 5.53 ug/ml
RT: 11.728 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:252 Resp: 72750

Ion	Ratio	Lower	Upper
252	100		
126	9.9	12.6	19.0#
254	65.1	51.1	76.7

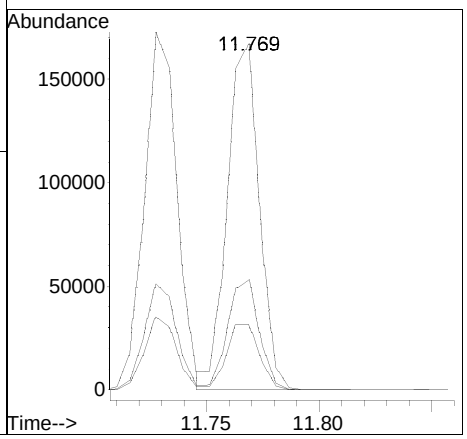


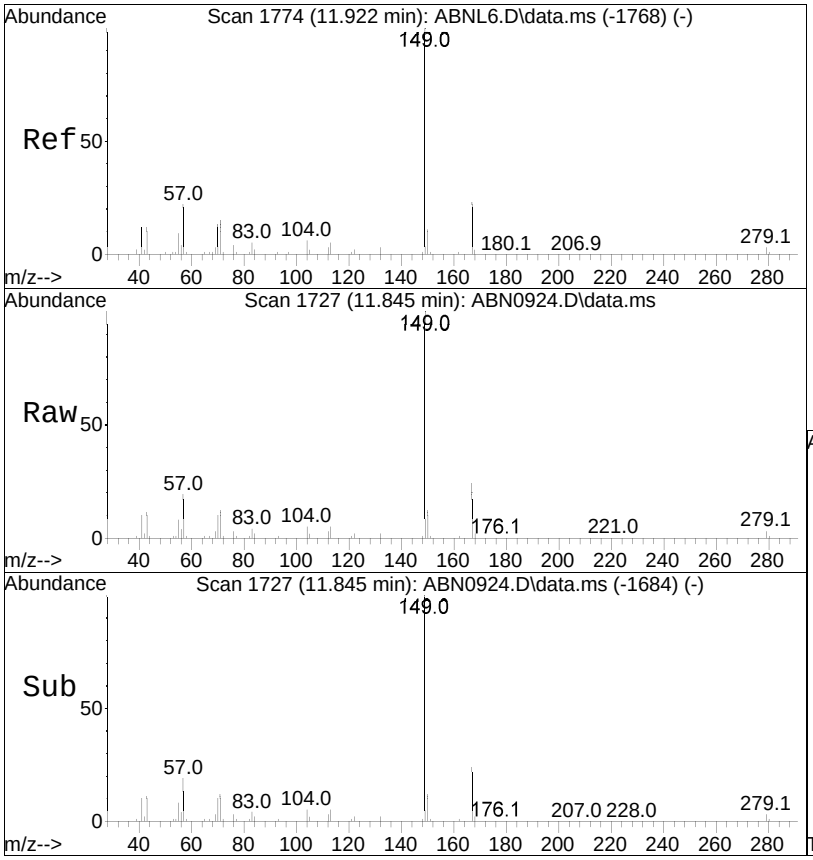


#107
Chrysene
Concen: 4.68 ug/ml
RT: 11.769 min Scan# 1714
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:228 Resp: 165530

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.7	37.1
229	19.6	15.5	23.3

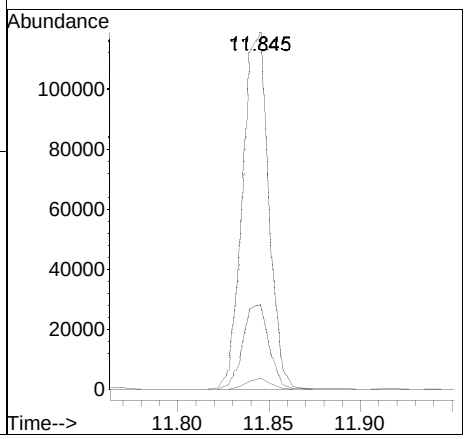


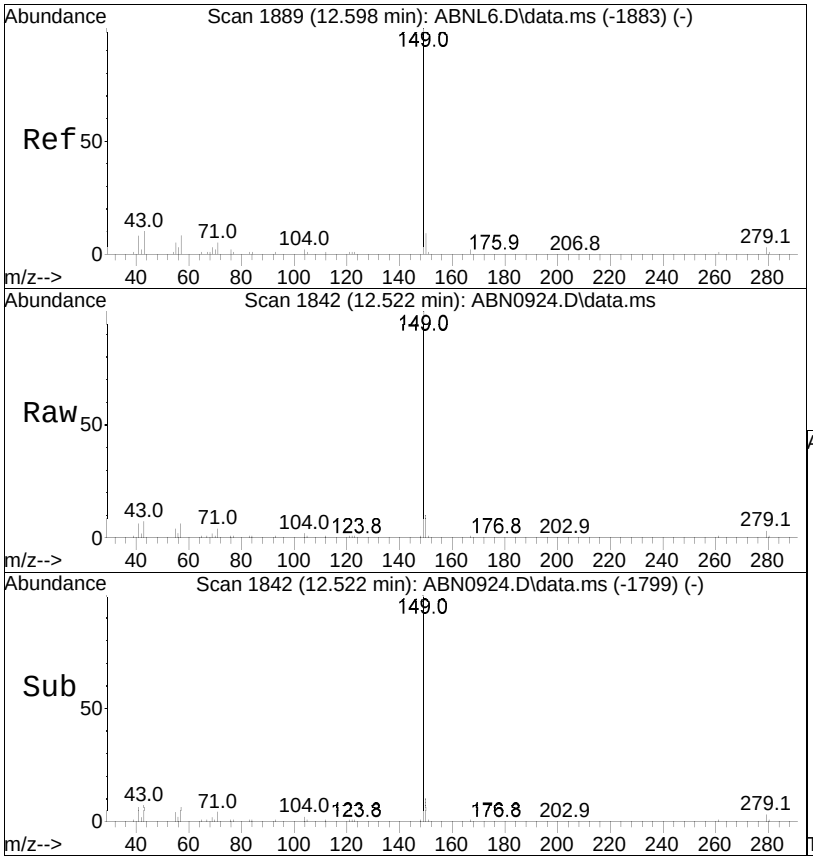


#108
Bis(2-ethylhexyl)phthalate
Concen: 6.51 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:149 Resp: 116895

Ion	Ratio	Lower	Upper
149	100		
167	23.9	18.4	27.6
279	2.7	1.7	2.5#

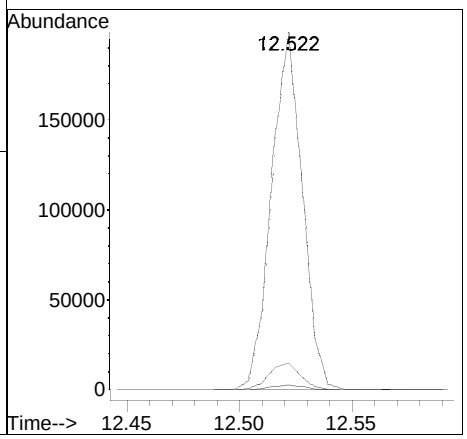


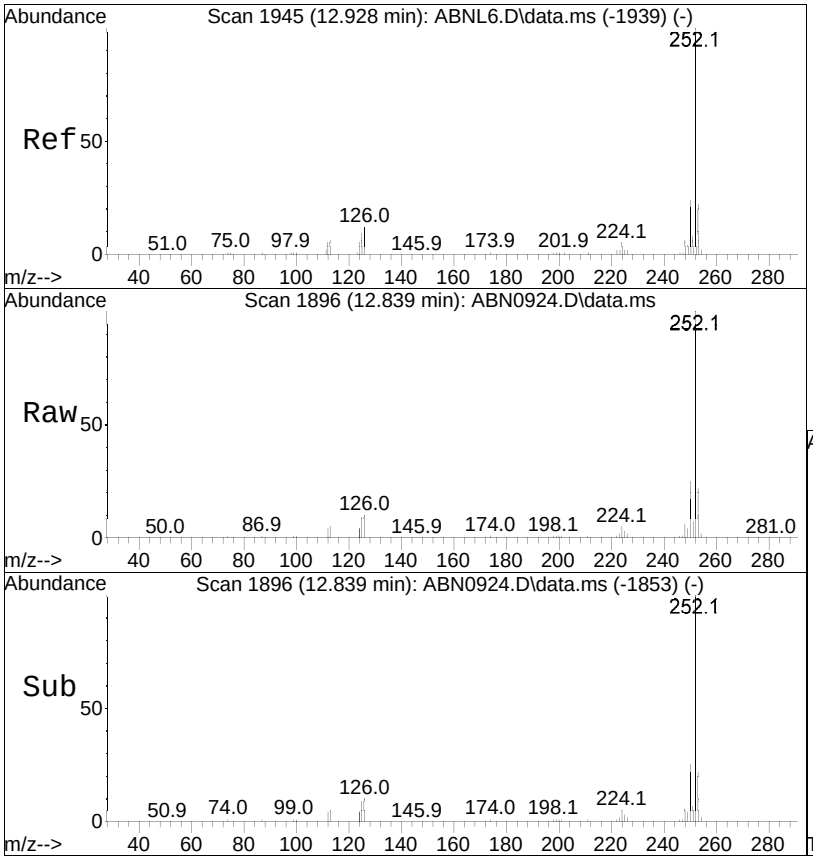


#109
Di-n-octylphthalate
Concen: 6.82 ug/ml
RT: 12.522 min Scan# 1842
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:149 Resp: 187474

Ion	Ratio	Lower	Upper
149	100		
43	7.7	8.2	12.2#
167	1.3	1.1	1.7

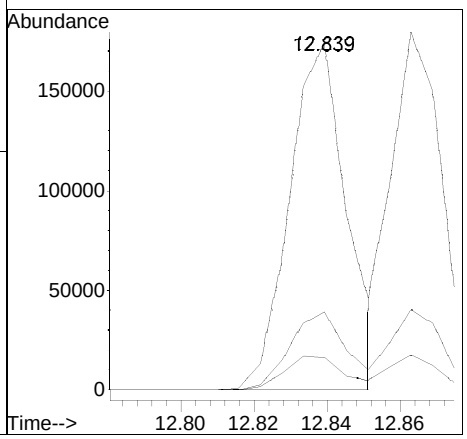


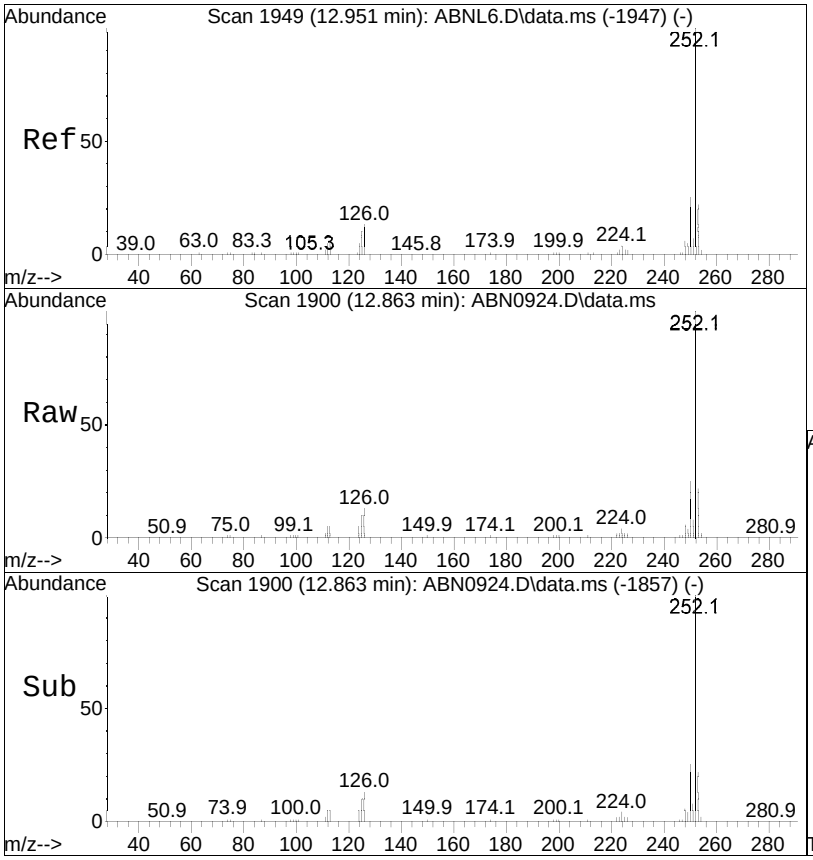


#110
Benzo(b)fluoranthene
Concen: 5.13 ug/ml
RT: 12.839 min Scan# 1896
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:252 Resp: 189915

Ion	Ratio	Lower	Upper
252	100		
125	10.2	11.3	16.9#
253	22.4	17.8	26.8

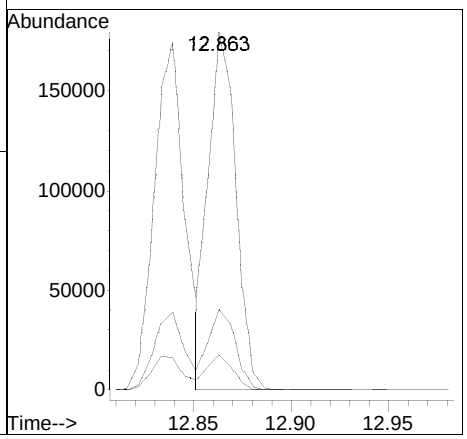


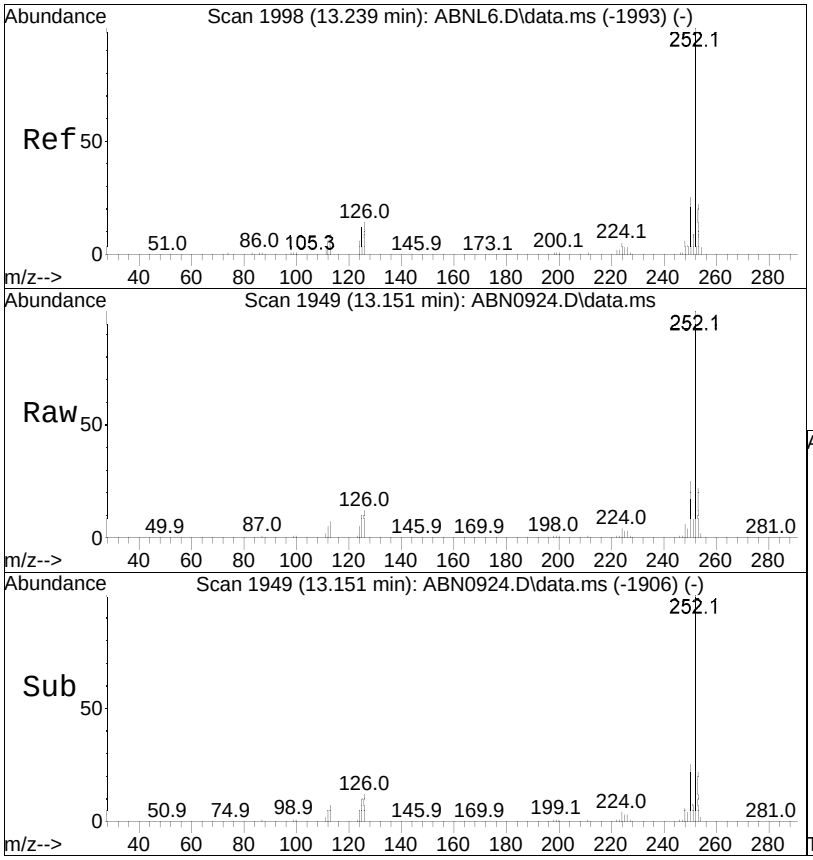


#111
Benzo(k)fluoranthene
Concen: 5.17 ug/ml M3
RT: 12.863 min Scan# 1900
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:252 Resp: 174730

Ion	Ratio	Lower	Upper
252	100		
125	11.1	11.5	17.3#
253	24.3	17.6	26.4

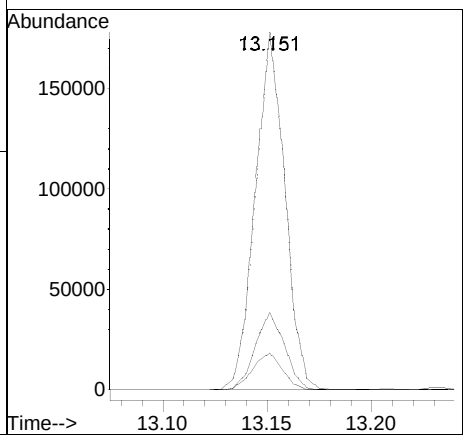


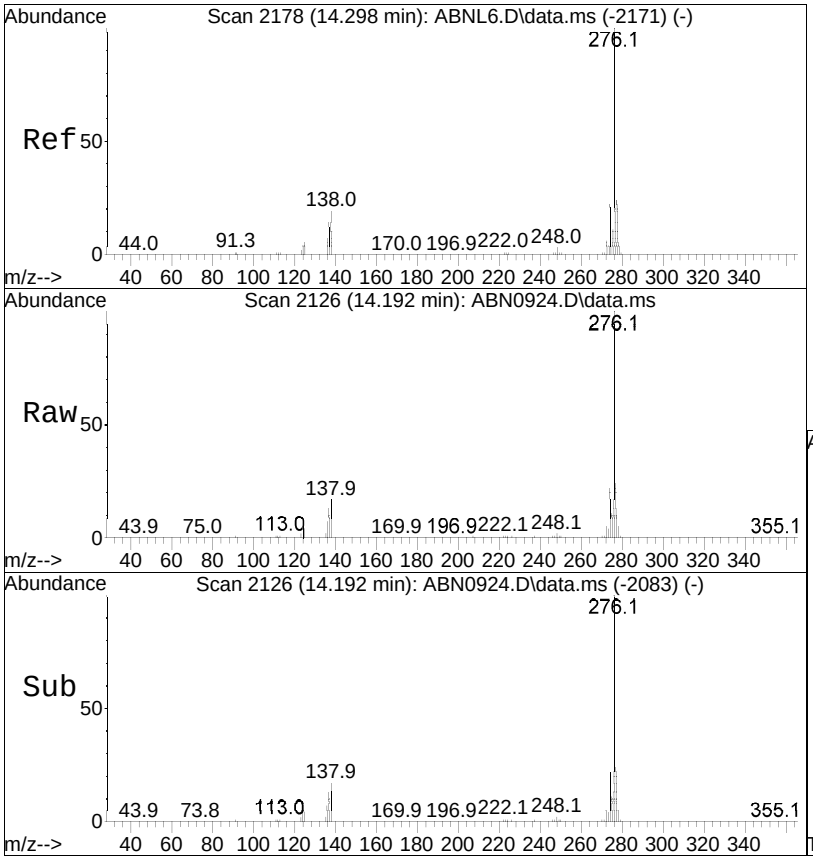


#112
Benzo(a)pyrene
Concen: 5.38 ug/ml
RT: 13.151 min Scan# 1949
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:252 Resp: 173630

Ion	Ratio	Lower	Upper
252	100		
125	10.6	12.6	18.8#
253	21.8	17.5	26.3

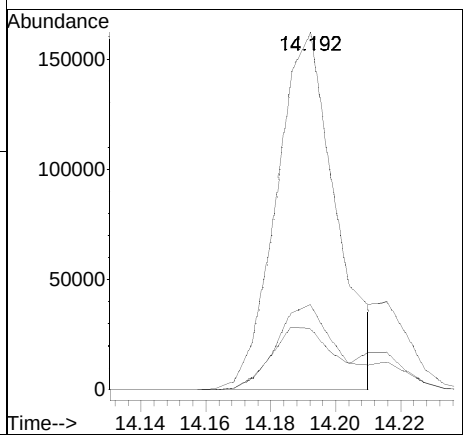


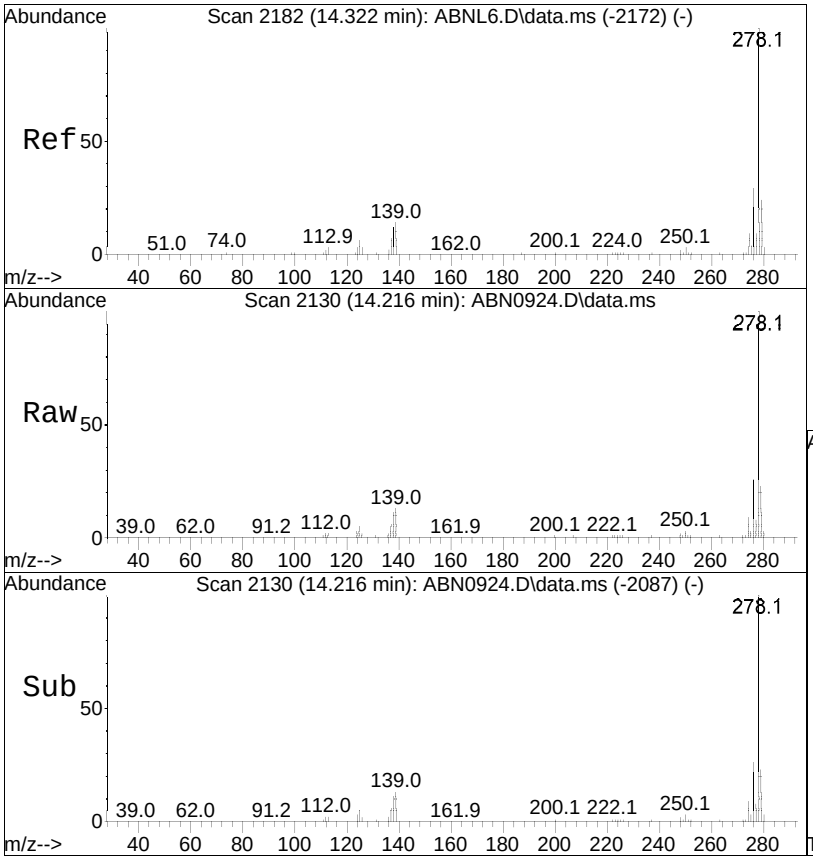


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.62 ug/mL M6
RT: 14.192 min Scan# 2126
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:276 Resp: 207630

Ion	Ratio	Lower	Upper
276	100		
138	18.5	22.1	33.1#
277	28.6	19.0	28.6#

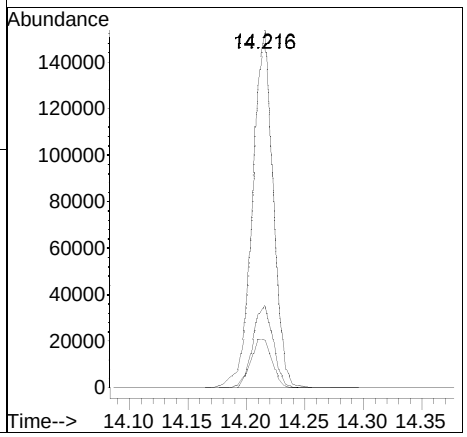


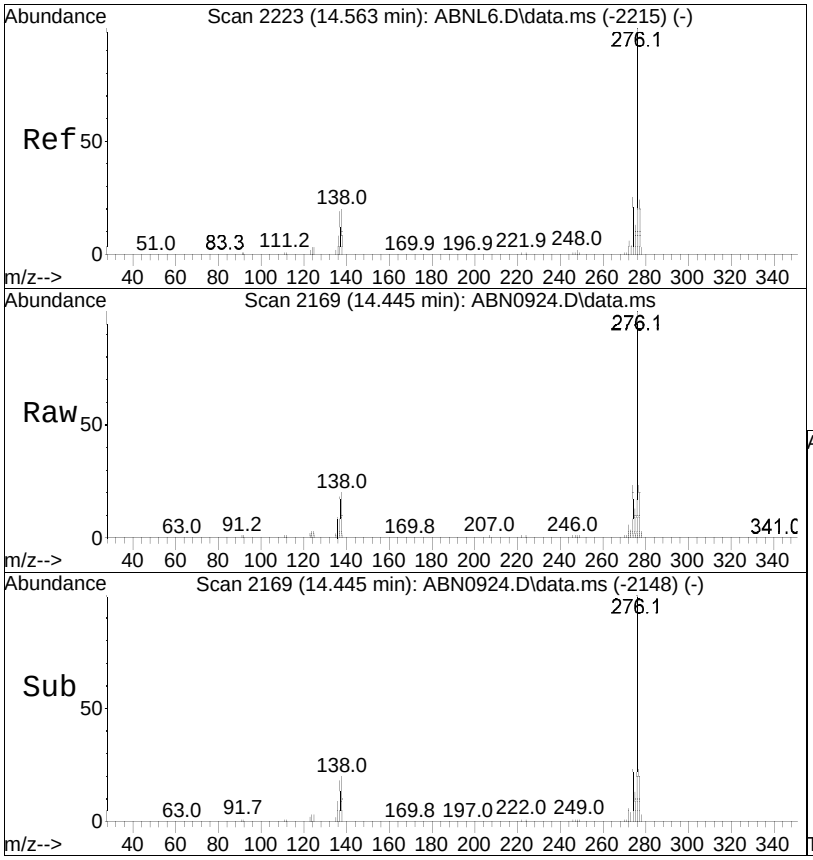


#115
Dibenzo(a,h)anthracene
Concen: 5.32 ug/ml
RT: 14.216 min Scan# 2130
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:278 Resp: 187725

Ion	Ratio	Lower	Upper
278	100		
139	14.1	17.8	26.8#
279	23.1	19.2	28.8

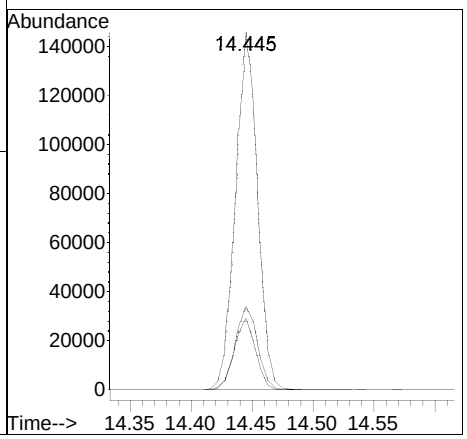




#116
Benzo(ghi)perylene
Concen: 5.09 ug/ml
RT: 14.445 min Scan# 2169
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 08:58 am

Tgt Ion:276 Resp: 181062

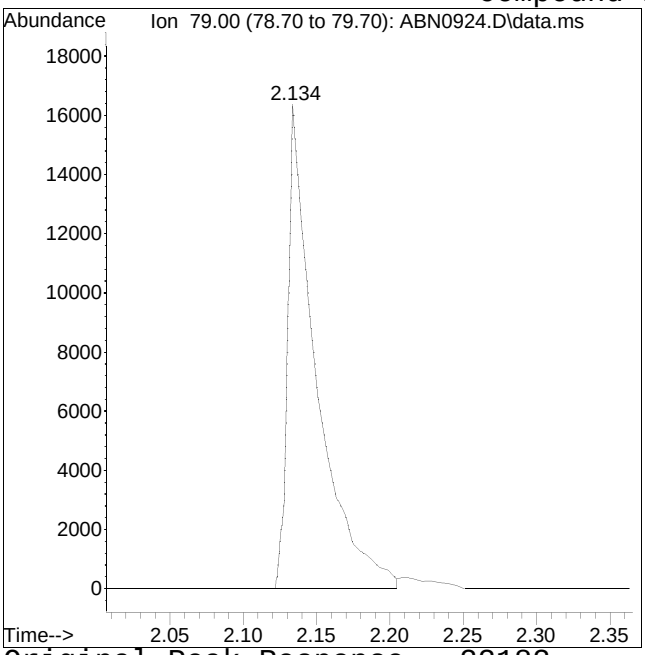
Ion	Ratio	Lower	Upper
276	100		
138	19.7	21.9	32.9#
277	23.7	18.4	27.6



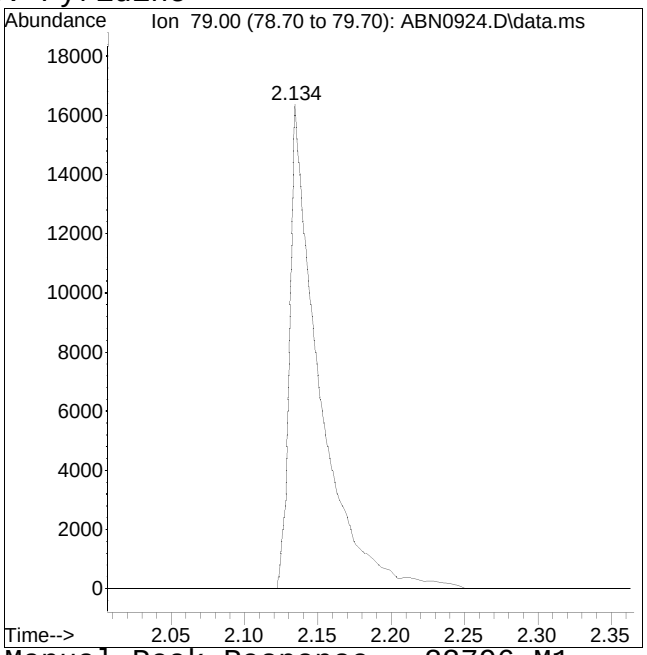
Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0924.D Operator : SV112:slr
Date Inj'd : 9/24/2024 8:58 am Instrument : SV112
Sample : WG1975506-3,32,,ABN 10908 Quant Date : 9/24/2024 9:30 am

Compound #3: Pyridine



Original Peak Response = 22182



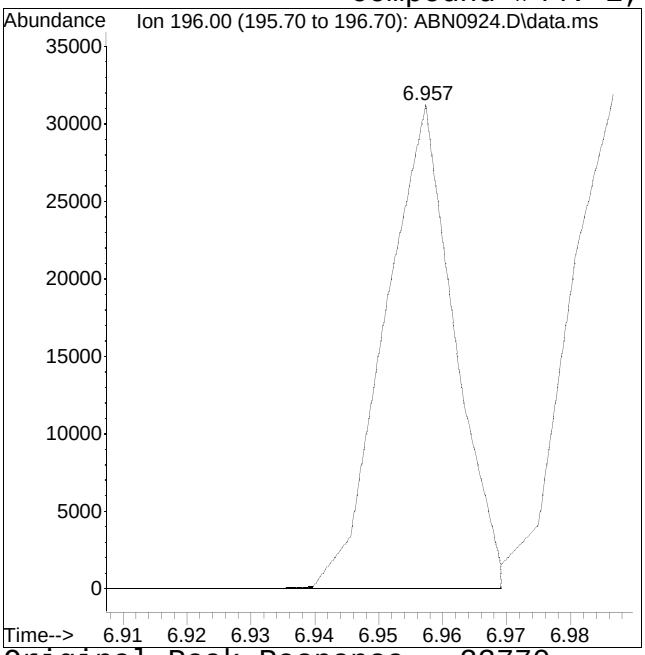
Manual Peak Response = 22796 M1

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

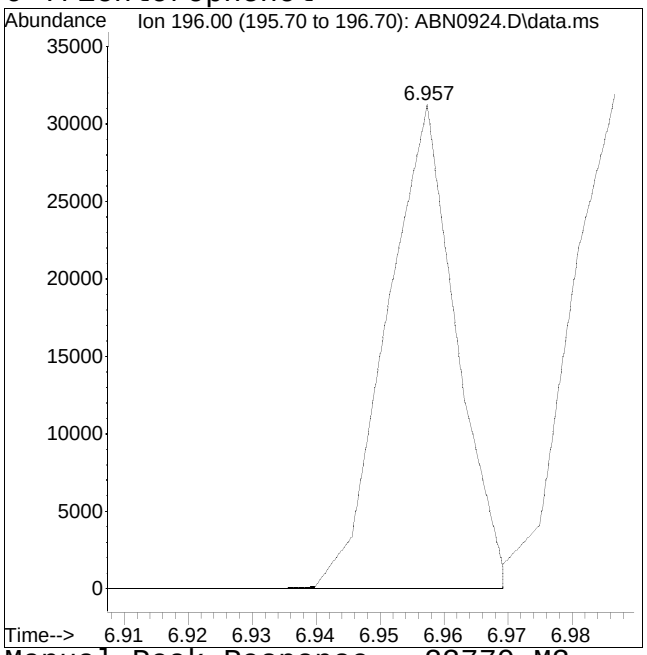
Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0924.D Operator : SV112:slr
Date Inj'd : 9/24/2024 8:58 am Instrument : SV112
Sample : WG1975506-3,32,,ABN 10908 Quant Date : 9/24/2024 9:30 am

Compound #44: 2,4,6-Trichlorophenol



Original Peak Response = 23770



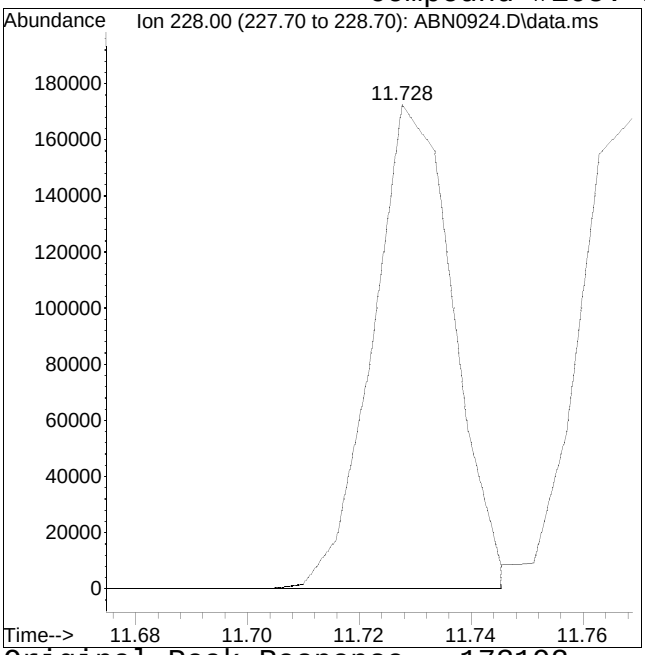
Manual Peak Response = 23770 M3

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

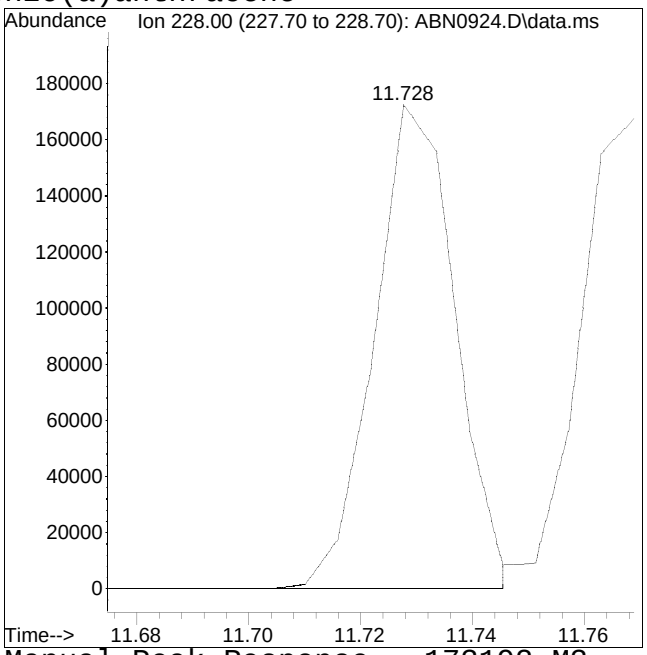
Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0924.D Operator : SV112:slr
Date Inj'd : 9/24/2024 8:58 am Instrument : SV112
Sample : WG1975506-3,32,,ABN 10908 Quant Date : 9/24/2024 9:30 am

Compound #105: Benzo(a)anthracene



Original Peak Response = 173192



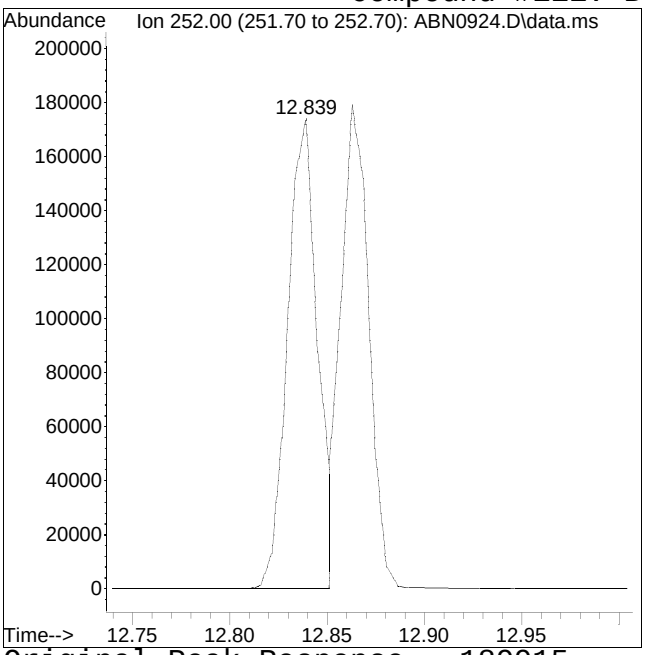
Manual Peak Response = 173192 M3

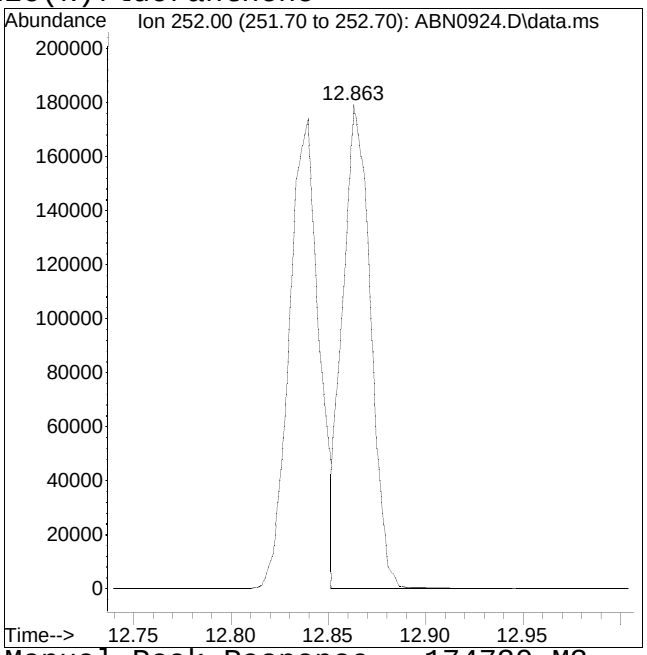
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0924.D Operator : SV112:slr
Date Inj'd : 9/24/2024 8:58 am Instrument : SV112
Sample : WG1975506-3,32,,ABN 10908 Quant Date : 9/24/2024 9:30 am

Compound #111: Benzo(k)fluoranthene





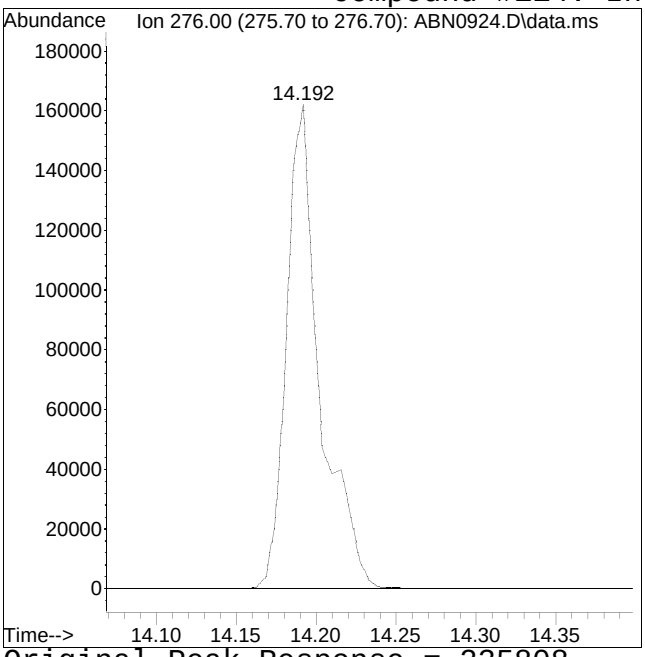
Original Peak Response = 189915 Manual Peak Response = 174730 M3

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

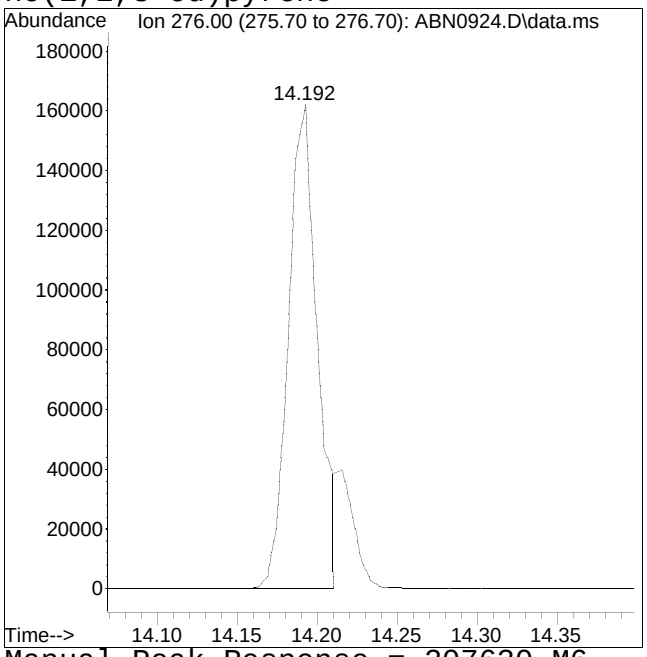
Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : ABN0924.D Operator : SV112:slr
Date Inj'd : 9/24/2024 8:58 am Instrument : SV112
Sample : WG1975506-3,32,,ABN 10908 Quant Date : 9/24/2024 9:30 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 235808



Manual Peak Response = 207630 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 09:43 am
Operator : SV112:slr
Sample : WG1975506-5,32,,ADP 10751 gmr0914A
Misc : WG1975506,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 10:08:29 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:09:24 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	86	0.00
33	T	1,4-Dioxane		0.470	0.456	3.0	95	0.00
34	T	n-Decane		1.145	1.141	0.3	93	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	86	0.00
87	T	Atrazine		0.441	0.512	-16.1	111	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	81	0.00
101	T	n-Octadecane		0.315	0.363	-15.2	105	0.00
102	T	Parathion	*	5.000	6.730	-34.6#	135	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	6.313	-26.3#	121	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 09:43 am
Operator : SV112:slr
Sample : WG1975506-5,32,,ADP 10751 gmr0914A
Misc : WG1975506,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 10:08:29 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:09:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	4.740	152	17404	4.000	ug/ml		0.00
86) IS3_Acenaphthene-d10	7.675	164	38891	4.000	ug/ml		0.00
100) IS3_Phenanthrene-d10	9.104	188	87342	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	1.828	88	9914	4.844	ug/ml	#	81
34) n-Decane	4.628	57	24819	4.980	ug/ml		91
87) Atrazine	8.875	200	24890	5.801	ug/ml		99
101) n-Octadecane	9.075	57	39625	5.767	ug/ml		95
102) Parathion	9.887	109	13387	6.730	ug/ml	#	87
103) 3,3'-Dimethylbenzidine	11.169	212	110233	6.313	ug/ml		98

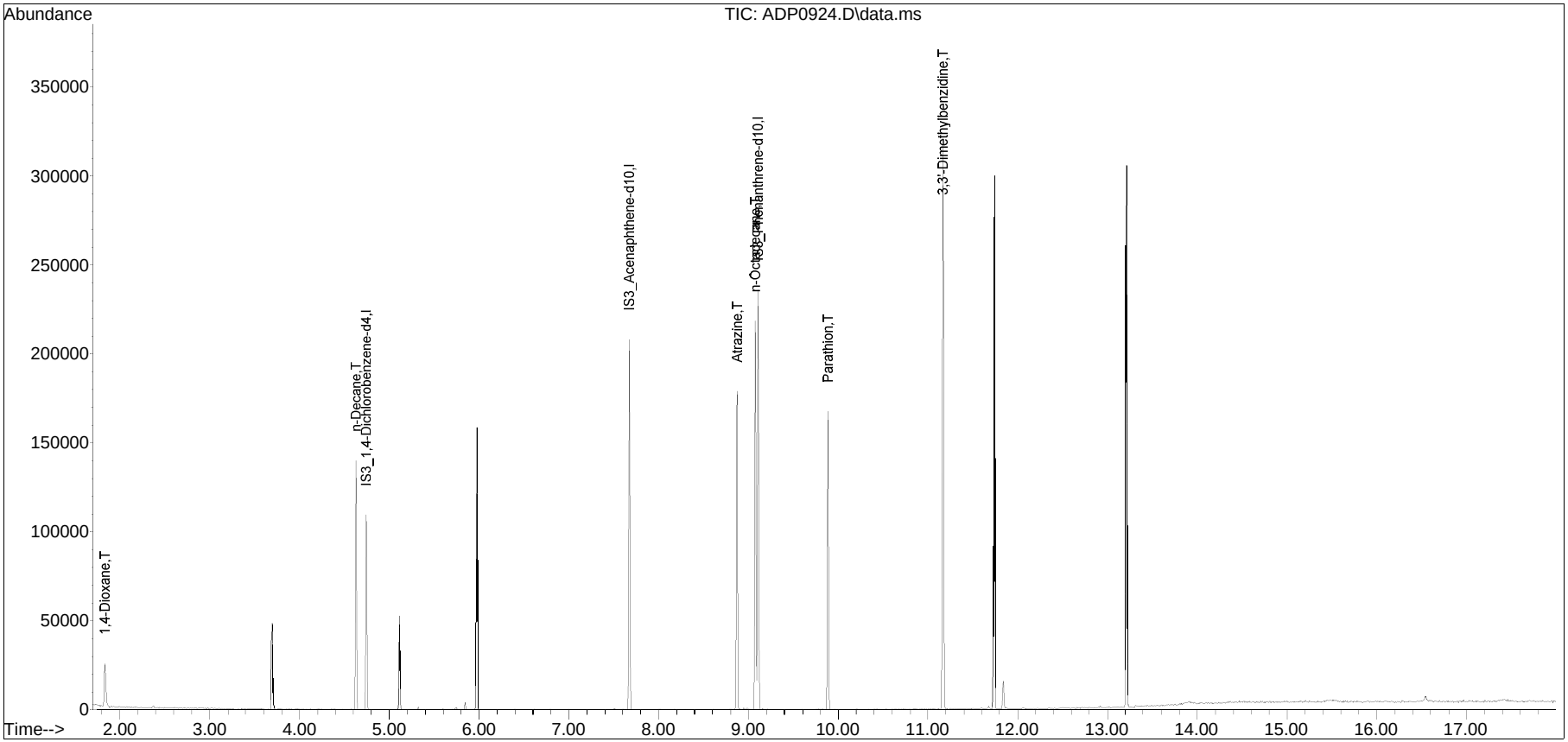
(#) = qualifier out of range (m) = manual integration (+) = signals summed

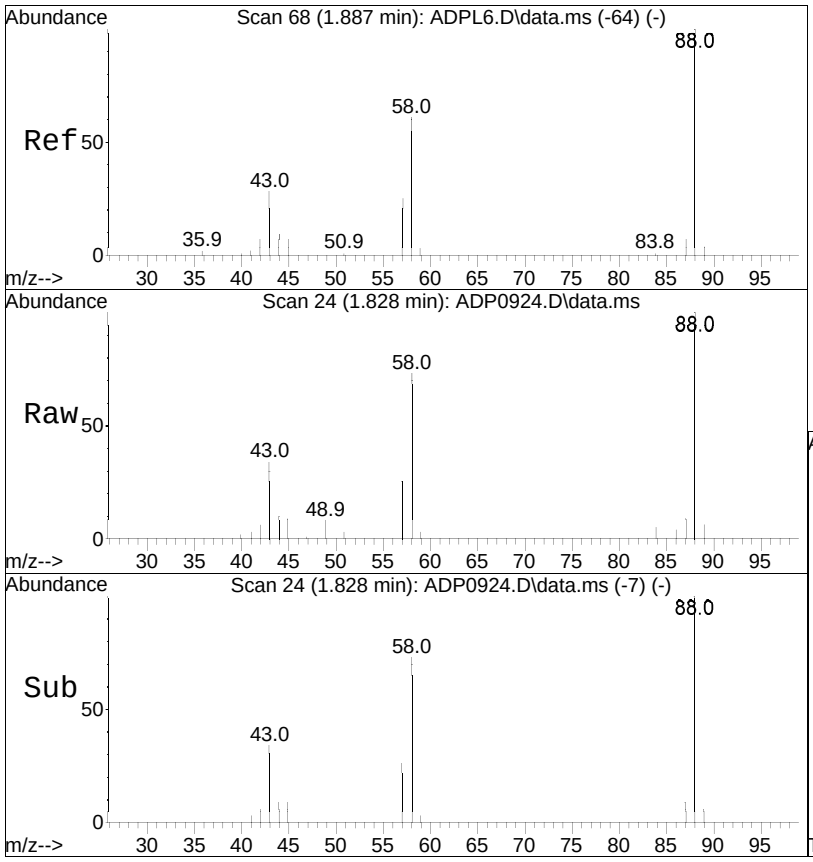
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 09:43 am
Operator : SV112:slr
Sample : WG1975506-5,32,,ADP 10751 gmr0914A
Misc : WG1975506,,ical21241
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 10:08:29 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:09:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

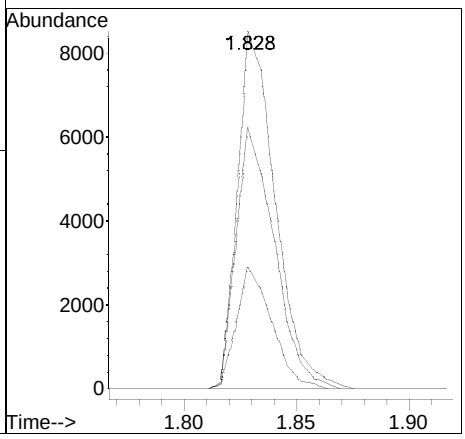


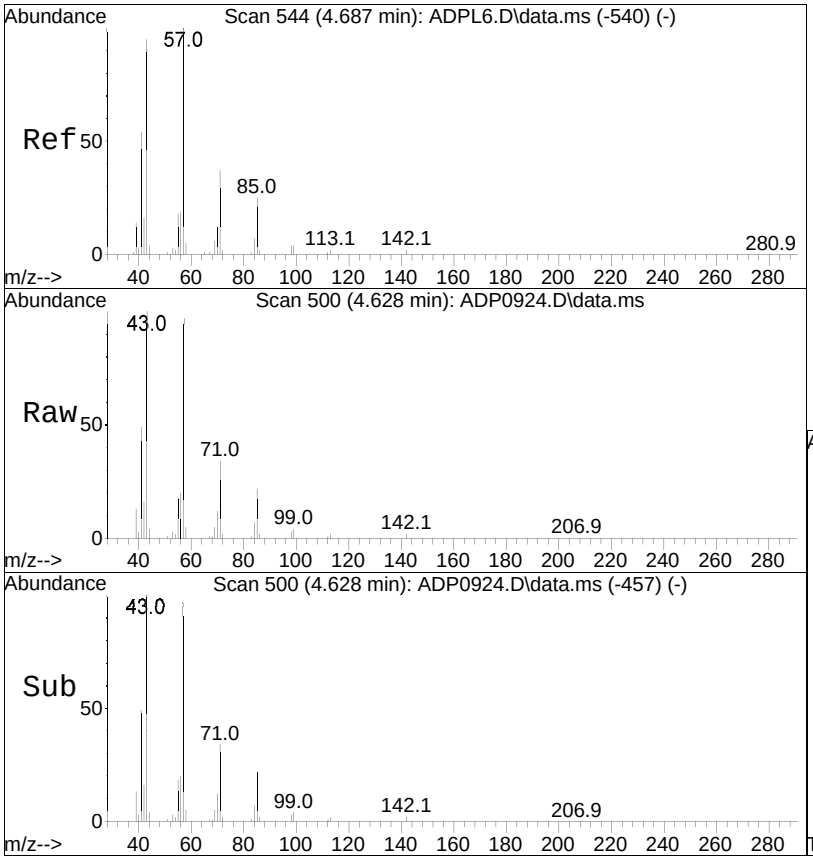


#33
1,4-Dioxane
Concen: 4.84 ug/ml
RT: 1.828 min Scan# 24
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion: 88 Resp: 9914

Ion	Ratio	Lower	Upper
88	100		
58	73.7	44.8	67.2#
43	32.3	22.4	33.6

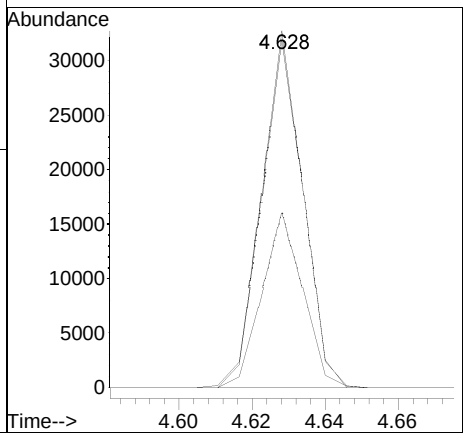


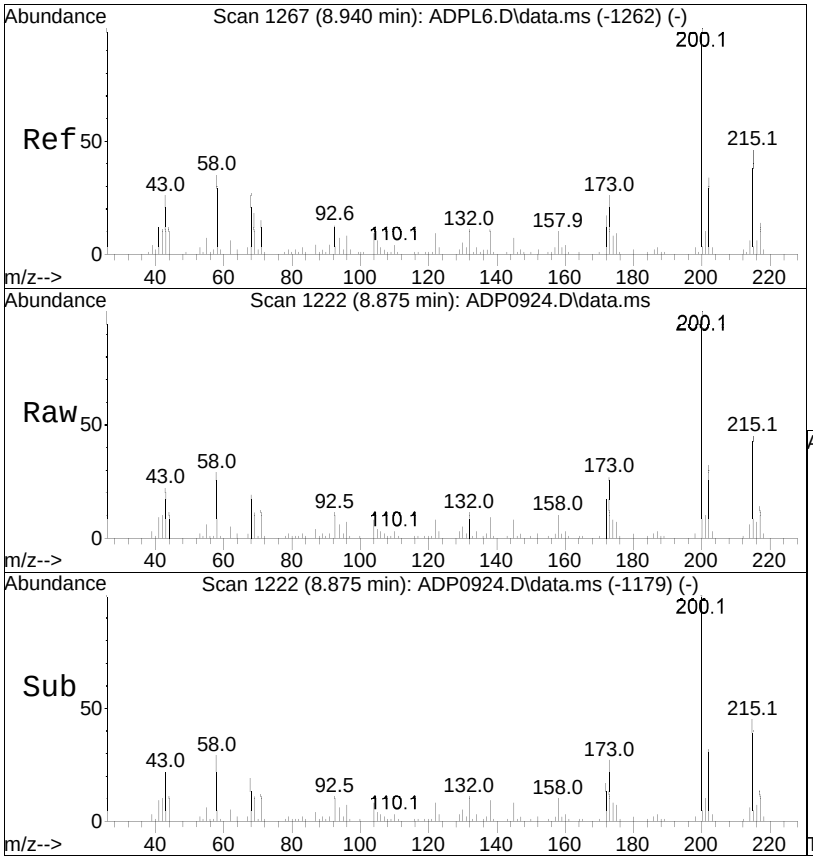


#34
n-Decane
Concen: 4.98 ug/ml
RT: 4.628 min Scan# 500
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion: 57 Resp: 24819

Ion	Ratio	Lower	Upper
57	100		
43	102.5	75.4	113.2
41	50.2	35.0	52.6

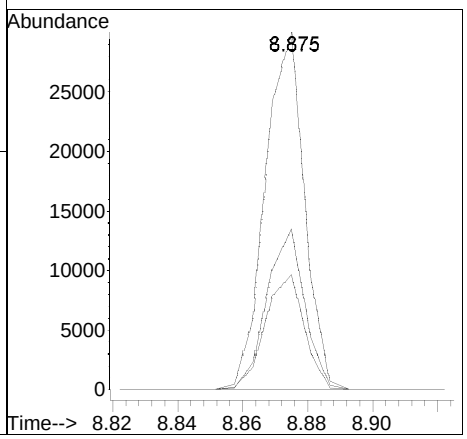


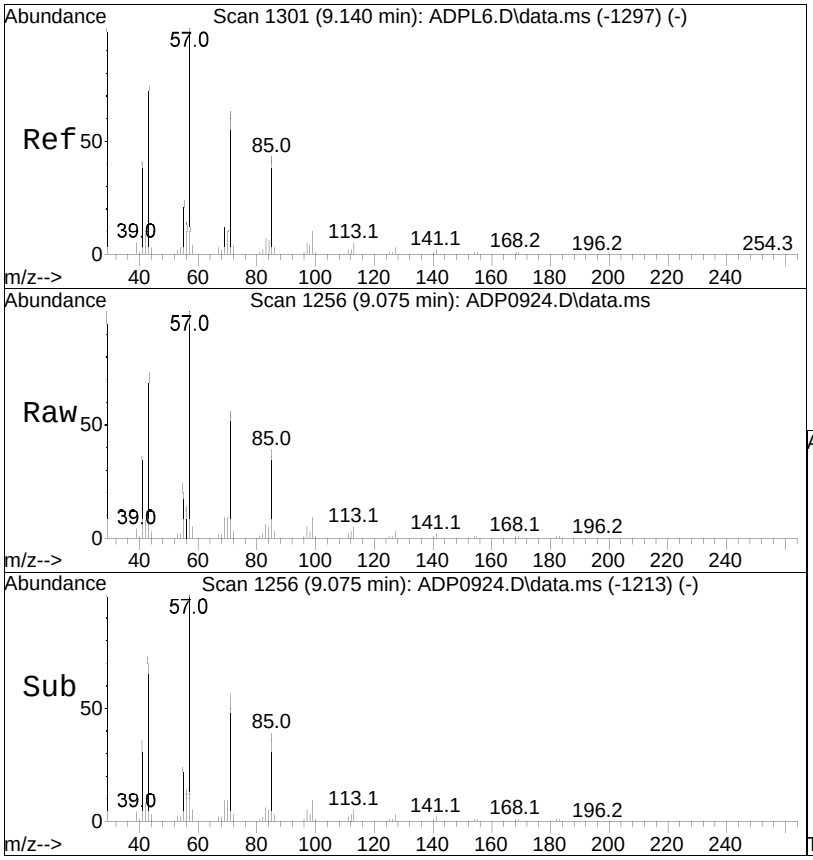


#87
Atrazine
Concen: 5.80 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion:200 Resp: 24890

Ion	Ratio	Lower	Upper
200	100		
202	32.3	25.0	37.6
215	43.4	34.5	51.7

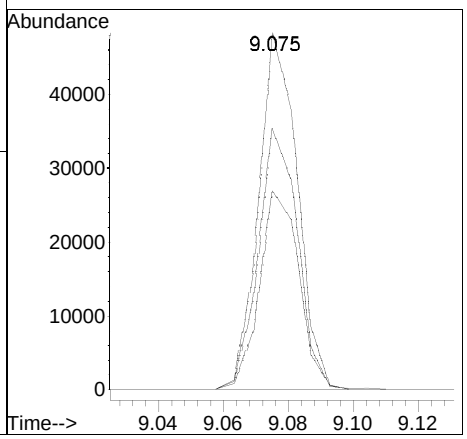


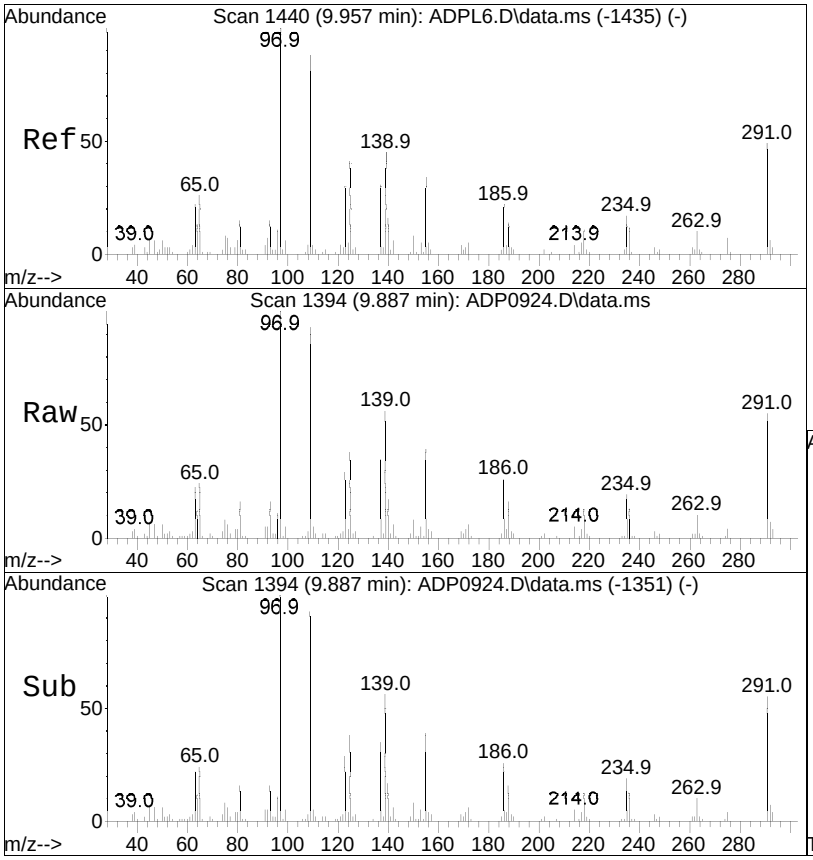


#101
n-Octadecane
Concen: 5.77 ug/ml
RT: 9.075 min Scan# 1256
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion: 57 Resp: 39625

Ion	Ratio	Lower	Upper
57	100		
43	74.2	54.3	81.5
71	56.8	45.1	67.7

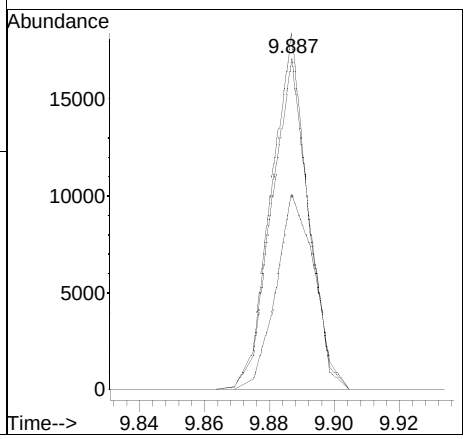


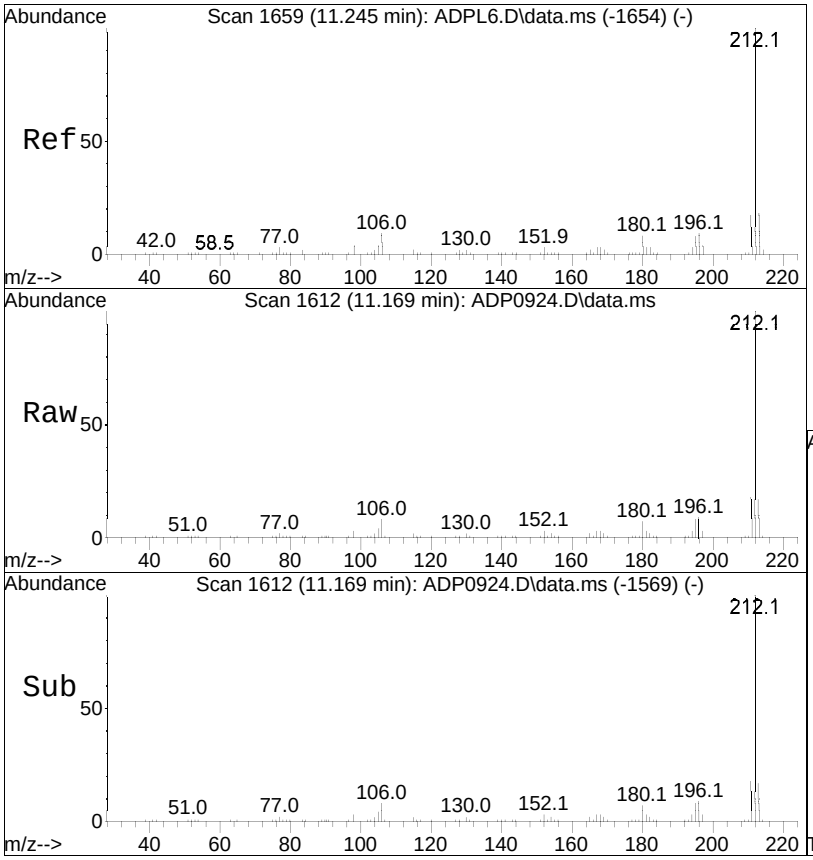


#102
Parathion
Concen: 6.73 ug/ml
RT: 9.887 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion:109 Resp: 13387

Ion	Ratio	Lower	Upper
109	100		
97	106.5	85.4	128.2
291	61.9	25.4	38.2#

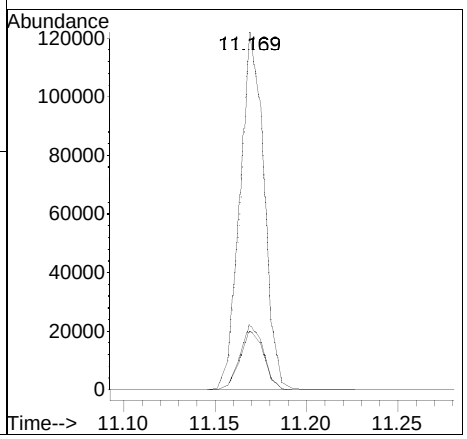




#103
3,3'-Dimethylbenzidine
Concen: 6.31 ug/ml
RT: 11.169 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 09:43 am

Tgt Ion:212 Resp: 110233

Ion	Ratio	Lower	Upper
212	100		
211	17.9	13.3	19.9
213	16.4	13.4	20.2



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: ADP0924.D	Operator	: SV112:slr
Date Inj'd	: 9/24/2024 9:43 am	Instrument	: SV112
Sample	: WG1975506-5,32,,ADP 10751	Quant Date	: 9/24/2024 10:09 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\240924RVT\
Data File : AP90924a.D
Acq On : 24 Sep 2024 10:06 am
Operator : SV112:slr
Sample : WG1975506-4,32,,AP9 10909 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 10:41:34 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:31 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	82	0.00
28	T	Benzaldehyde		1.094	0.910	16.8	69	0.00
29	T	Acetophenone		1.903	1.530	19.6	63	0.00
30	T	m-Toluidine		1.828	1.515	17.1	64	0.00
31	T	2-Chloroaniline		1.742	1.459	16.2	67	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	78	0.00
56	T	a-Terpineol		0.277	0.235	15.2	66	0.00
57	T	3-Chloroaniline		0.150	0.110	26.7#	57	0.00
58	T	2,6-Dichlorophenol		0.326	0.303	7.1	70	0.00
59	T	1-chloro-2-nitrobenzene		0.143	0.128	10.5	68	0.00
60	T	Caprolactam	*	5.000	4.249	15.0	70	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.479	0.389	18.8	64	0.00
62	T	Biphenyl		1.026	0.856	16.6	65	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	76	0.00
84	T	Dichloran	*	5.000	4.577	8.5	80	0.00
85	T	Pentachloronitrobenzene		0.235	0.213	9.4	72	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	73	0.00
99	T	Diphenamid		0.515	0.512	0.6	70	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : AP90924a.D
Acq On : 24 Sep 2024 10:06 am
Operator : SV112:slr
Sample : WG1975506-4,32,,AP9 10909 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 10:41:34 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:31 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.740	152	17349	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	5.975	136	63812	4.000	ug/ml	#	0.00
83) IS2_Acenaphthene-d10	7.675	164	39230	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	9.104	188	86328	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.311	105	19727	4.159	ug/ml		93
29) Acetophenone	5.140	105	33173	4.019	ug/ml		97
30) m-Toluidine	5.222	106	32850	4.143	ug/ml		98
31) 2-Chloroaniline	5.581	127	31639	4.188	ug/ml		95
56) a-Terpineol	6.028	59	18783	4.247	ug/ml		97
57) 3-Chloroaniline	6.040	65	8742	3.648	ug/ml	#	66
58) 2,6-Dichlorophenol	6.069	162	24170	4.645	ug/ml	#	86
59) 1-chloro-2-nitrobenzene	6.322	111	10216	4.471	ug/ml	#	84
60) Caprolactam	6.358	55	11027	4.249	ug/ml		94
61) 1,2,4,5-Tetrachloroben...	6.840	216	30995	4.055	ug/ml		97
62) Biphenyl	7.134	154	68246	4.168	ug/ml		99
84) Dichloran	8.799	206	10234	4.577	ug/ml	#	64
85) Pentachloronitrobenzene	8.952	237	10454	4.541	ug/ml	#	80
99) Diphenamid	10.010	167	55264	4.972	ug/ml	#	75

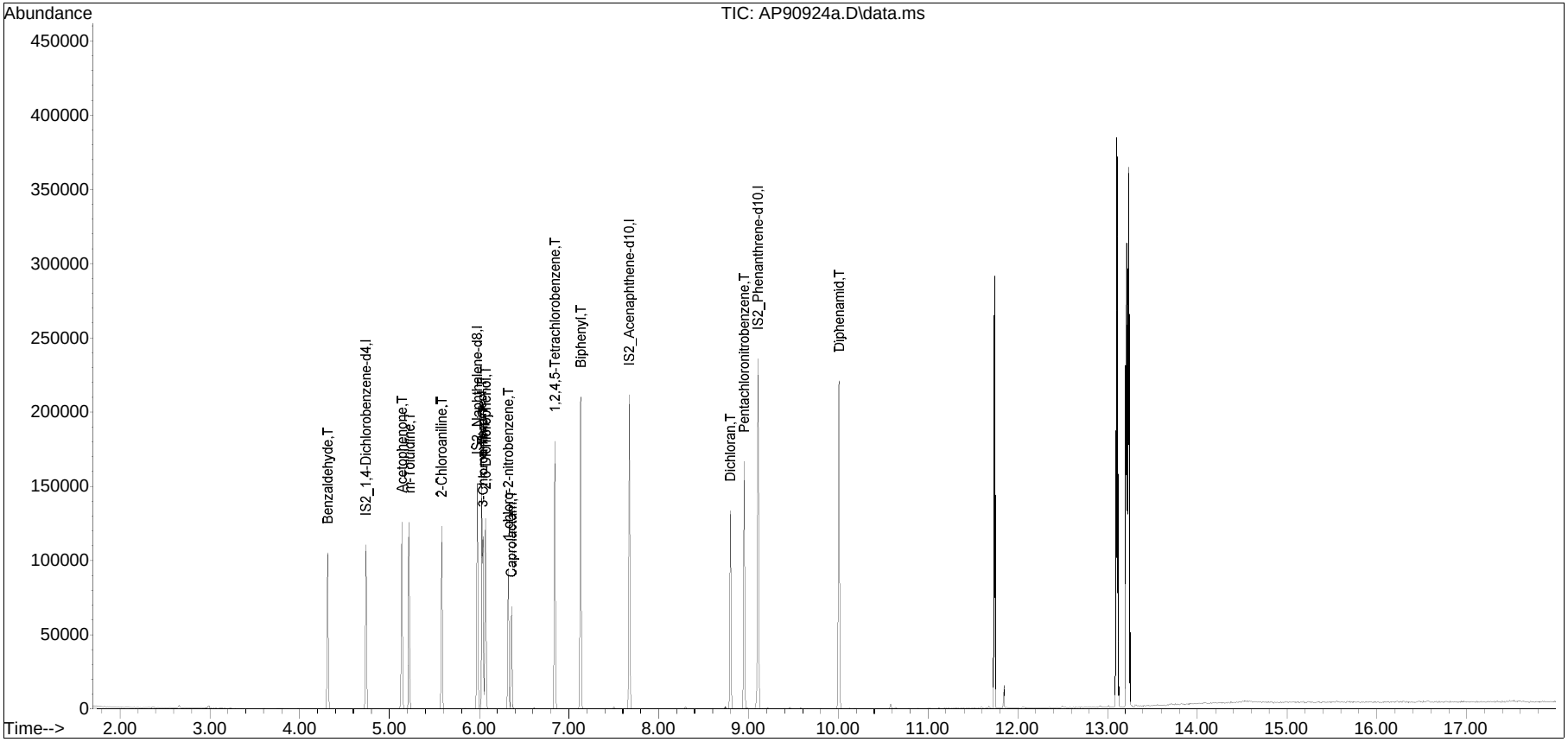
(#) = qualifier out of range (m) = manual integration (+) = signals summed

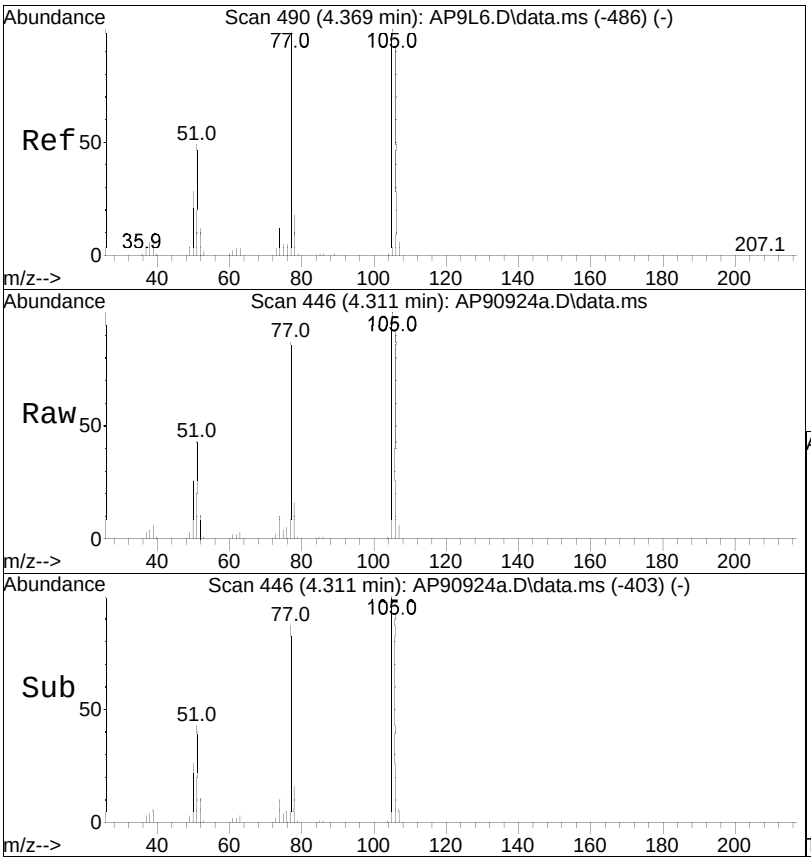
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : AP90924a.D
Acq On : 24 Sep 2024 10:06 am
Operator : SV112:slr
Sample : WG1975506-4,32,,AP9 10909 HNY0924A
Misc : WG1975506,,ical21241
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 10:41:34 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:31 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

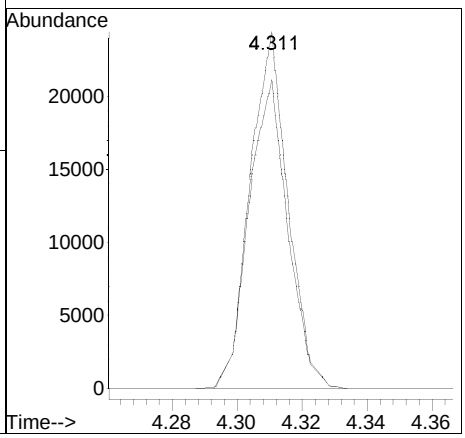


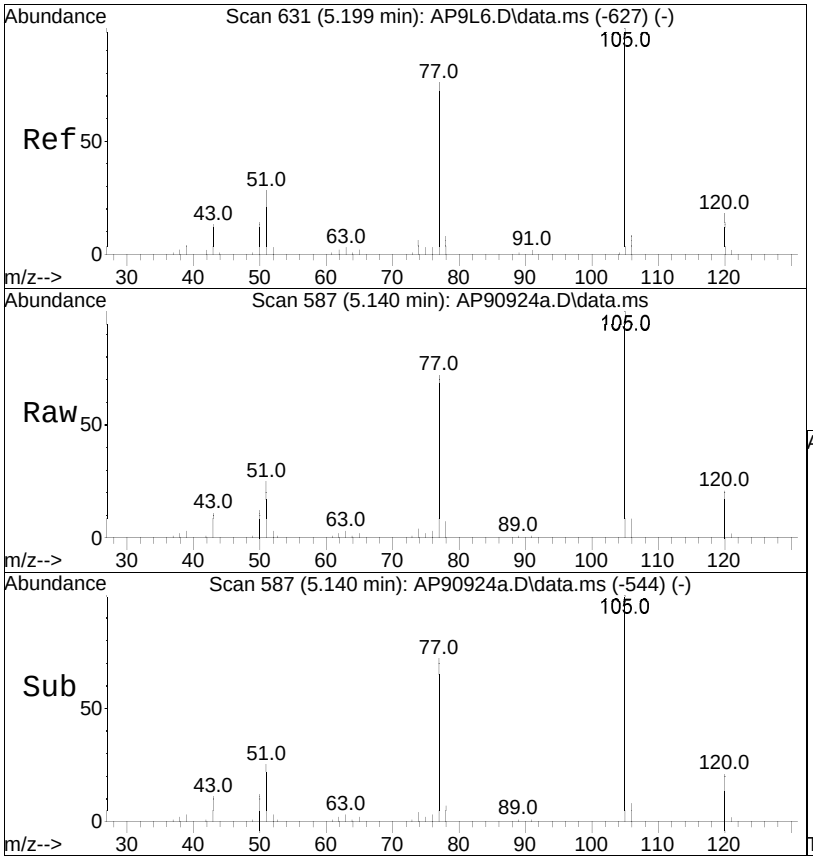


#28
Benzaldehyde
Concen: 4.16 ug/ml
RT: 4.311 min Scan# 446
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:105 Resp: 19727

Ion	Ratio	Lower	Upper
105	100		
77	89.0	77.0	115.6

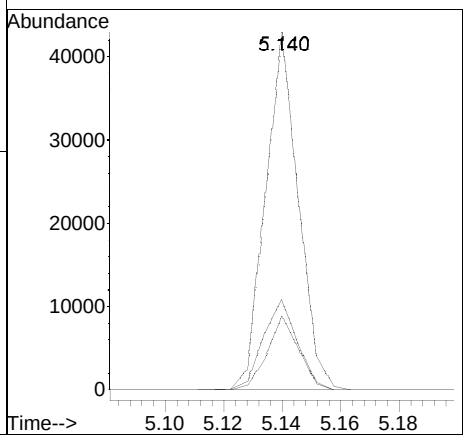


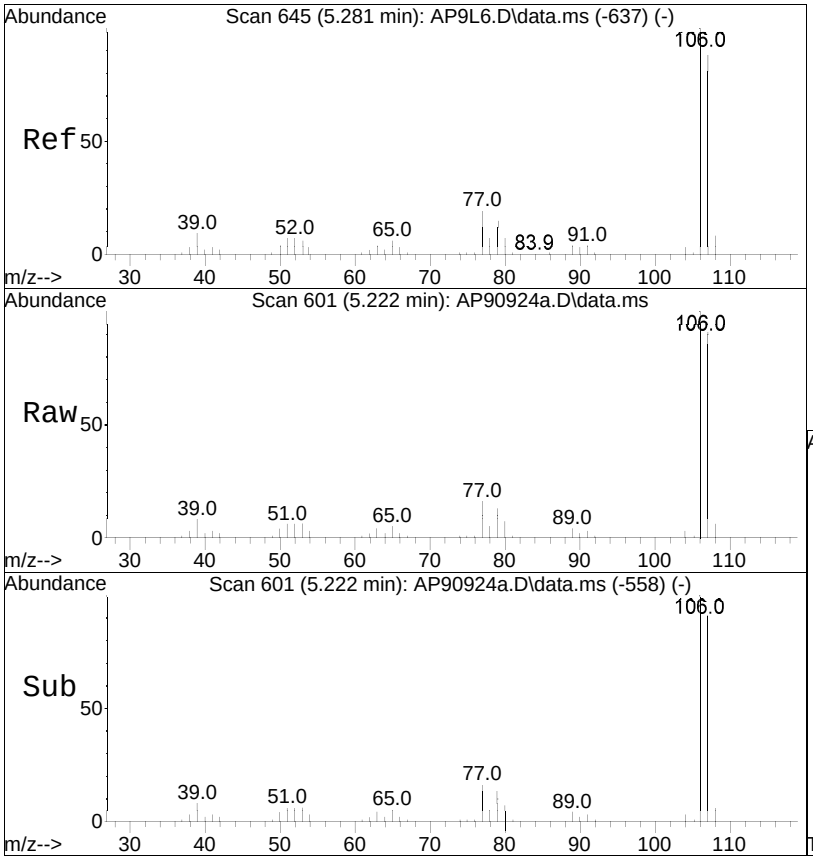


#29
Acetophenone
Concen: 4.02 ug/ml
RT: 5.140 min Scan# 587
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:105 Resp: 33173

Ion	Ratio	Lower	Upper
105	100		
120	19.9	15.2	22.8
51	26.5	23.1	34.7

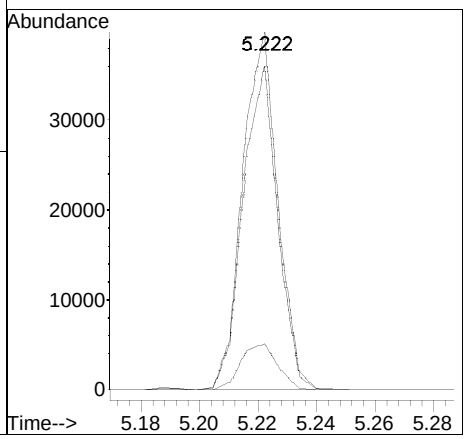


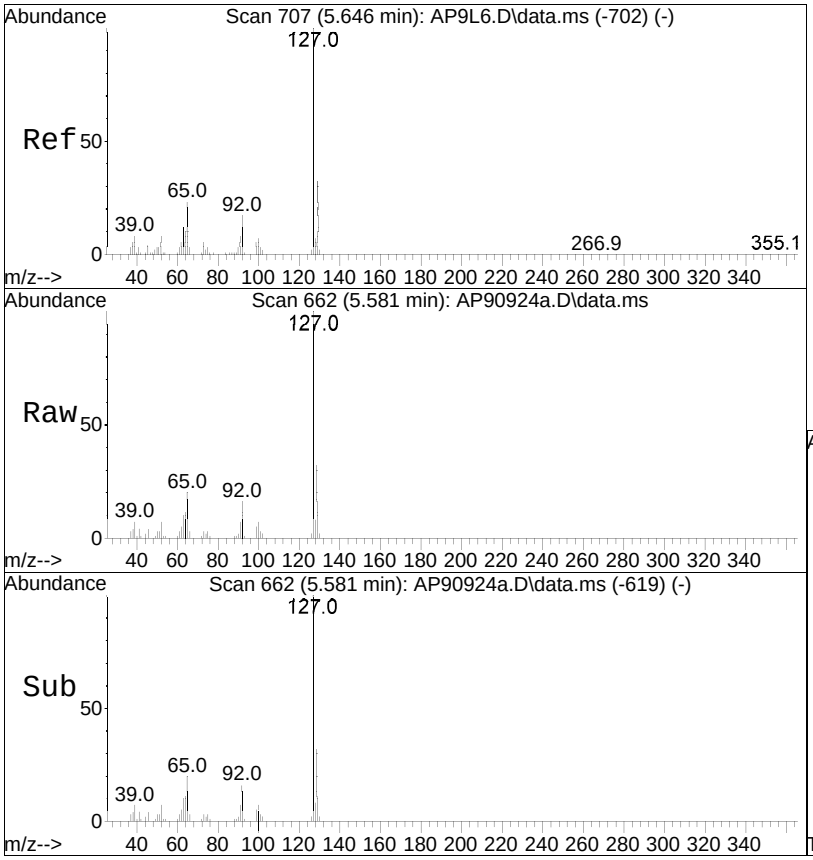


#30
m-Toluidine
Concen: 4.14 ug/ml
RT: 5.222 min Scan# 601
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:106 Resp: 32850

Ion	Ratio	Lower	Upper
106	100		
107	89.2	72.3	108.5
79	13.6	12.2	18.2

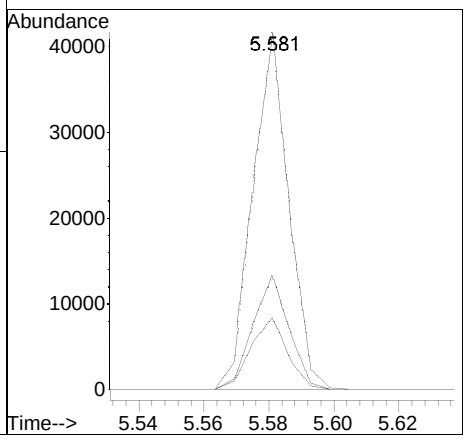


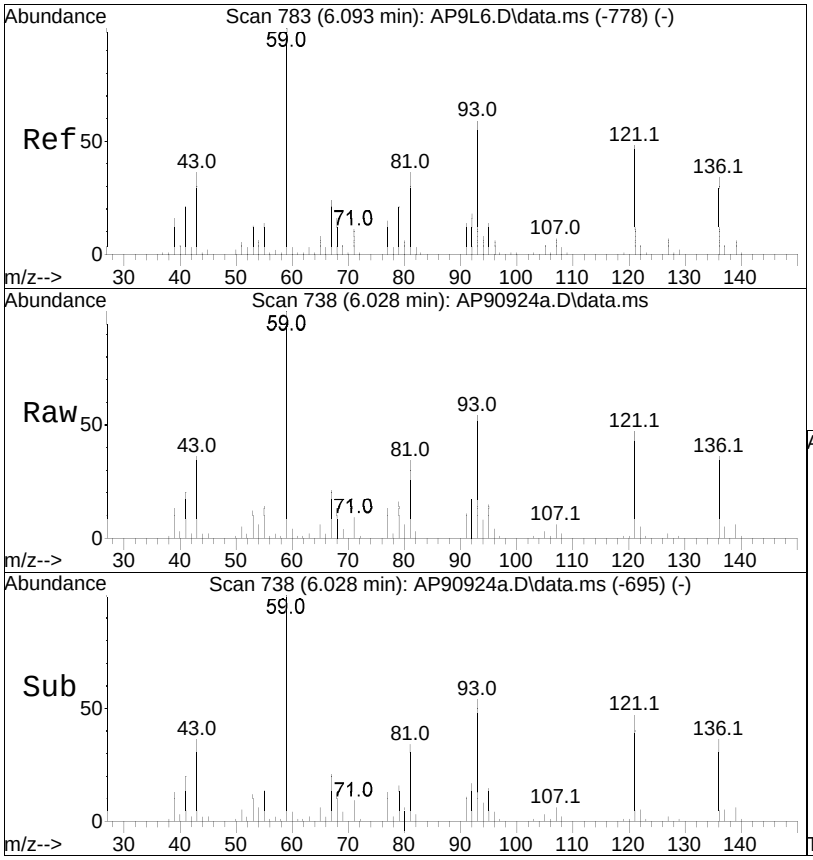


#31
2-Chloroaniline
Concen: 4.19 ug/ml
RT: 5.581 min Scan# 662
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:127 Resp: 31639

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.7	38.5
65	20.8	20.5	30.7

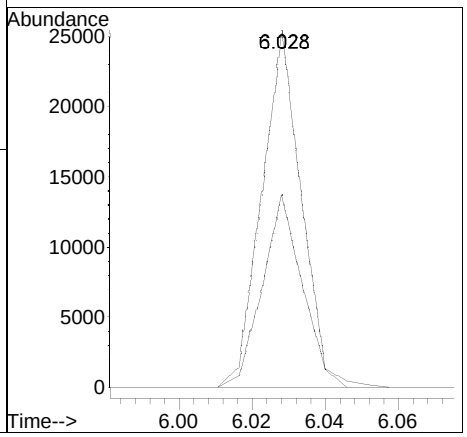


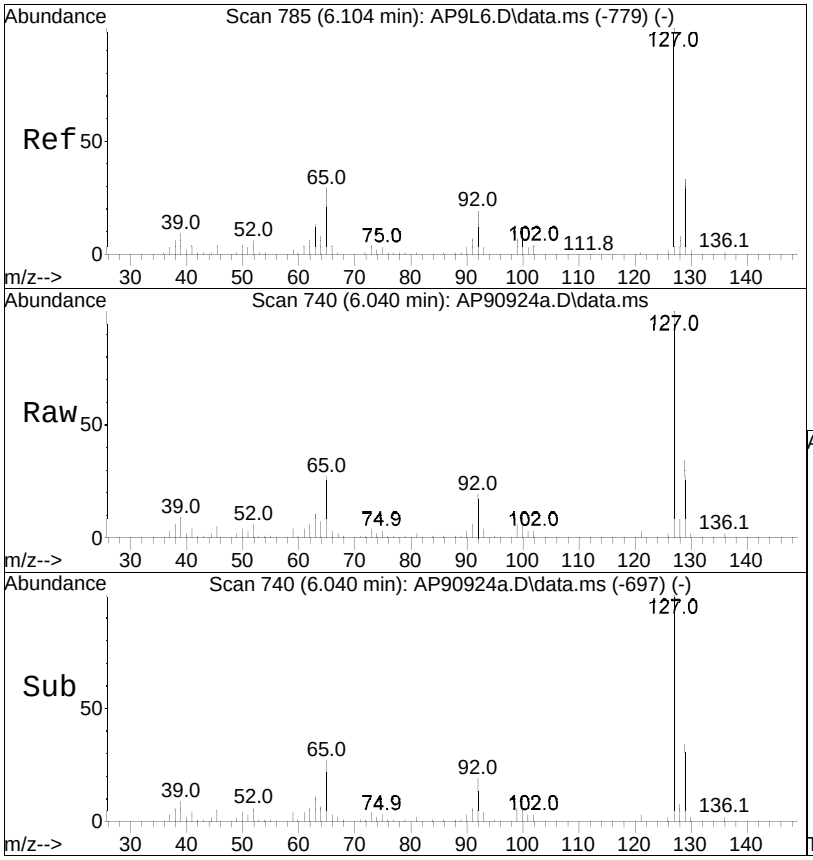


#56
a-Terpineol
Concen: 4.25 ug/ml
RT: 6.028 min Scan# 738
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion: 59 Resp: 18783

Ion	Ratio	Lower	Upper
59	100		
93	56.4	43.5	65.3

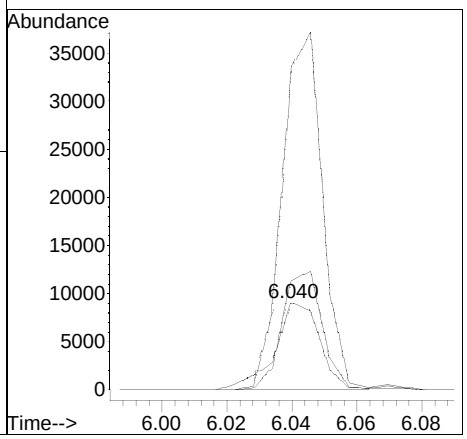


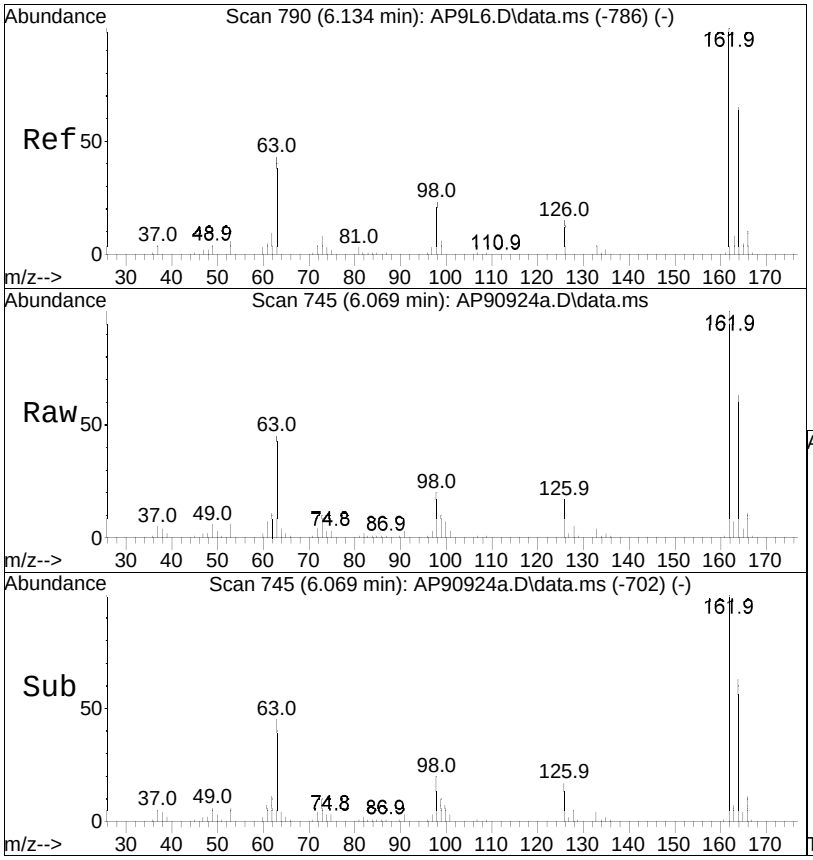


#57
3-Chloroaniline
Concen: 3.65 ug/ml
RT: 6.040 min Scan# 740
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion: 65 Resp: 8742

Ion	Ratio	Lower	Upper
65	100		
127	367.4	236.6	355.0#
129	122.1	76.6	115.0#

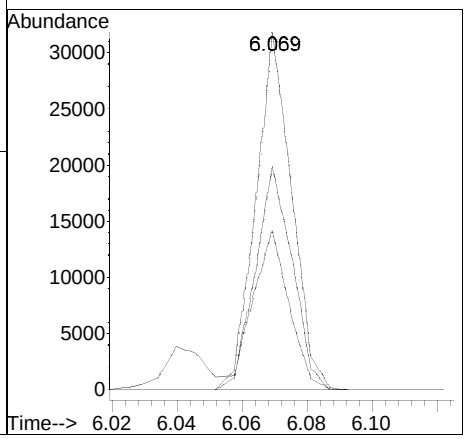


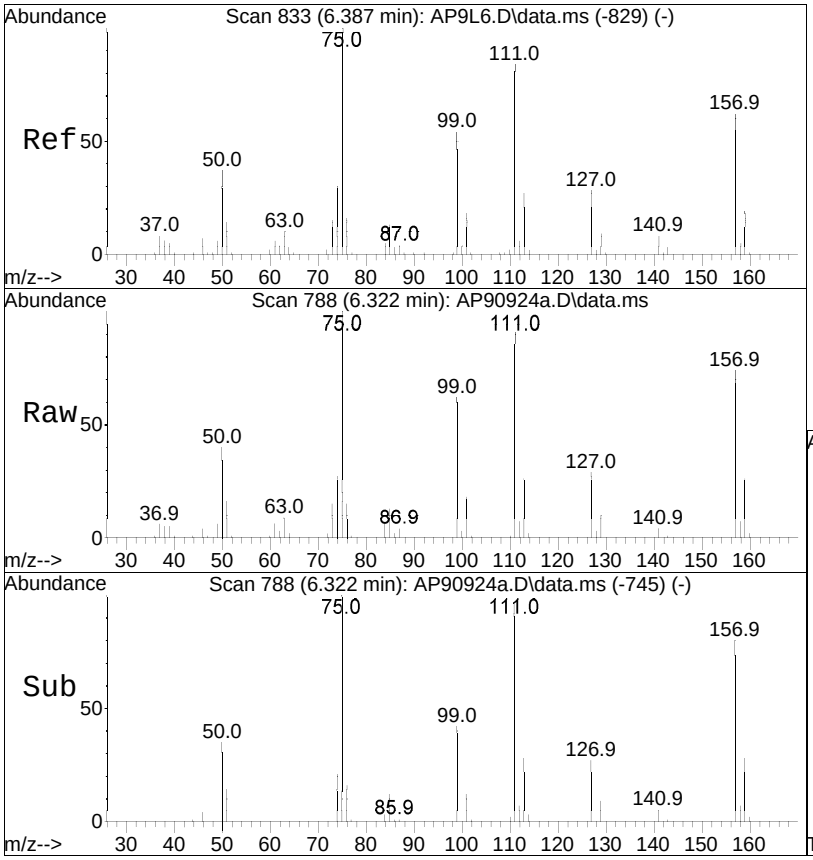


#58
2,6-Dichlorophenol
Concen: 4.64 ug/ml
RT: 6.069 min Scan# 745
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:162 Resp: 24170

Ion	Ratio	Lower	Upper
162	100		
164	64.5	50.8	76.2
63	45.7	53.6	80.4#

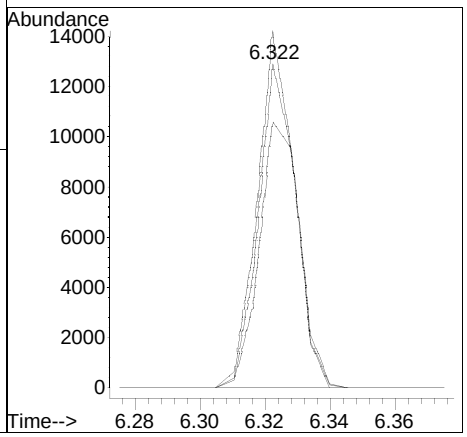


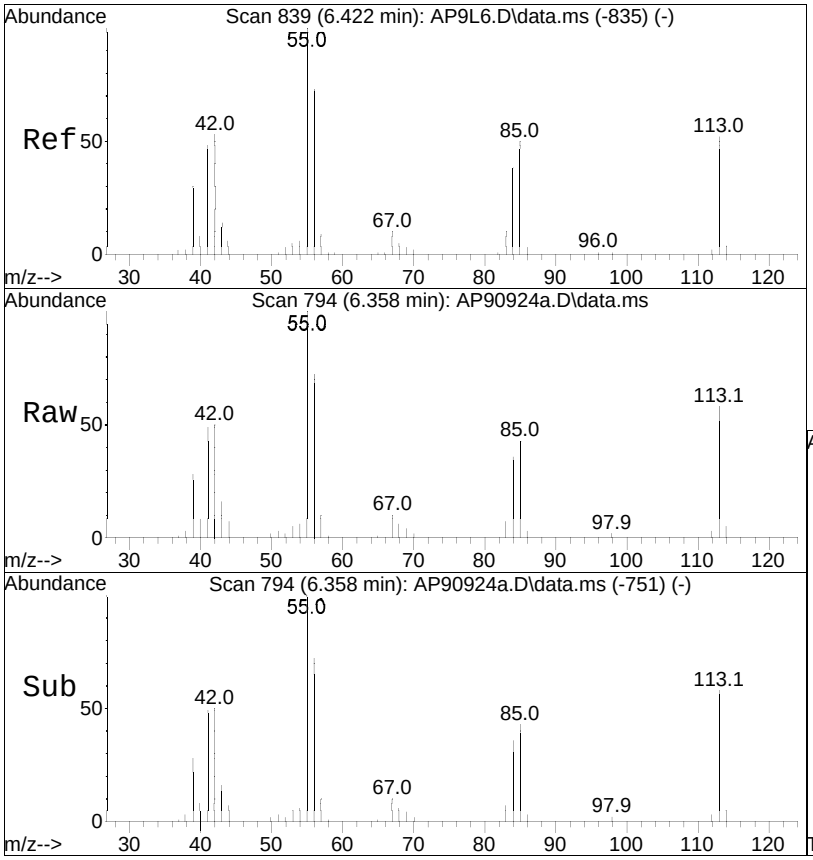


#59
1-chloro-2-nitrobenzene
Concen: 4.47 ug/ml
RT: 6.322 min Scan# 788
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:111 Resp: 10216

Ion	Ratio	Lower	Upper
111	100		
157	89.5	56.2	84.2#
75	108.3	97.8	146.6

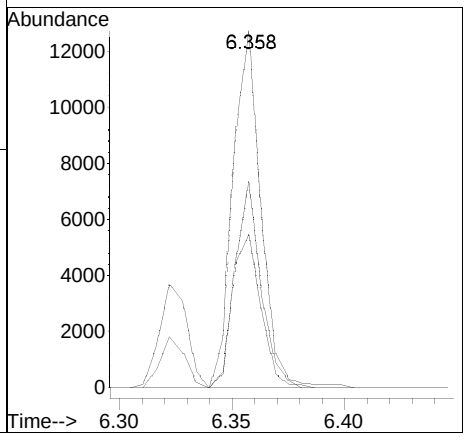


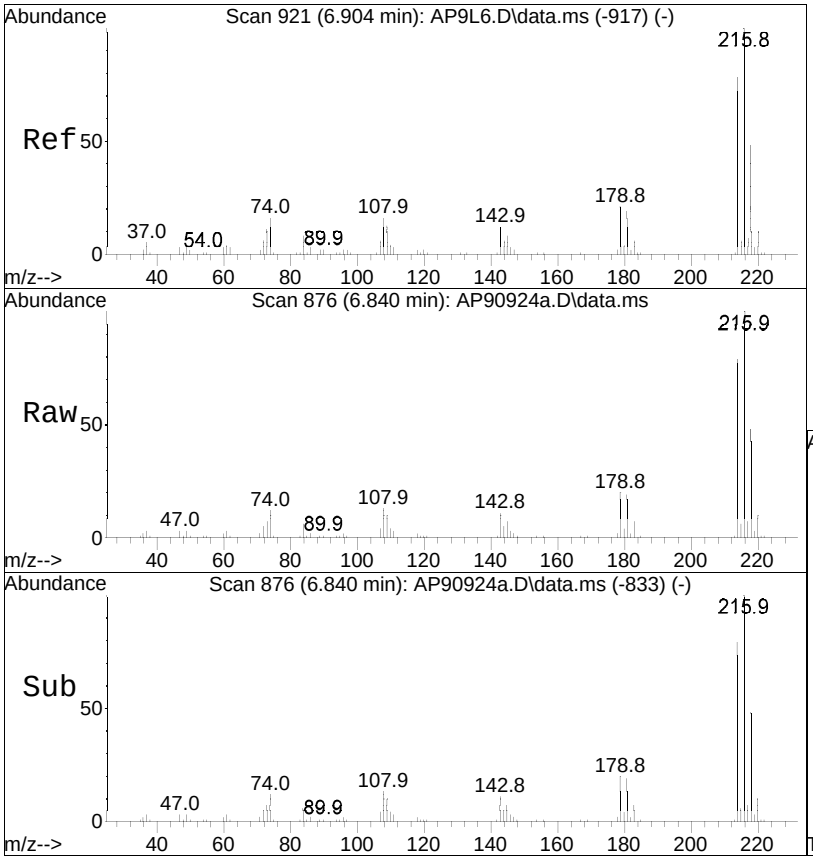


#60
Caprolactam
Concen: 4.25 ug/ml
RT: 6.358 min Scan# 794
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion: 55 Resp: 11027

Ion	Ratio	Lower	Upper
55	100		
85	43.9	35.2	52.8
113	53.3	36.6	55.0

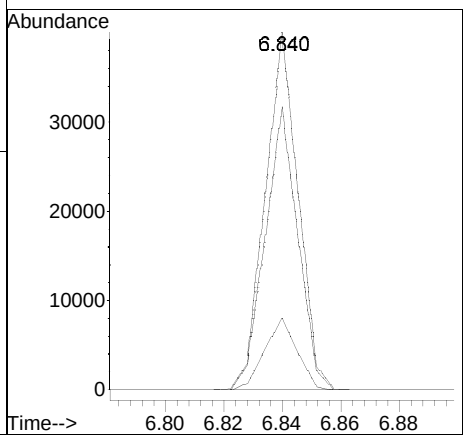


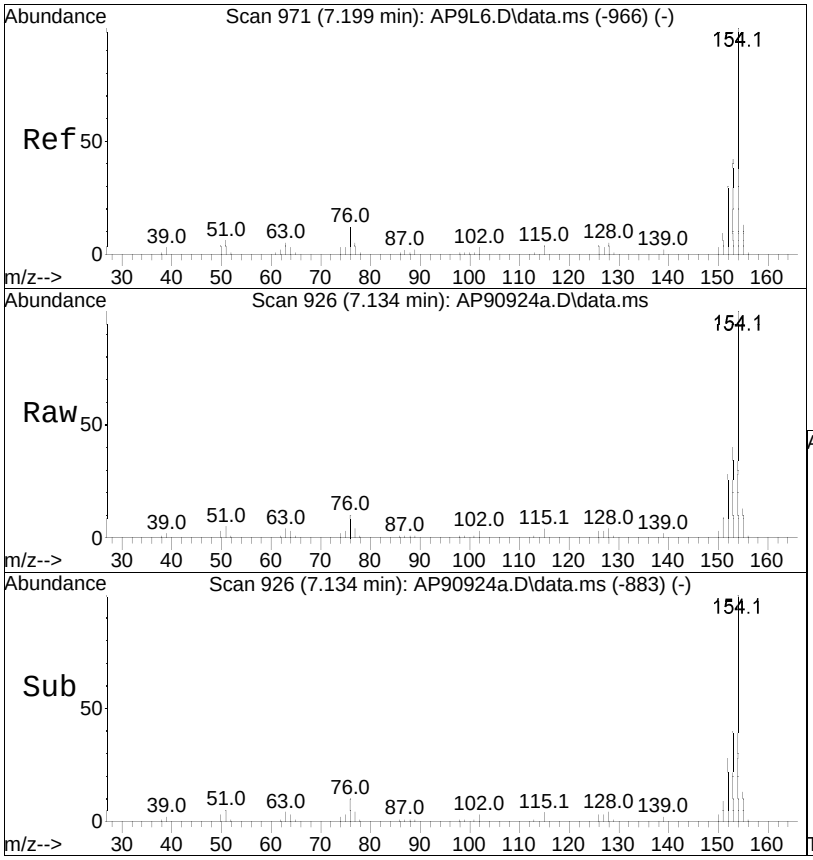


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.05 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:216 Resp: 30995

Ion	Ratio	Lower	Upper
216	100		
214	78.5	64.0	96.0
179	19.8	18.7	28.1

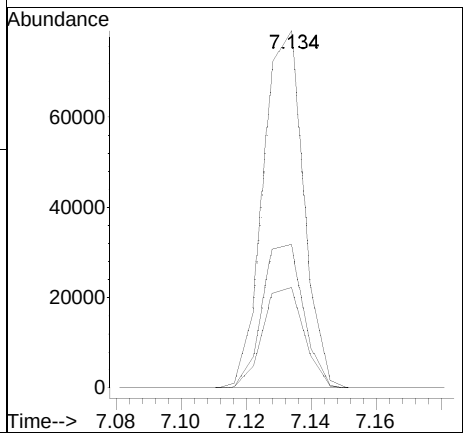


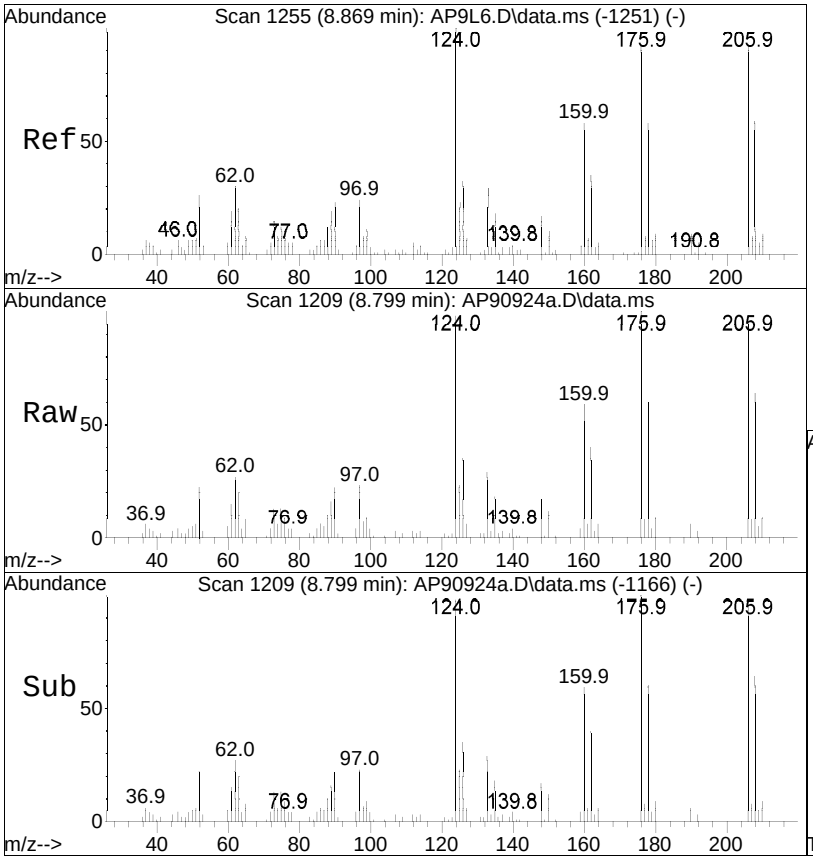


#62
Biphenyl
Concen: 4.17 ug/ml
RT: 7.134 min Scan# 926
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:154 Resp: 68246

Ion	Ratio	Lower	Upper
154	100		
153	41.0	32.5	48.7
152	29.0	22.6	34.0

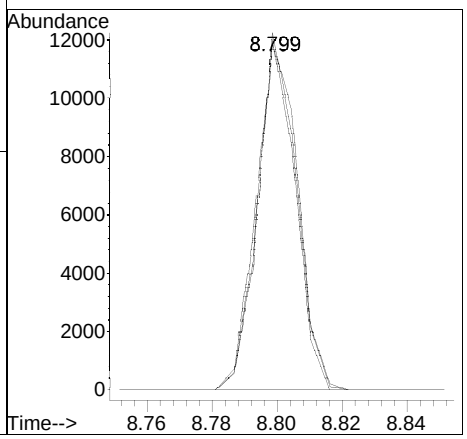


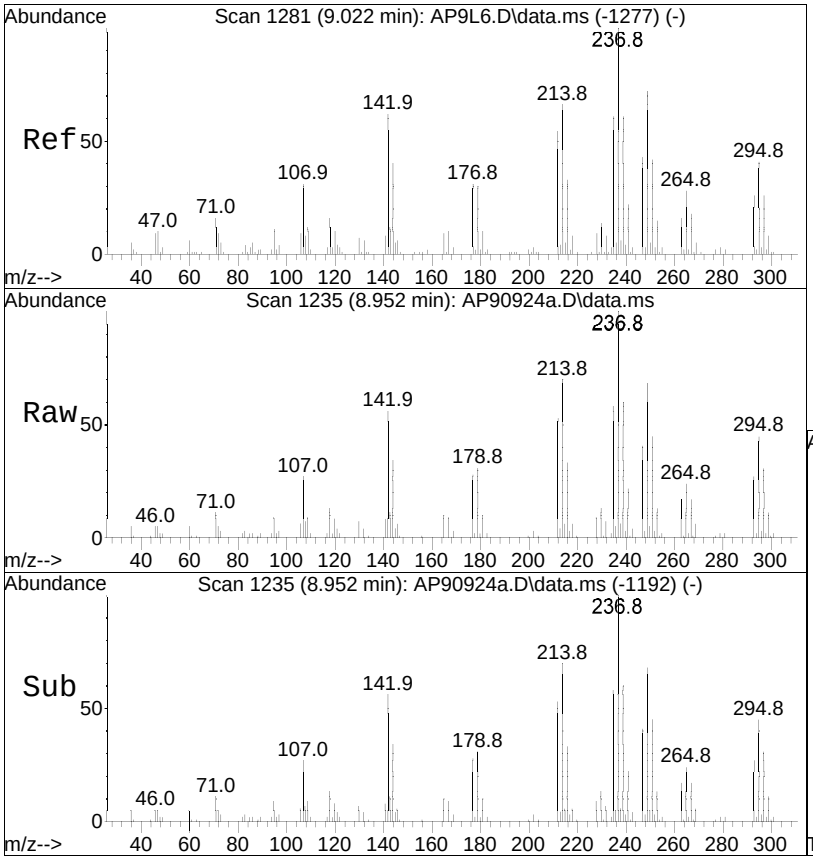


#84
Dichloran
Concen: 4.58 ug/ml
RT: 8.799 min Scan# 1209
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:206 Resp: 10234

Ion	Ratio	Lower	Upper
206	100		
176	97.0	98.8	148.2#
124	96.5	125.8	188.6#

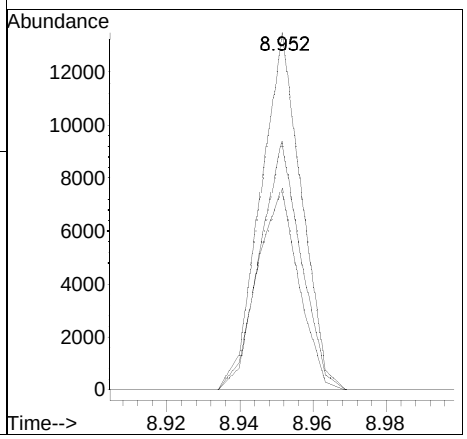


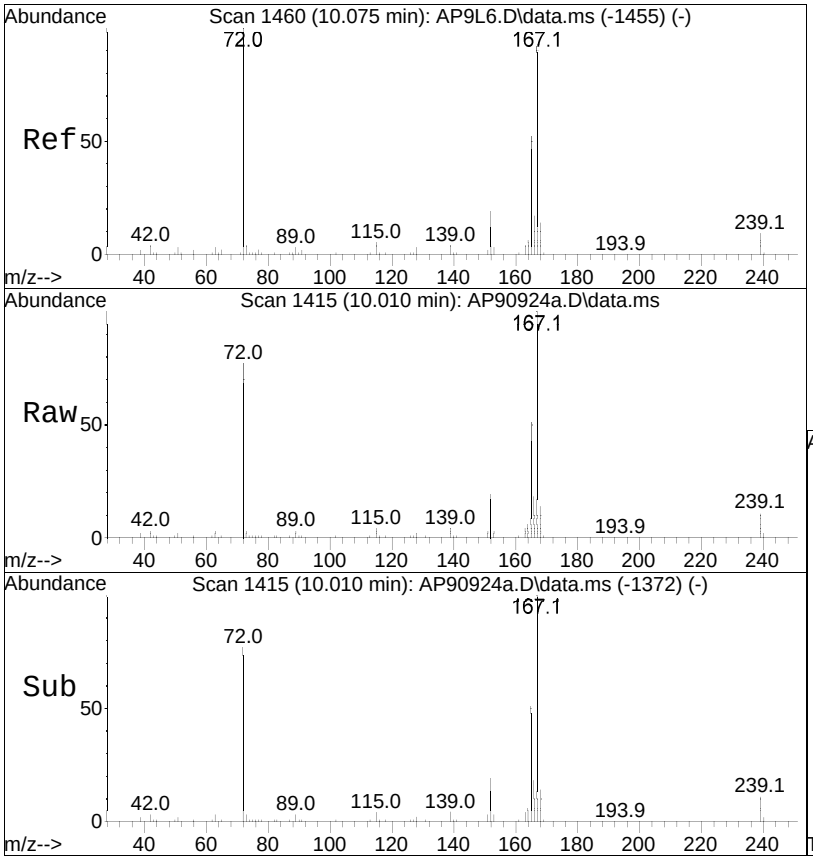


#85
Pentachloronitrobenzene
Concen: 4.54 ug/ml
RT: 8.952 min Scan# 1235
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:237 Resp: 10454

Ion	Ratio	Lower	Upper
237	100		
142	58.0	70.3	105.5#
214	69.4	59.4	89.2

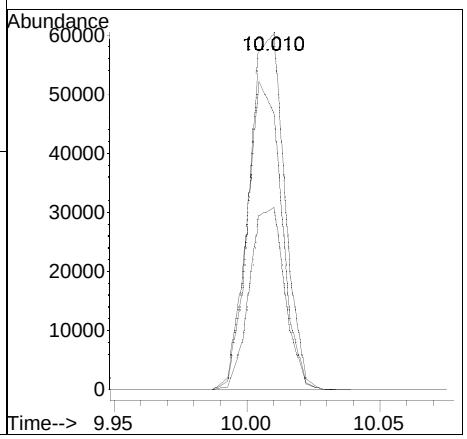




#99
Diphenamid
Concen: 4.97 ug/ml
RT: 10.010 min Scan# 1415
Delta R.T. 0.000 min
Lab File: AP90924a.D
Acq: 24 Sep 2024 10:06 am

Tgt Ion:167 Resp: 55264

Ion	Ratio	Lower	Upper
167	100		
72	84.6	98.9	148.3#
165	51.2	40.4	60.6



Manual Integration Report

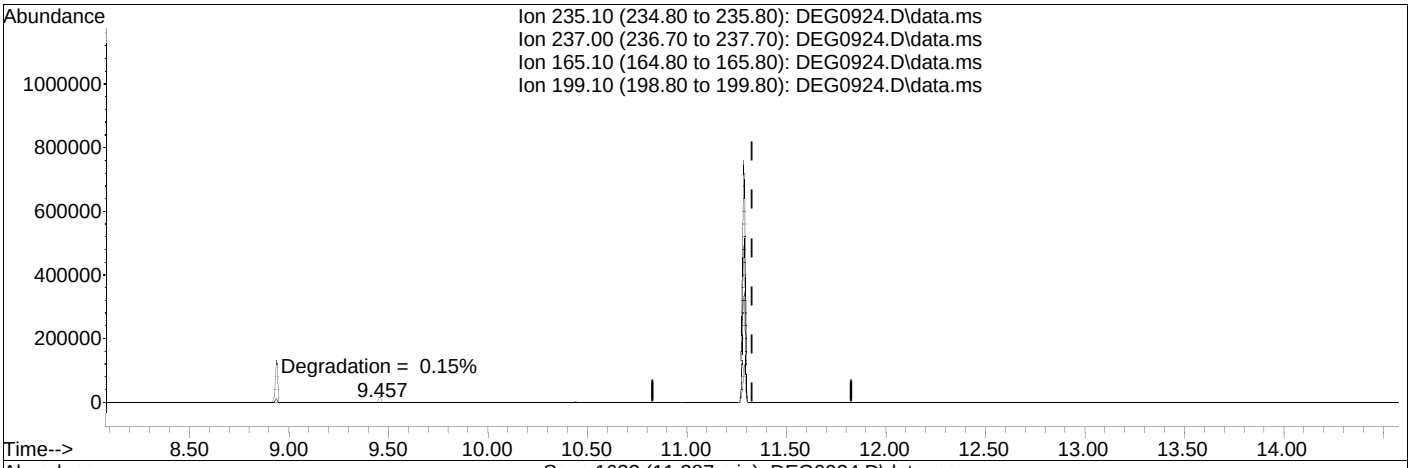
Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: AP90924a.D	Operator	: SV112:slr
Date Inj'd	: 9/24/2024 10:06 am	Instrument	: SV112
Sample	: WG1975506-4,32,,AP9 10909	Quant Date	: 9/24/2024 10:42 am

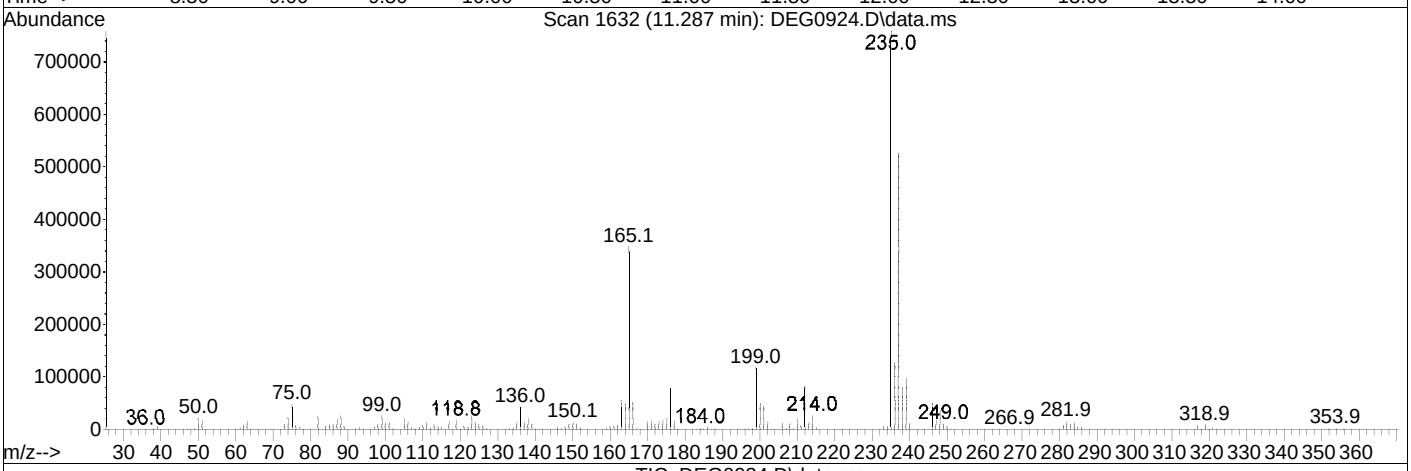
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 08:35 am
Operator : SV112:slr
Sample : WG1975506-2,32,,SV112 Degdftpp Lot #11002
Misc : WG1975506,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:15:42 2024
Quant Method : I:\8270\SV112\240924RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:33:25 2024
Response via : Initial Calibration





TIC: DEG0924.D\data.ms

(6) DDT (T)

11.287min (-0.041) 113.93

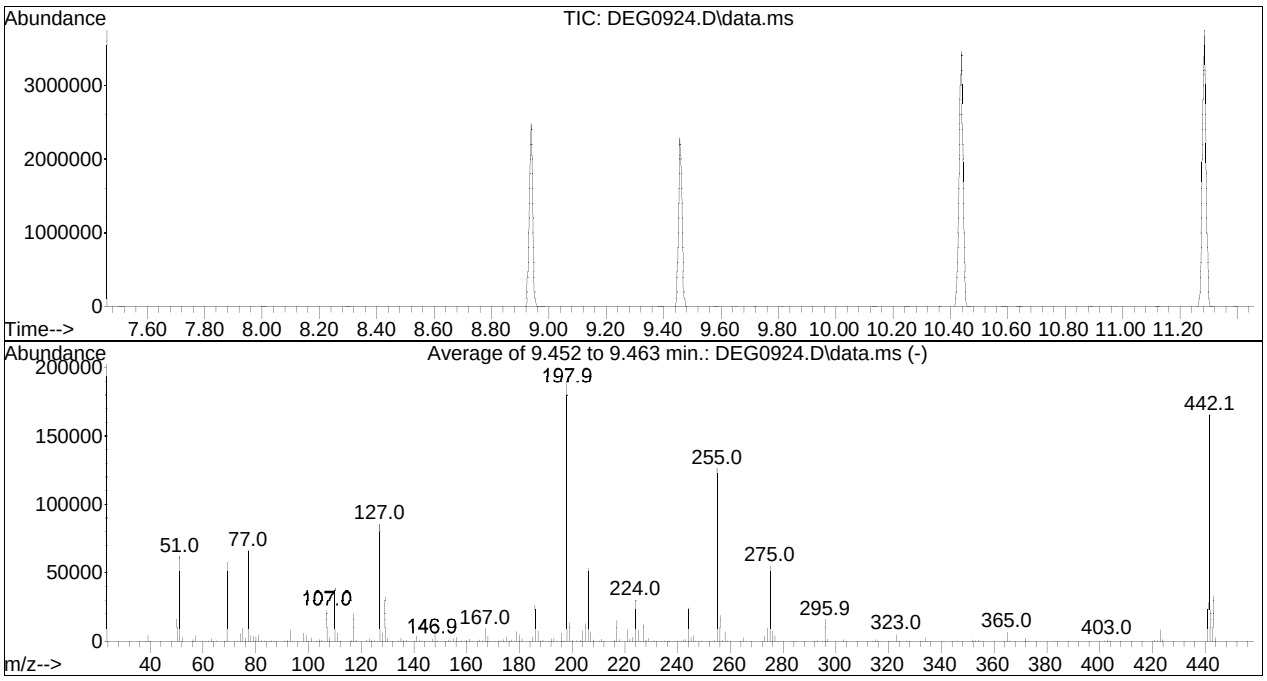
response 694464

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	67.55
165.10	42.20	46.02
199.10	13.70	15.19

Data Path : I:\8270\SV112\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 08:35 am
Operator : SV112:gmr
Sample : WG1975506-1,32,,SV112 Degdftpp Lot #11002
Misc : WG1975506,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 24 09:30:26 2024



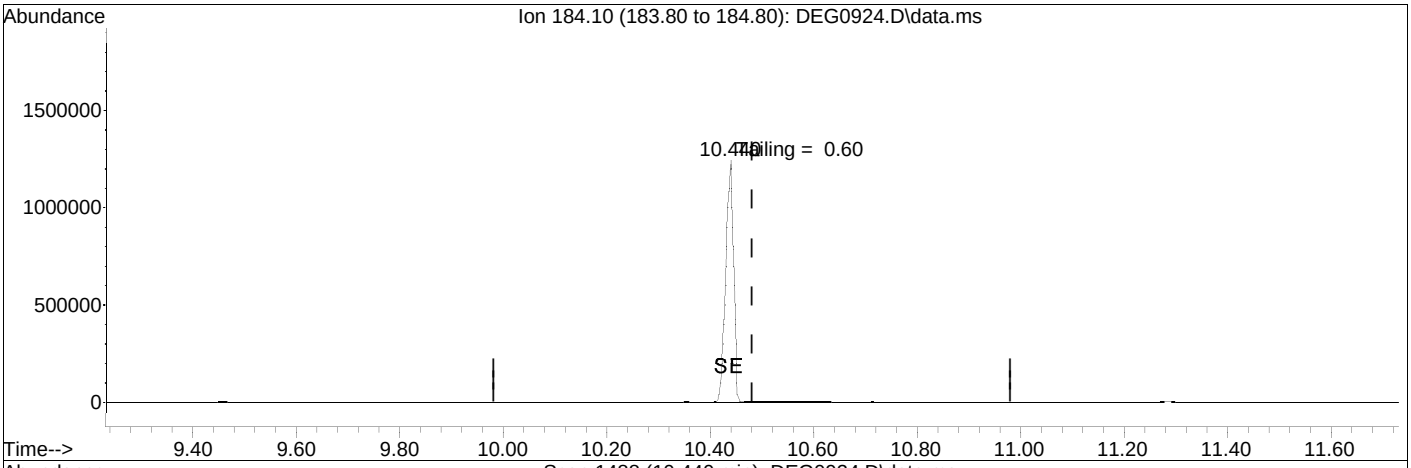
Spectrum Information: Average of 9.452 to 9.463 min.

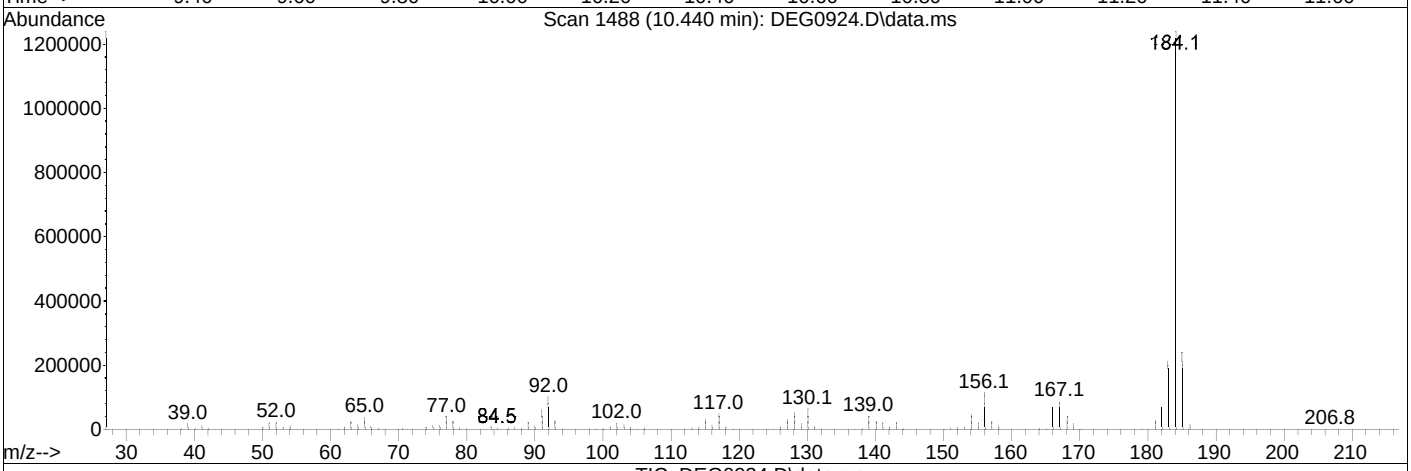
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.0	61656	PASS
68	69	0.00	2	1.5	882	PASS
69	69	100	100	100.0	57411	PASS
70	69	0.00	2	0.5	284	PASS
127	198	10	80	44.3	85355	PASS
197	198	0.00	2	0.5	1015	PASS
198	198	100	100	100.0	192619	PASS
199	198	5	9	7.0	13524	PASS
275	198	10	60	28.6	55029	PASS
365	198	1	100	3.6	6838	PASS
441	442	0.01	24	17.1	28340	PASS
442	198	50	100	86.0	165741	PASS
443	442	15	24	20.1	33359	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 08:35 am
Operator : SV112:slr
Sample : WG1975506-6,32,,SV112 Degdftpp Lot #11002
Misc : WG1975506,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:15:42 2024
Quant Method : I:\8270\SV112\240924RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:33:25 2024
Response via : Initial Calibration





TIC: DEG0924.D\data.ms

(3) Benzidine (T)

10.440min (-0.041) 122.98

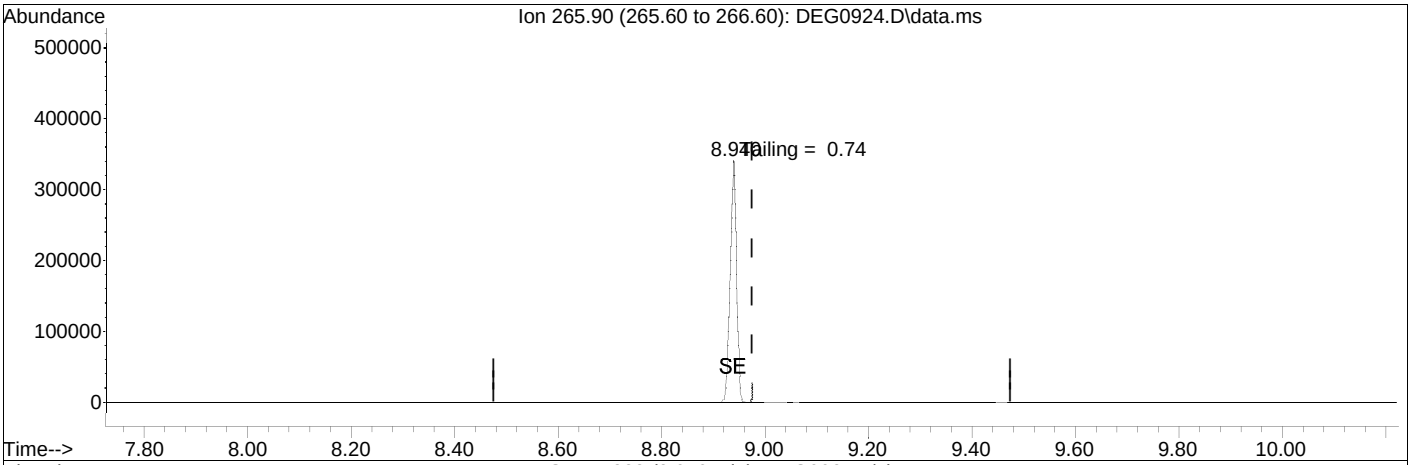
response 1251994

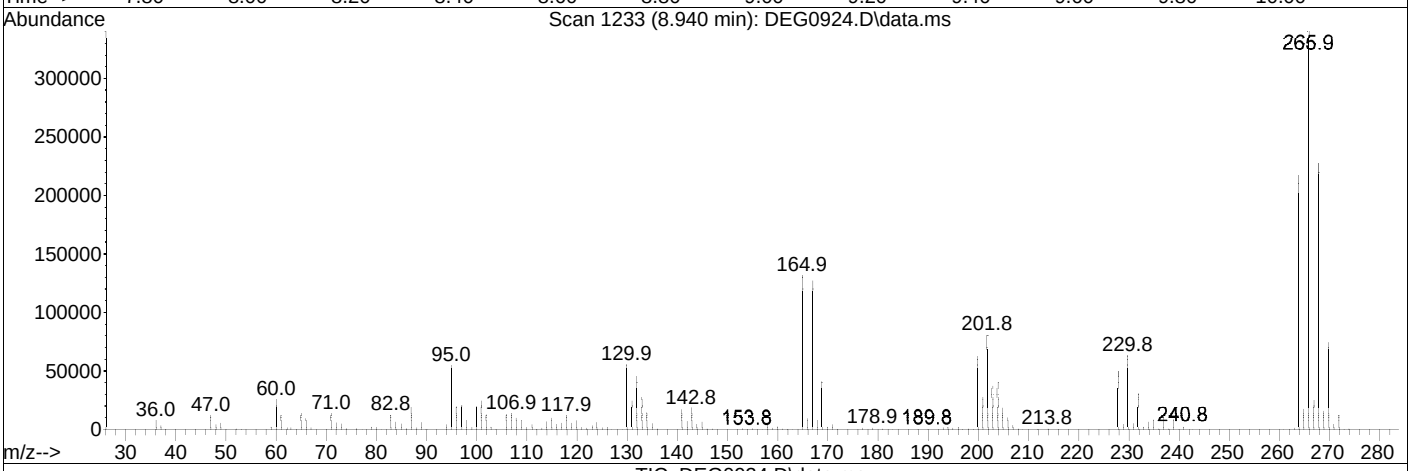
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 08:35 am
Operator : SV112:slr
Sample : WG1975506-7,32,,SV112 Degdftpp Lot #11002
Misc : WG1975506,,ical21241
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:15:42 2024
Quant Method : I:\8270\SV112\240924RVT\DftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:33:25 2024
Response via : Initial Calibration





TIC: DEG0924.D\data.ms

(1) Pentachlorophenol (T)

8.940min (-0.035) 131.31

response 275788

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-1.D
Acq On : 24 Sep 2024 10:28 am
Operator : SV112:slr
Sample : WG1974885-1,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 13:18:46 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	20897	4.000	ug/ml		0.00
Standard Area 1 = 17786			Recovery = 117.49%				
27) IS2_1,4-Dichlorobenzen...	4.740	152	20897	4.000	ug/ml		0.00
Standard Area 3 = 17349			Recovery = 120.45%				
32) IS3_1,4-Dichlorobenzen...	4.740	152	20897	4.000	ug/ml		0.00
Standard Area 2 = 17404			Recovery = 120.07%				
35) IS1_Naphthalene-d8	5.975	136	77047	4.000	ug/ml		0.00
Standard Area 1 = 66392			Recovery = 116.05%				
55) IS2_Naphthalene-d8	5.975	136	77047	4.000	ug/ml		0.00
Standard Area 3 = 63812			Recovery = 120.74%				
63) IS1_Acenaphthene-d10	7.675	164	51455	4.000	ug/ml		0.00
Standard Area 1 = 44283			Recovery = 116.20%				
83) IS2_Acenaphthene-d10	7.675	164	51455	4.000	ug/ml		0.00
Standard Area 3 = 39230			Recovery = 131.16%				
86) IS3_Acenaphthene-d10	7.675	164	51455	4.000	ug/ml		0.00
Standard Area 2 = 38891			Recovery = 132.31%				
88) IS1_Phenanthrene-d10	9.104	188	112472	4.000	ug/ml	#	0.00
Standard Area 1 = 94364			Recovery = 119.19%				
100) IS3_Phenanthrene-d10	9.104	188	112472	4.000	ug/ml	#	0.00
Standard Area 2 = 87342			Recovery = 128.77%				
104) IS1_Chrysene-d12	11.739	240	138362	4.000	ug/ml	#	0.00
Standard Area 1 = 112377			Recovery = 123.12%				
113) IS1_Perylene-d12	13.210	264	170485	4.000	ug/ml		0.00
Standard Area 1 = 132148			Recovery = 129.01%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	3036	0.553	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.65%				
7) Phenol-d6	4.416	99	2955	0.417	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 20.85%				
19) Nitrobenzene-d5	5.281	82	3817	0.565	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.50%				
46) 2-Fluorobiphenyl	7.040	172	11198	0.643	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.30%				
79) 2,4,6-Tribromophenol	8.440	330	2526	0.765	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.25%				

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-1.D
Acq On : 24 Sep 2024 10:28 am
Operator : SV112:slr
Sample : WG1974885-1,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 13:18:46 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.687	244	18611	0.643	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 64.30%

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

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-1.D
Acq On : 24 Sep 2024 10:28 am
Operator : SV112:slr
Sample : WG1974885-1,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 13:18:46 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	11.845	149	6338	0.287	ug/ml#	96
109) Di-n-octylphthalate	0.000		0	N.D. d		

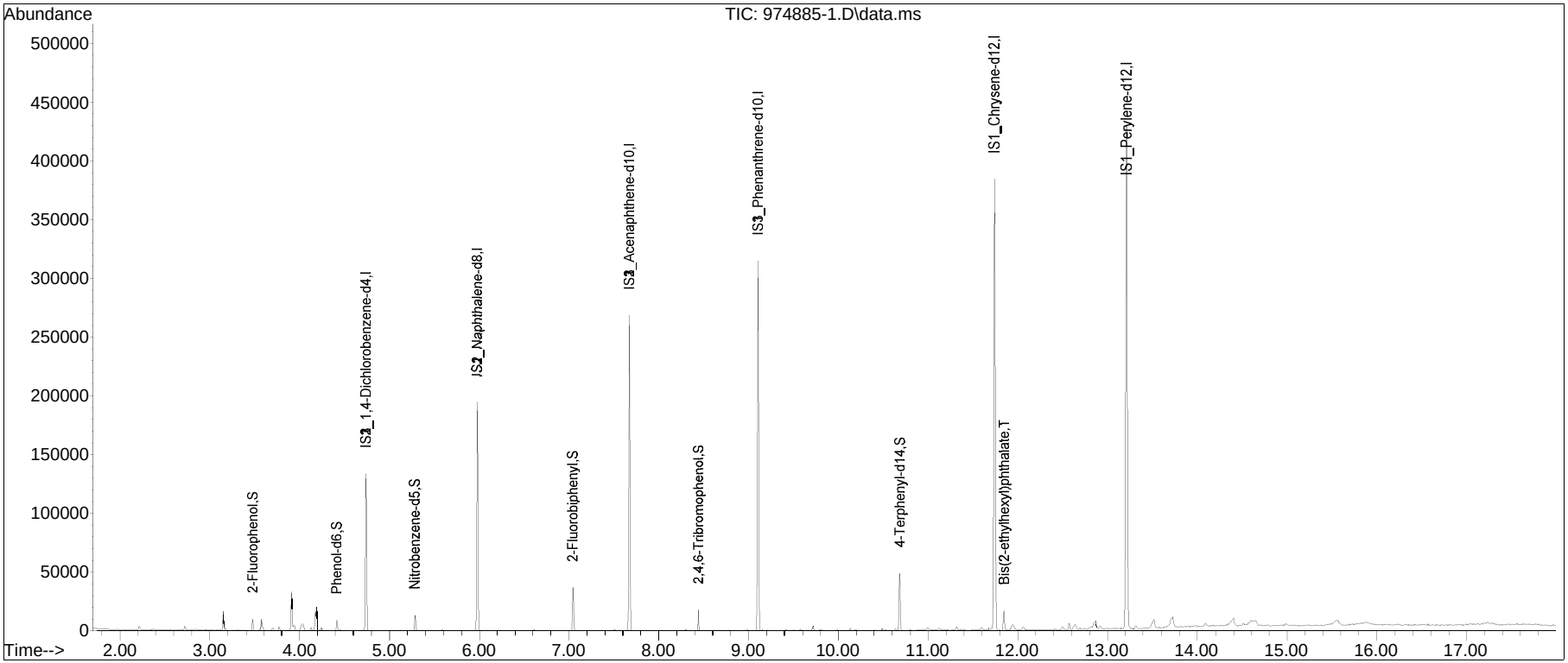
(#) = qualifier out of range (m) = manual integration (+) = signals summed

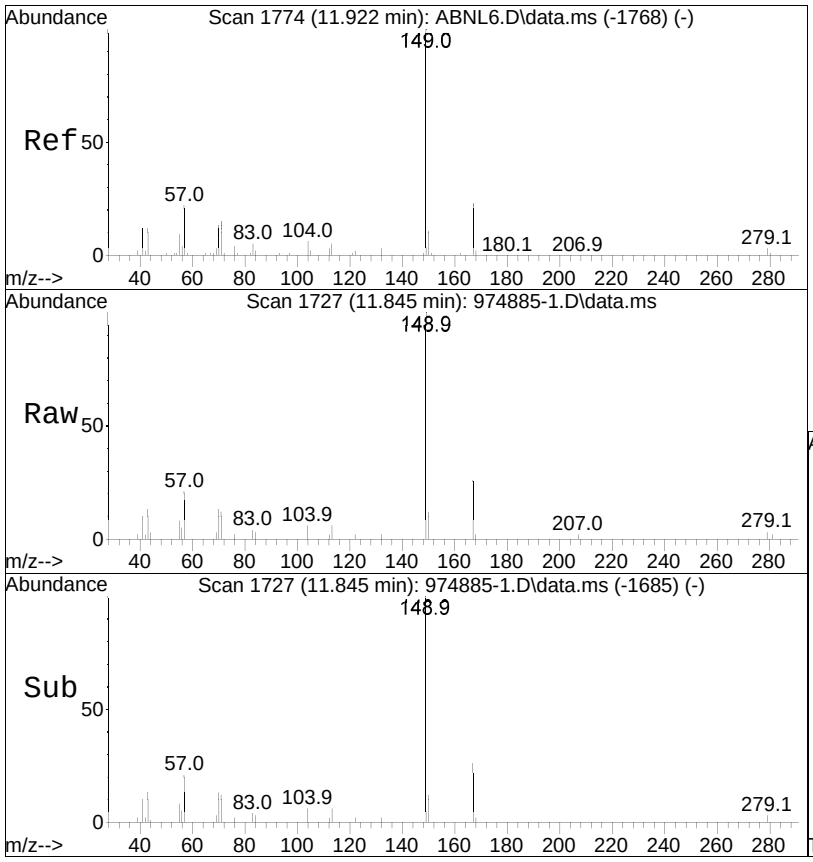
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-1.D
Acq On : 24 Sep 2024 10:28 am
Operator : SV112:slr
Sample : WG1974885-1,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 13:18:46 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924a.D•

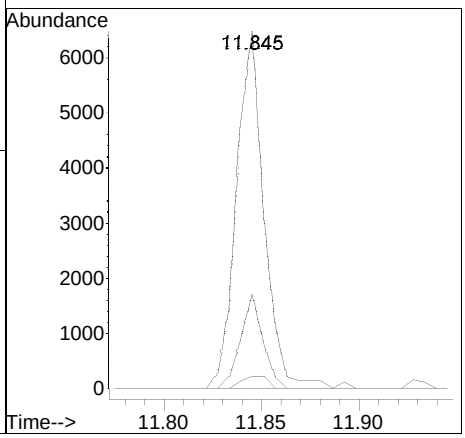




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.29 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. -0.000 min
Lab File: 974885-1.D
Acq: 24 Sep 2024 10:28 am

Tgt Ion:149 Resp: 6338

Ion	Ratio	Lower	Upper
149	100		
167	21.4	18.4	27.6
279	0.0	1.7	2.5#



Manual Integration Report

Data Path	: I:\8270\SV112\240924RVT\	QMethod	: FS240625SV112RVT.m
Data File	: 974885-1.D	Operator	: SV112:slr
Date Inj'd	: 9/24/2024 10:28 am	Instrument	: SV112
Sample	: WG1974885-1,32,,gmr	Quant Date	: 9/24/2024 10:47 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-2.D
Acq On : 24 Sep 2024 10:51 am
Operator : SV112:slr
Sample : WG1974885-2,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 13:20:42 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	17881	4.000	ug/ml		0.00
Standard Area 1 = 17786			Recovery = 100.53%				
27) IS2_1,4-Dichlorobenzen...	4.740	152	17881	4.000	ug/ml		0.00
Standard Area 3 = 17349			Recovery = 103.07%				
32) IS3_1,4-Dichlorobenzen...	4.740	152	17881	4.000	ug/ml		0.00
Standard Area 2 = 17404			Recovery = 102.74%				
35) IS1_Naphthalene-d8	5.975	136	67688	4.000	ug/ml		0.00
Standard Area 1 = 66392			Recovery = 101.95%				
55) IS2_Naphthalene-d8	5.975	136	67688	4.000	ug/ml		0.00
Standard Area 3 = 63812			Recovery = 106.07%				
63) IS1_Acenaphthene-d10	7.675	164	42396	4.000	ug/ml		0.00
Standard Area 1 = 44283			Recovery = 95.74%				
83) IS2_Acenaphthene-d10	7.675	164	42396	4.000	ug/ml		0.00
Standard Area 3 = 39230			Recovery = 108.07%				
86) IS3_Acenaphthene-d10	7.675	164	42396	4.000	ug/ml		0.00
Standard Area 2 = 38891			Recovery = 109.01%				
88) IS1_Phenanthrene-d10	9.104	188	91227	4.000	ug/ml	#	0.00
Standard Area 1 = 94364			Recovery = 96.68%				
100) IS3_Phenanthrene-d10	9.104	188	91227	4.000	ug/ml	#	0.00
Standard Area 2 = 87342			Recovery = 104.45%				
104) IS1_Chrysene-d12	11.740	240	109322	4.000	ug/ml	#	0.00
Standard Area 1 = 112377			Recovery = 97.28%				
113) IS1_Perylene-d12	13.210	264	132189	4.000	ug/ml		0.00
Standard Area 1 = 132148			Recovery = 100.03%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	5066	1.079	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 53.95%				
7) Phenol-d6	4.416	99	4502	0.742	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.10%				
19) Nitrobenzene-d5	5.281	82	3928	0.679	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.90%				
46) 2-Fluorobiphenyl	7.040	172	10864	0.710	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.00%				
79) 2,4,6-Tribromophenol	8.440	330	4286	1.575	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 78.75%				

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-2.D
Acq On : 24 Sep 2024 10:51 am
Operator : SV112:slr
Sample : WG1974885-2,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 13:20:42 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.687	244	19256	0.821	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 82.10%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.540	128	8360	1.495	ug/ml	92
8) Phenol	4.428	94	5713	0.810	ug/ml#	55
14) Bis(2-chloroisopropyl)...	5.034	45	10654	1.616	ug/ml#	71
15) 2-Methylphenol	5.016	108	6536	1.384	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.158	70	5106	1.320	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.175	108	6569	1.277	ug/ml	90
20) Nitrobenzene	5.299	77	7927	1.375	ug/ml	93
21) Isophorone	5.540	82	14400	1.384	ug/ml	95
22) 2-Nitrophenol	5.616	139	4568	1.779	ug/ml#	84
23) 2,4-Dimethylphenol	5.687	107	5463	1.110	ug/ml	89
24) Bis(2-chloroethoxy)met...	5.775	93	9537	1.361	ug/ml	96
25) 2,4-Dichlorophenol	5.852	162	8305	1.612	ug/ml#	93
28) Benzaldehyde	4.311	105	5945	1.216	ug/ml	95
29) Acetophenone	5.140	105	11928	1.402	ug/ml	99
38) 4-Chloroaniline	6.063	65	2379M3	1.193	ug/ml	
40) p-Chloro-m-cresol	6.557	107	7258	1.549	ug/ml#	82
43) Hexachlorocyclopentadiene	6.840	237	4896	1.153	ug/ml	99
44) 2,4,6-Trichlorophenol	6.957	196	6927	1.596	ug/ml	100
45) 2,4,5-Trichlorophenol	6.987	196	7551	1.701	ug/ml	96
48) 2-Nitroaniline	7.246	138	6360	1.875	ug/ml#	80
51) Dimethyl phthalate	7.446	163	24610	1.576	ug/ml	99
53) 2,6-Dinitrotoluene	7.487	165	5169	1.770	ug/ml#	79
60) Caprolactam	6.357	55	1375	0.911	ug/ml	99
61) 1,2,4,5-Tetrachloroben...	6.840	216	10485	1.293	ug/ml	97
62) Biphenyl	7.134	154	23959	1.379	ug/ml	99
64) 3-Nitroaniline	7.646	138	5521	1.743	ug/ml	86
66) 2,4-Dinitrophenol	7.746	184	2460	1.719	ug/ml#	74
67) Dibenzofuran	7.875	168	29996	1.540	ug/ml	89
68) 2,4-Dinitrotoluene	7.875	165	7141	1.758	ug/ml#	78
69) 4-Nitrophenol	7.828	65	2568	0.837	ug/ml	87
72) Diethyl phthalate	8.134	149	24760	1.571	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.222	204	12259	1.484	ug/ml#	79
75) 4-Nitroaniline	8.228	138	6069	1.822	ug/ml	84

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-2.D
Acq On : 24 Sep 2024 10:51 am
Operator : SV112:slr
Sample : WG1974885-2,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 13:20:42 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	8.263	198	4199	1.770	ug/ml#	71
77) NDPA/DPA	8.340	169	20385	1.563	ug/ml	94
80) 4-Bromophenyl phenyl e...	8.693	248	7838	1.480	ug/ml#	79
87) Atrazine	8.869	200	8514	1.820	ug/ml	99
91) Carbazole	9.346	167	38026	1.759	ug/ml	98
92) Di-n-butylphthalate	9.728	149	44691	1.895	ug/ml	99
97) Butyl benzyl phthalate	11.210	149	22240	2.131	ug/ml#	84
106) 3,3'-Dichlorobenzidine	11.728	252	23853	1.865	ug/ml#	97
108) Bis(2-ethylhexyl)phtha...	11.845	149	39779	2.279	ug/ml#	99
109) Di-n-octylphthalate	12.522	149	56885	2.126	ug/ml#	94

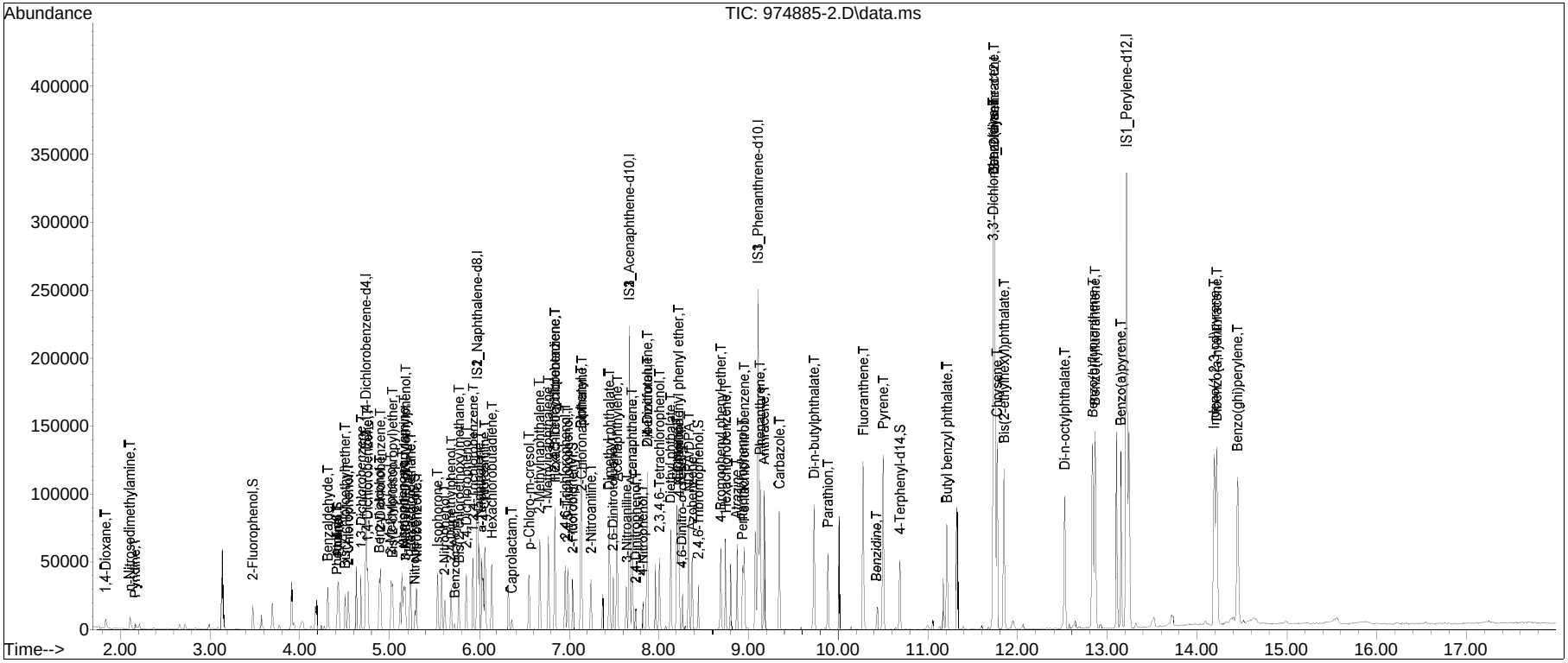
(#) = qualifier out of range (m) = manual integration (+) = signals summed

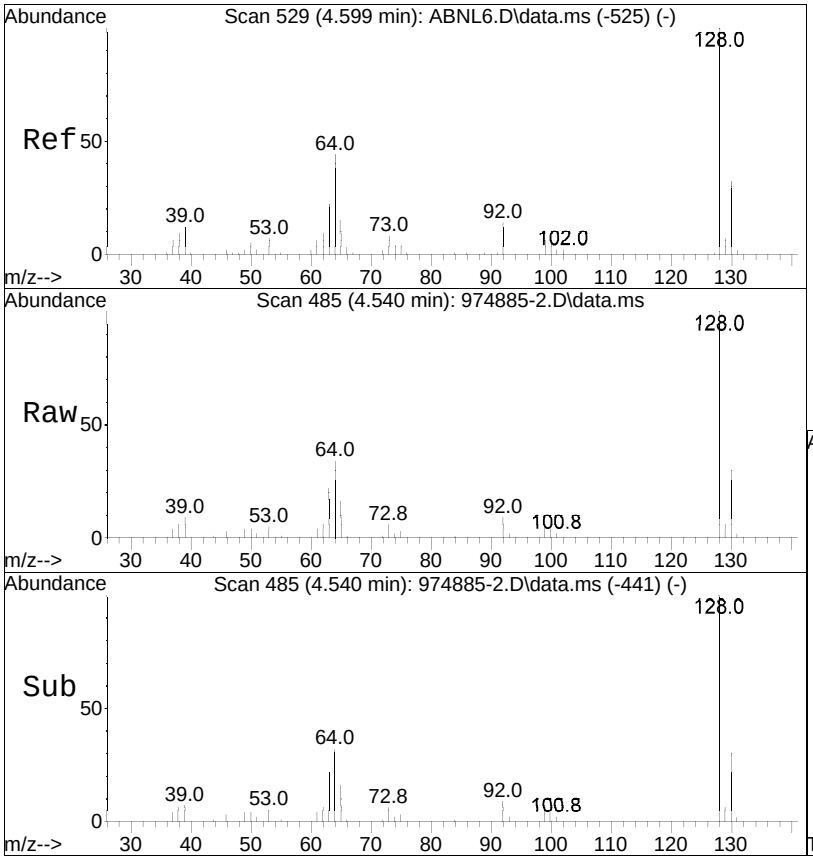
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-2.D
Acq On : 24 Sep 2024 10:51 am
Operator : SV112:slr
Sample : WG1974885-2,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 13:20:42 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924a.D•

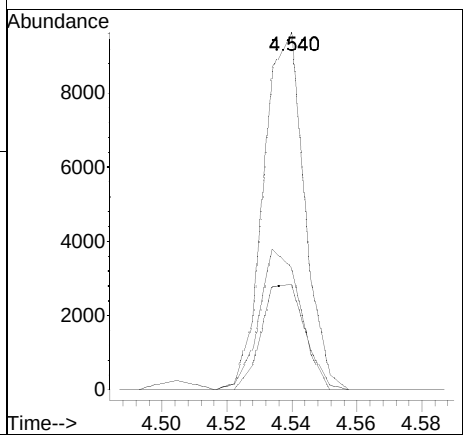


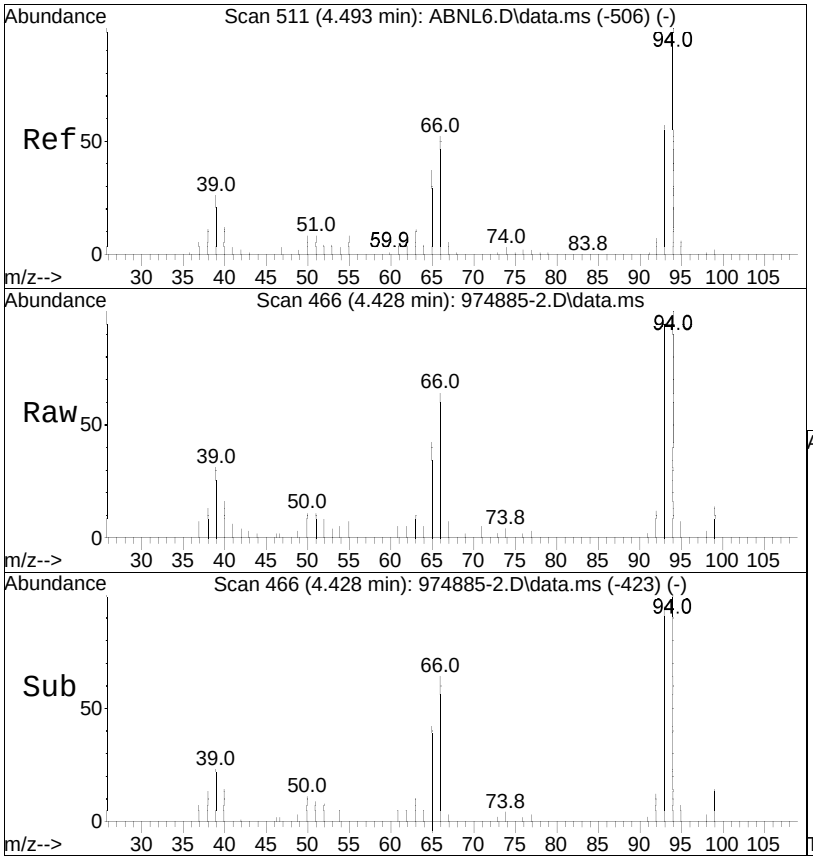


#6
2-Chlorophenol
Concen: 1.50 ug/ml
RT: 4.540 min Scan# 485
Delta R.T. 0.006 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:128 Resp: 8360

Ion	Ratio	Lower	Upper
128	100		
64	39.6	38.2	57.4
130	31.7	26.2	39.2

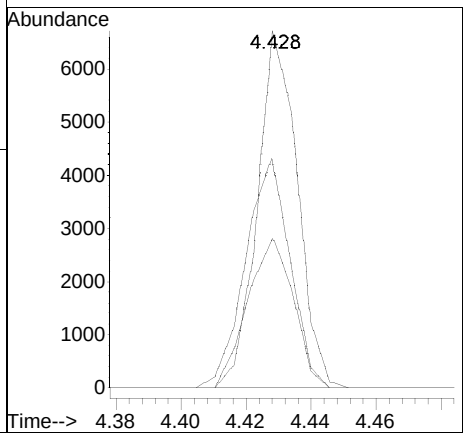


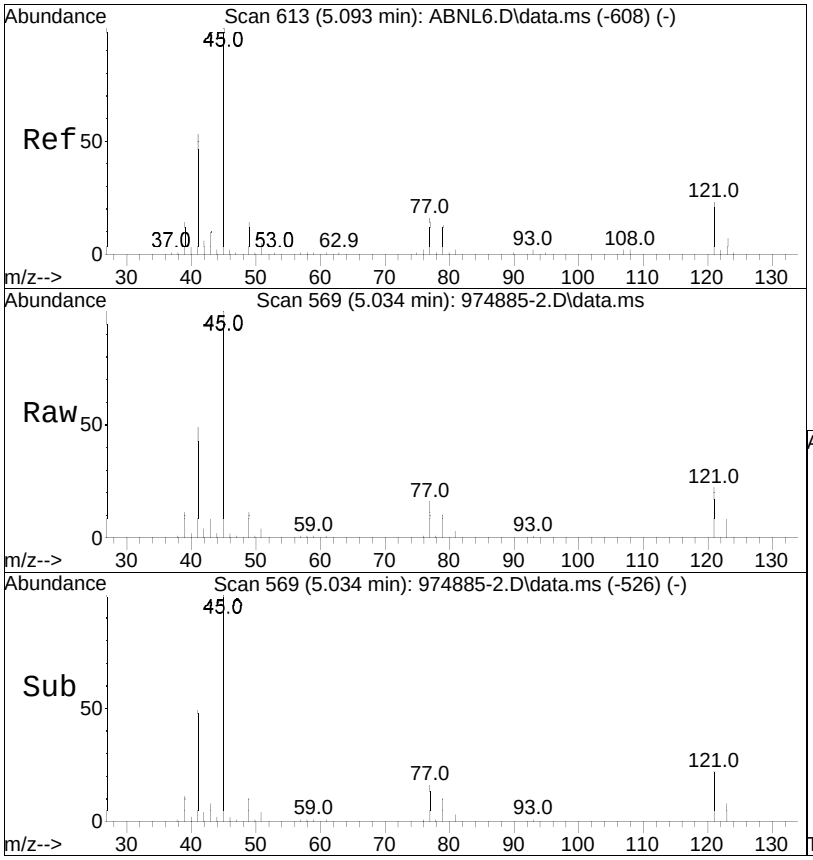


#8
Phenol
Concen: 0.81 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 94 Resp: 5713

Ion	Ratio	Lower	Upper
94	100		
65	48.0	23.0	34.6#
66	71.8	32.1	48.1#

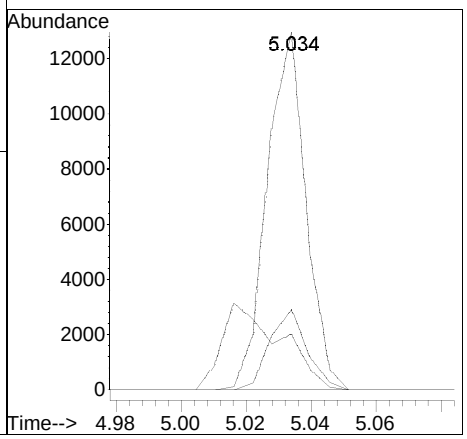


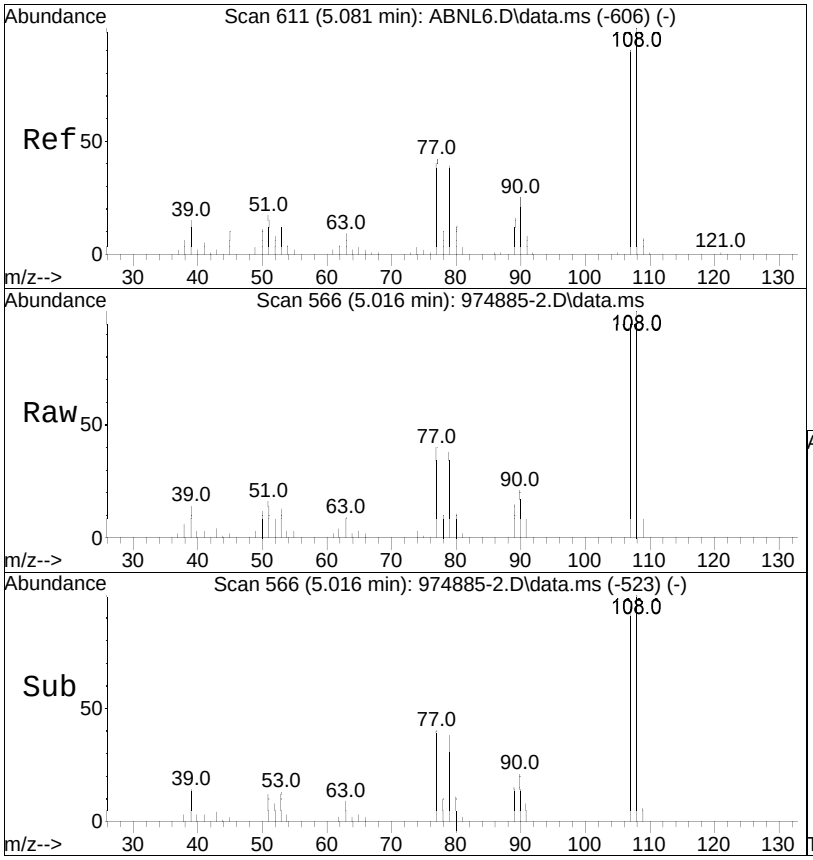


#14
Bis(2-chloroisopropyl)ether
Concen: 1.62 ug/ml
RT: 5.034 min Scan# 569
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 45 Resp: 10654

Ion	Ratio	Lower	Upper
45	100		
121	21.7	14.8	22.2
77	36.8	10.5	15.7#

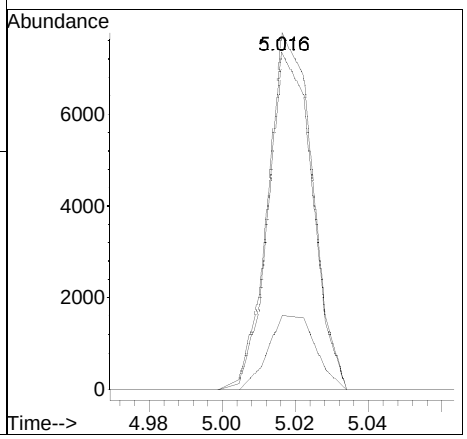


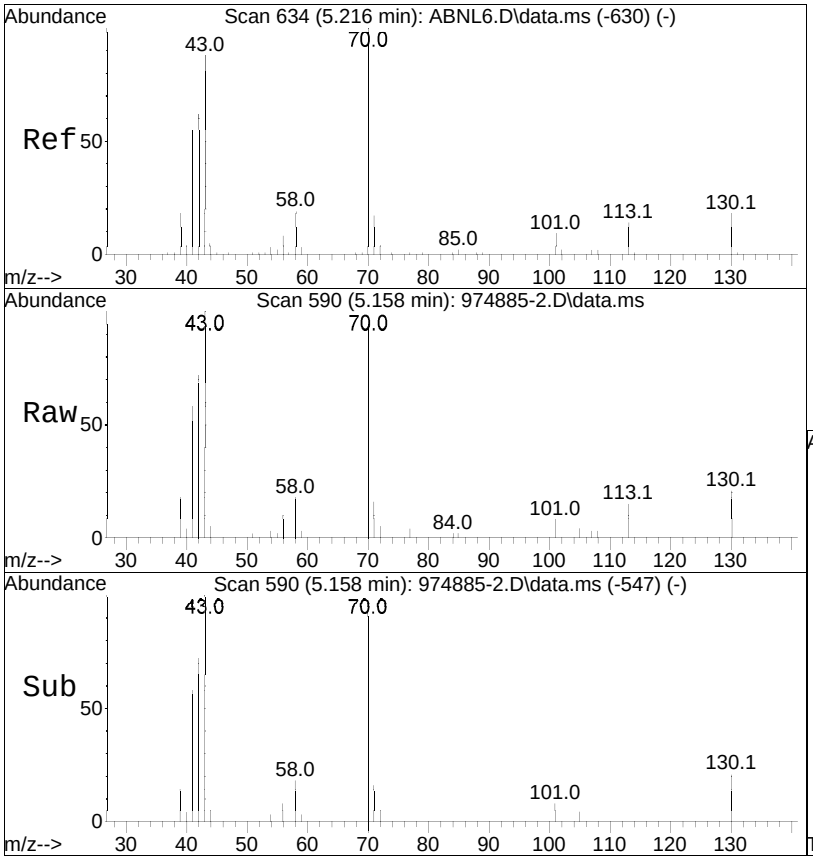


#15
2-Methylphenol
Concen: 1.38 ug/ml
RT: 5.016 min Scan# 566
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:108 Resp: 6536

Ion	Ratio	Lower	Upper
108	100		
107	92.8	71.0	106.4
90	22.1	19.7	29.5

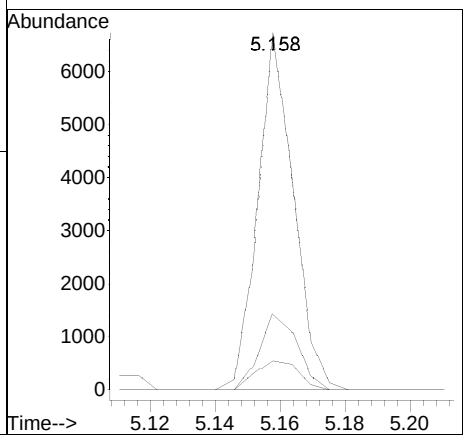


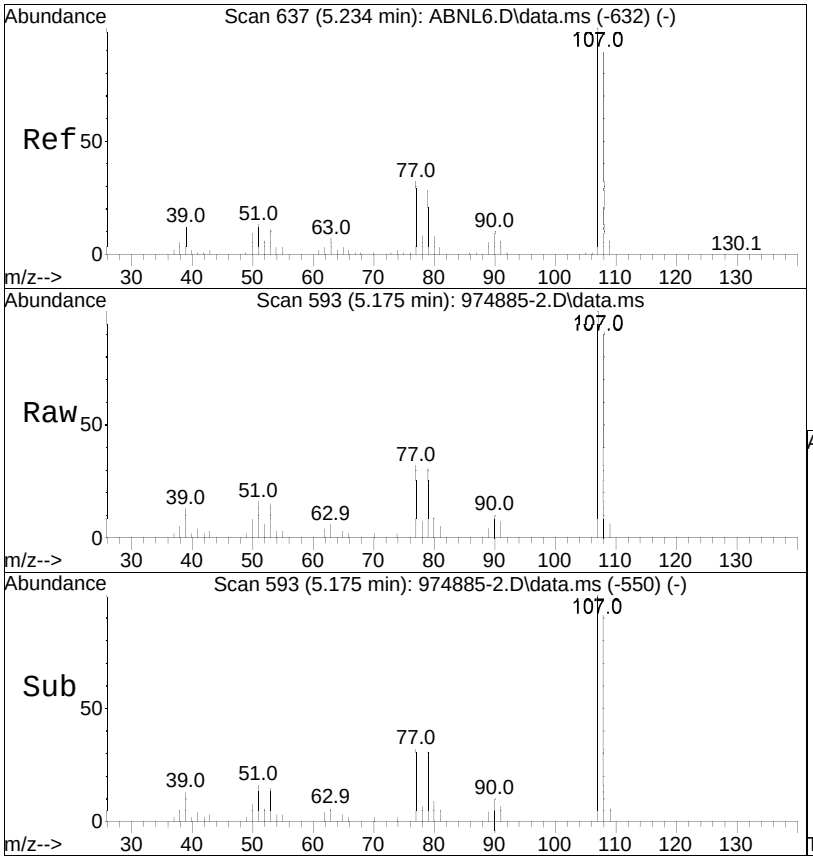


#17
n-Nitrosodi-n-propylamine
Concen: 1.32 ug/ml
RT: 5.158 min Scan# 590
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 70 Resp: 5106

Ion	Ratio	Lower	Upper
70	100		
130	22.6	16.2	24.4
101	9.9	7.6	11.4

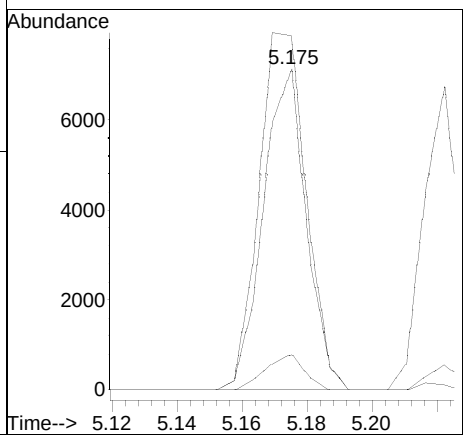


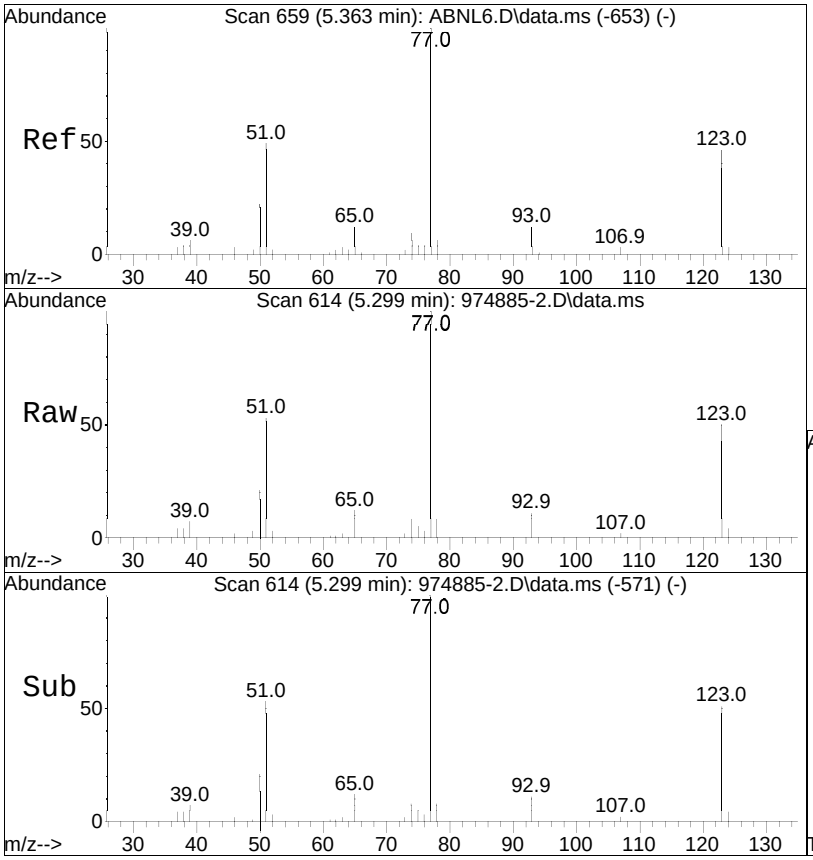


#18
3-Methylphenol/4-Methylphenol
Concen: 1.28 ug/ml
RT: 5.175 min Scan# 593
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:108 Resp: 6569

Ion	Ratio	Lower	Upper
108	100		
107	122.1	88.8	133.2
90	10.1	9.0	13.6

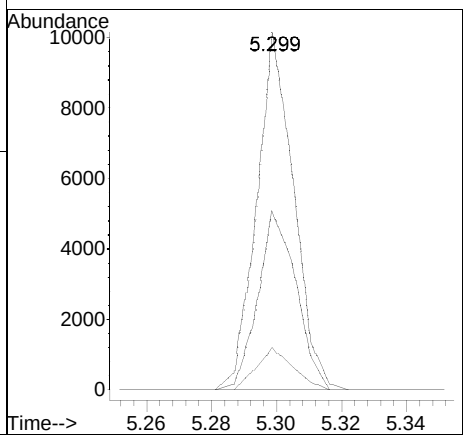


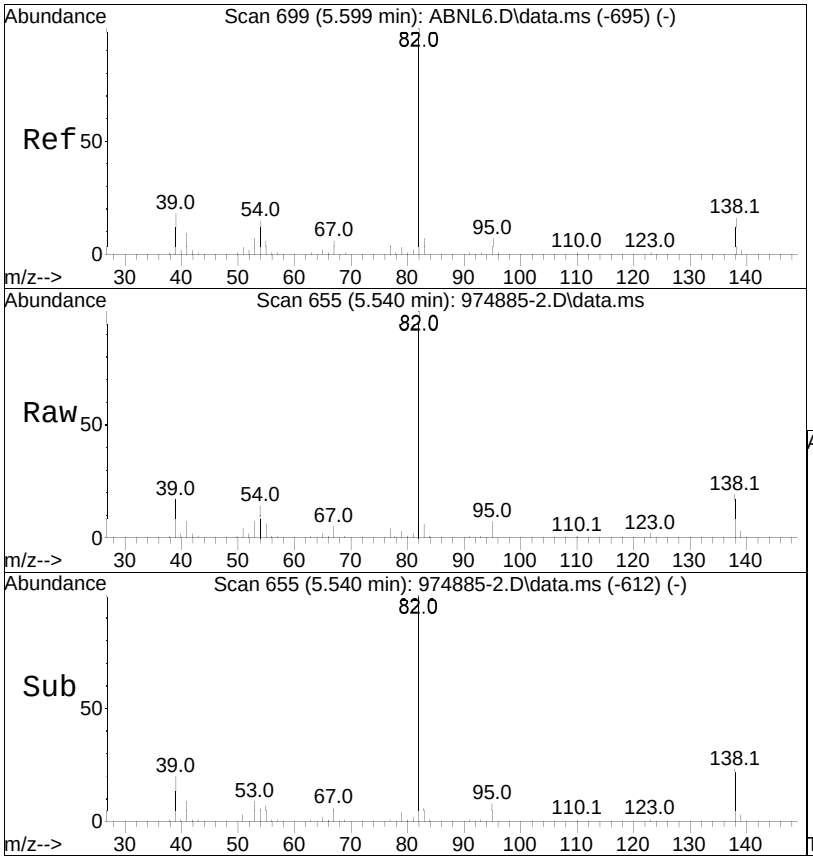


#20
Nitrobenzene
Concen: 1.38 ug/ml
RT: 5.299 min Scan# 614
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 77 Resp: 7927

Ion	Ratio	Lower	Upper
77	100		
123	51.8	37.3	55.9
65	11.8	10.9	16.3

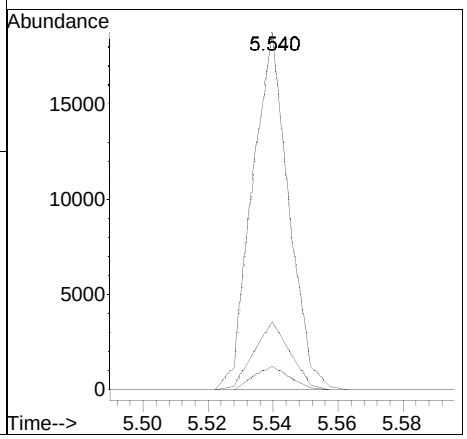


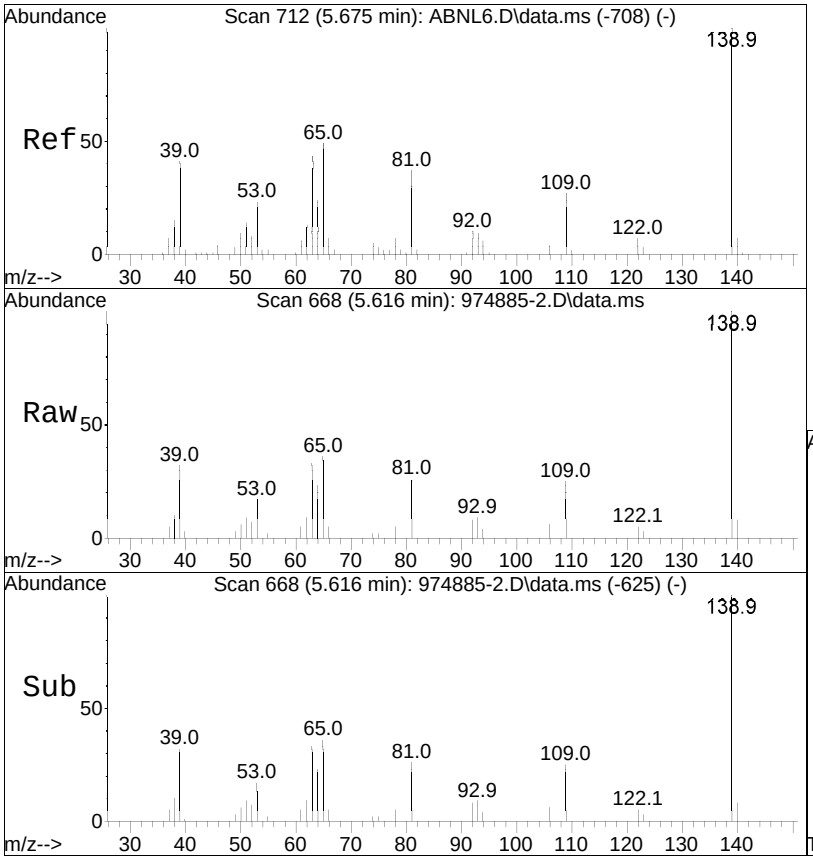


#21
Isophorone
Concen: 1.38 ug/ml
RT: 5.540 min Scan# 655
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 82 Resp: 14400

Ion	Ratio	Lower	Upper
82	100		
138	19.2	13.0	19.4
95	6.6	5.5	8.3

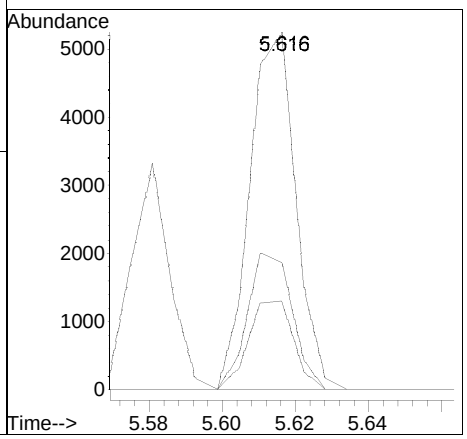


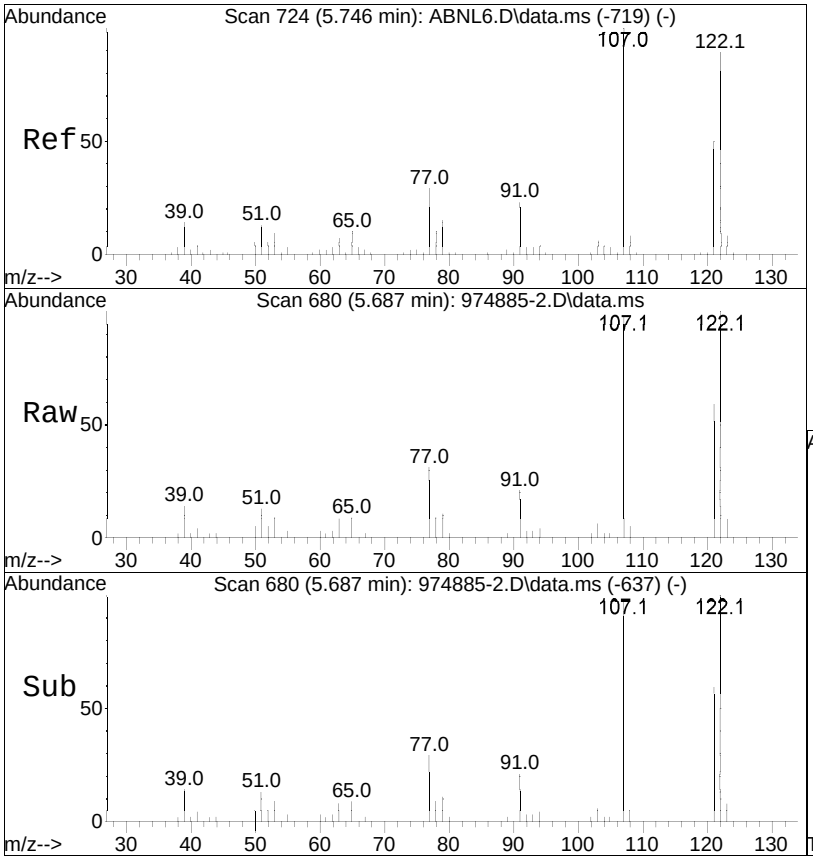


#22
2-Nitrophenol
Concen: 1.78 ug/ml
RT: 5.616 min Scan# 668
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:139 Resp: 4568

Ion	Ratio	Lower	Upper
139	100		
109	24.5	23.1	34.7
65	37.4	41.4	62.2#

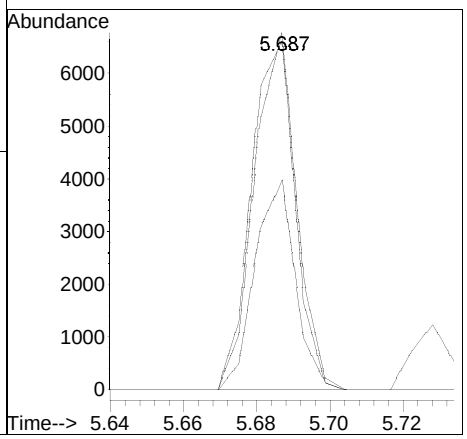


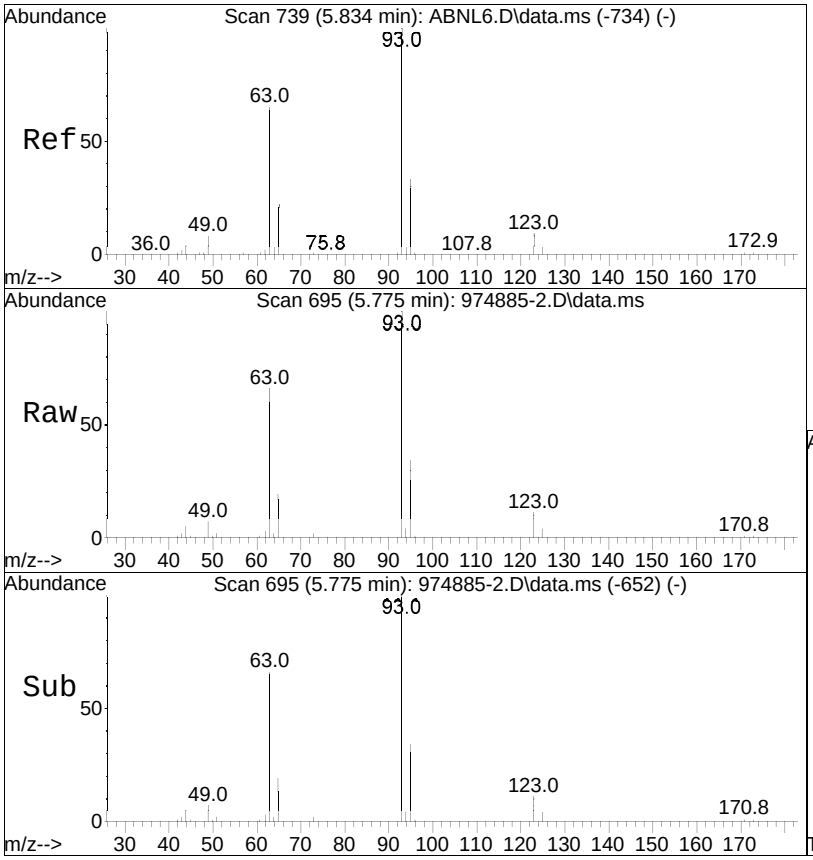


#23
2,4-Dimethylphenol
Concen: 1.11 ug/ml
RT: 5.687 min Scan# 680
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:107 Resp: 5463

Ion	Ratio	Lower	Upper
107	100		
121	55.8	41.3	61.9
122	98.8	69.3	103.9

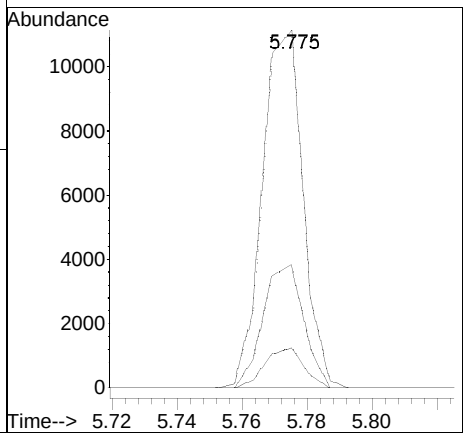


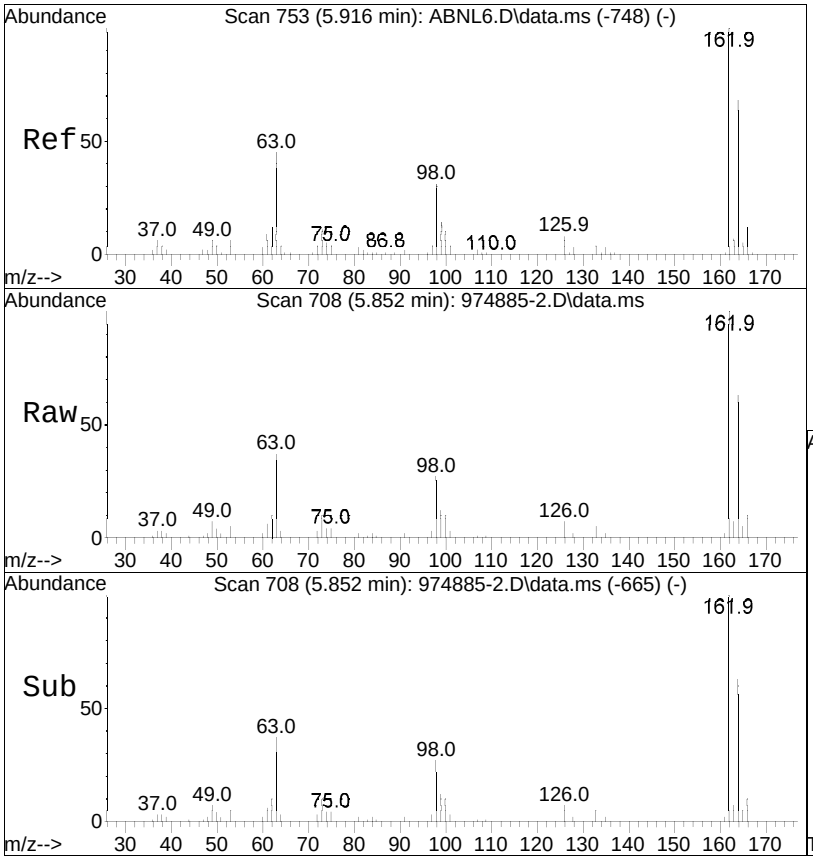


#24
Bis(2-chloroethoxy)methane
Concen: 1.36 ug/ml
RT: 5.775 min Scan# 695
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 93 Resp: 9537

Ion	Ratio	Lower	Upper
93	100		
95	34.7	25.8	38.8
123	10.9	9.6	14.4

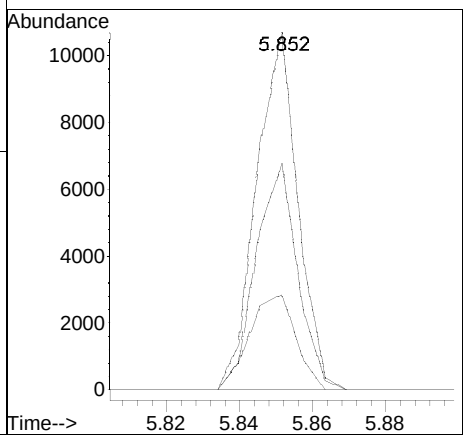


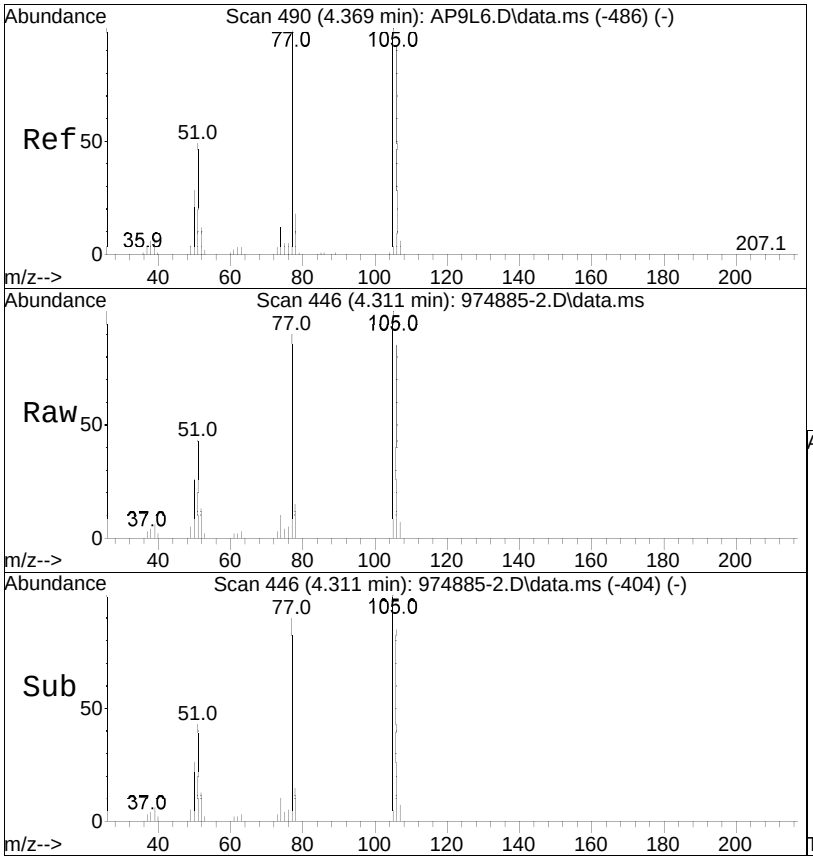


#25
2,4-Dichlorophenol
Concen: 1.61 ug/ml
RT: 5.852 min Scan# 708
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:162 Resp: 8305

Ion	Ratio	Lower	Upper
162	100		
164	63.7	51.1	76.7
98	30.0	32.2	48.2#

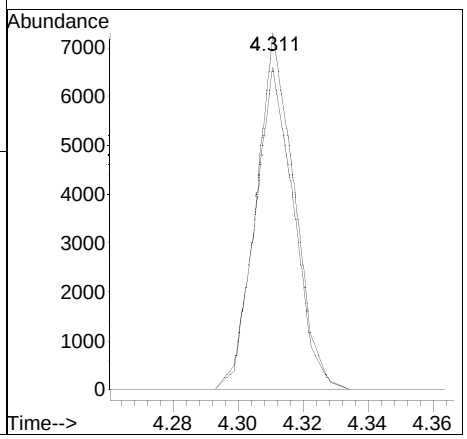


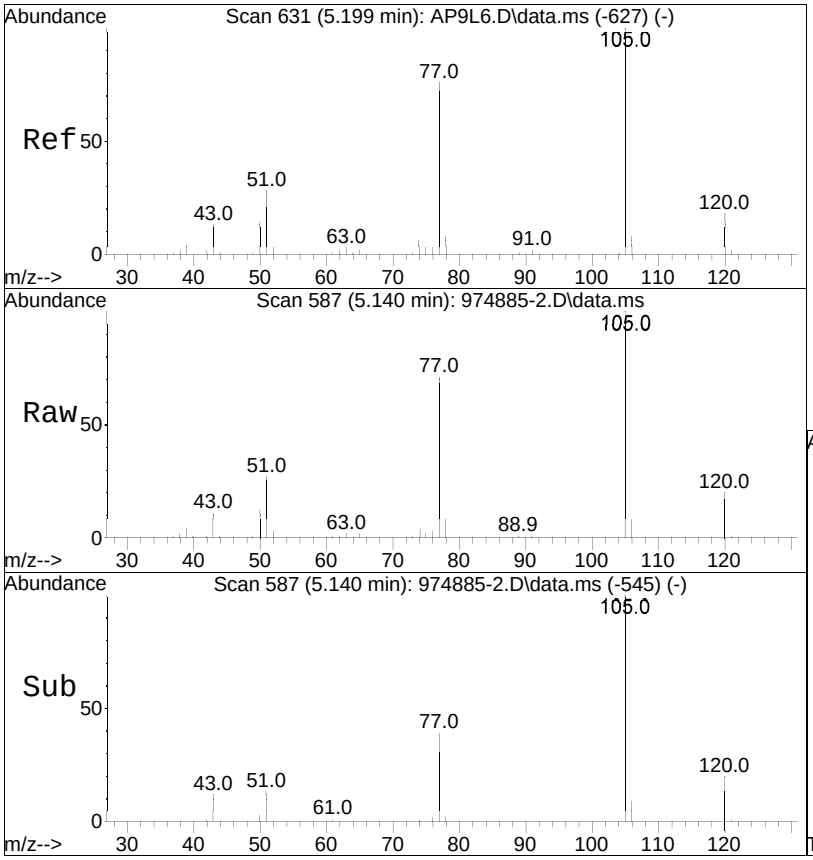


#28
Benzaldehyde
Concen: 1.22 ug/ml
RT: 4.311 min Scan# 446
Delta R.T. -0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:105 Resp: 5945

Ion	Ratio	Lower	Upper
105	100		
77	91.4	77.0	115.6

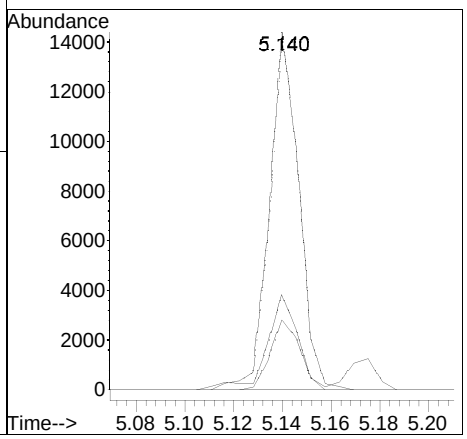


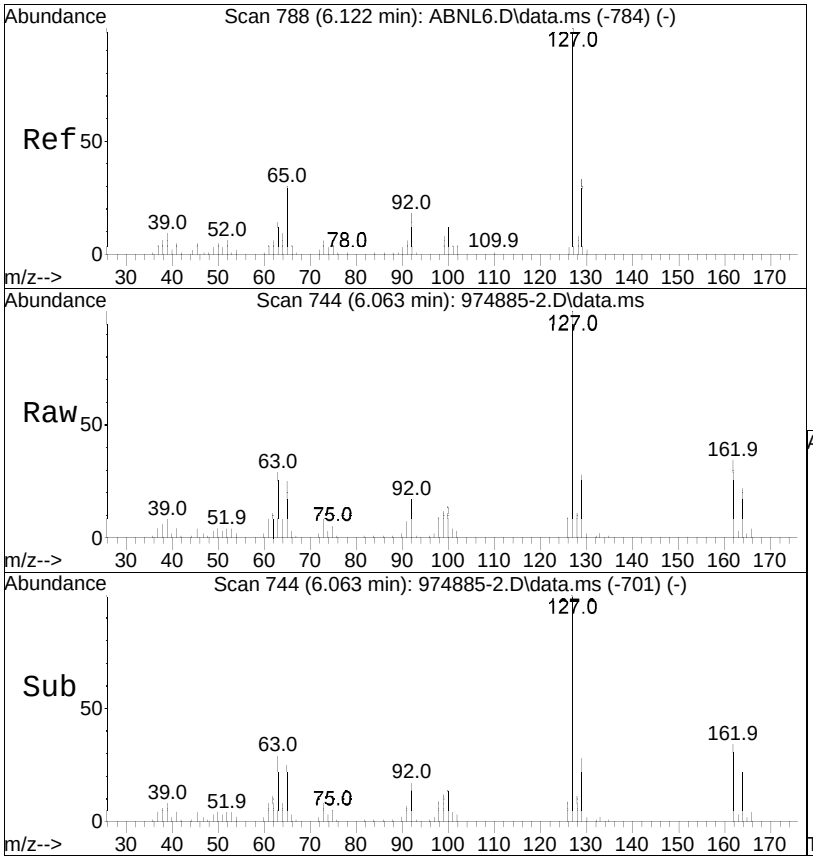


#29
Acetophenone
Concen: 1.40 ug/ml
RT: 5.140 min Scan# 587
Delta R.T. -0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:105 Resp: 11928

Ion	Ratio	Lower	Upper
105	100		
120	19.7	15.2	22.8
51	28.4	23.1	34.7

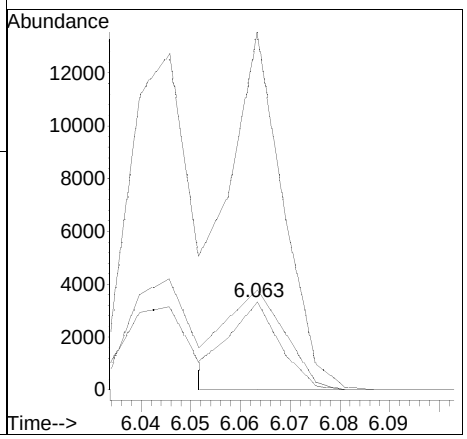


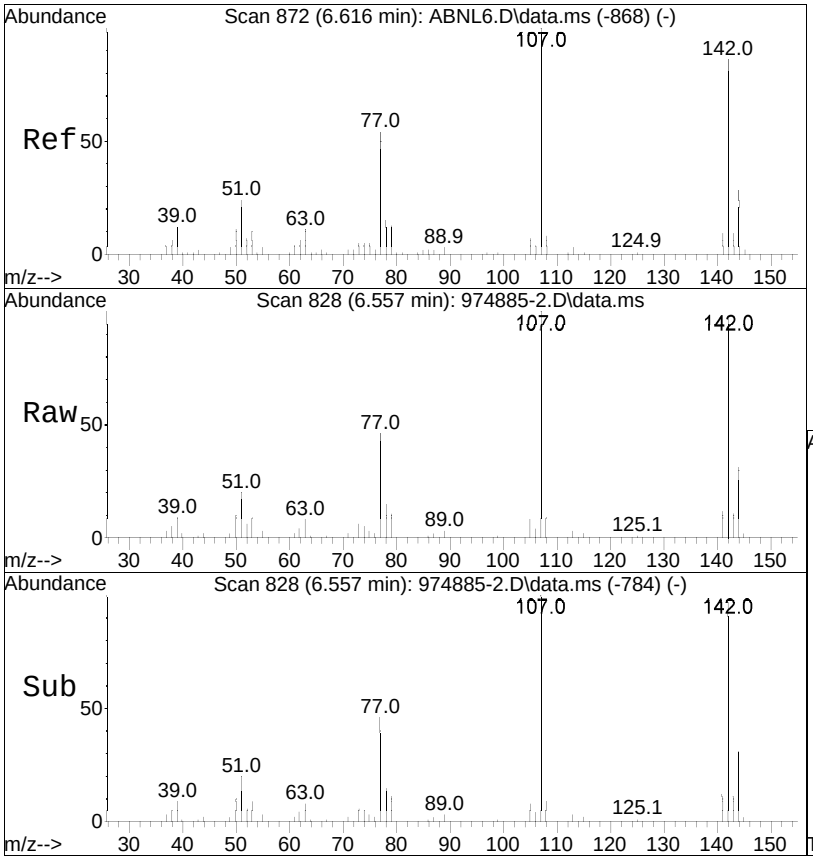


#38
4-Chloroaniline
Concen: 1.19 ug/ml M3
RT: 6.063 min Scan# 744
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 65 Resp: 2379

Ion	Ratio	Lower	Upper
65	100		
127	465.1	266.2	399.4#
129	151.6	85.0	127.4#

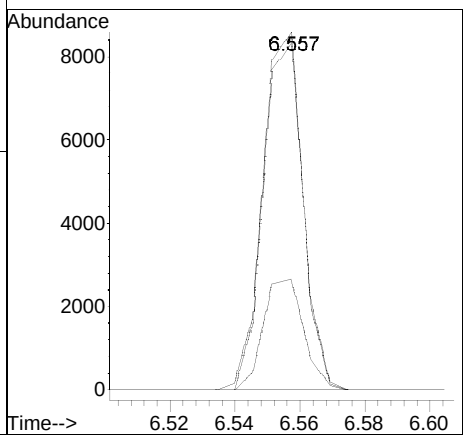


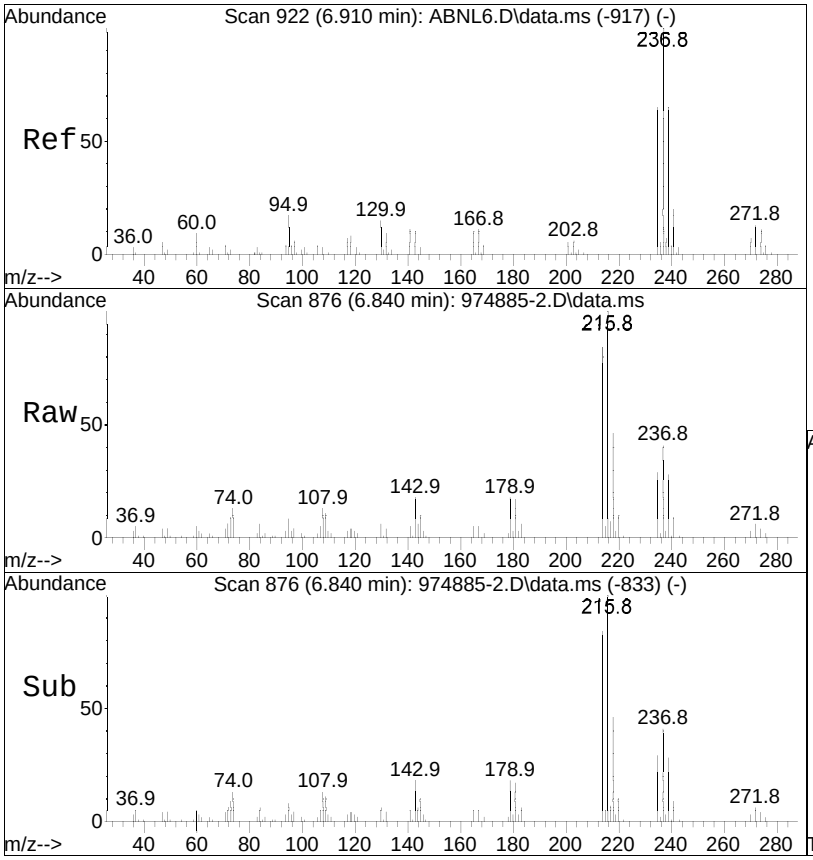


#40
p-Chloro-m-cresol
Concen: 1.55 ug/ml
RT: 6.557 min Scan# 828
Delta R.T. 0.006 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:107 Resp: 7258

Ion	Ratio	Lower	Upper
107	100		
144	31.6	20.3	30.5#
142	96.8	63.8	95.6#

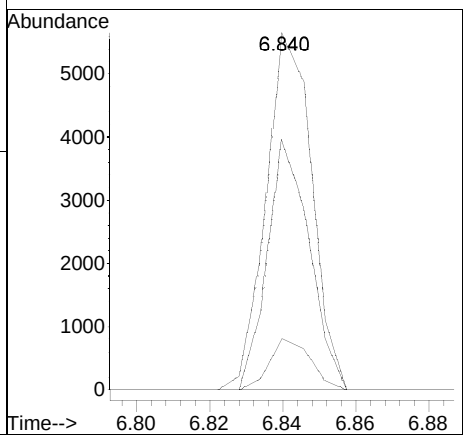


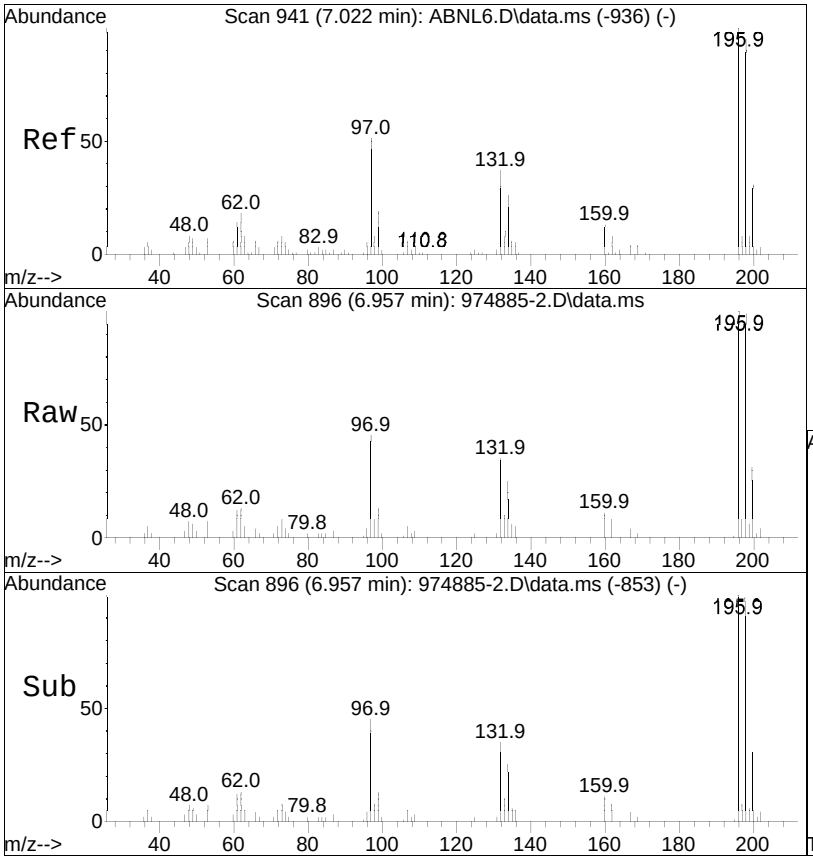


#43
Hexachlorocyclopentadiene
Concen: 1.15 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:237 Resp: 4896

Ion	Ratio	Lower	Upper
237	100		
235	64.2	50.9	76.3
272	12.8	10.1	15.1

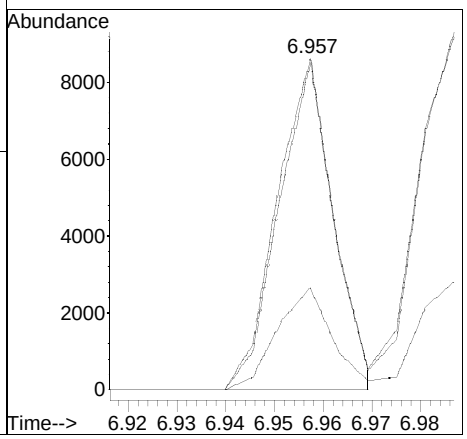


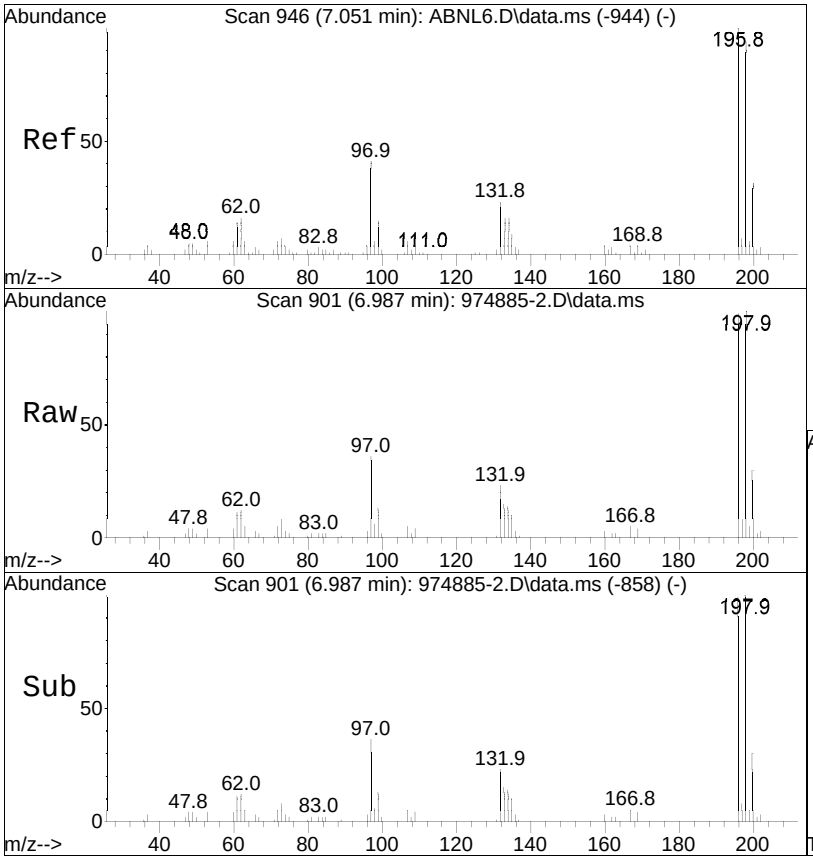


#44
2,4,6-Trichlorophenol
Concen: 1.60 ug/ml
RT: 6.957 min Scan# 896
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:196 Resp: 6927

Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.4	114.6
200	30.4	24.4	36.6

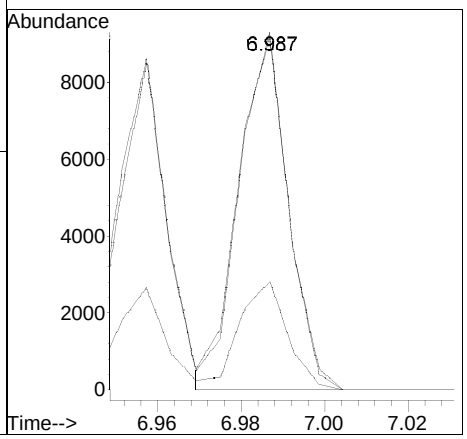


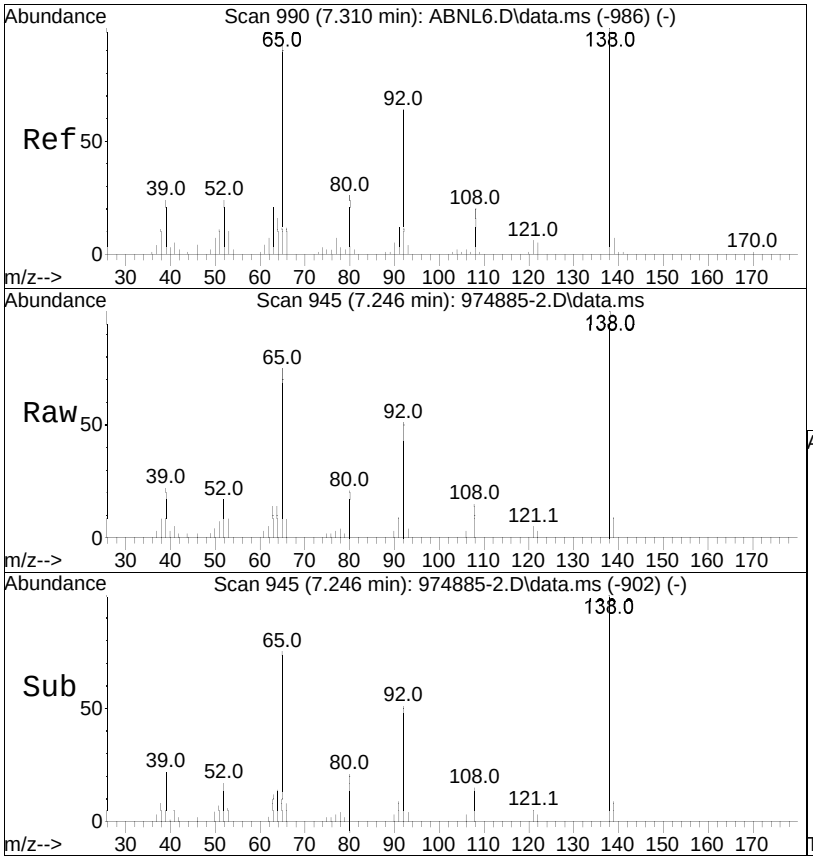


#45
2,4,5-Trichlorophenol
Concen: 1.70 ug/ml
RT: 6.987 min Scan# 901
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:196 Resp: 7551

Ion	Ratio	Lower	Upper
196	100		
200	29.9	24.2	36.4
198	99.6	76.2	114.2

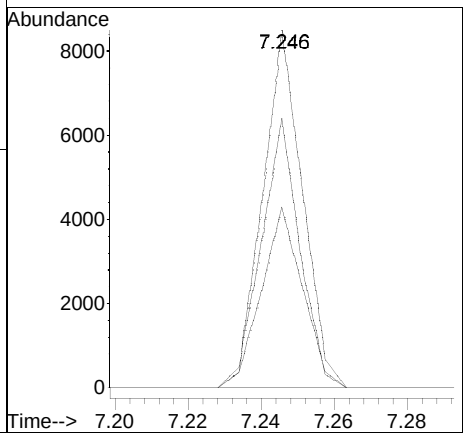


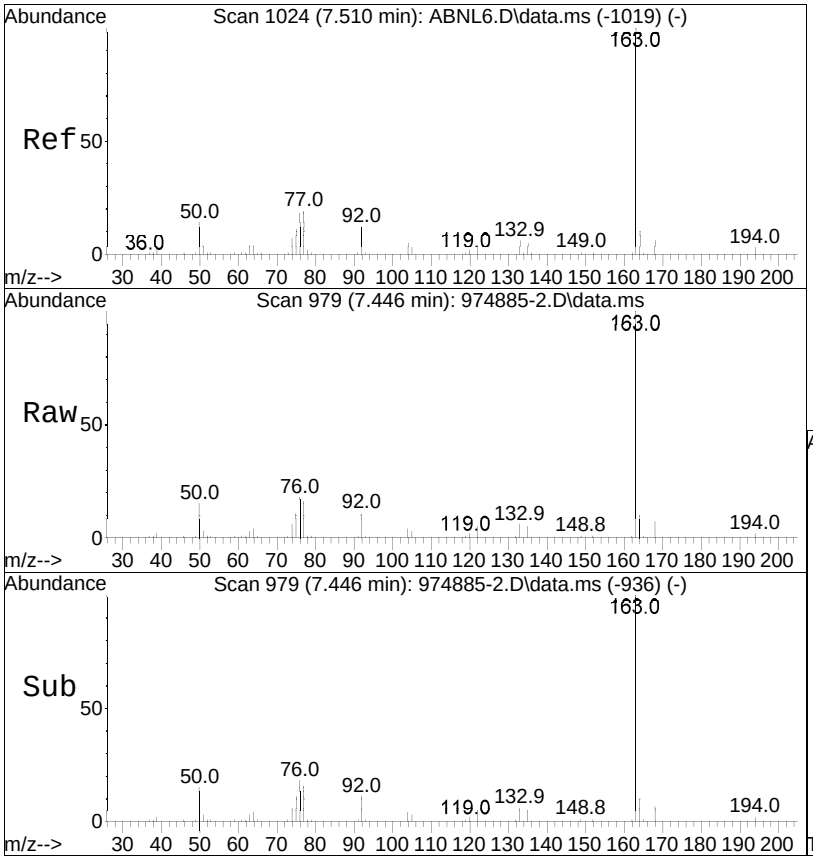


#48
2-Nitroaniline
Concen: 1.88 ug/ml
RT: 7.246 min Scan# 945
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:138 Resp: 6360

Ion	Ratio	Lower	Upper
138	100		
92	52.7	52.1	78.1
65	72.9	75.9	113.9#

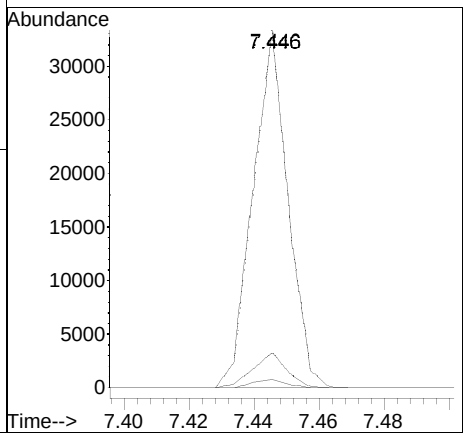


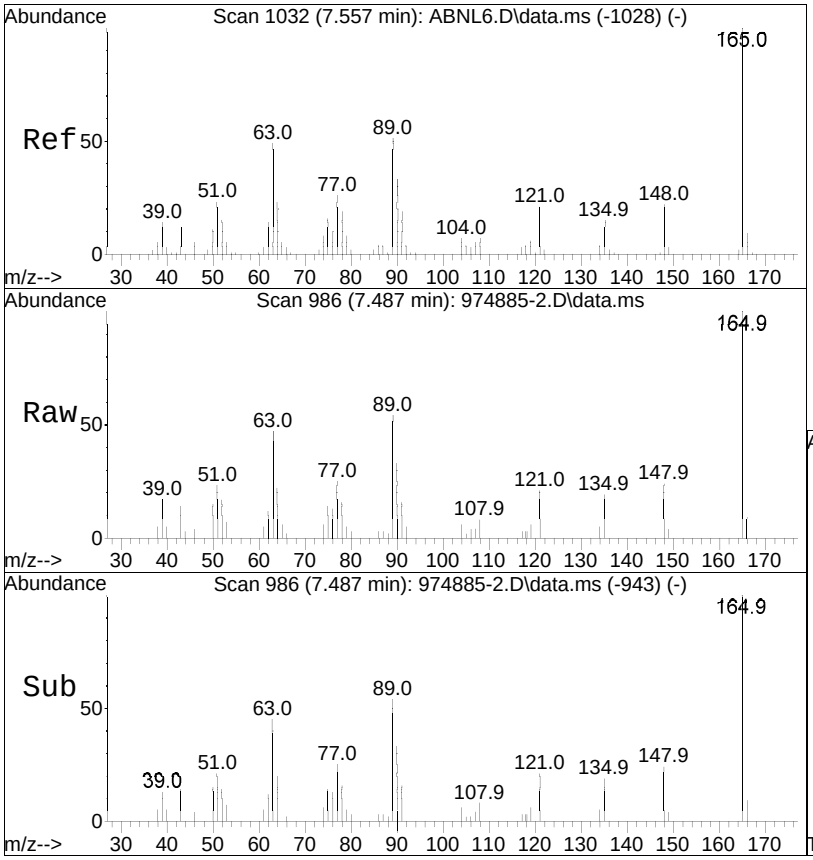


#51
Dimethyl phthalate
Concen: 1.58 ug/ml
RT: 7.446 min Scan# 979
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:163 Resp: 24610

Ion	Ratio	Lower	Upper
163	100		
194	2.5	2.3	3.5
164	9.8	8.2	12.2

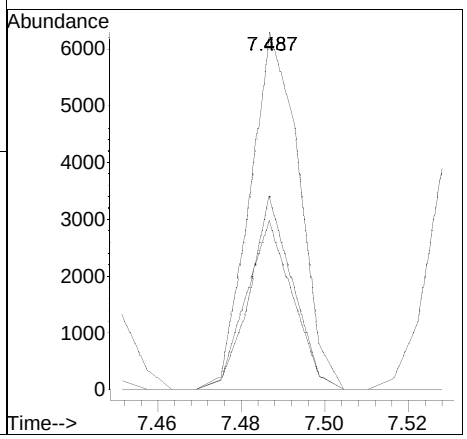


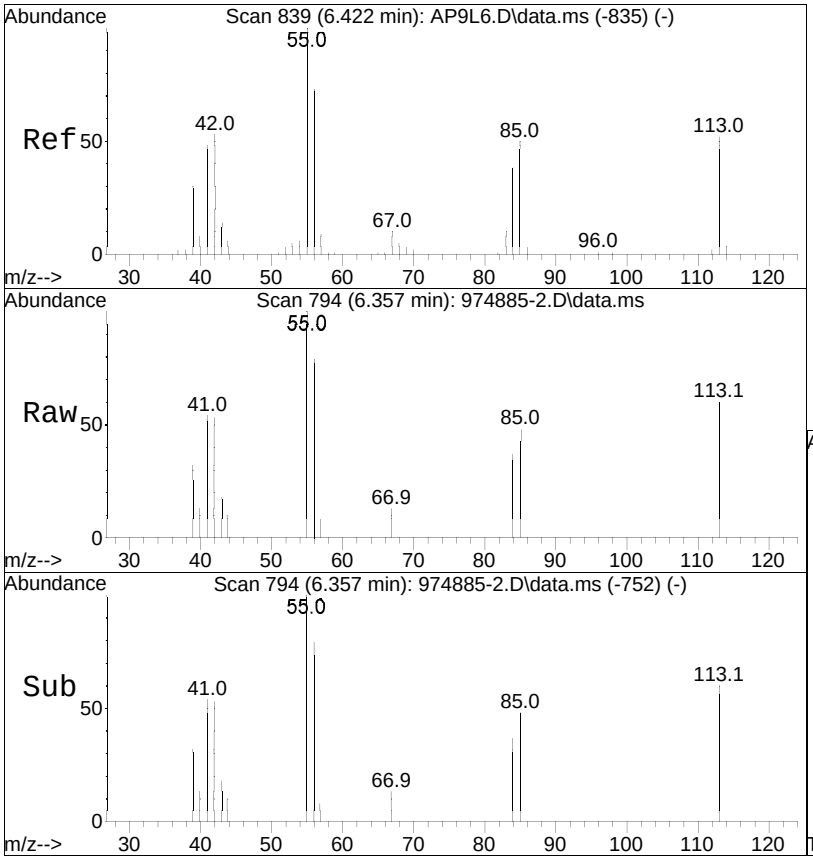


#53
2,6-Dinitrotoluene
Concen: 1.77 ug/ml
RT: 7.487 min Scan# 986
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:165 Resp: 5169

Ion	Ratio	Lower	Upper
165	100		
89	47.1	48.8	73.2#
63	44.6	50.5	75.7#

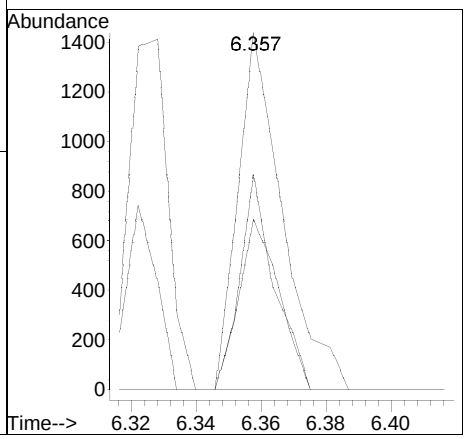


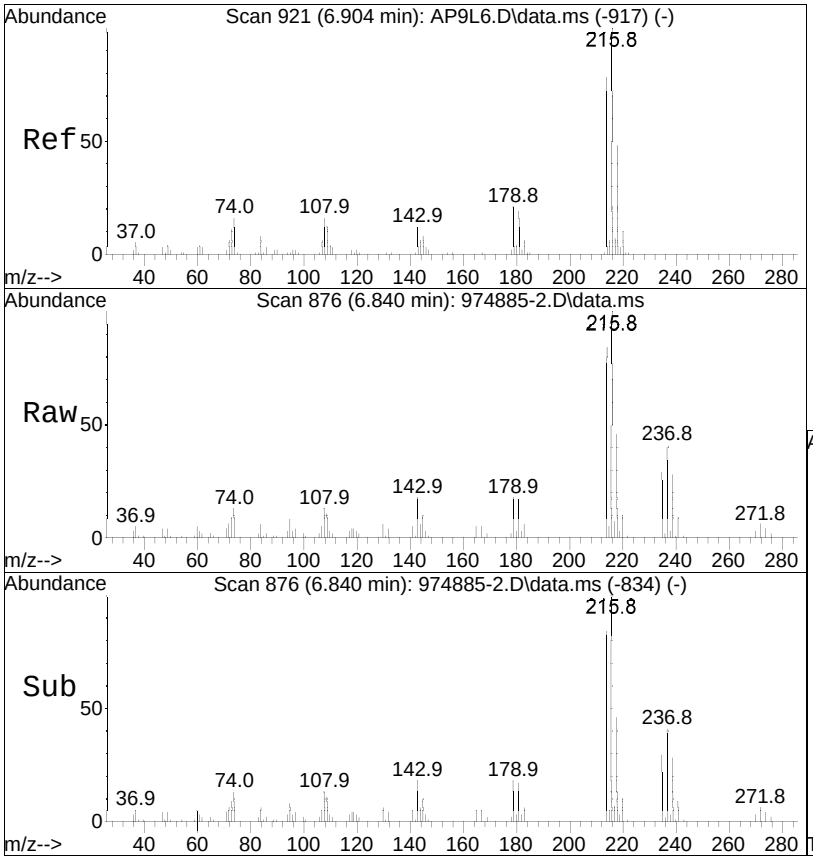


#60
Caprolactam
Concen: 0.91 ug/ml
RT: 6.357 min Scan# 794
Delta R.T. -0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 55 Resp: 1375

Ion	Ratio	Lower	Upper
55	100		
85	43.1	35.2	52.8
113	46.5	36.6	55.0

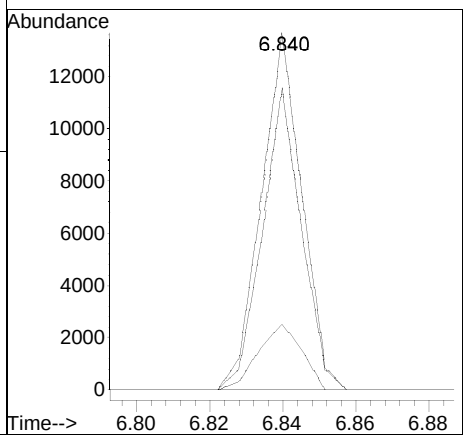


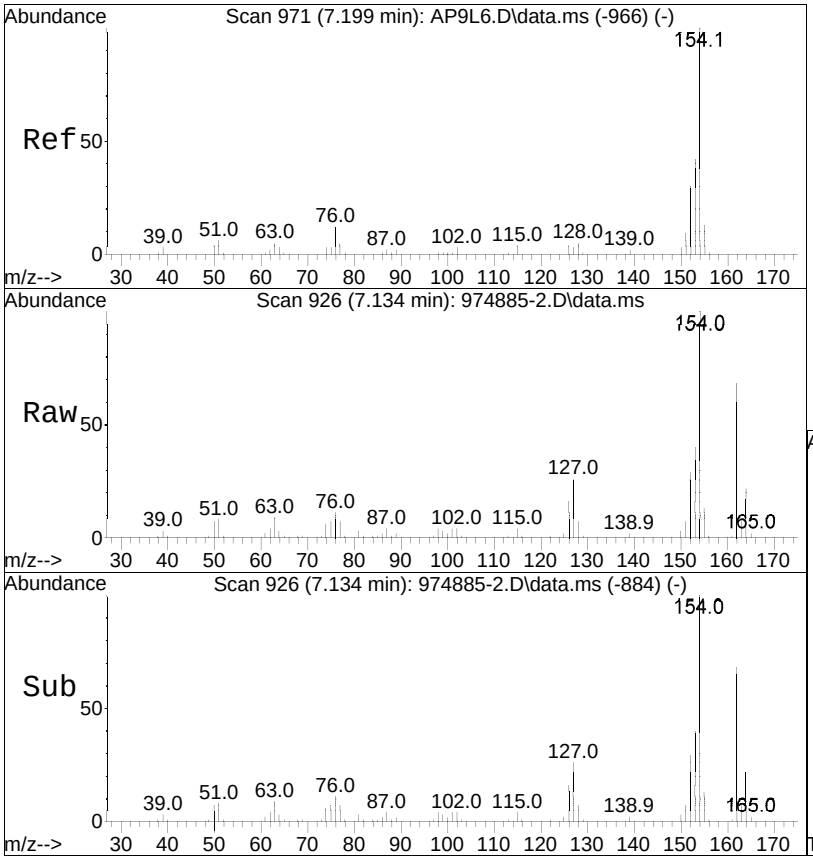


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.29 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. -0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:216 Resp: 10485

Ion	Ratio	Lower	Upper
216	100		
214	81.5	64.0	96.0
179	19.7	18.7	28.1

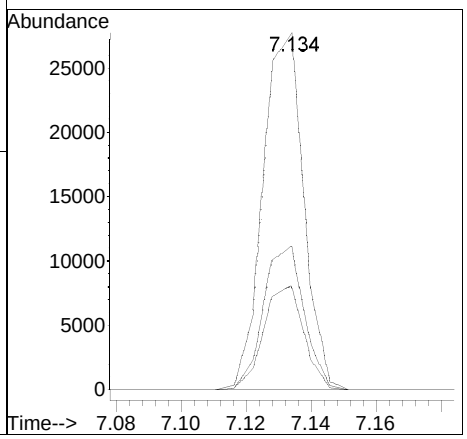


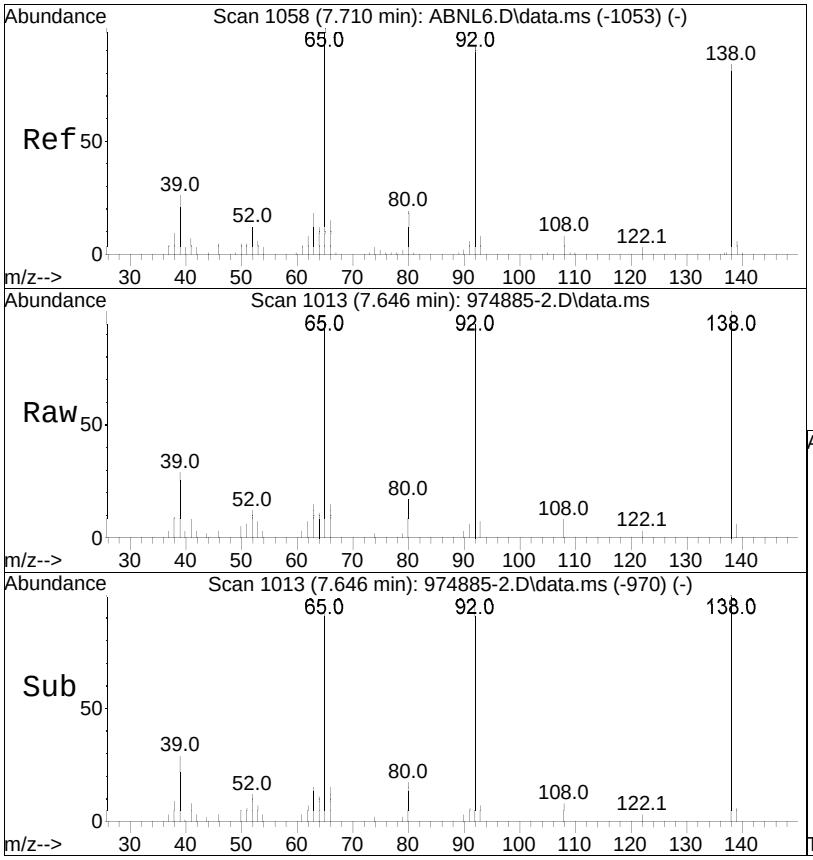


#62
Biphenyl
Concen: 1.38 ug/ml
RT: 7.134 min Scan# 926
Delta R.T. -0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:154 Resp: 23959

Ion	Ratio	Lower	Upper
154	100		
153	40.4	32.5	48.7
152	29.1	22.6	34.0

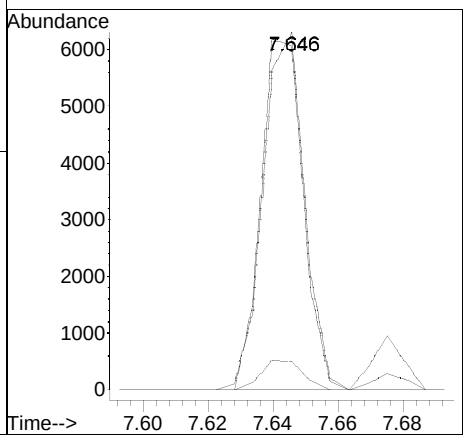


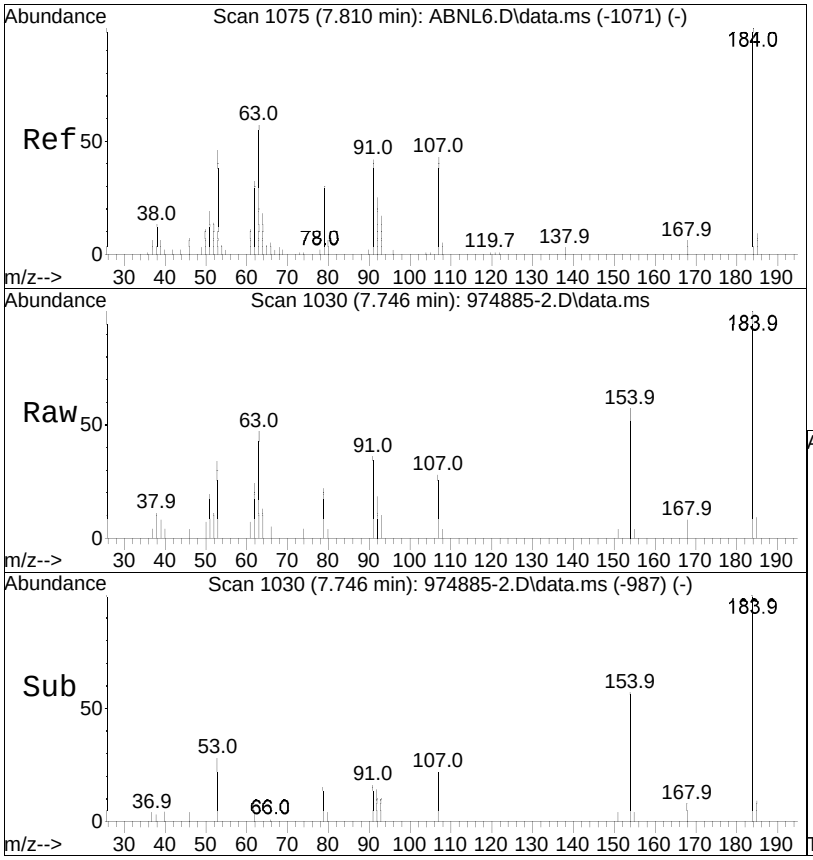


#64
3-Nitroaniline
Concen: 1.74 ug/ml
RT: 7.646 min Scan# 1013
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:138 Resp: 5521

Ion	Ratio	Lower	Upper
138	100		
92	100.1	92.8	139.2
108	11.6	7.9	11.9

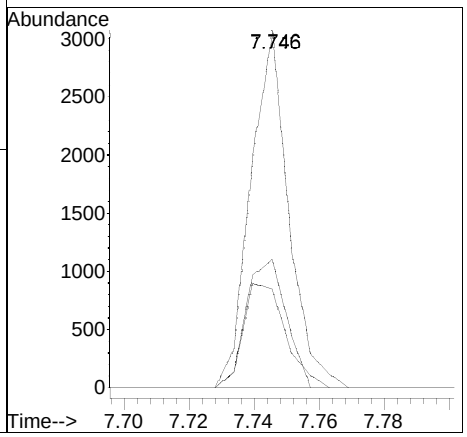


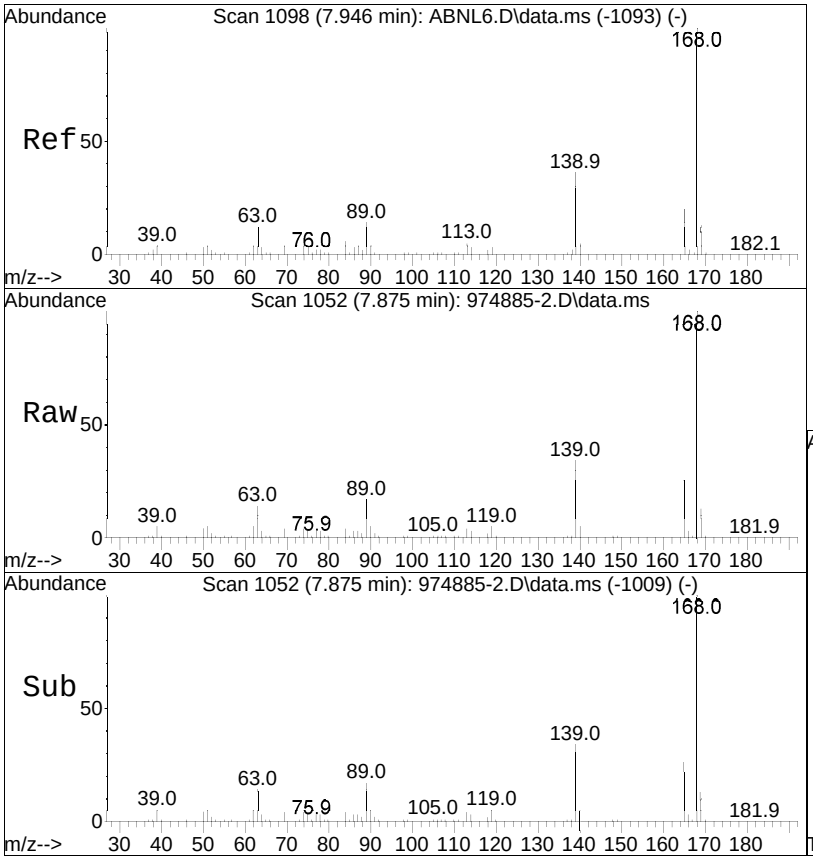


#66
2,4-Dinitrophenol
Concen: 1.72 ug/ml
RT: 7.746 min Scan# 1030
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:184 Resp: 2460

Ion	Ratio	Lower	Upper
184	100		
107	32.7	41.8	62.6#
91	38.1	44.2	66.2#

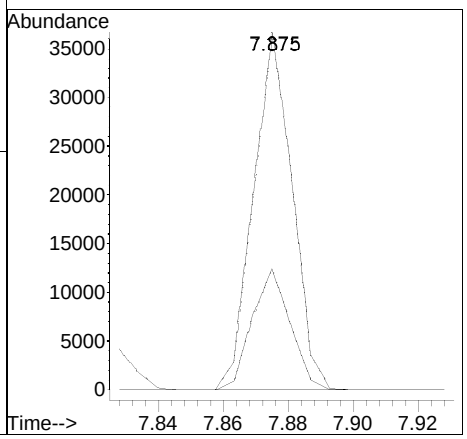


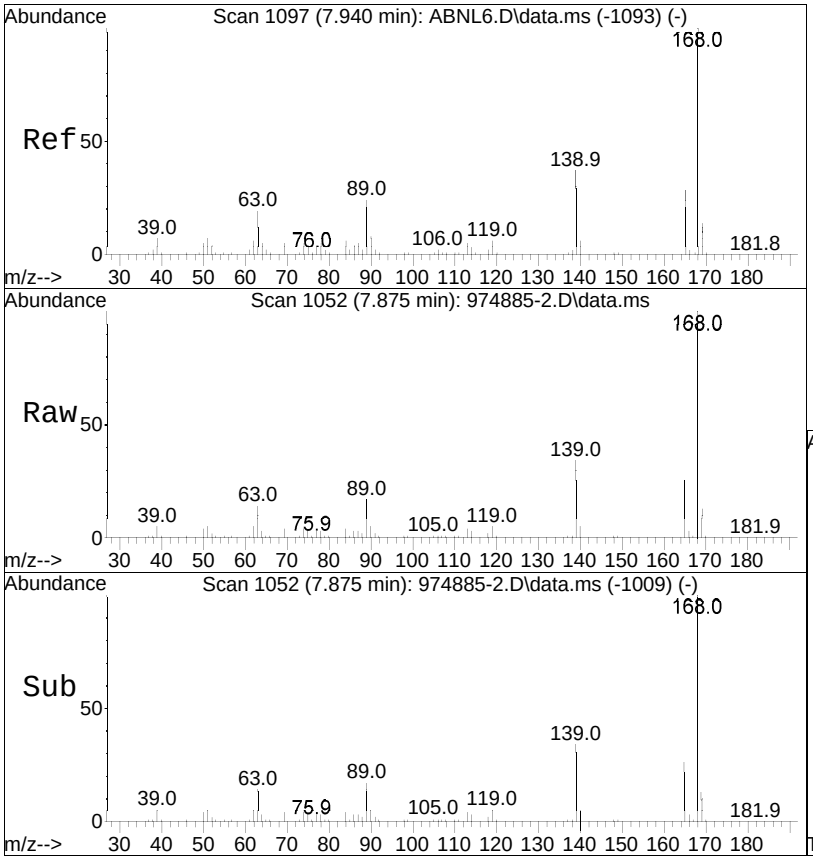


#67
Dibenzofuran
Concen: 1.54 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:168 Resp: 29996

Ion	Ratio	Lower	Upper
168	100		
139	33.5	32.3	48.5

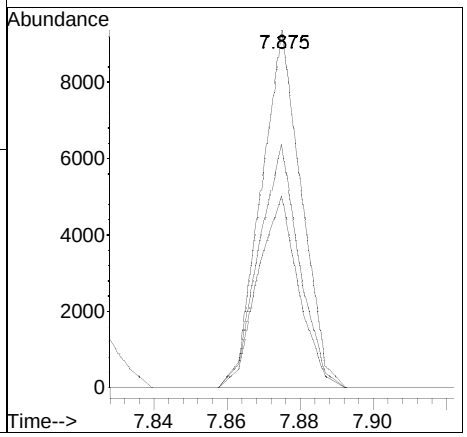


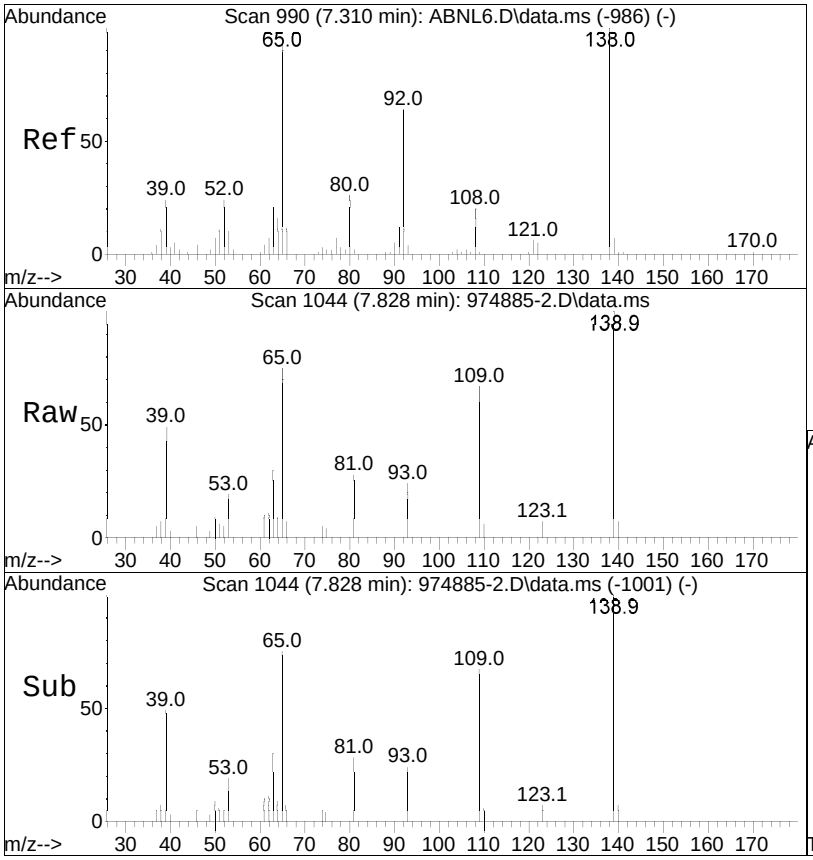


#68
2,4-Dinitrotoluene
Concen: 1.76 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:165 Resp: 7141

Ion	Ratio	Lower	Upper
165	100		
89	68.2	73.0	109.4#
63	54.4	56.3	84.5#

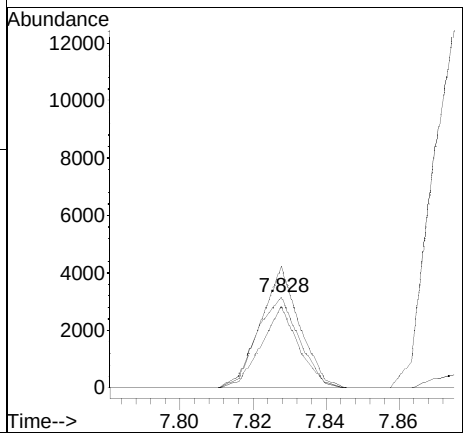


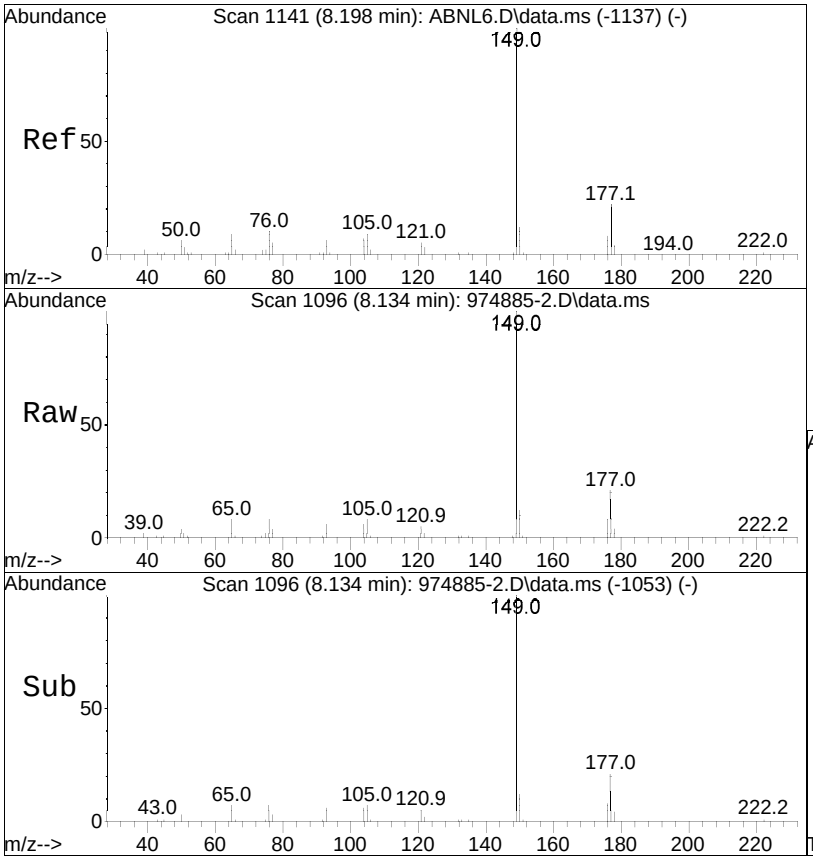


#69
4-Nitrophenol
Concen: 0.84 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion: 65 Resp: 2568

Ion	Ratio	Lower	Upper
65	100		
109	78.9	60.2	90.2
139	121.3	81.1	121.7

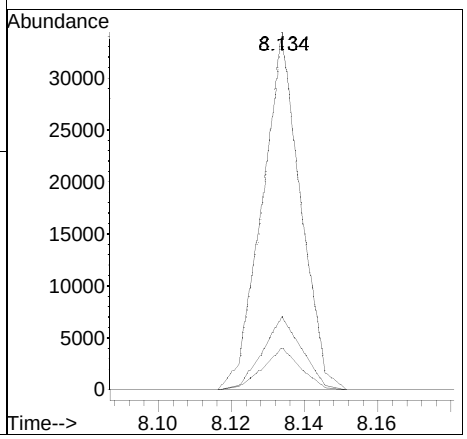


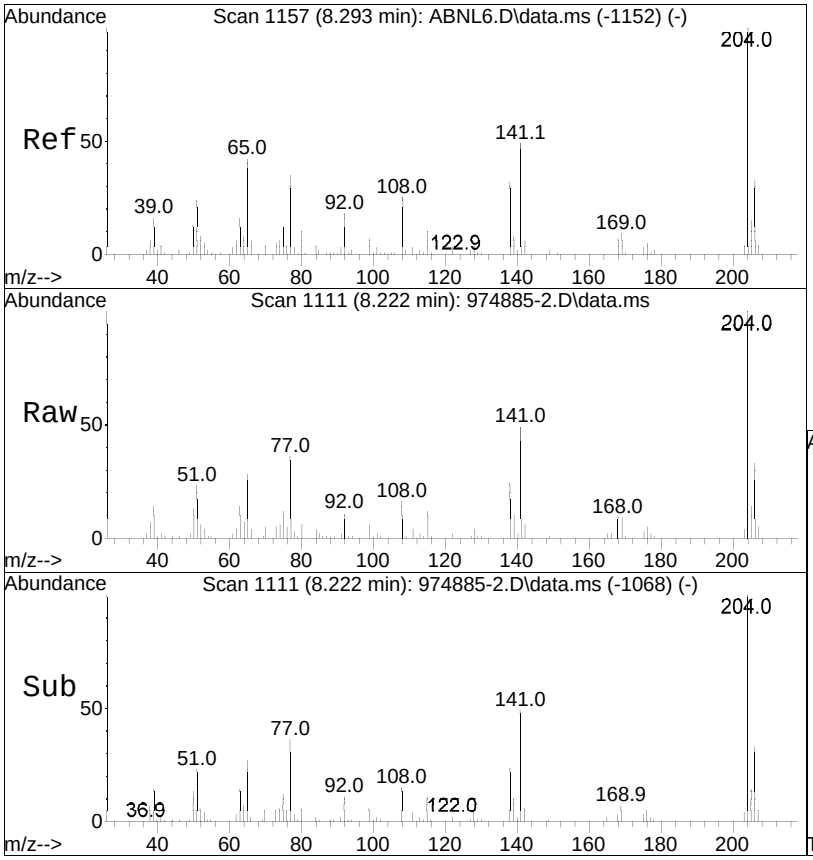


#72
Diethyl phthalate
Concen: 1.57 ug/ml
RT: 8.134 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:149 Resp: 24760

Ion	Ratio	Lower	Upper
149	100		
177	21.1	15.0	22.6
150	11.8	9.8	14.6

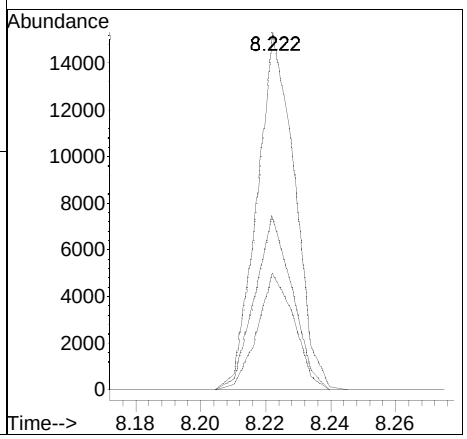


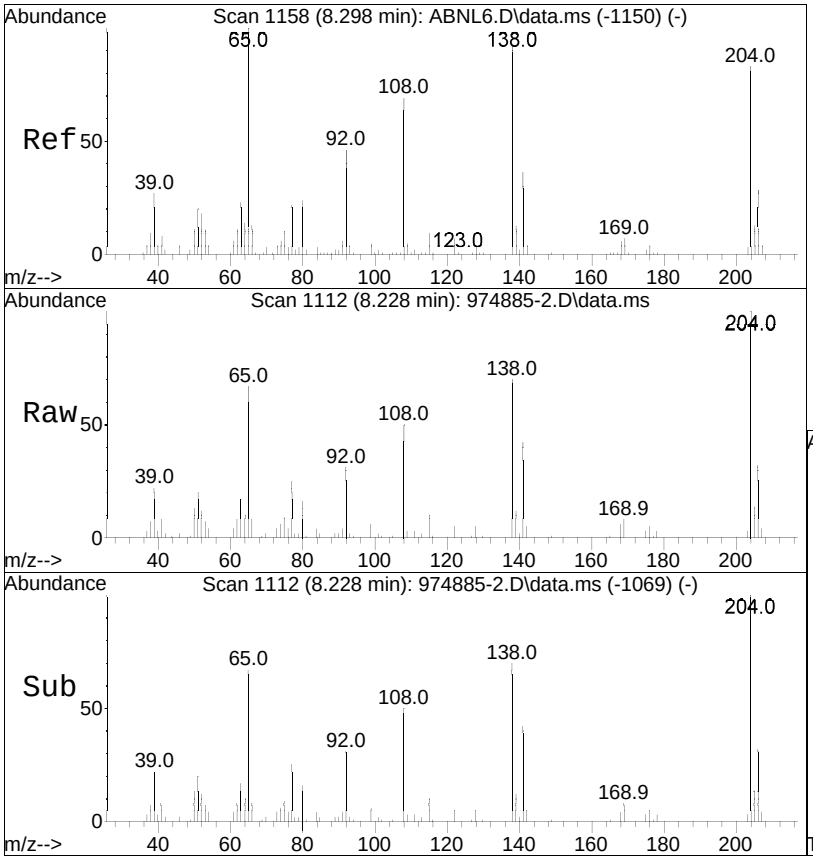


#74
4-Chlorophenyl phenyl ether
Concen: 1.48 ug/ml
RT: 8.222 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:204 Resp: 12259

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.3	39.5
141	48.4	58.4	87.6#

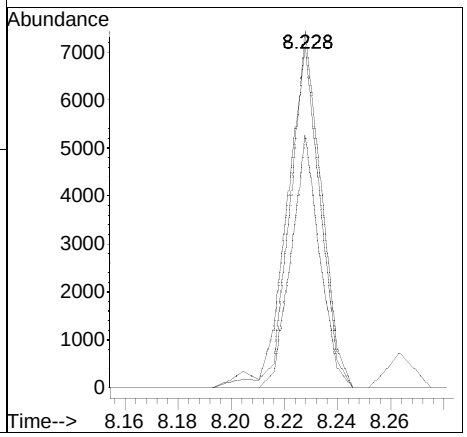


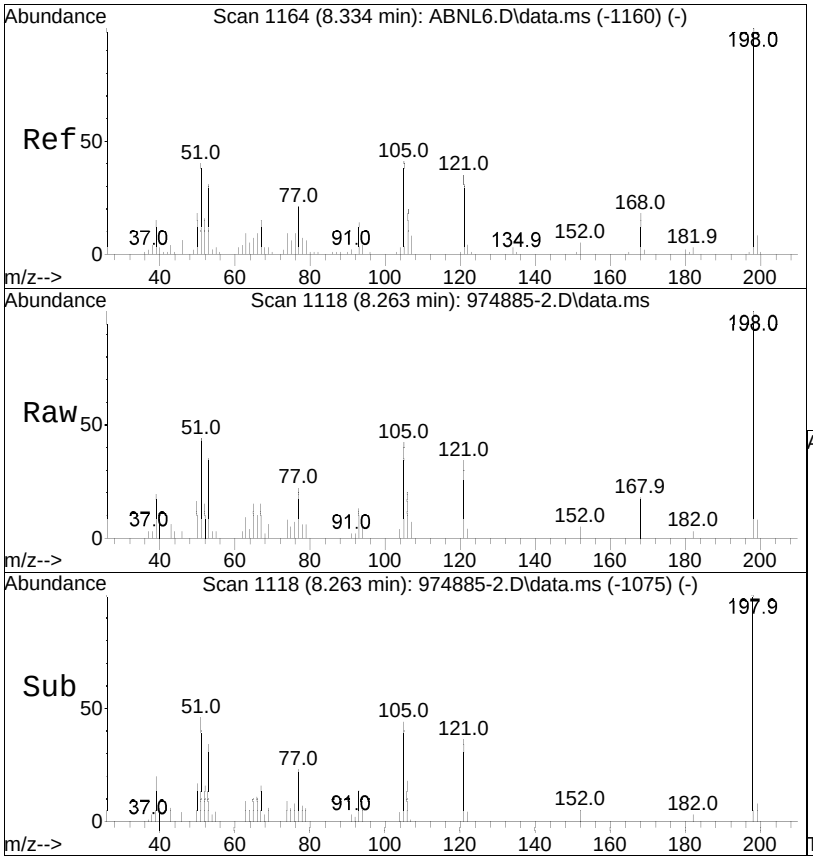


#75
4-Nitroaniline
Concen: 1.82 ug/ml
RT: 8.228 min Scan# 1112
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:138 Resp: 6069

Ion	Ratio	Lower	Upper
138	100		
108	64.1	59.2	88.8
65	100.5	97.6	146.4

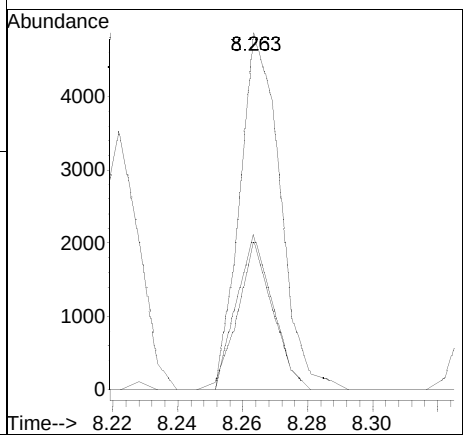


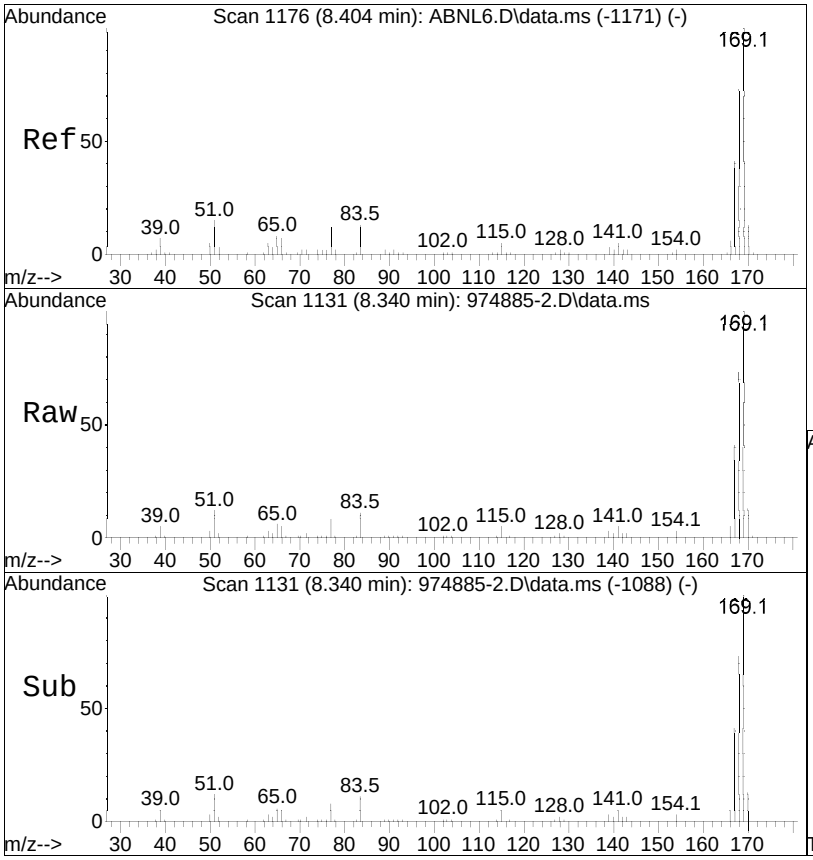


#76
4,6-Dinitro-o-cresol
Concen: 1.77 ug/ml
RT: 8.263 min Scan# 1118
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:198 Resp: 4199

Ion	Ratio	Lower	Upper
198	100		
51	39.1	49.9	74.9#
105	36.3	45.8	68.6#

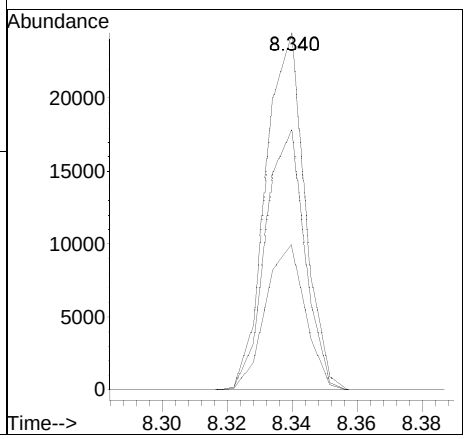


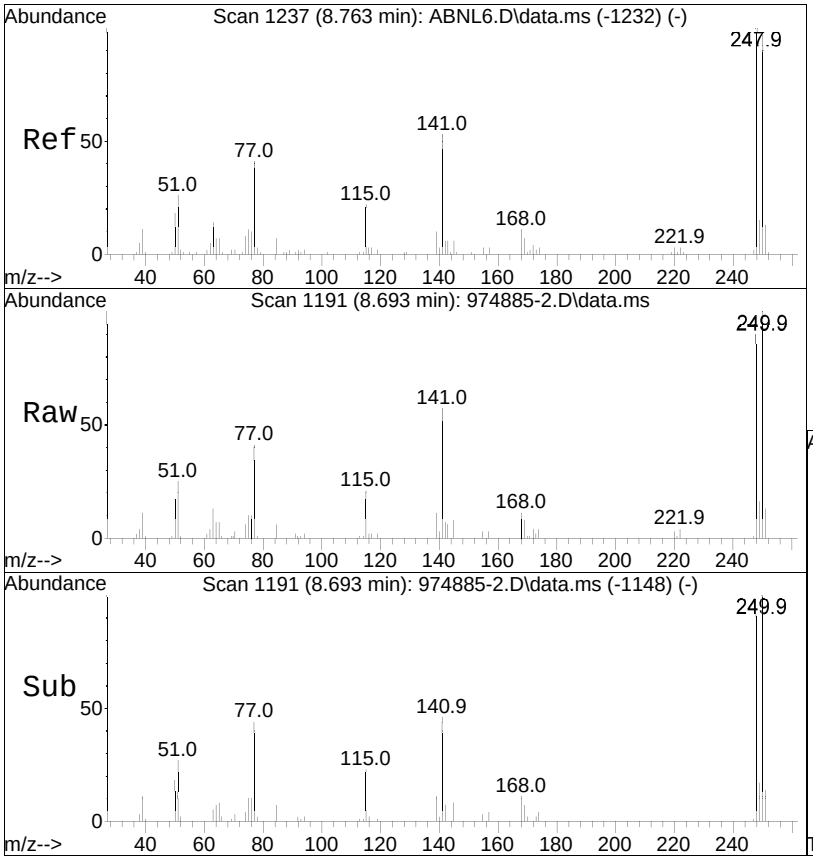


#77
NDPA/DPA
Concen: 1.56 ug/ml
RT: 8.340 min Scan# 1131
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:169 Resp: 20385

Ion	Ratio	Lower	Upper
169	100		
168	73.4	55.2	82.8
167	41.7	30.4	45.6

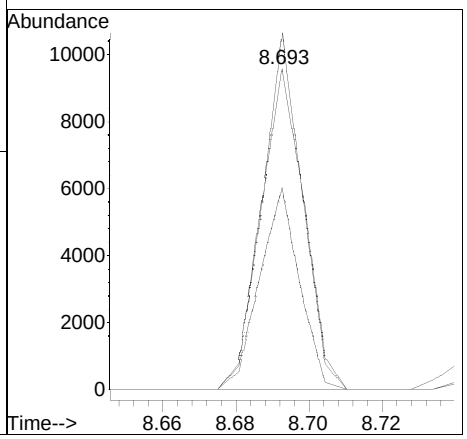


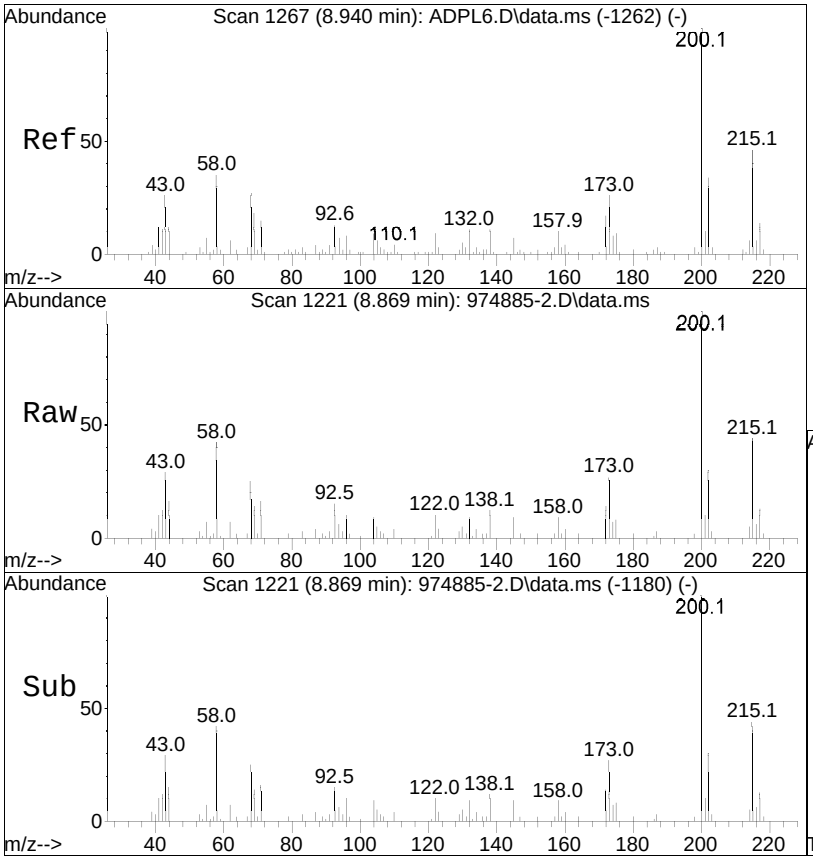


#80
4-Bromophenyl phenyl ether
Concen: 1.48 ug/ml
RT: 8.693 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:248 Resp: 7838

Ion	Ratio	Lower	Upper
248	100		
141	57.7	74.6	111.8#
250	102.4	76.9	115.3

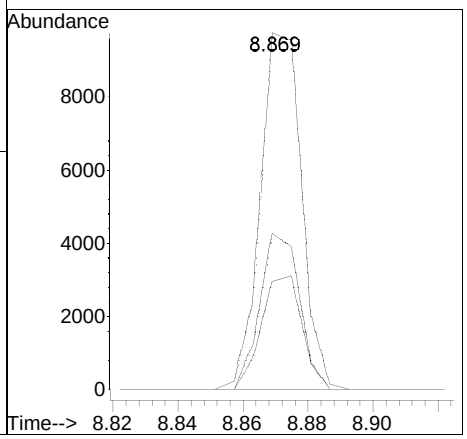


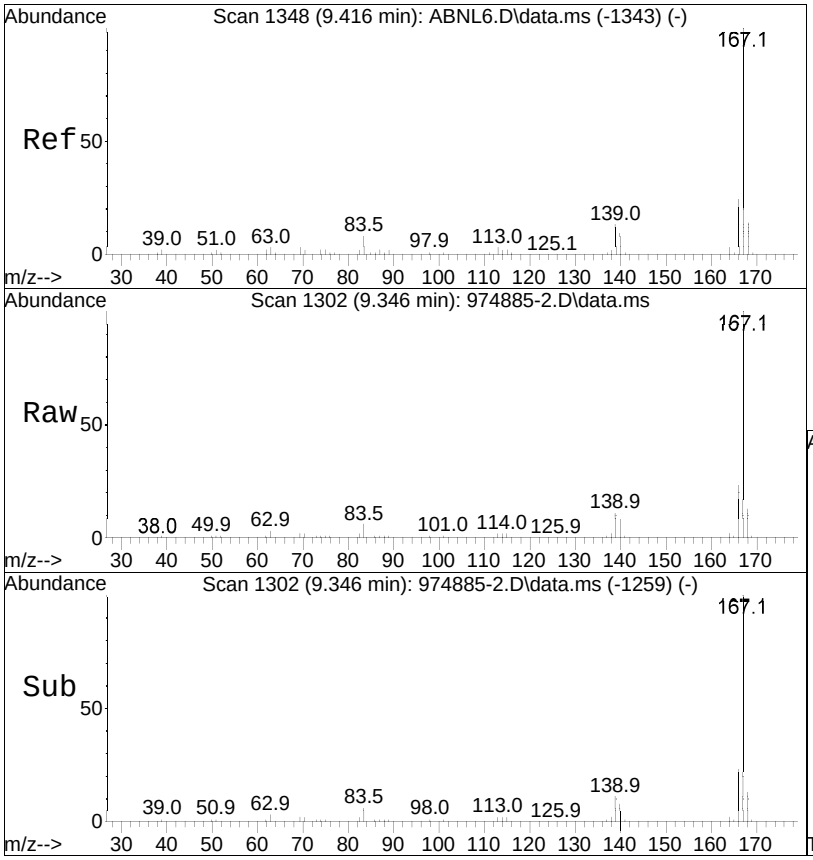


#87
Atrazine
Concen: 1.82 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.006 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:200 Resp: 8514

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.0	37.6
215	42.3	34.5	51.7

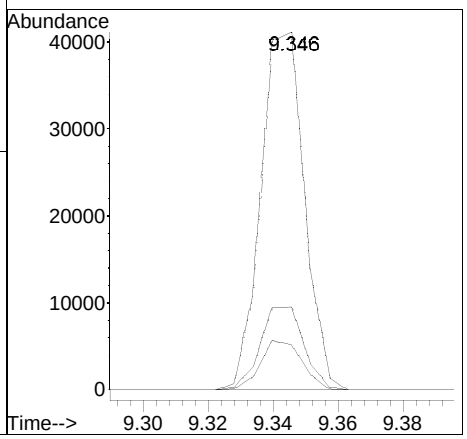


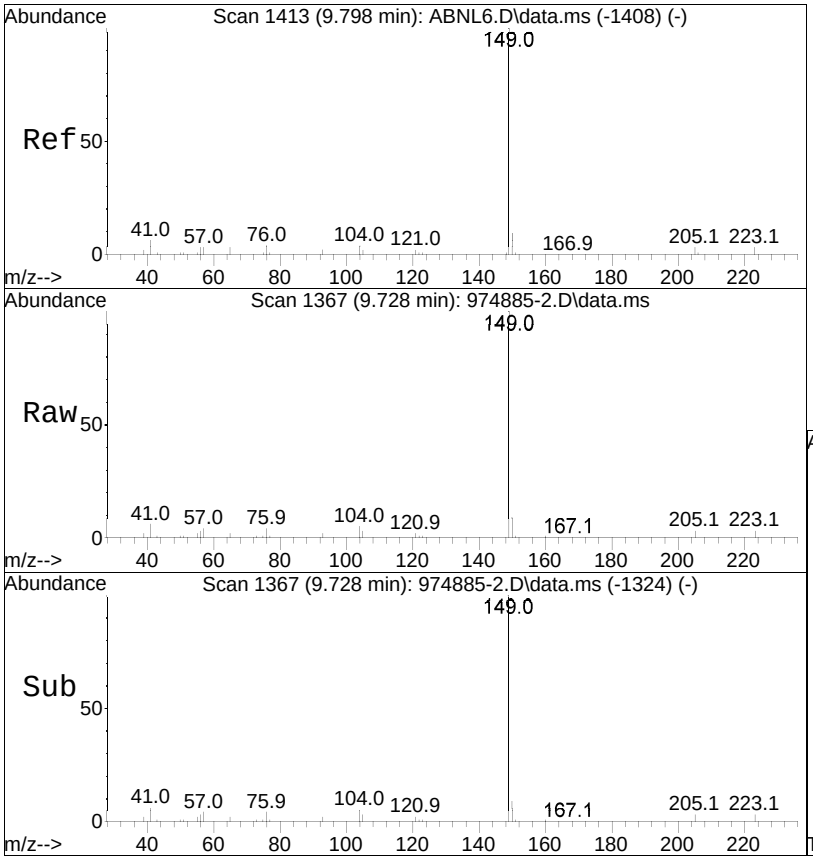


#91
Carbazole
Concen: 1.76 ug/ml
RT: 9.346 min Scan# 1302
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:167 Resp: 38026

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.8	16.2
166	23.5	17.7	26.5

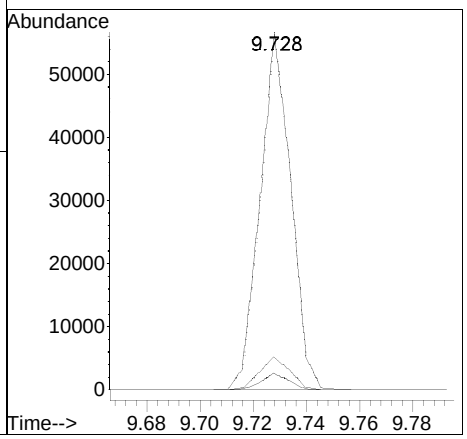


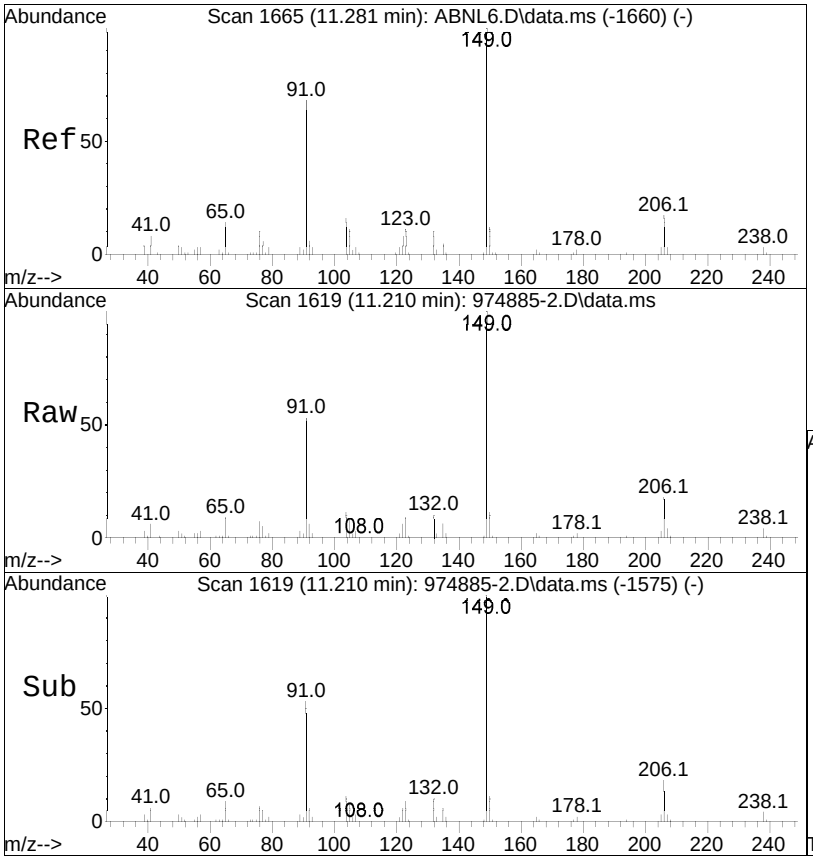


#92
Di-n-butylphthalate
Concen: 1.90 ug/ml
RT: 9.728 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:149 Resp: 44691

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.4	4.0	6.0

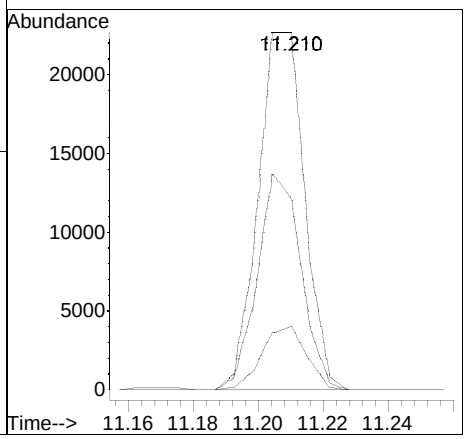


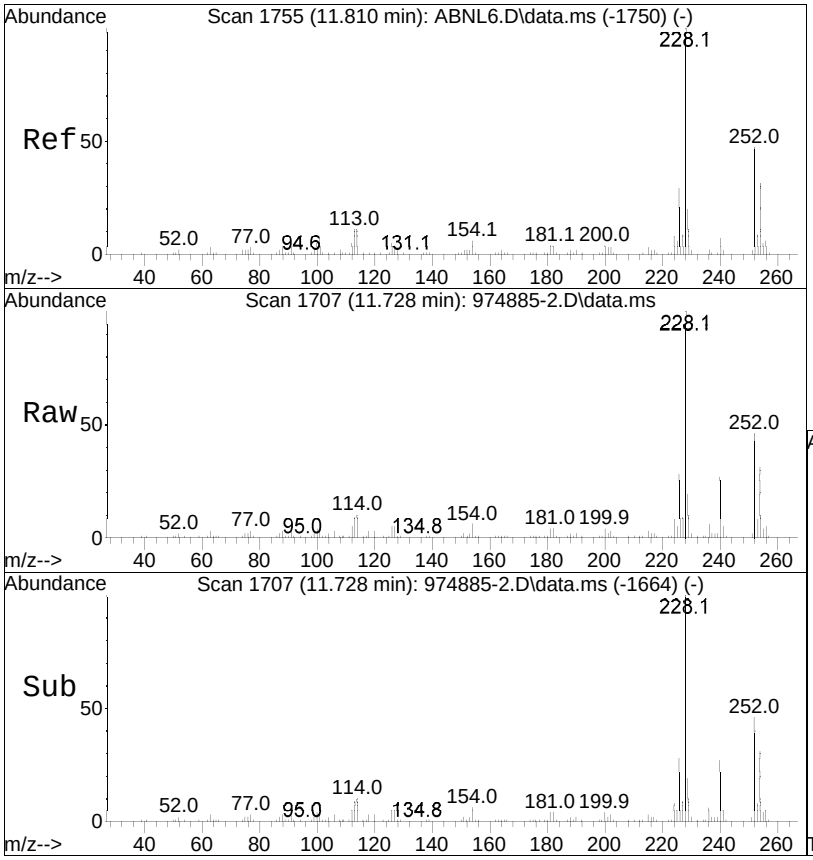


#97
Butyl benzyl phthalate
Concen: 2.13 ug/ml
RT: 11.210 min Scan# 1619
Delta R.T. 0.006 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:149 Resp: 22240

Ion	Ratio	Lower	Upper
149	100		
91	57.1	57.9	86.9#
206	17.2	11.9	17.9

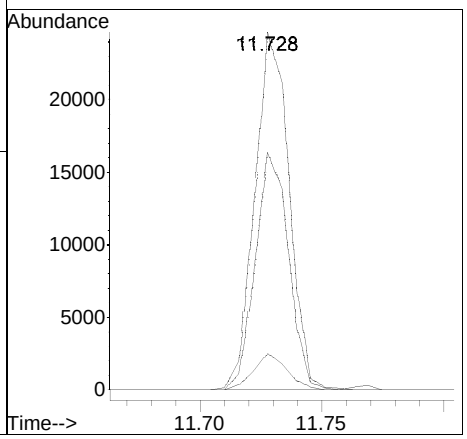


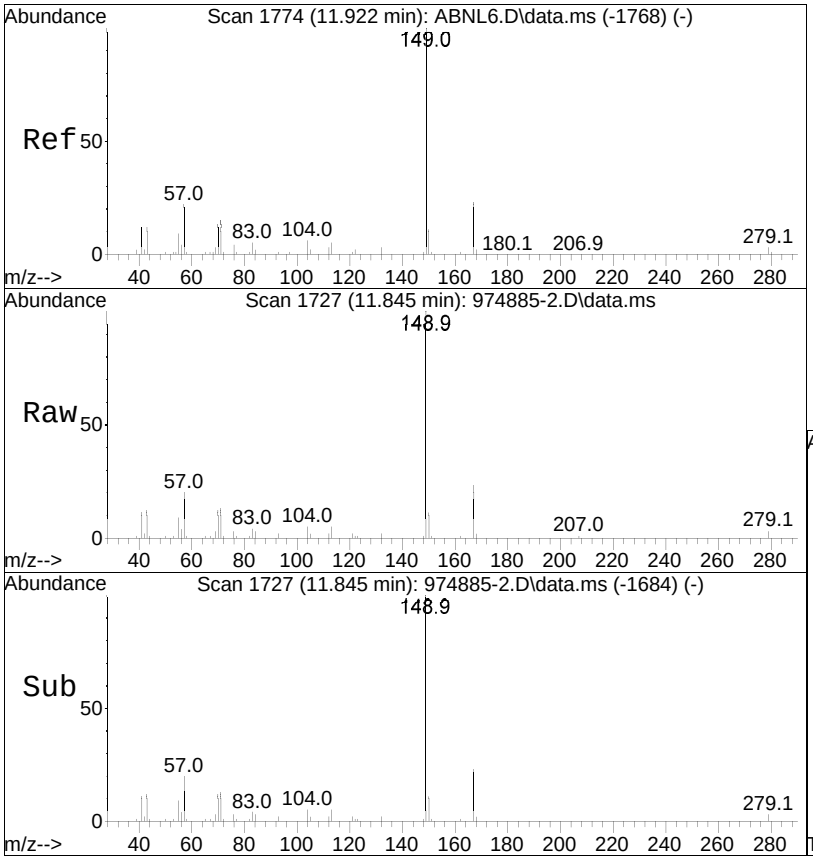


#106
3,3'-Dichlorobenzidine
Concen: 1.87 ug/ml
RT: 11.728 min Scan# 1707
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:252 Resp: 23853

Ion	Ratio	Lower	Upper
252	100		
126	9.9	12.6	19.0#
254	64.5	51.1	76.7

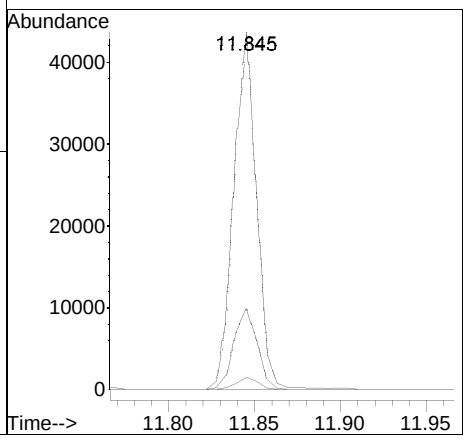


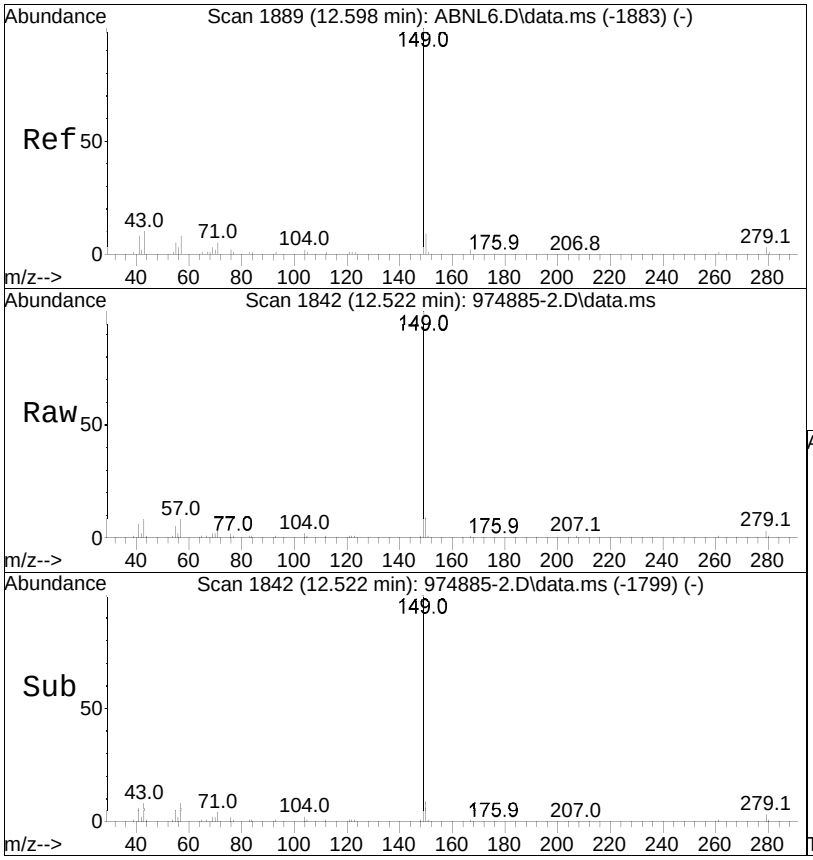


#108
Bis(2-ethylhexyl)phthalate
Concen: 2.28 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:149 Resp: 39779

Ion	Ratio	Lower	Upper
149	100		
167	23.3	18.4	27.6
279	3.0	1.7	2.5#

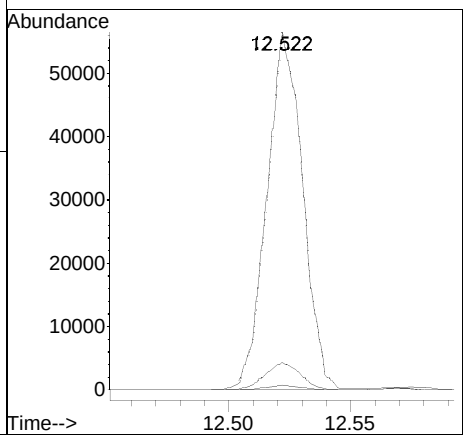




#109
Di-n-octylphthalate
Concen: 2.13 ug/ml
RT: 12.522 min Scan# 1842
Delta R.T. 0.000 min
Lab File: 974885-2.D
Acq: 24 Sep 2024 10:51 am

Tgt Ion:149 Resp: 56885

Ion	Ratio	Lower	Upper
149	100		
43	7.7	8.2	12.2#
167	1.4	1.1	1.7

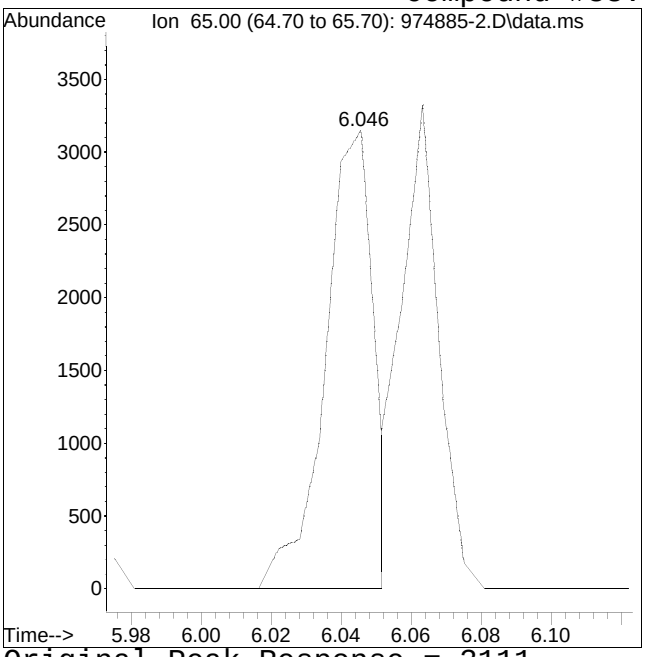


Manual Integration Report

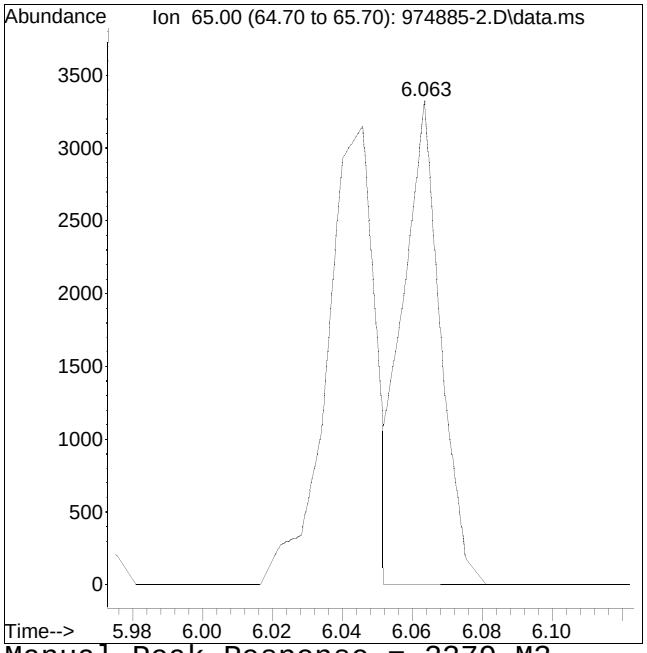
Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-2.D
Date Inj'd : 9/24/2024 10:51 am
Sample : WG1974885-2,32,,gmr

QMethod : FS240625SV112RVT.m
Operator : SV112:slr
Instrument : SV112
Quant Date : 9/24/2024 11:09 am

Compound #38: 4-Chloroaniline



Original Peak Response = 3111



Manual Peak Response = 2379 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-3.D
Acq On : 24 Sep 2024 11:13 am
Operator : SV112:slr
Sample : WG1974885-3,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 13:23:06 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.740	152	18392	4.000	ug/ml		0.00
Standard Area 1 = 17786			Recovery = 103.41%				
27) IS2_1,4-Dichlorobenzen...	4.740	152	18392	4.000	ug/ml		0.00
Standard Area 3 = 17349			Recovery = 106.01%				
32) IS3_1,4-Dichlorobenzen...	4.740	152	18392	4.000	ug/ml		0.00
Standard Area 2 = 17404			Recovery = 105.68%				
35) IS1_Naphthalene-d8	5.975	136	68753	4.000	ug/ml		0.00
Standard Area 1 = 66392			Recovery = 103.56%				
55) IS2_Naphthalene-d8	5.975	136	68753	4.000	ug/ml		0.00
Standard Area 3 = 63812			Recovery = 107.74%				
63) IS1_Acenaphthene-d10	7.675	164	43357	4.000	ug/ml		0.00
Standard Area 1 = 44283			Recovery = 97.91%				
83) IS2_Acenaphthene-d10	7.675	164	43357	4.000	ug/ml		0.00
Standard Area 3 = 39230			Recovery = 110.52%				
86) IS3_Acenaphthene-d10	7.675	164	43357	4.000	ug/ml		0.00
Standard Area 2 = 38891			Recovery = 111.48%				
88) IS1_Phenanthrene-d10	9.104	188	92790	4.000	ug/ml	#	0.00
Standard Area 1 = 94364			Recovery = 98.33%				
100) IS3_Phenanthrene-d10	9.104	188	92790	4.000	ug/ml	#	0.00
Standard Area 2 = 87342			Recovery = 106.24%				
104) IS1_Chrysene-d12	11.740	240	112187	4.000	ug/ml	#	0.00
Standard Area 1 = 112377			Recovery = 99.83%				
113) IS1_Perylene-d12	13.210	264	135876	4.000	ug/ml		0.00
Standard Area 1 = 132148			Recovery = 102.82%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.475	112	3347	0.693	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.65%				
7) Phenol-d6	4.416	99	3198	0.513	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.65%				
19) Nitrobenzene-d5	5.281	82	3697	0.621	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.10%				
46) 2-Fluorobiphenyl	7.040	172	10285	0.662	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.20%				
79) 2,4,6-Tribromophenol	8.440	330	2875	1.033	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.65%				

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-3.D
Acq On : 24 Sep 2024 11:13 am
Operator : SV112:slr
Sample : WG1974885-3,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 13:23:06 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.687	244	18661	0.782	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 78.20%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.534	128	5814	1.011	ug/ml	92
8) Phenol	4.428	94	4433	0.611	ug/ml#	29
14) Bis(2-chloroisopropyl)...	5.034	45	10312	1.521	ug/ml#	71
15) 2-Methylphenol	5.016	108	5943	1.223	ug/ml	93
17) n-Nitrosodi-n-propylamine	5.158	70	5004	1.258	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.175	108	6006	1.135	ug/ml	93
20) Nitrobenzene	5.299	77	7199	1.214	ug/ml	93
21) Isophorone	5.540	82	13775	1.287	ug/ml#	92
22) 2-Nitrophenol	5.616	139	3024	1.145	ug/ml	89
23) 2,4-Dimethylphenol	5.687	107	5597	1.105	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.775	93	9356	1.298	ug/ml	95
25) 2,4-Dichlorophenol	5.852	162	6022	1.136	ug/ml#	89
28) Benzaldehyde	4.311	105	5857	1.165	ug/ml	86
29) Acetophenone	5.140	105	11112	1.270	ug/ml	99
38) 4-Chloroaniline	6.063	65	2456M3	1.213	ug/ml	
40) p-Chloro-m-cresol	6.557	107	6512	1.368	ug/ml	88
43) Hexachlorocyclopentadiene	6.840	237	4387	1.017	ug/ml	99
44) 2,4,6-Trichlorophenol	6.957	196	4250	0.964	ug/ml	94
45) 2,4,5-Trichlorophenol	6.987	196	5127	1.137	ug/ml	95
48) 2-Nitroaniline	7.246	138	6029	1.750	ug/ml#	81
51) Dimethyl phthalate	7.446	163	23692	1.494	ug/ml	98
53) 2,6-Dinitrotoluene	7.487	165	4888	1.648	ug/ml#	81
60) Caprolactam	6.357	55	1470	0.935	ug/ml	92
61) 1,2,4,5-Tetrachloroben...	6.840	216	10292	1.250	ug/ml#	95
62) Biphenyl	7.134	154	23004	1.304	ug/ml	98
64) 3-Nitroaniline	7.646	138	5647	1.744	ug/ml#	78
66) 2,4-Dinitrophenol	7.746	184	696	0.750	ug/ml#	25
67) Dibenzofuran	7.875	168	28854	1.449	ug/ml	91
68) 2,4-Dinitrotoluene	7.875	165	7230	1.740	ug/ml#	76
69) 4-Nitrophenol	7.828	65	1438	0.458	ug/ml#	77
72) Diethyl phthalate	8.134	149	24479	1.519	ug/ml	94
74) 4-Chlorophenyl phenyl ...	8.222	204	11689	1.383	ug/ml#	81
75) 4-Nitroaniline	8.228	138	6209	1.822	ug/ml#	81

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-3.D
Acq On : 24 Sep 2024 11:13 am
Operator : SV112:slr
Sample : WG1974885-3,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 13:23:06 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\240924RVT\ABN0924.D
: 2 - I:\8270\SV112\240924RVT\ADP0924.D
: 3 - I:\8270\SV112\240924RVT\AP90924a.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	8.263	198	2520	1.135	ug/ml#	68
77)	NDPA/DPA	8.340	169	20129	1.509	ug/ml	94
80)	4-Bromophenyl phenyl e...	8.693	248	7586	1.401	ug/ml#	82
87)	Atrazine	8.869	200	8004	1.673	ug/ml	97
91)	Carbazole	9.346	167	36917	1.679	ug/ml	98
92)	Di-n-butylphthalate	9.728	149	44353	1.849	ug/ml	98
97)	Butyl benzyl phthalate	11.204	149	21261	2.003	ug/ml#	86
106)	3,3'-Dichlorobenzidine	11.728	252	23809	1.814	ug/ml#	97
108)	Bis(2-ethylhexyl)phtha...	11.845	149	37533	2.095	ug/ml#	99
109)	Di-n-octylphthalate	12.522	149	55440	2.020	ug/ml	95

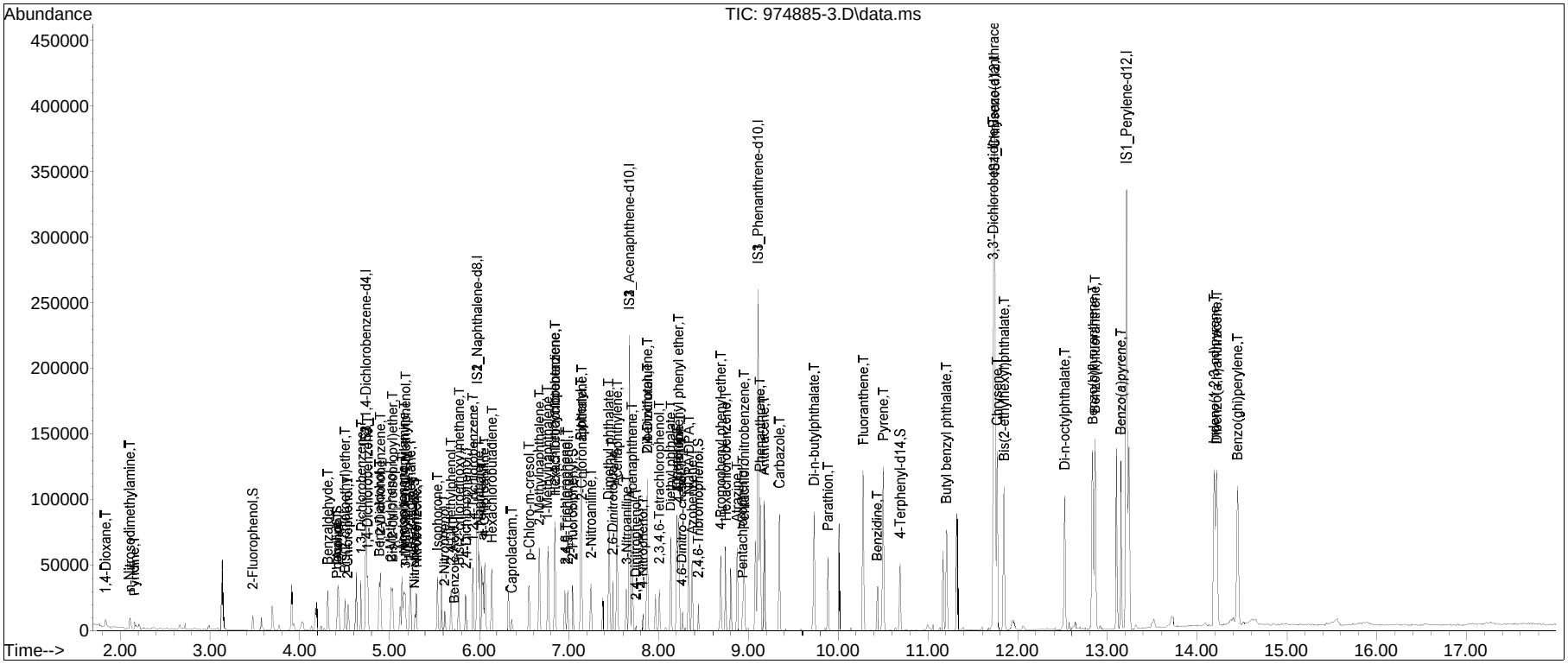
(#) = qualifier out of range (m) = manual integration (+) = signals summed

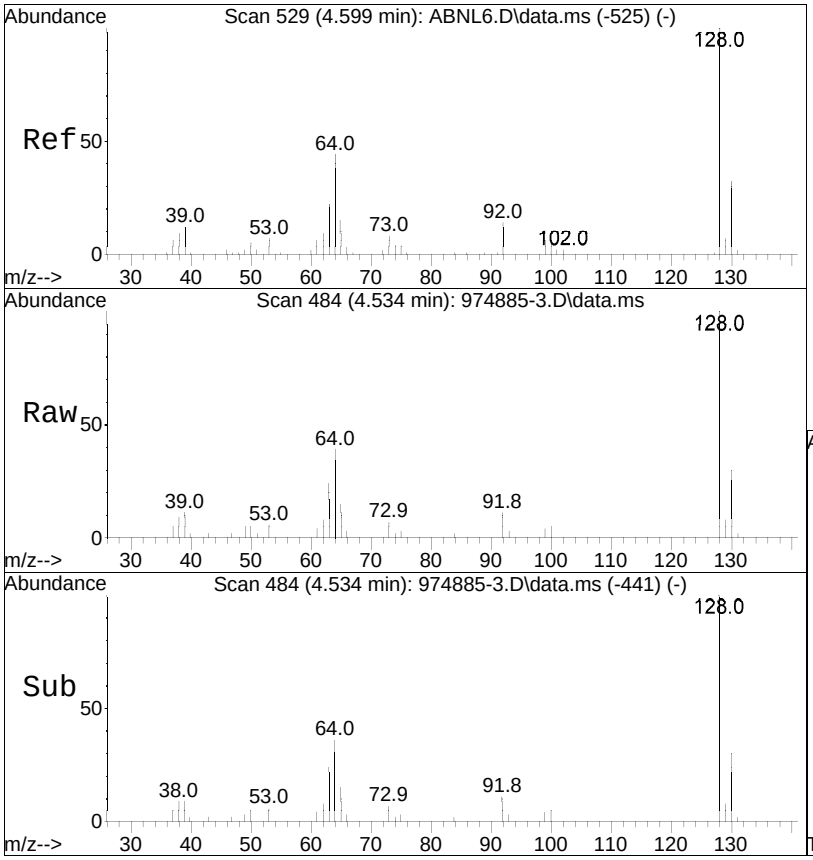
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\240924RVT\
Data File : 974885-3.D
Acq On : 24 Sep 2024 11:13 am
Operator : SV112:slr
Sample : WG1974885-3,32,,gmr
Misc : WG1975506,WG1974885,ical21241
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 13:23:06 2024
Quant Method : I:\8270\SV112\240924RVT\FS240625SV112RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 10:42:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924a.D•

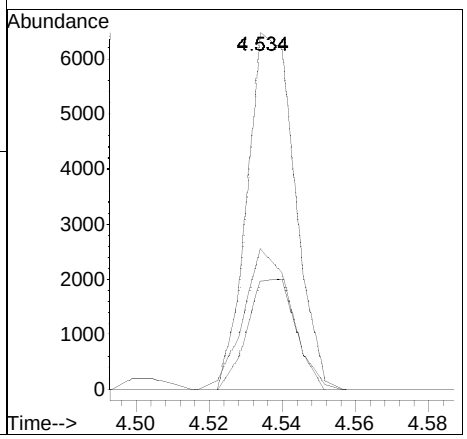


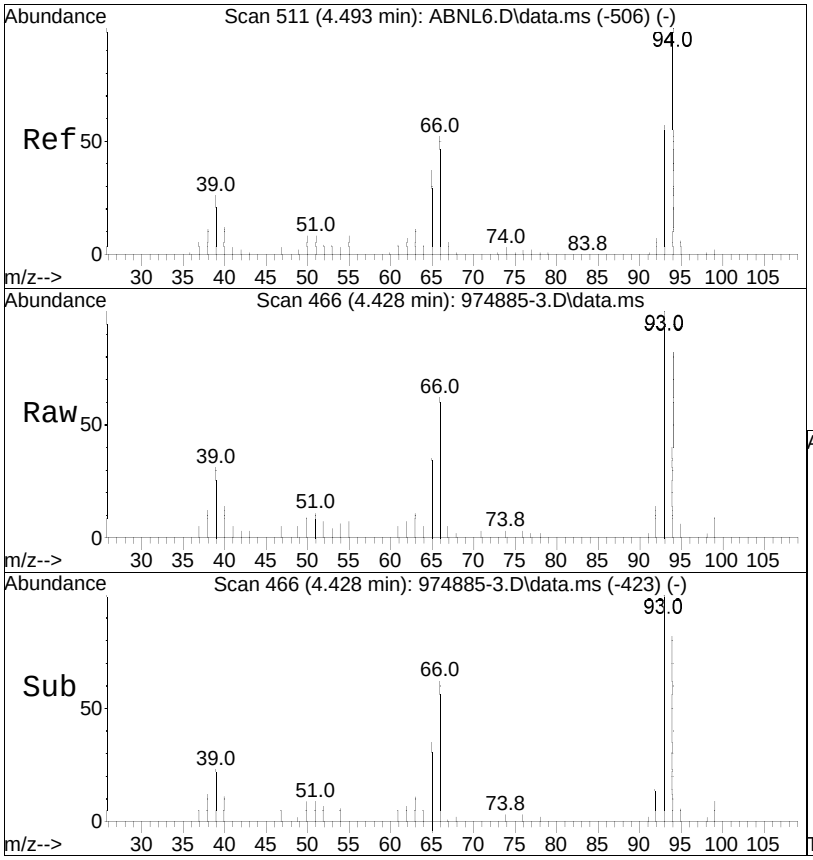


#6
2-Chlorophenol
Concen: 1.01 ug/ml
RT: 4.534 min Scan# 484
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:128 Resp: 5814

Ion	Ratio	Lower	Upper
128	100		
64	39.1	38.2	57.4
130	32.0	26.2	39.2

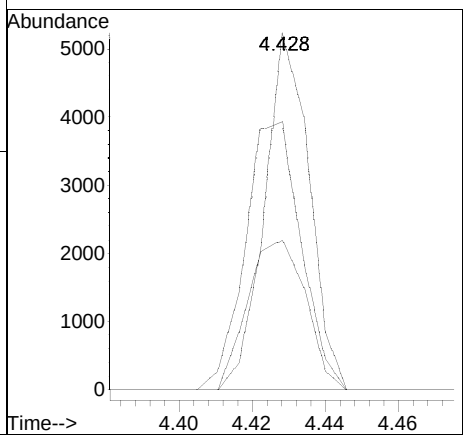


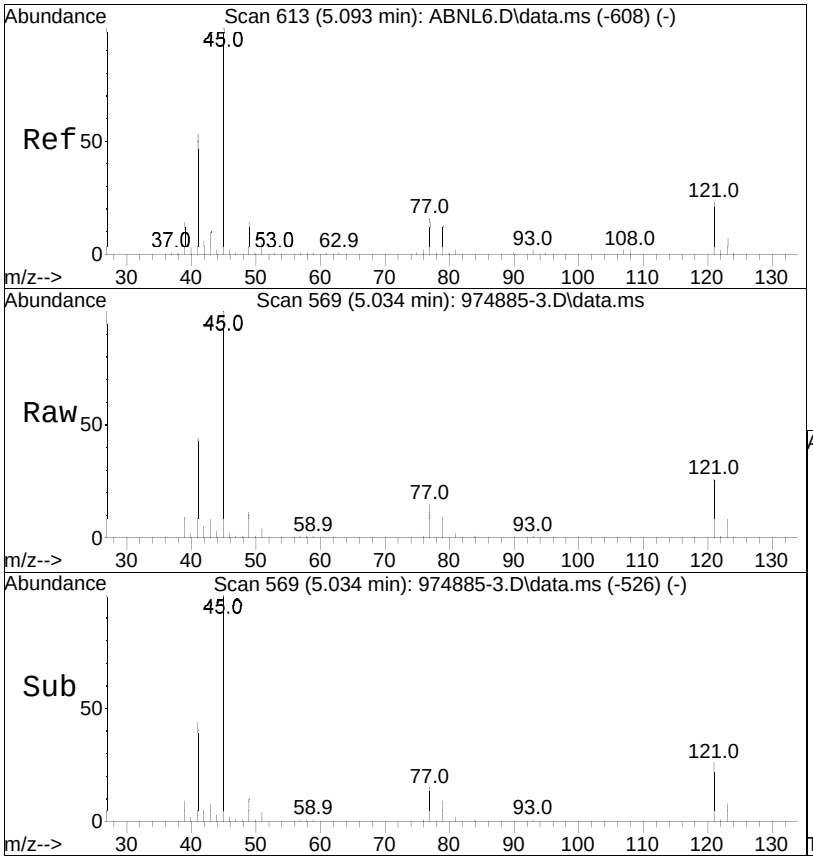


#8
Phenol
Concen: 0.61 ug/ml
RT: 4.428 min Scan# 466
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 94 Resp: 4433

Ion	Ratio	Lower	Upper
94	100		
65	54.6	23.0	34.6#
66	93.8	32.1	48.1#

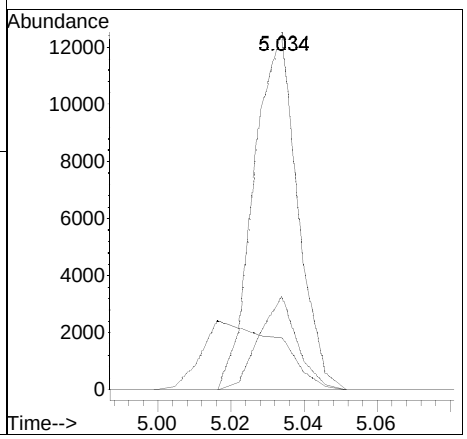


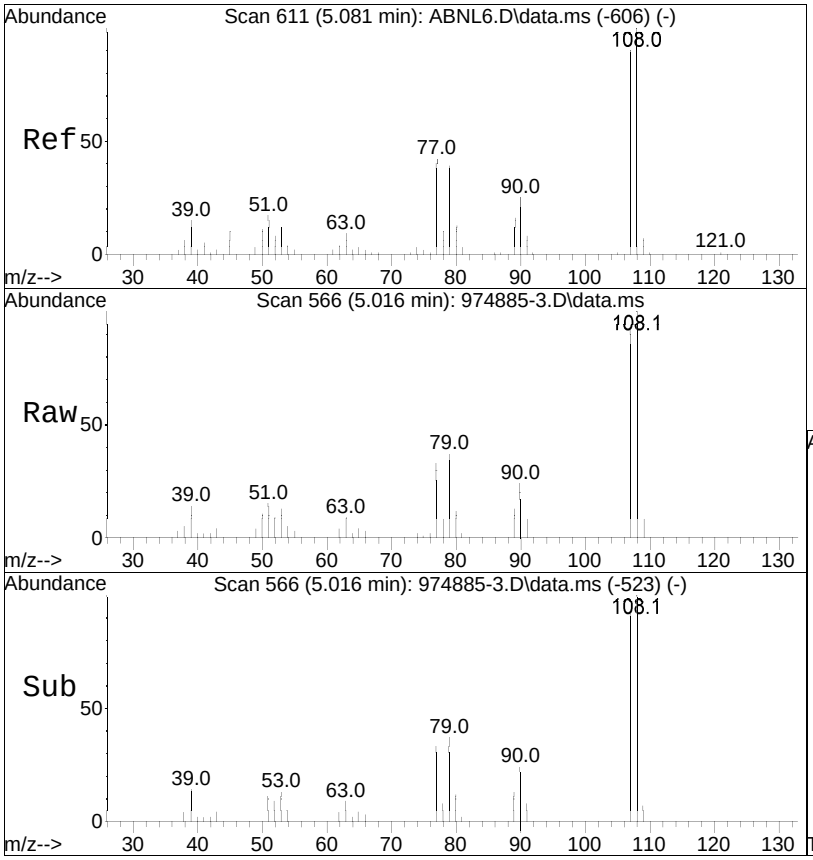


#14
Bis(2-chloroisopropyl)ether
Concen: 1.52 ug/ml
RT: 5.034 min Scan# 569
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 45 Resp: 10312

Ion	Ratio	Lower	Upper
45	100		
121	23.2	14.8	22.2#
77	34.6	10.5	15.7#

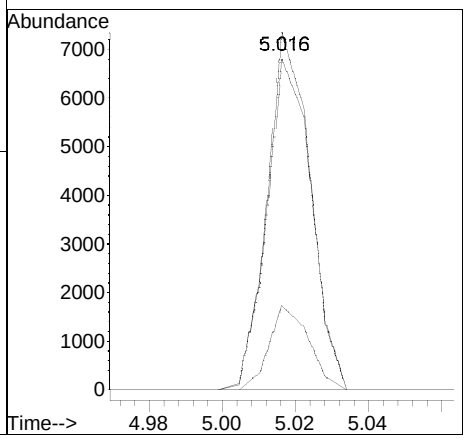


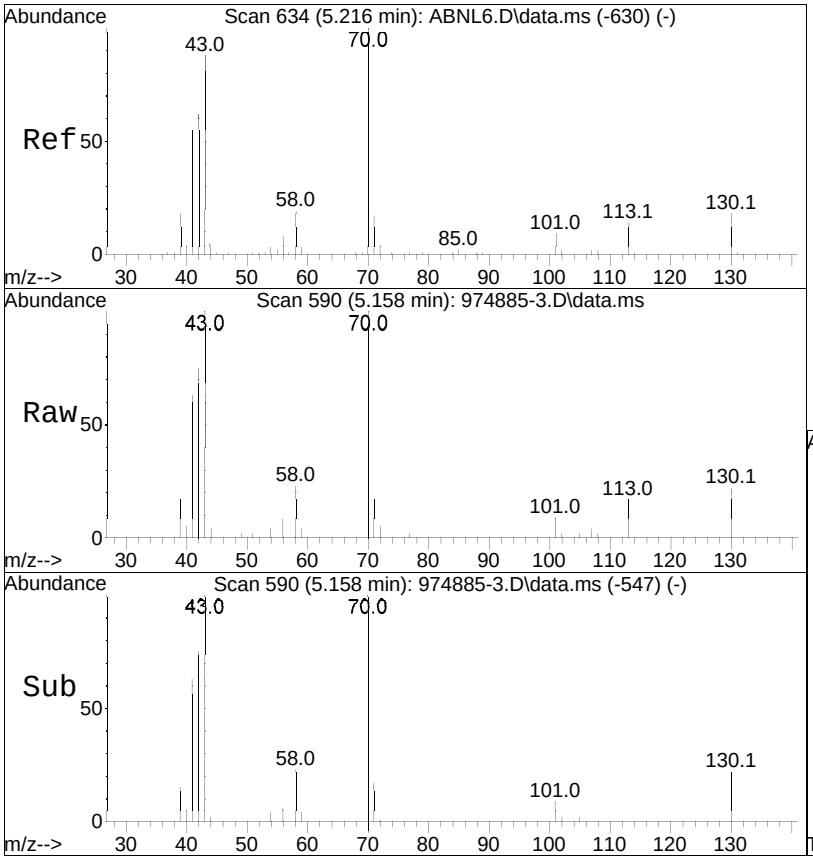


#15
2-Methylphenol
Concen: 1.22 ug/ml
RT: 5.016 min Scan# 566
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:108 Resp: 5943

Ion	Ratio	Lower	Upper
108	100		
107	95.8	71.0	106.4
90	21.8	19.7	29.5

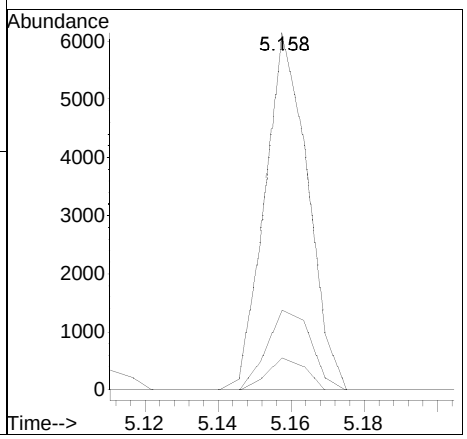


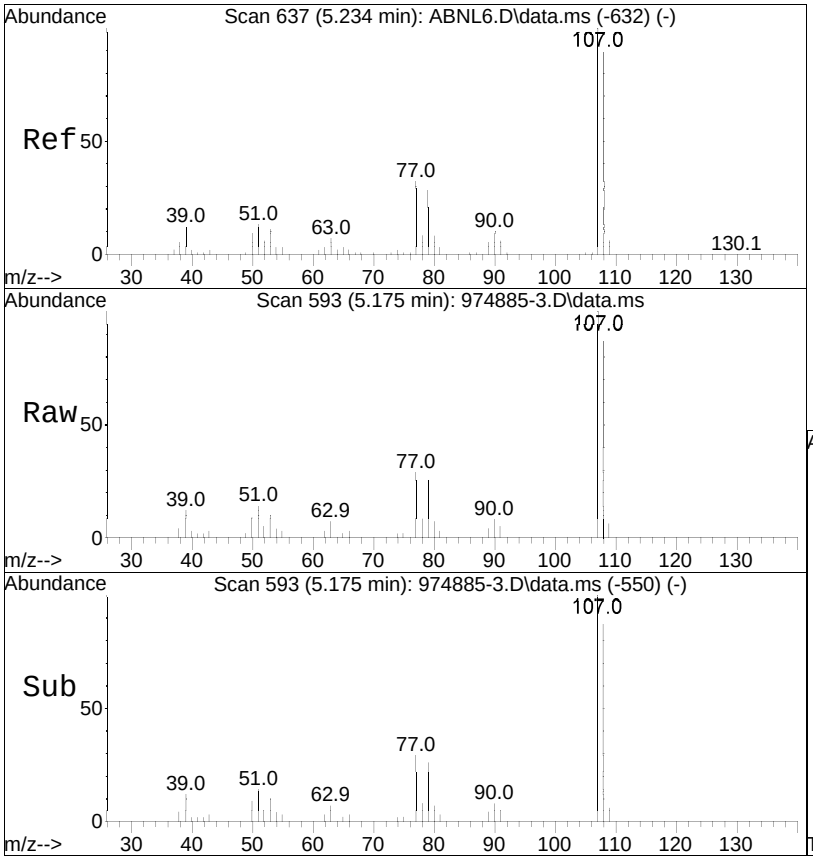


#17
n-Nitrosodi-n-propylamine
Concen: 1.26 ug/ml
RT: 5.158 min Scan# 590
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 70 Resp: 5004

Ion	Ratio	Lower	Upper
70	100		
130	23.0	16.2	24.4
101	0.0	7.6	11.4#

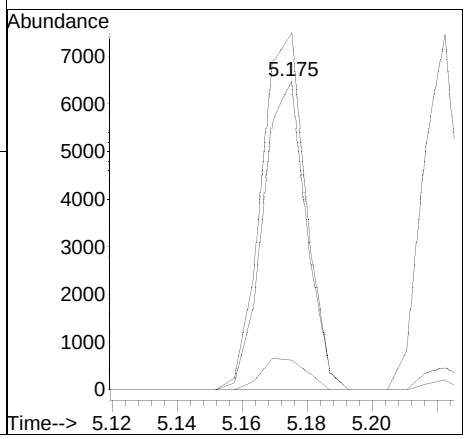


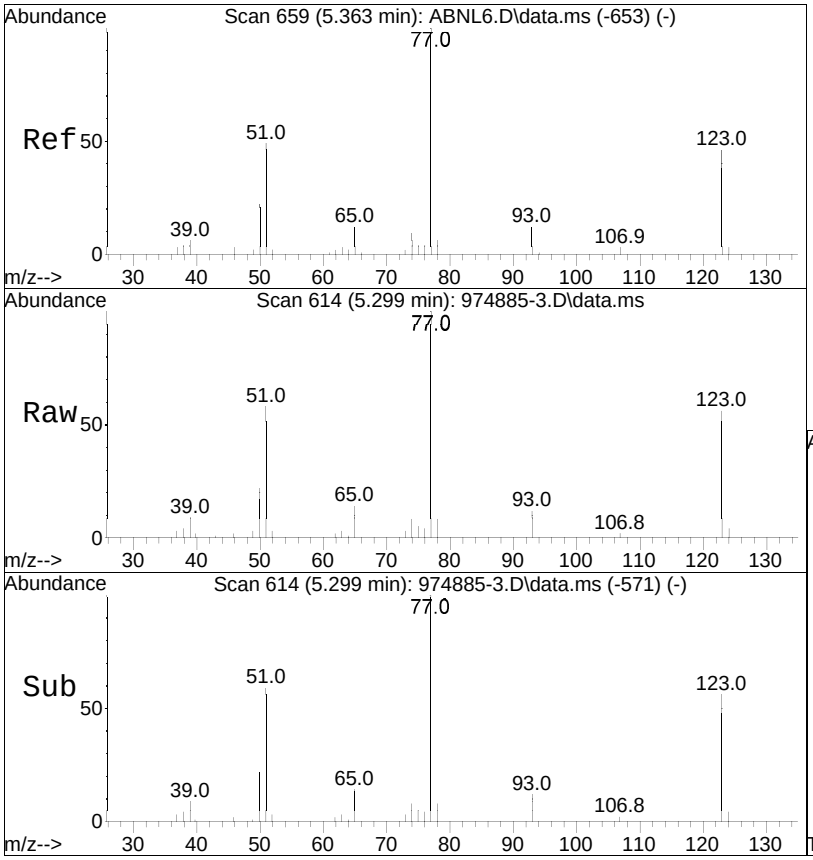


#18
3-Methylphenol/4-Methylphenol
Concen: 1.14 ug/ml
RT: 5.175 min Scan# 593
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:108 Resp: 6006

Ion	Ratio	Lower	Upper
108	100		
107	119.1	88.8	133.2
90	10.4	9.0	13.6

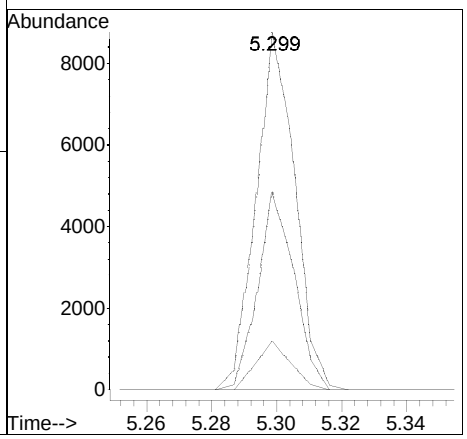


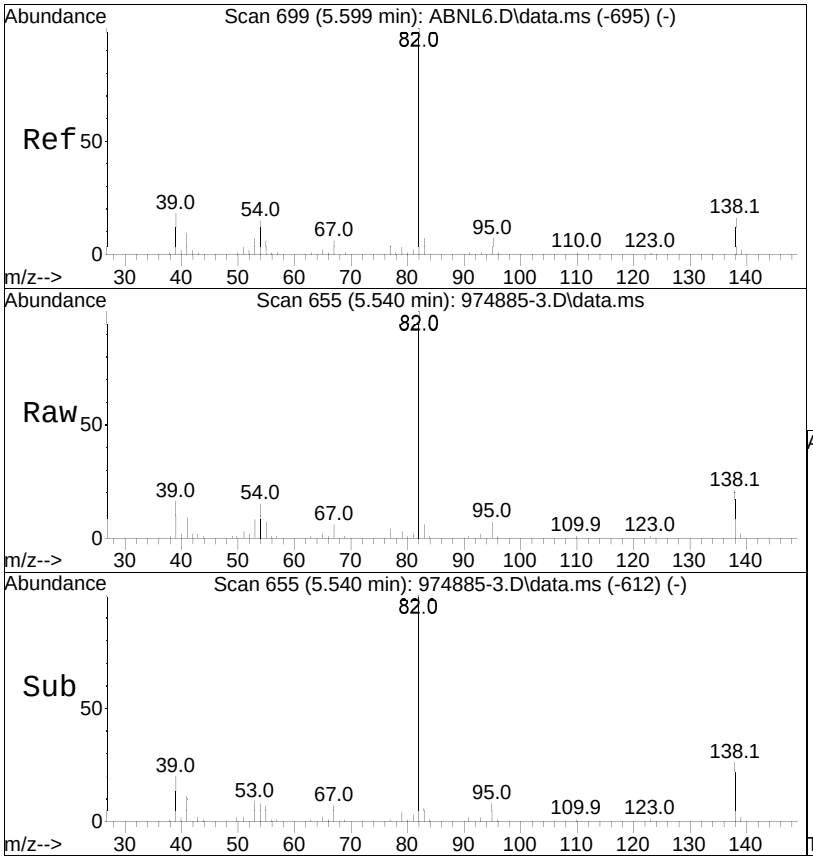


#20
Nitrobenzene
Concen: 1.21 ug/ml
RT: 5.299 min Scan# 614
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 77 Resp: 7199

Ion	Ratio	Lower	Upper
77	100		
123	52.1	37.3	55.9
65	12.4	10.9	16.3

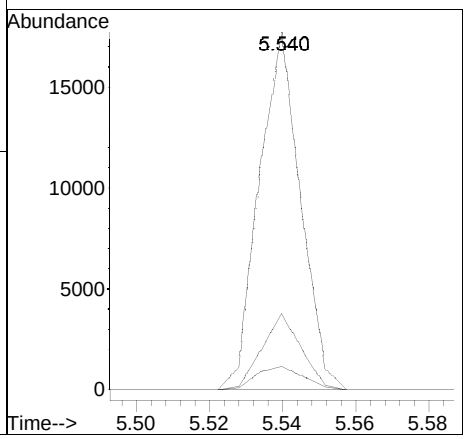


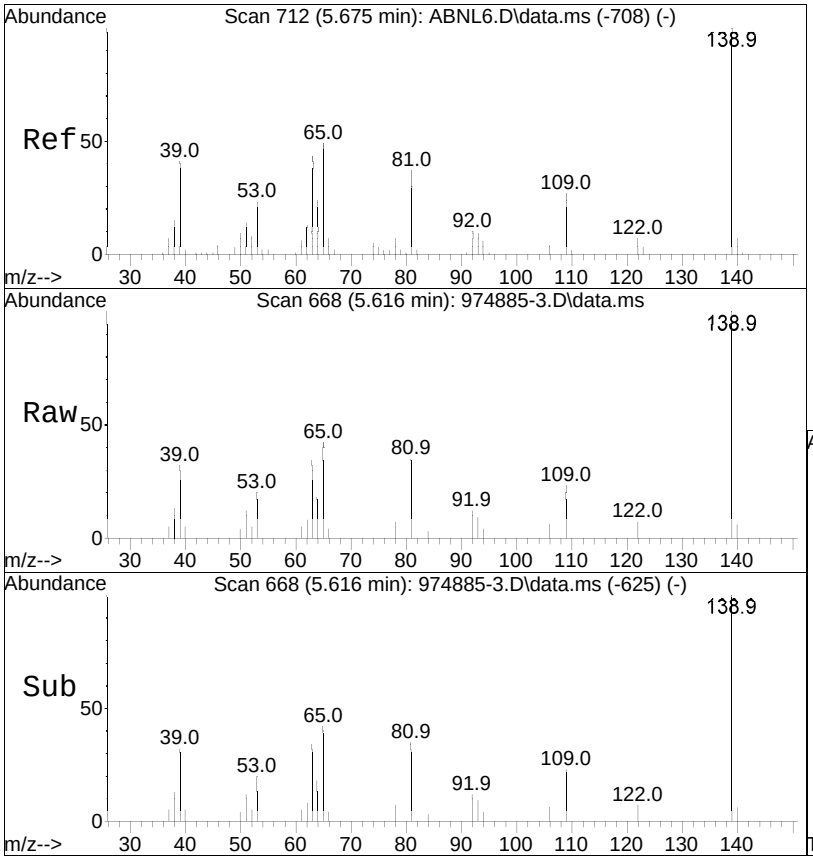


#21
Isophorone
Concen: 1.29 ug/ml
RT: 5.540 min Scan# 655
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 82 Resp: 13775

Ion	Ratio	Lower	Upper
82	100		
138	20.4	13.0	19.4#
95	7.7	5.5	8.3

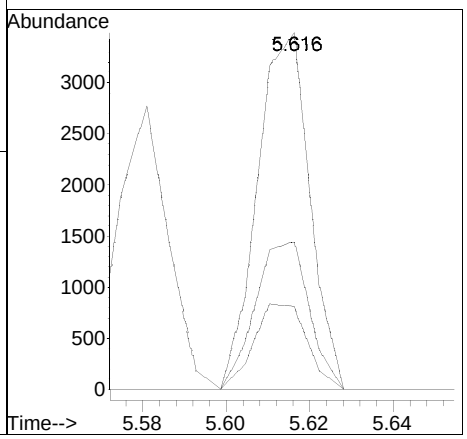


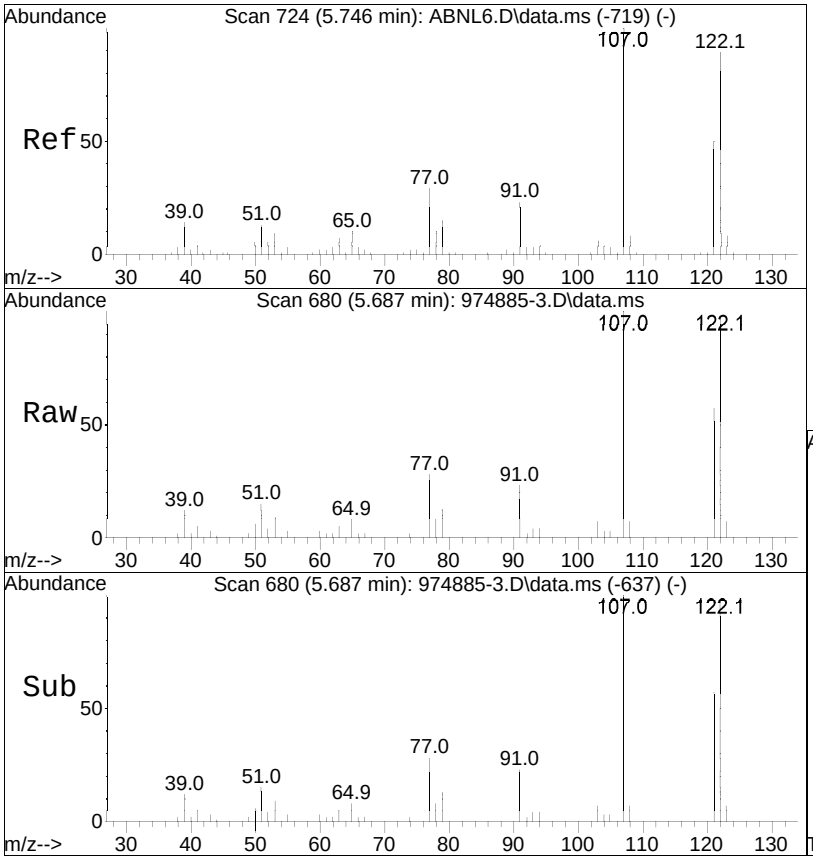


#22
2-Nitrophenol
Concen: 1.15 ug/ml
RT: 5.616 min Scan# 668
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:139 Resp: 3024

Ion	Ratio	Lower	Upper
139	100		
109	24.5	23.1	34.7
65	42.7	41.4	62.2

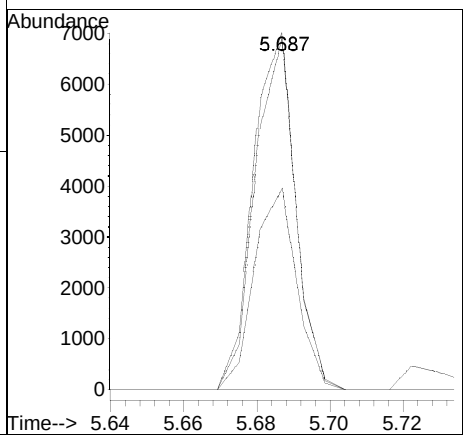


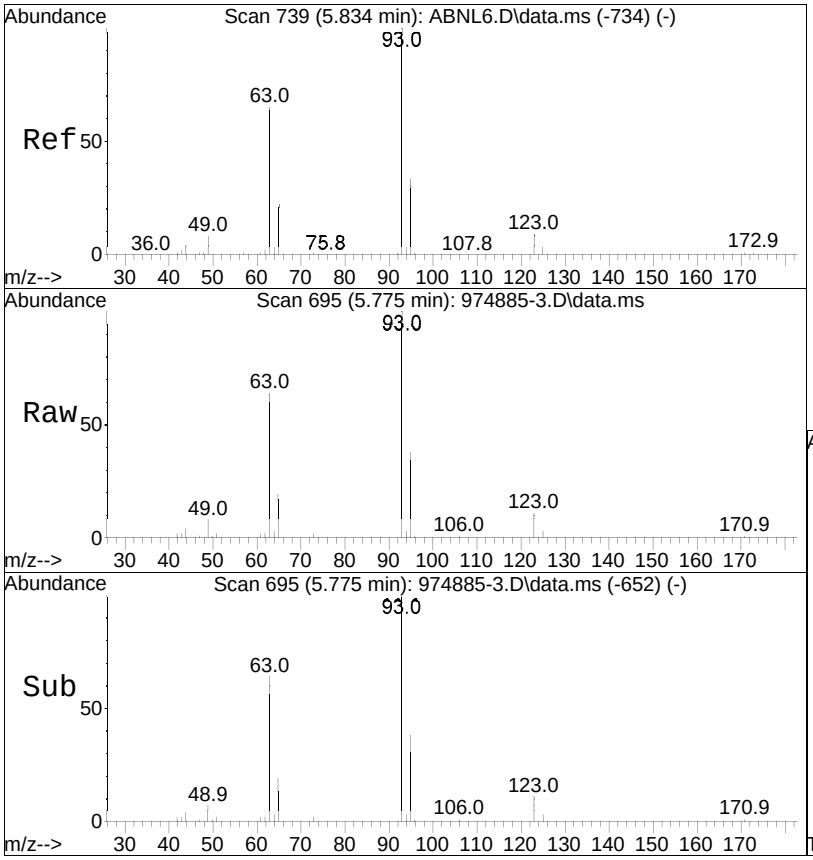


#23
2,4-Dimethylphenol
Concen: 1.11 ug/ml
RT: 5.687 min Scan# 680
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:107 Resp: 5597

Ion	Ratio	Lower	Upper
107	100		
121	57.0	41.3	61.9
122	94.5	69.3	103.9

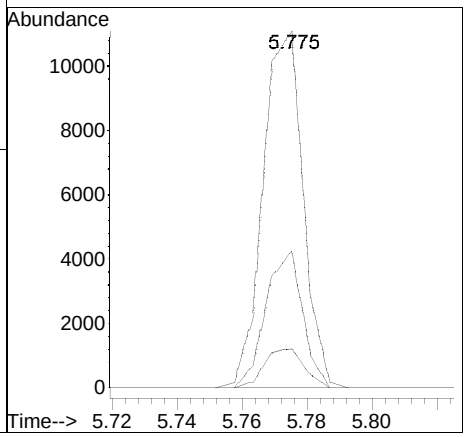


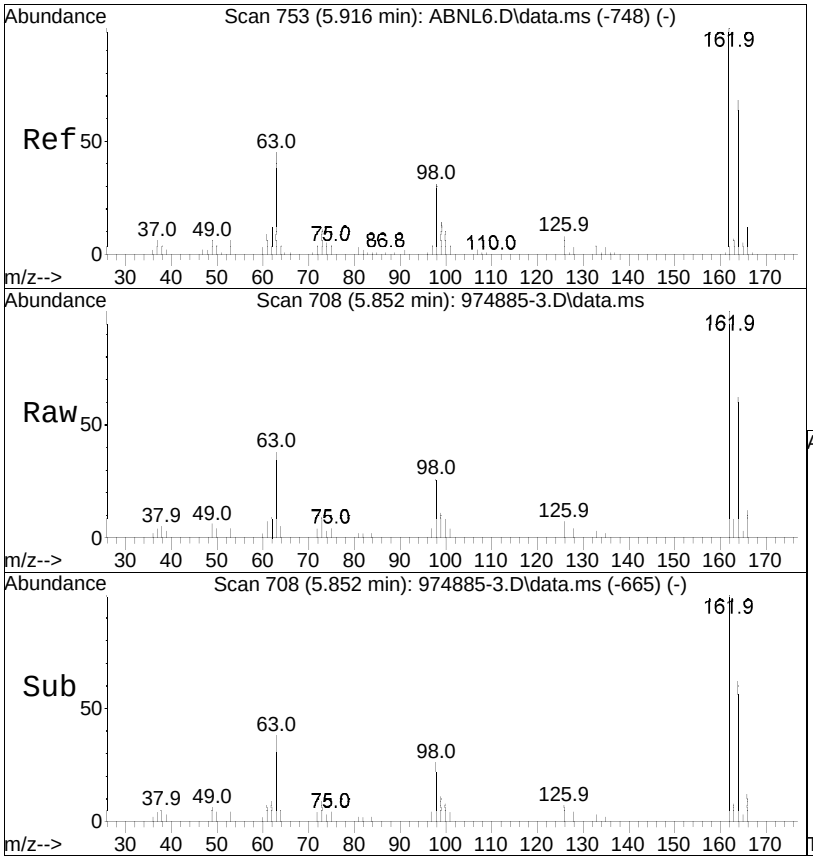


#24
Bis(2-chloroethoxy)methane
Concen: 1.30 ug/ml
RT: 5.775 min Scan# 695
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 93 Resp: 9356

Ion	Ratio	Lower	Upper
93	100		
95	35.5	25.8	38.8
123	11.1	9.6	14.4

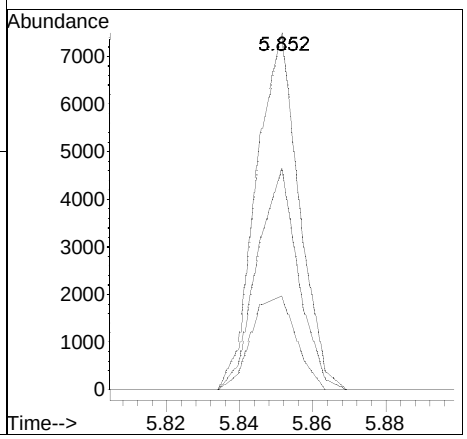


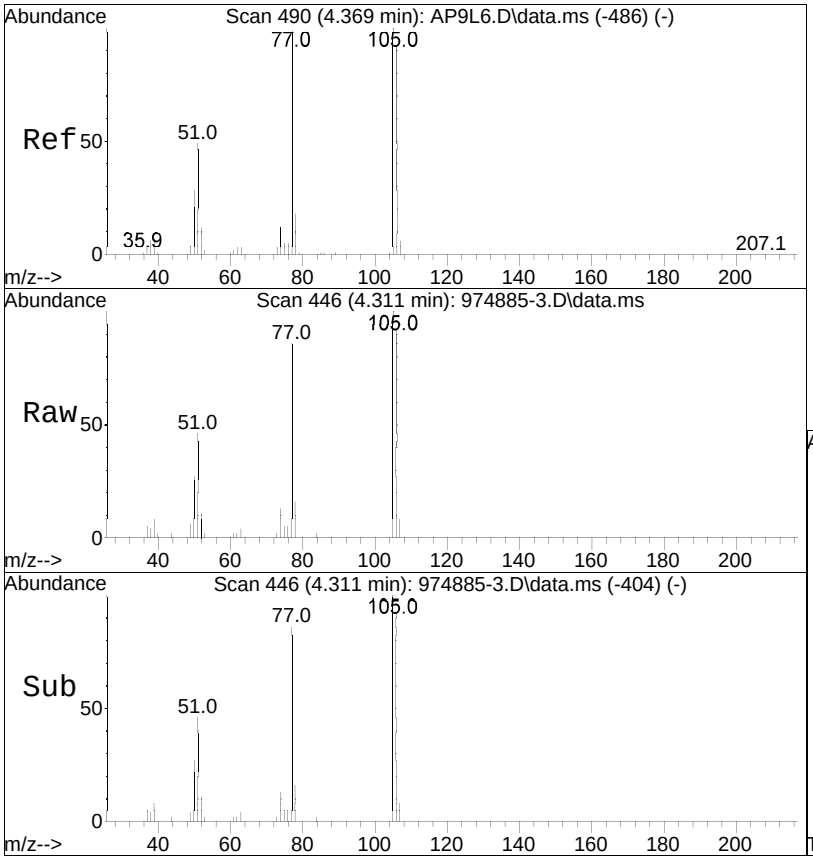


#25
2,4-Dichlorophenol
Concen: 1.14 ug/ml
RT: 5.852 min Scan# 708
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:162 Resp: 6022

Ion	Ratio	Lower	Upper
162	100		
164	60.0	51.1	76.7
98	27.7	32.2	48.2#

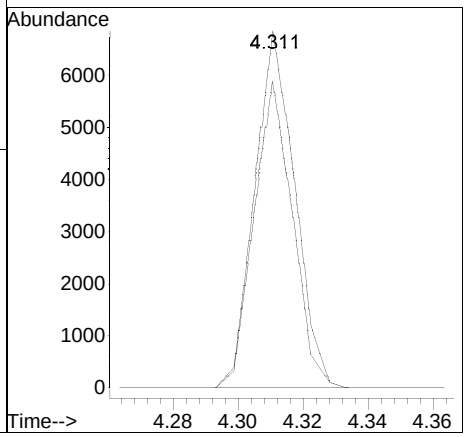


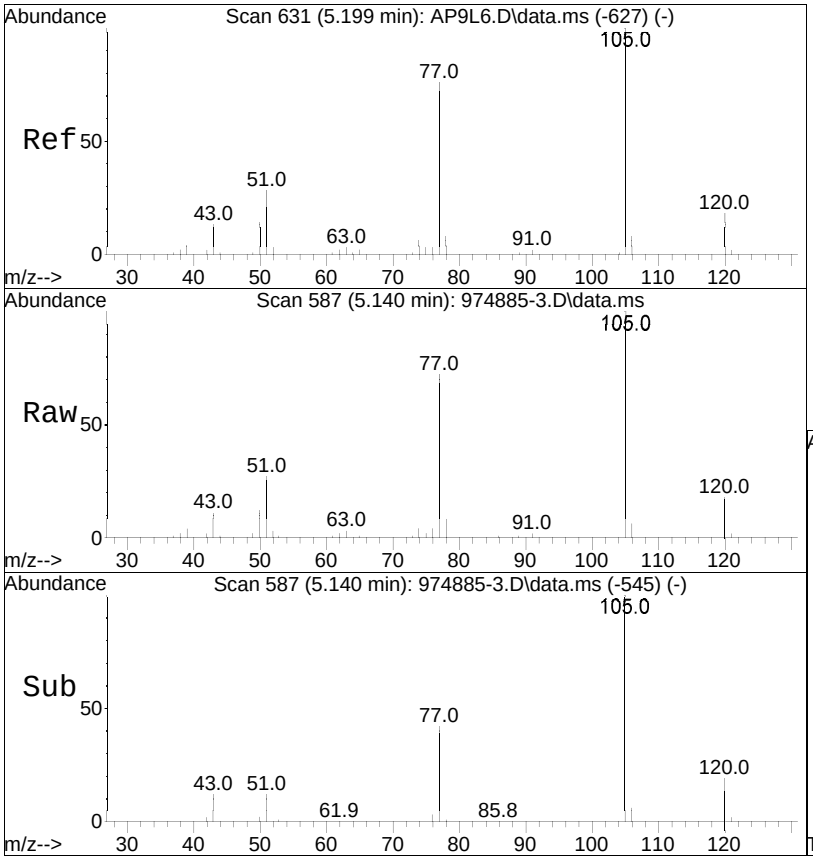


#28
Benzaldehyde
Concen: 1.16 ug/ml
RT: 4.311 min Scan# 446
Delta R.T. -0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:105 Resp: 5857

Ion	Ratio	Lower	Upper
105	100		
77	82.6	77.0	115.6

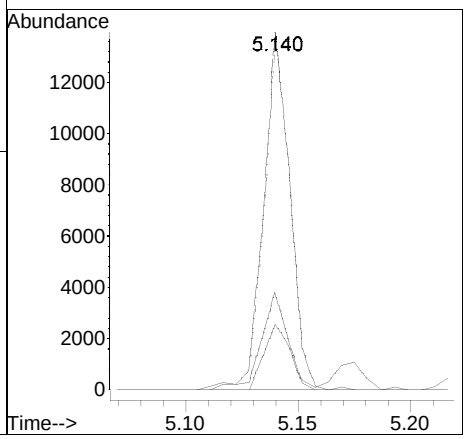


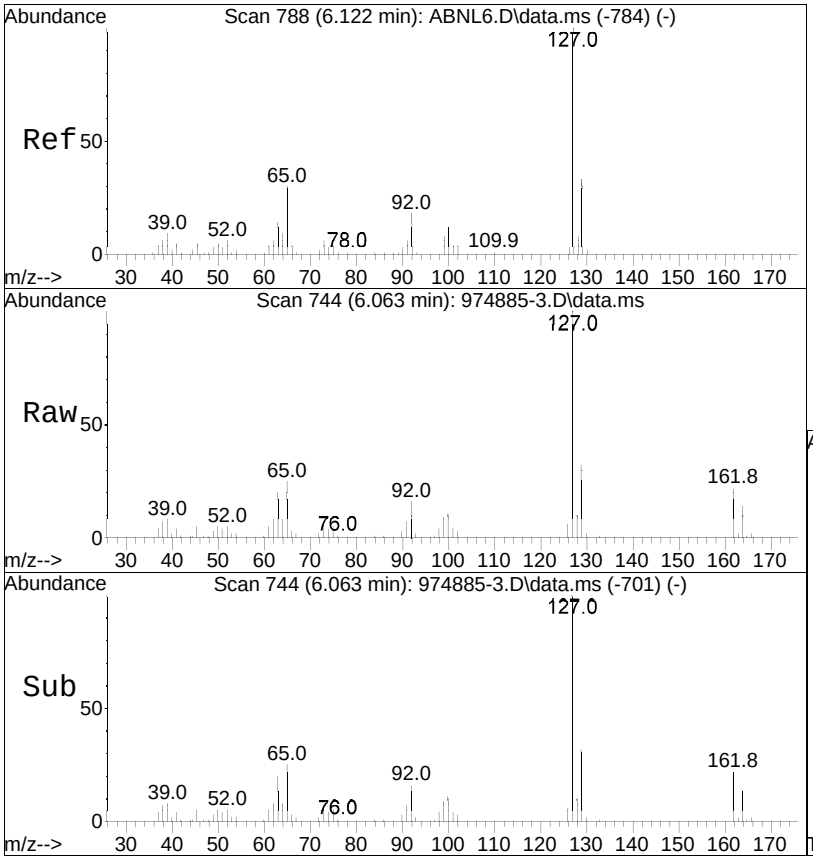


#29
Acetophenone
Concen: 1.27 ug/ml
RT: 5.140 min Scan# 587
Delta R.T. -0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:105 Resp: 11112

Ion	Ratio	Lower	Upper
105	100		
120	18.3	15.2	22.8
51	28.8	23.1	34.7

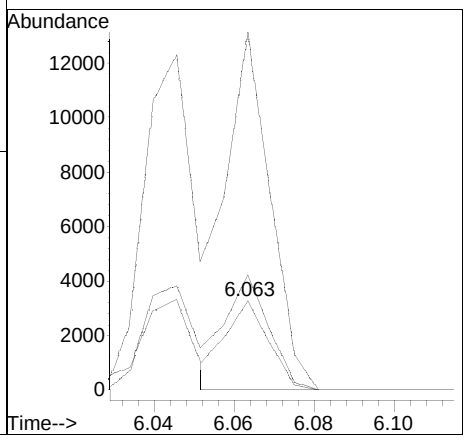


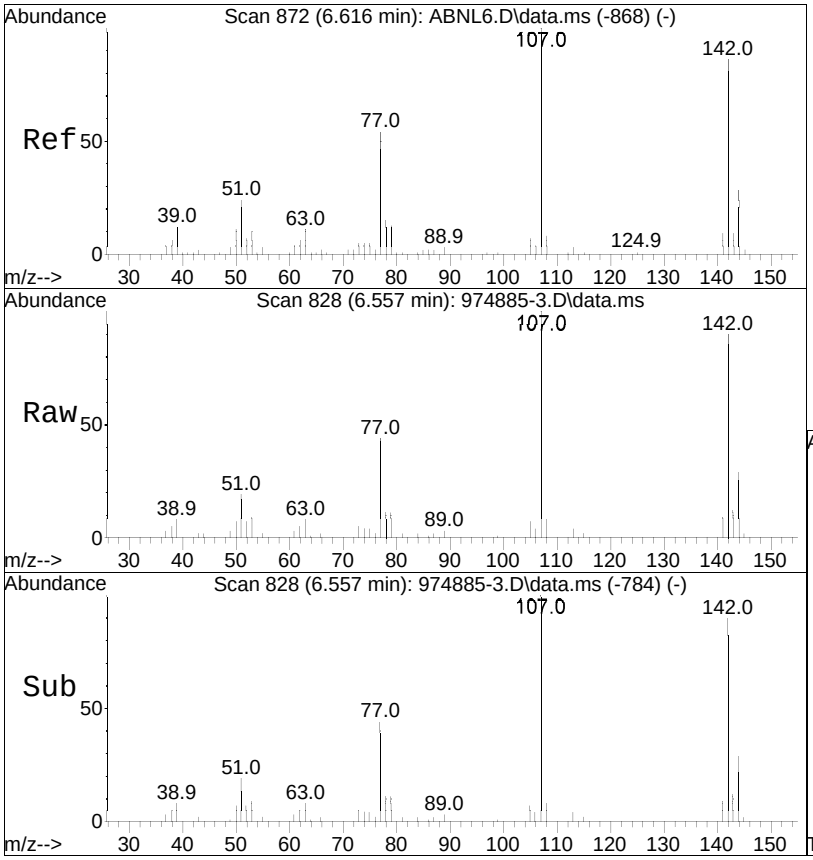


#38
4-Chloroaniline
Concen: 1.21 ug/ml M3
RT: 6.063 min Scan# 744
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 65 Resp: 2456

Ion	Ratio	Lower	Upper
65	100		
127	432.5	266.2	399.4#
129	136.4	85.0	127.4#

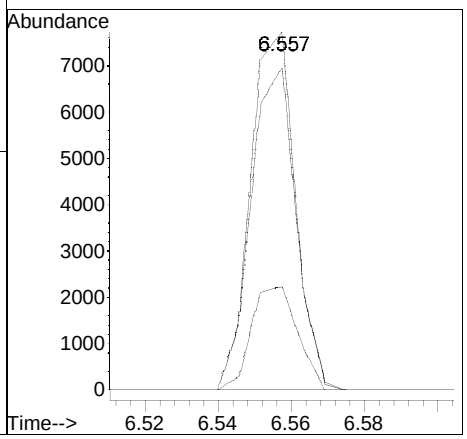


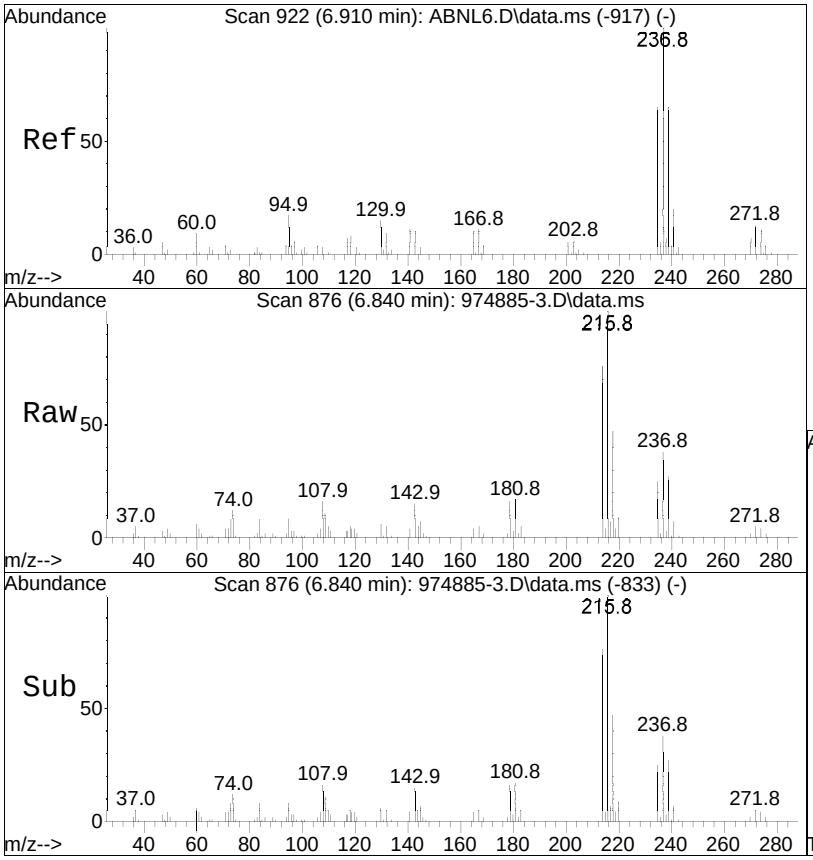


#40
p-Chloro-m-cresol
Concen: 1.37 ug/ml
RT: 6.557 min Scan# 828
Delta R.T. 0.006 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:107 Resp: 6512

Ion	Ratio	Lower	Upper
107	100		
144	29.9	20.3	30.5
142	90.9	63.8	95.6

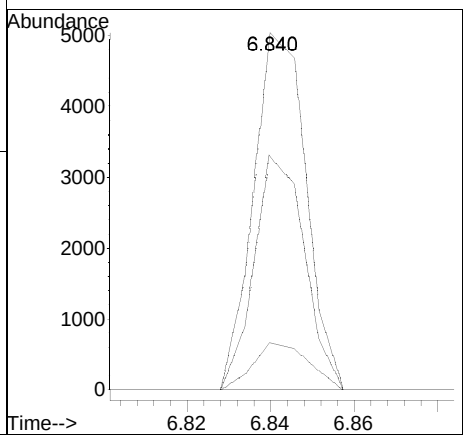


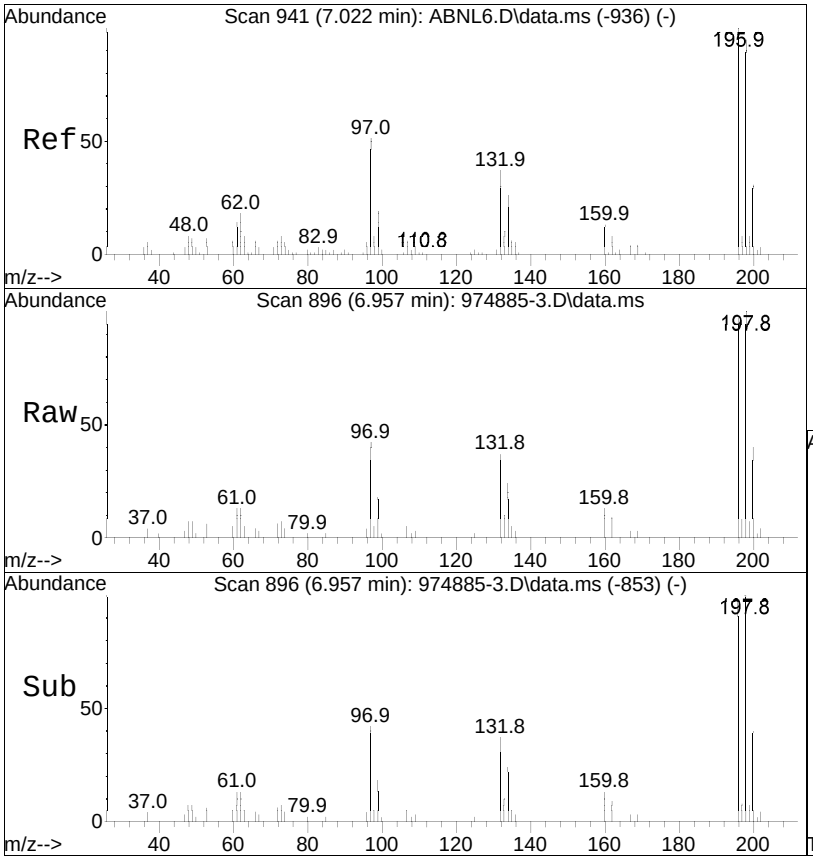


#43
Hexachlorocyclopentadiene
Concen: 1.02 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:237 Resp: 4387

Ion	Ratio	Lower	Upper
237	100		
235	62.9	50.9	76.3
272	14.0	10.1	15.1

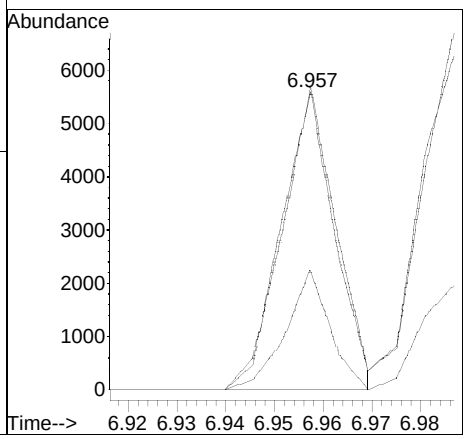


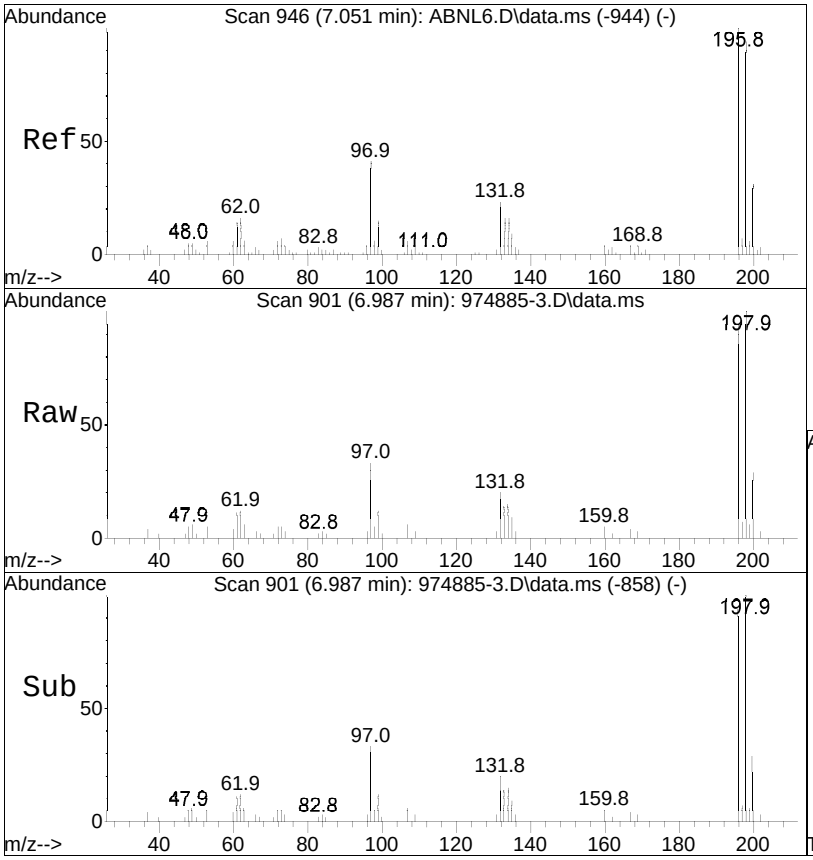


#44
2,4,6-Trichlorophenol
Concen: 0.96 ug/ml
RT: 6.957 min Scan# 896
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:196 Resp: 4250

Ion	Ratio	Lower	Upper
196	100		
198	102.1	76.4	114.6
200	33.2	24.4	36.6

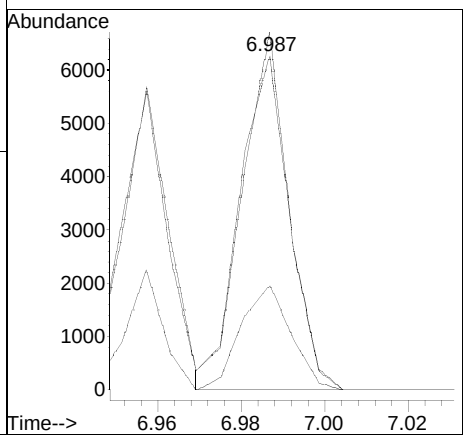


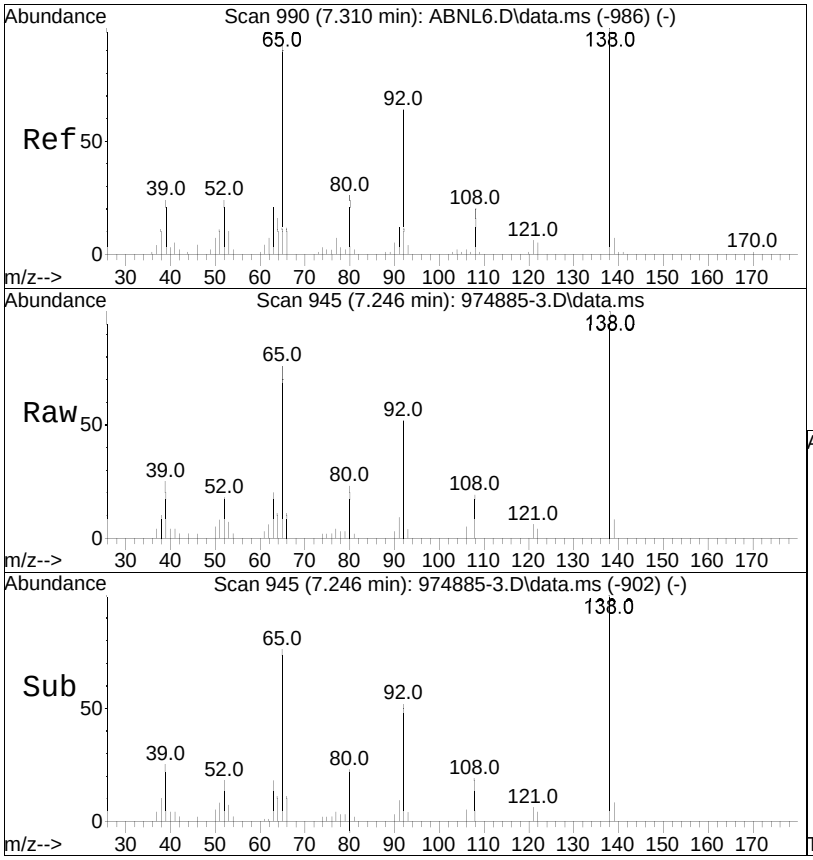


#45
2,4,5-Trichlorophenol
Concen: 1.14 ug/ml
RT: 6.987 min Scan# 901
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:196 Resp: 5127

Ion	Ratio	Lower	Upper
196	100		
200	31.9	24.2	36.4
198	100.1	76.2	114.2

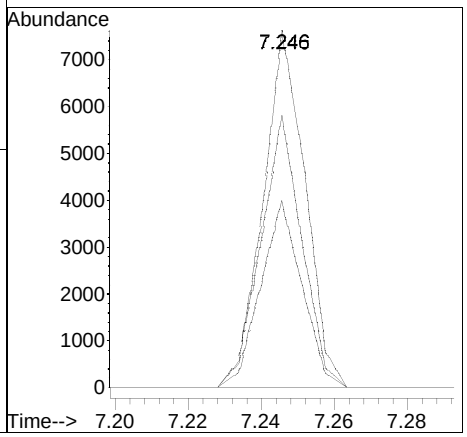


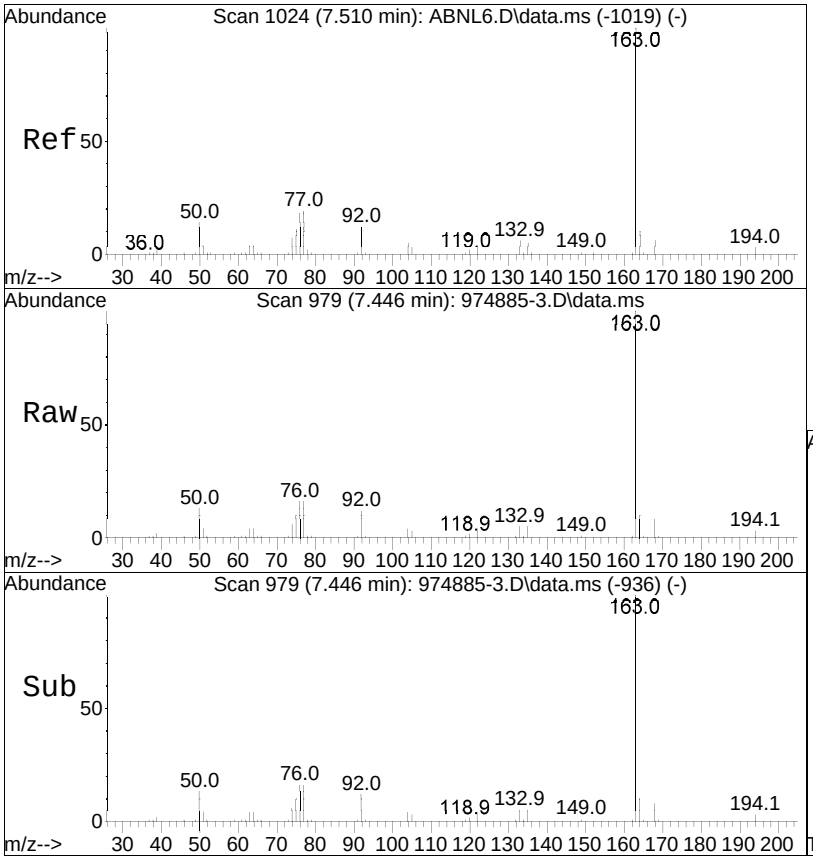


#48
2-Nitroaniline
Concen: 1.75 ug/ml
RT: 7.246 min Scan# 945
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:138 Resp: 6029

Ion	Ratio	Lower	Upper
138	100		
92	51.5	52.1	78.1#
65	74.5	75.9	113.9#

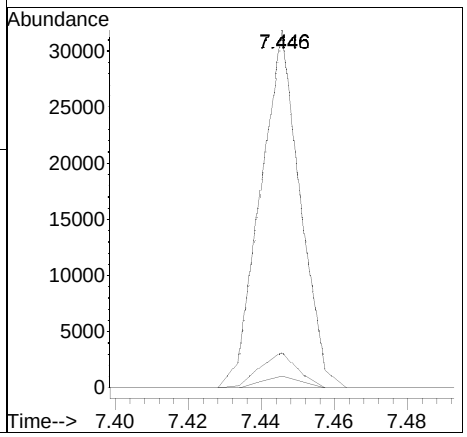


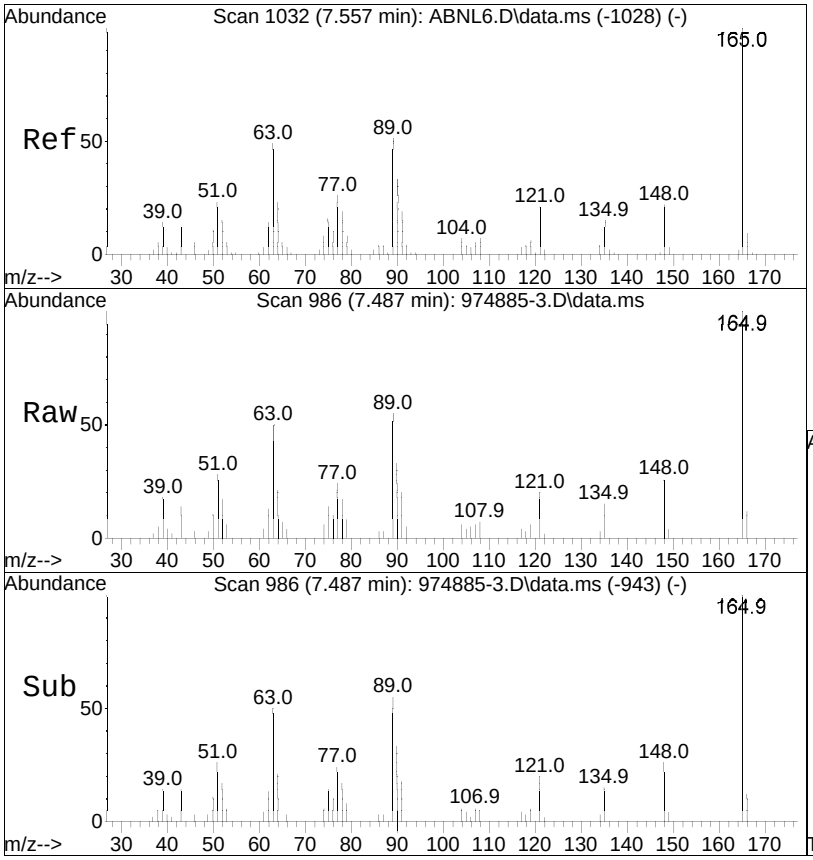


#51
Dimethyl phthalate
Concen: 1.49 ug/ml
RT: 7.446 min Scan# 979
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:163 Resp: 23692

Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.3	3.5
164	9.5	8.2	12.2

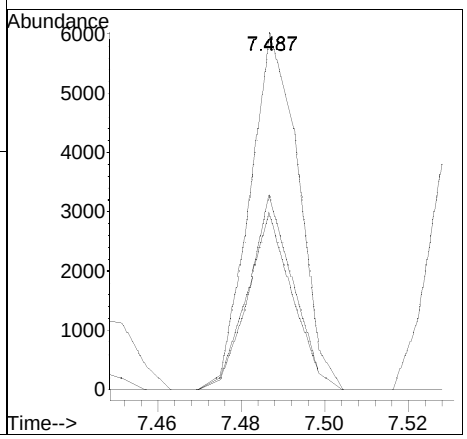


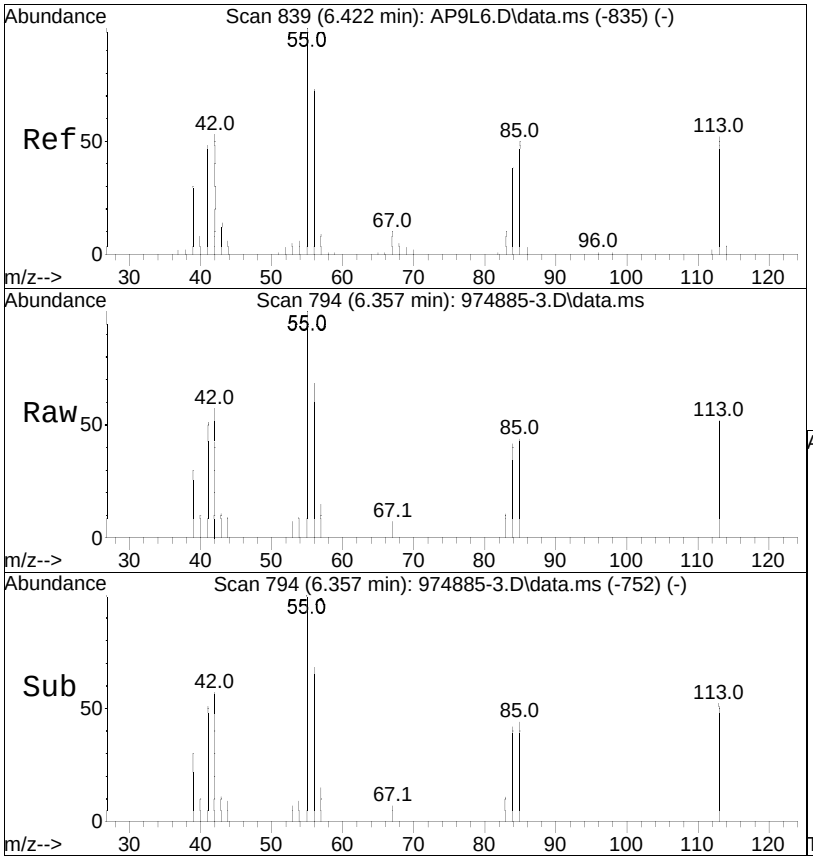


#53
2,6-Dinitrotoluene
Concen: 1.65 ug/ml
RT: 7.487 min Scan# 986
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:165 Resp: 4888

Ion	Ratio	Lower	Upper
165	100		
89	49.2	48.8	73.2
63	46.4	50.5	75.7#

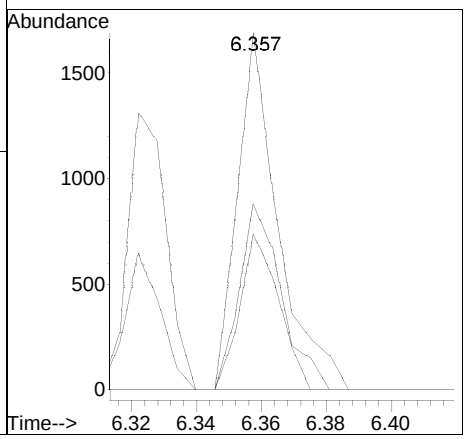


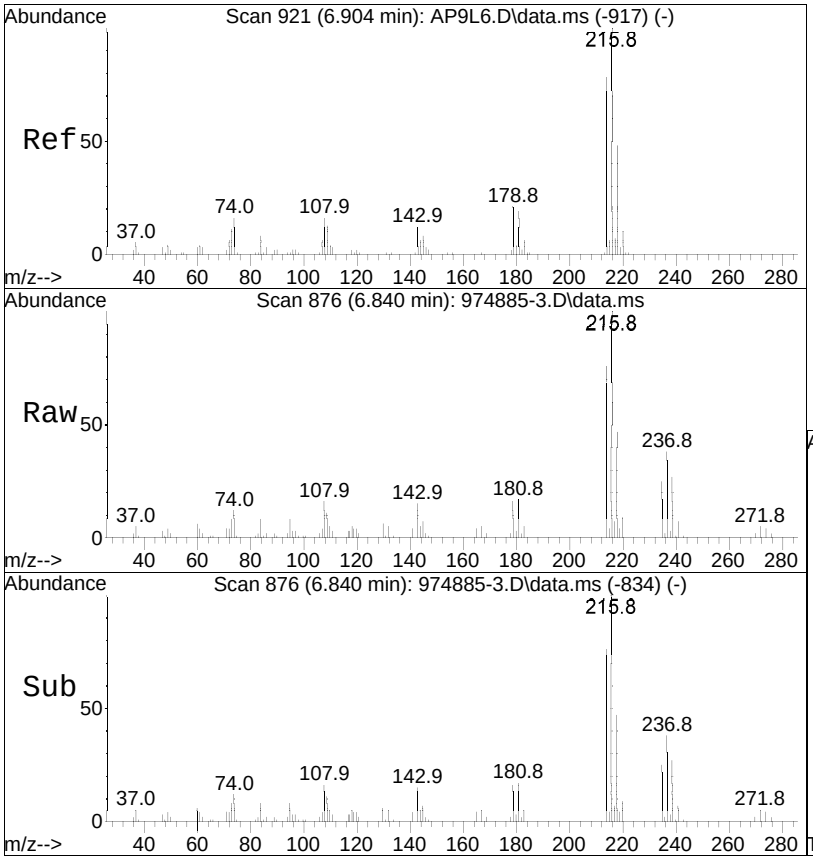


#60
Caprolactam
Concen: 0.93 ug/ml
RT: 6.357 min Scan# 794
Delta R.T. -0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 55 Resp: 1470

Ion	Ratio	Lower	Upper
55	100		
85	41.6	35.2	52.8
113	53.8	36.6	55.0

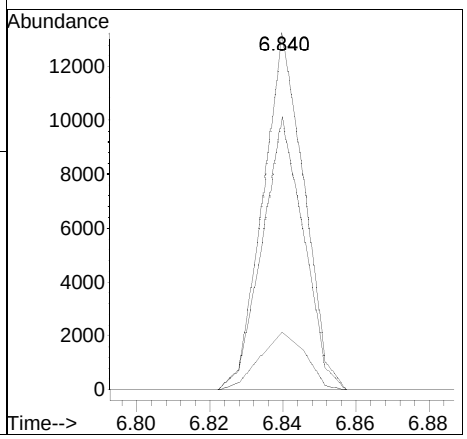


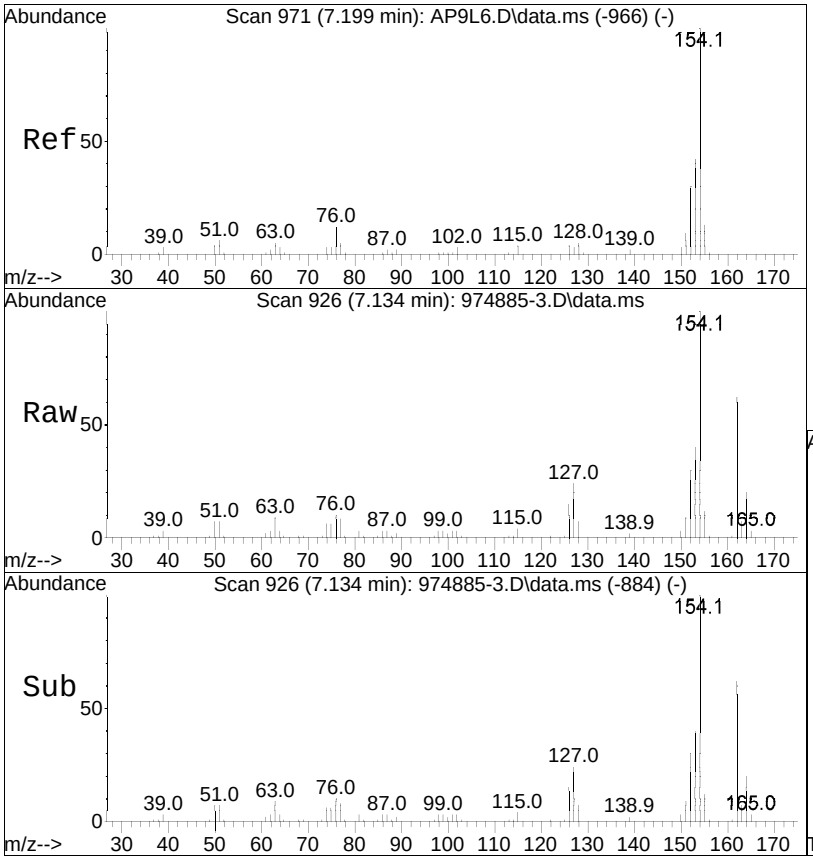


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.25 ug/ml
RT: 6.840 min Scan# 876
Delta R.T. -0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:216 Resp: 10292

Ion	Ratio	Lower	Upper
216	100		
214	77.6	64.0	96.0
179	18.1	18.7	28.1#

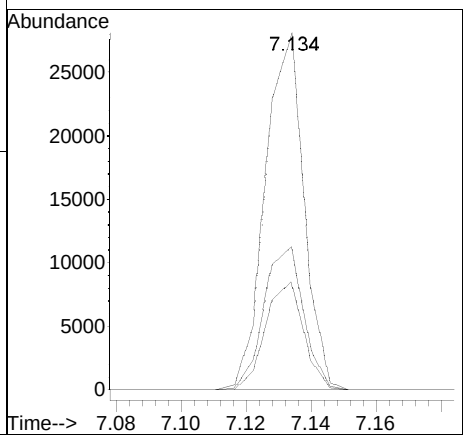


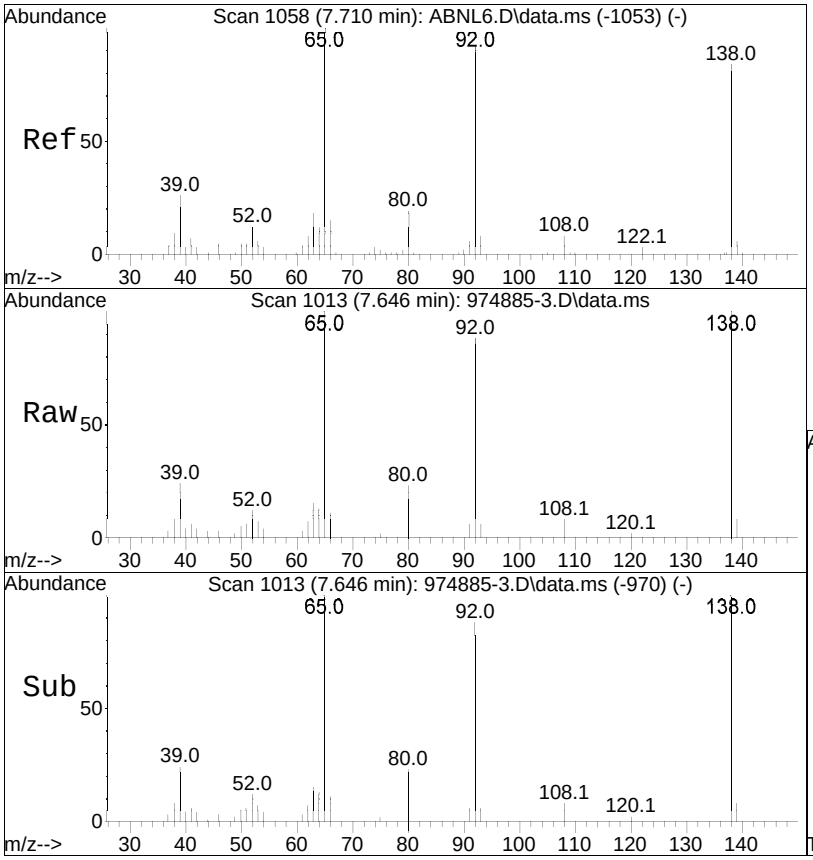


#62
Biphenyl
Concen: 1.30 ug/ml
RT: 7.134 min Scan# 926
Delta R.T. -0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:154 Resp: 23004

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.5	48.7
152	30.0	22.6	34.0

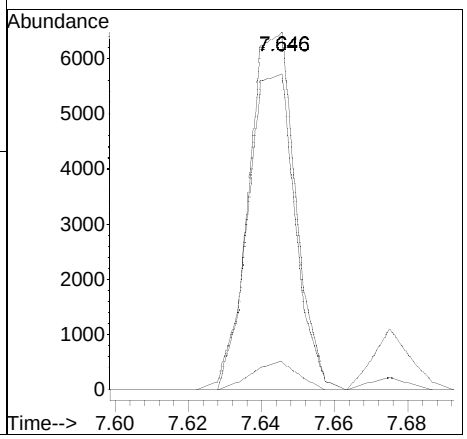


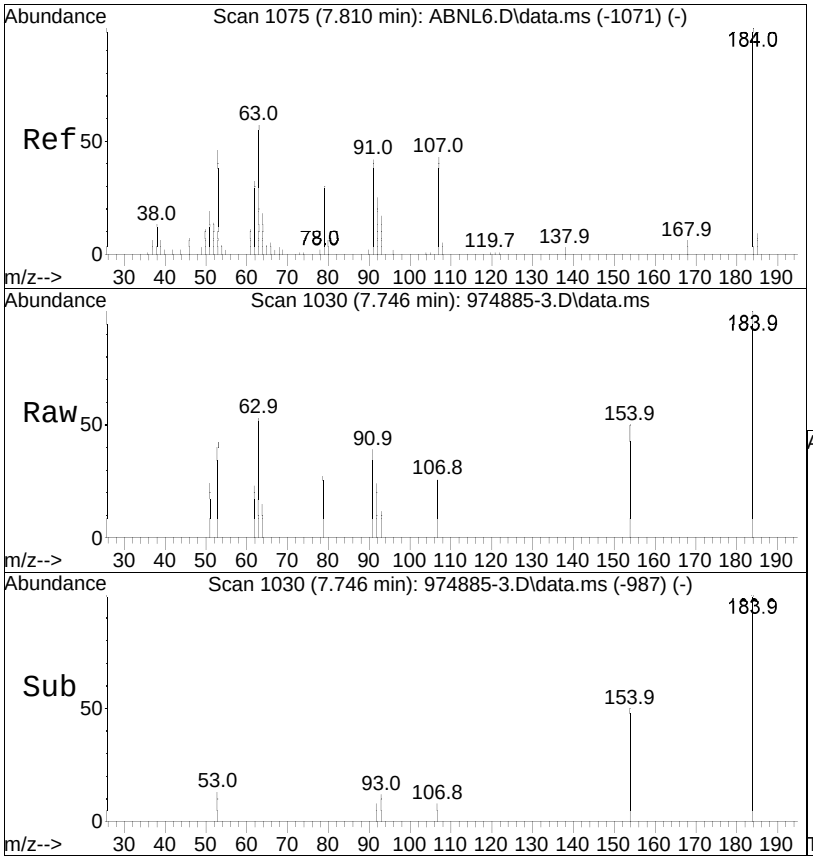


#64
3-Nitroaniline
Concen: 1.74 ug/ml
RT: 7.646 min Scan# 1013
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:138 Resp: 5647

Ion	Ratio	Lower	Upper
138	100		
92	90.8	92.8	139.2#
108	14.1	7.9	11.9#

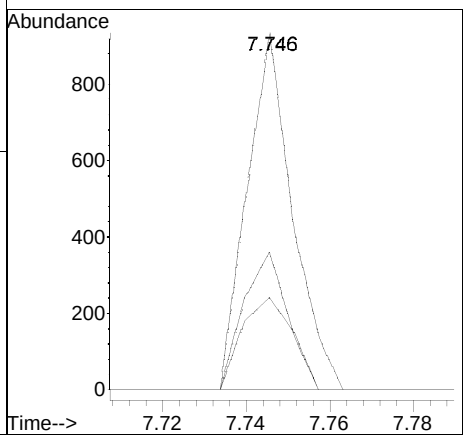


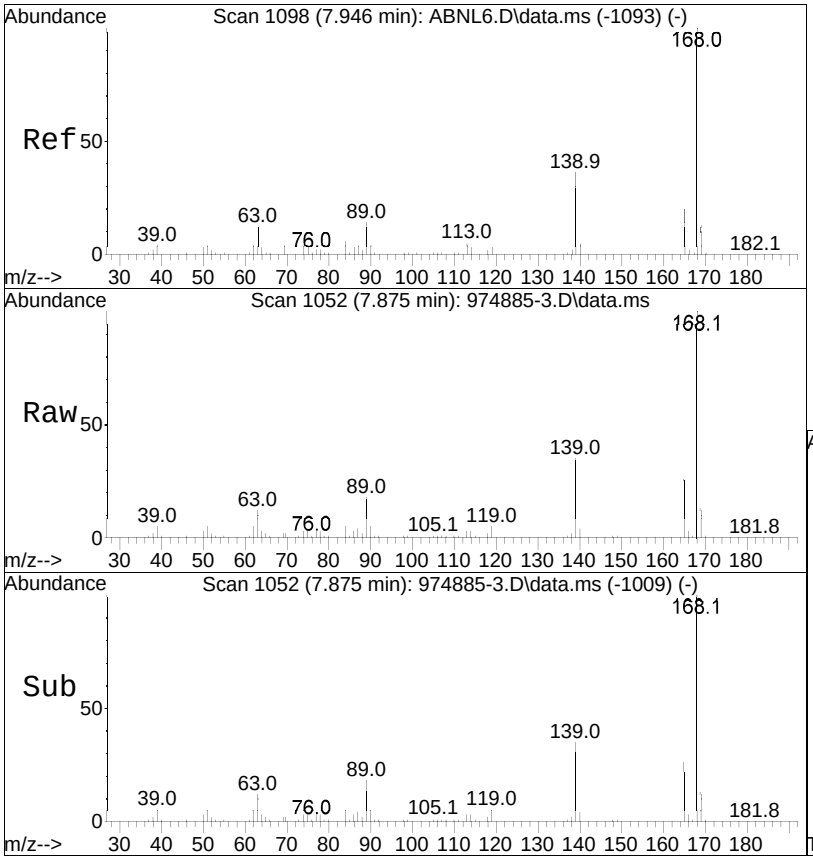


#66
2,4-Dinitrophenol
Concen: 0.75 ug/ml
RT: 7.746 min Scan# 1030
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:184 Resp: 696

Ion	Ratio	Lower	Upper
184	100		
107	0.0	41.8	62.6#
91	0.0	44.2	66.2#

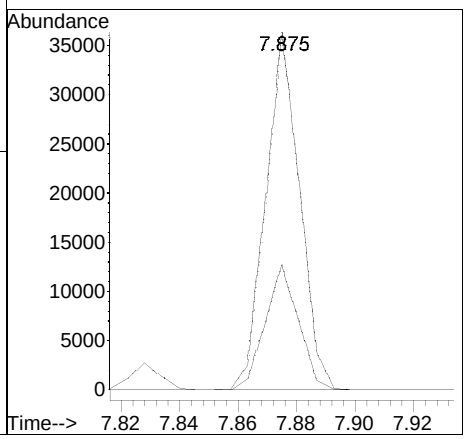


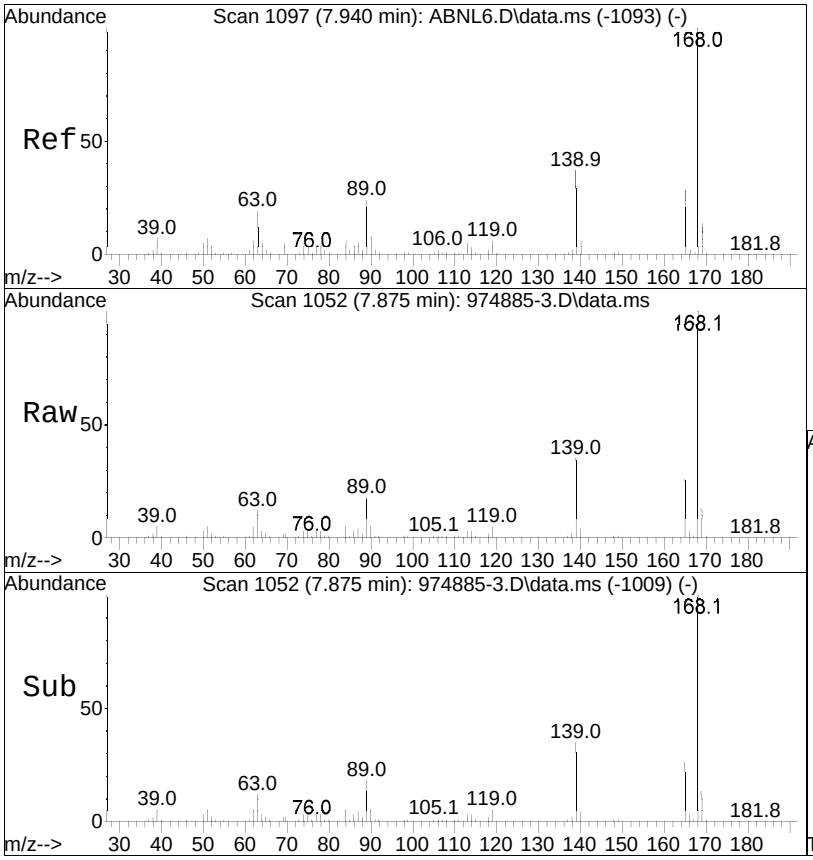


#67
Dibenzofuran
Concen: 1.45 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:168 Resp: 28854

Ion	Ratio	Lower	Upper
168	100		
139	34.7	32.3	48.5

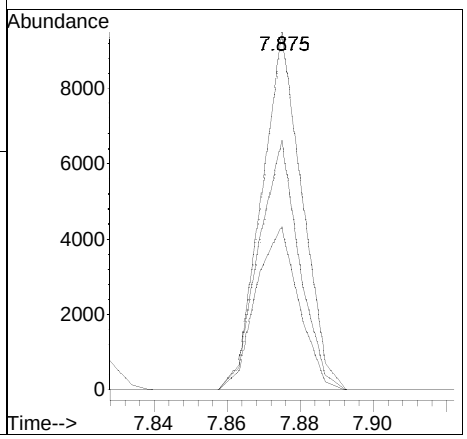


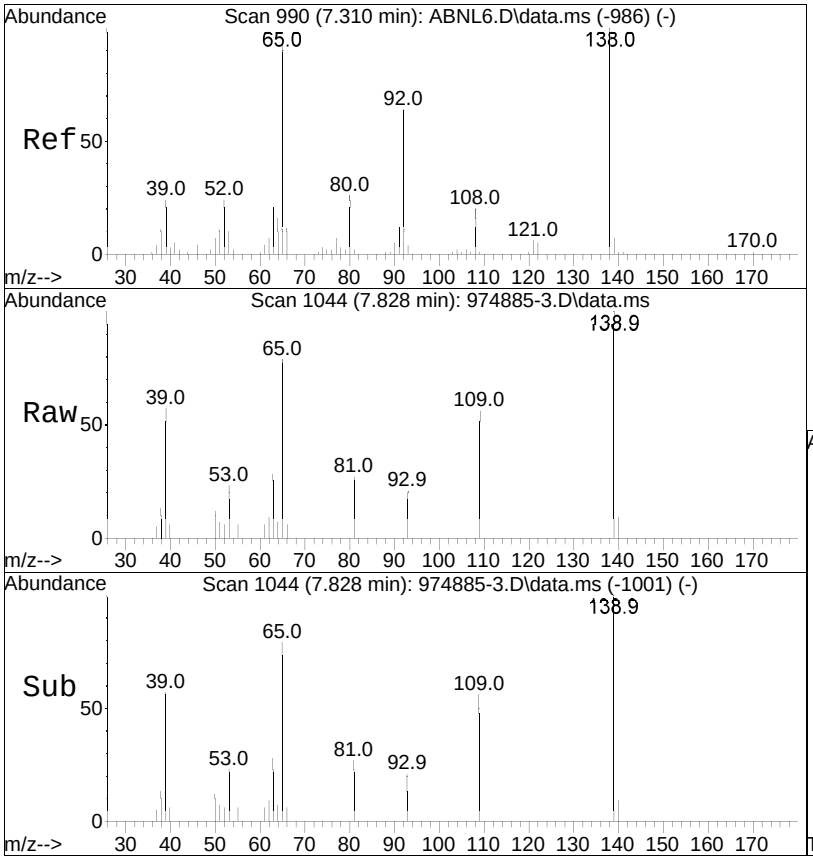


#68
2,4-Dinitrotoluene
Concen: 1.74 ug/ml
RT: 7.875 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:165 Resp: 7230

Ion	Ratio	Lower	Upper
165	100		
89	70.1	73.0	109.4#
63	48.7	56.3	84.5#

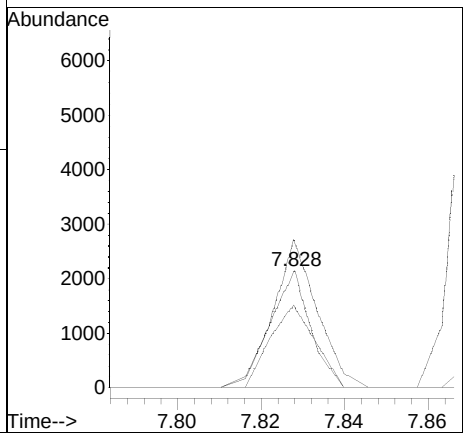


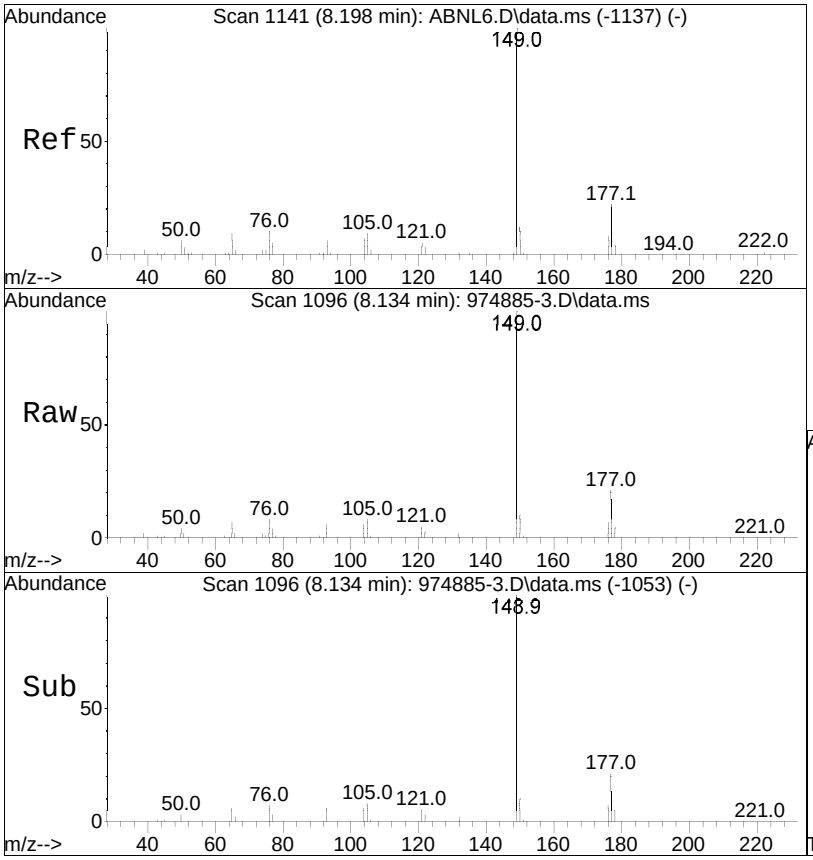


#69
4-Nitrophenol
Concen: 0.46 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion: 65 Resp: 1438

Ion	Ratio	Lower	Upper
65	100		
109	78.0	60.2	90.2
139	139.0	81.1	121.7#

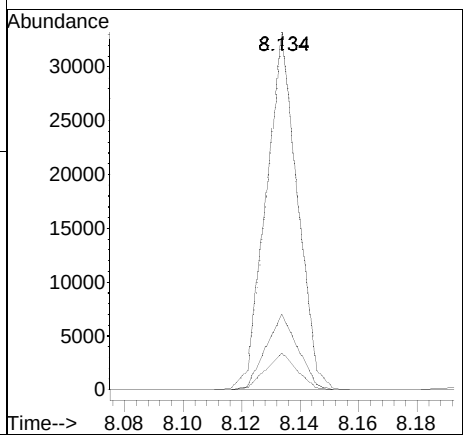


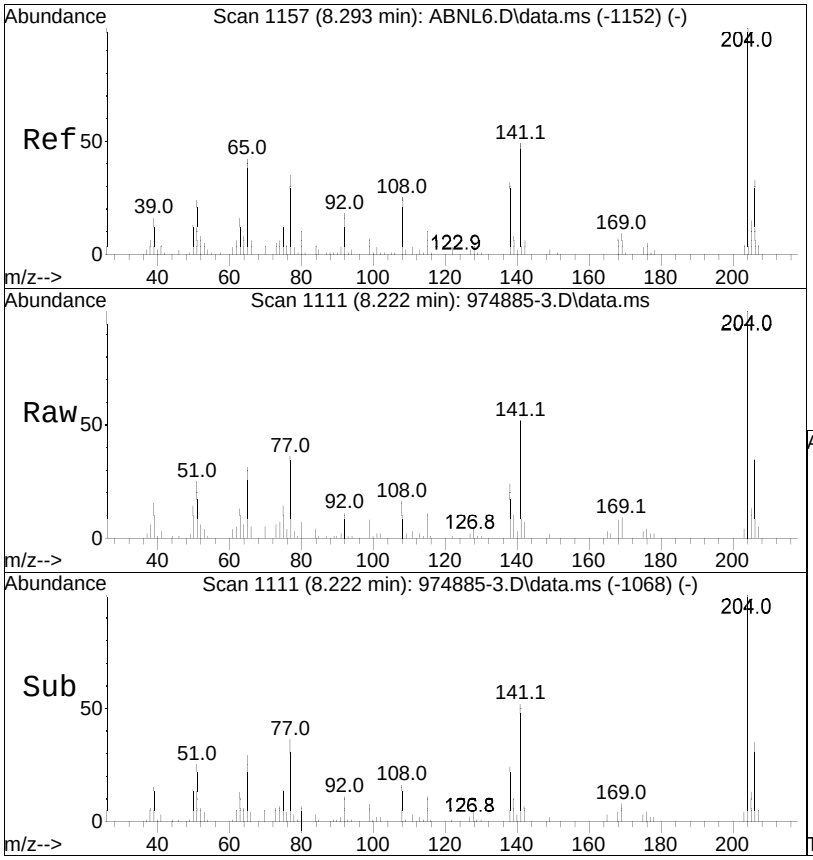


#72
Diethyl phthalate
Concen: 1.52 ug/ml
RT: 8.134 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:149 Resp: 24479

Ion	Ratio	Lower	Upper
149	100		
177	21.9	15.0	22.6
150	10.4	9.8	14.6

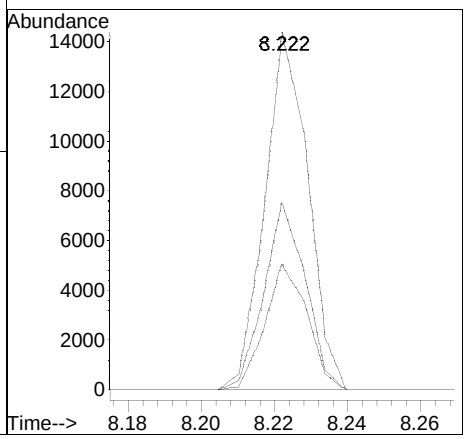


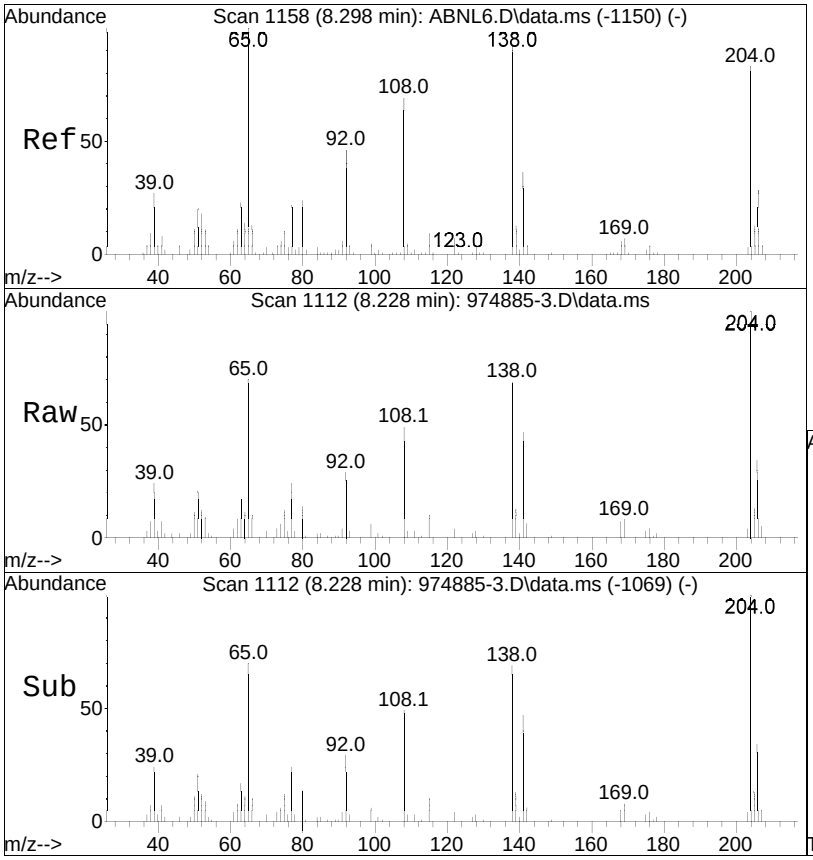


#74
4-Chlorophenyl phenyl ether
Concen: 1.38 ug/ml
RT: 8.222 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:204 Resp: 11689

Ion	Ratio	Lower	Upper
204	100		
206	34.6	26.3	39.5
141	50.4	58.4	87.6#

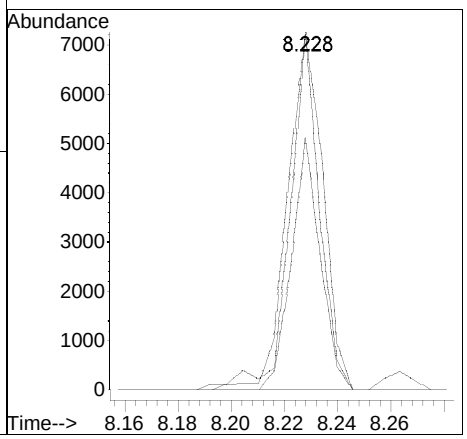


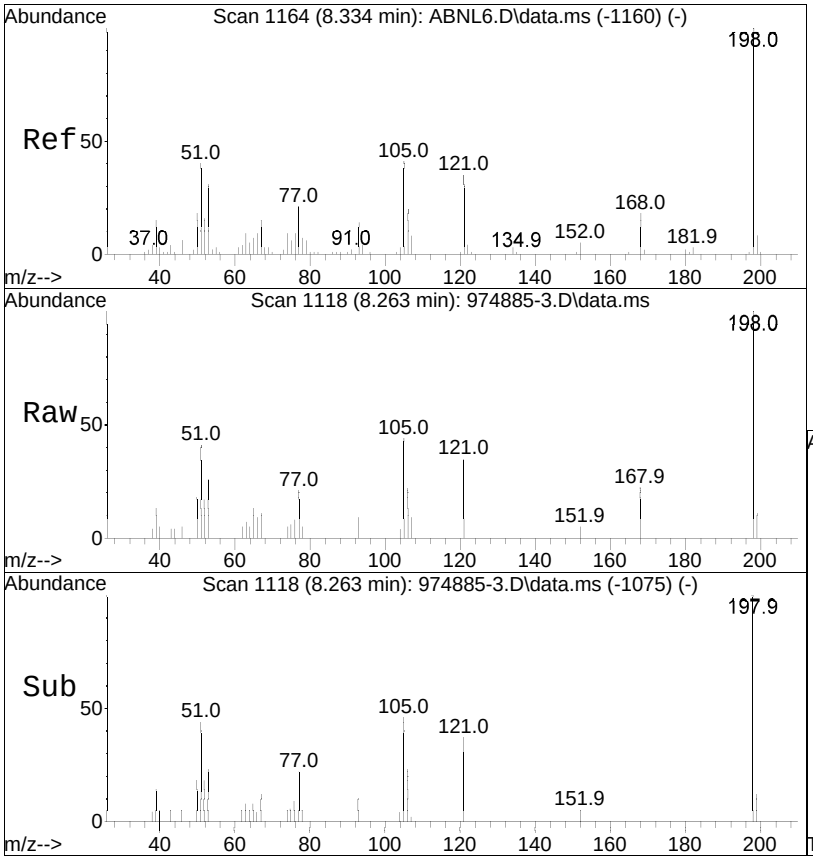


#75
4-Nitroaniline
Concen: 1.82 ug/ml
RT: 8.228 min Scan# 1112
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:138 Resp: 6209

Ion	Ratio	Lower	Upper
138	100		
108	61.6	59.2	88.8
65	97.1	97.6	146.4#

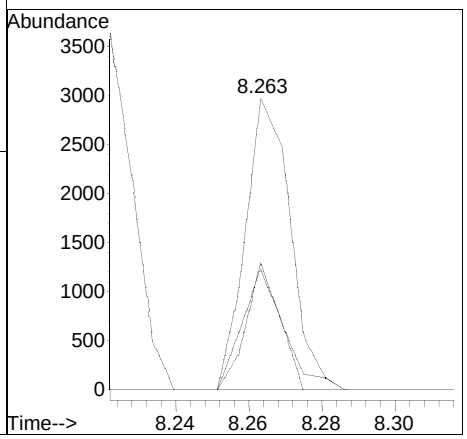


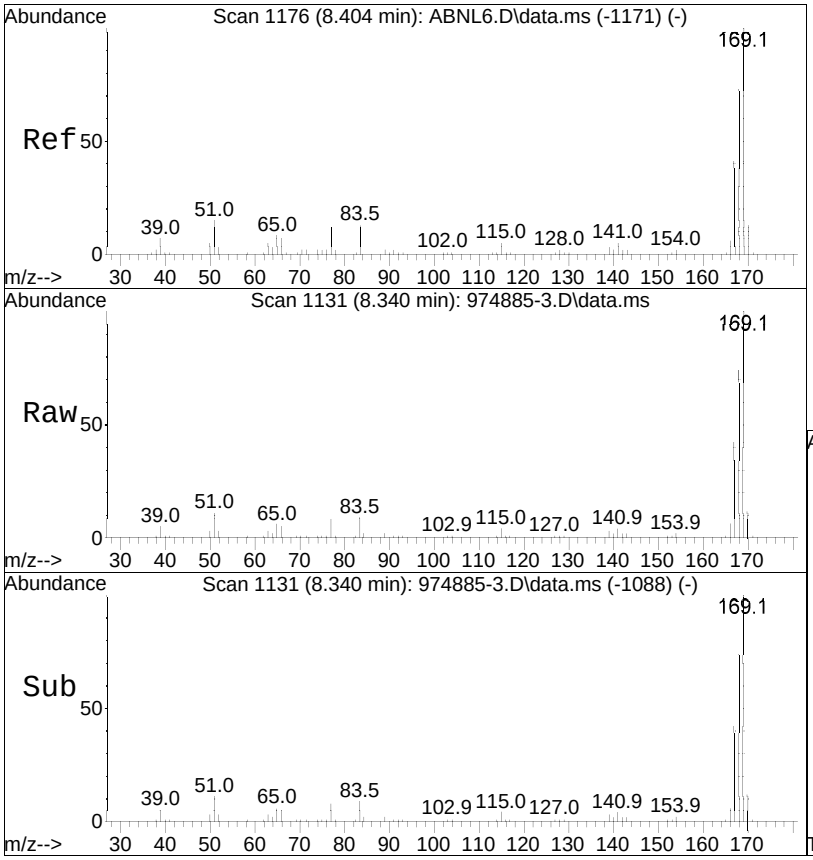


#76
4,6-Dinitro-o-cresol
Concen: 1.13 ug/ml
RT: 8.263 min Scan# 1118
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:198 Resp: 2520

Ion	Ratio	Lower	Upper
198	100		
51	35.1	49.9	74.9#
105	36.6	45.8	68.6#

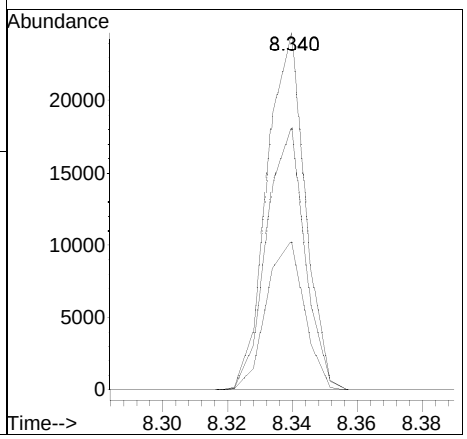


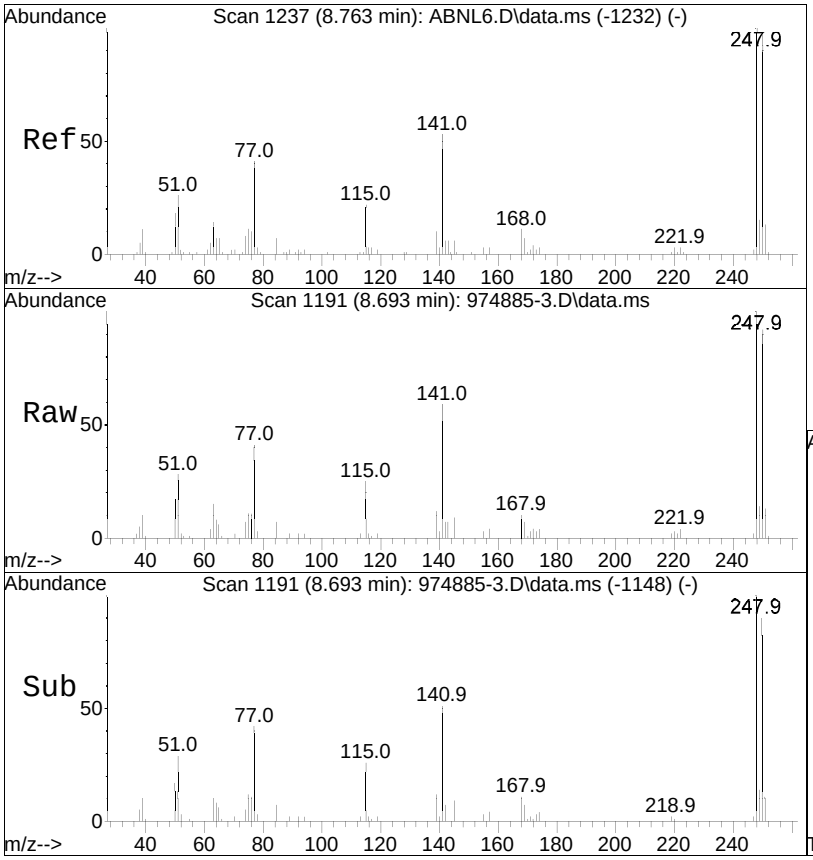


#77
NDPA/DPA
Concen: 1.51 ug/ml
RT: 8.340 min Scan# 1131
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:169 Resp: 20129

Ion	Ratio	Lower	Upper
169	100		
168	73.8	55.2	82.8
167	41.6	30.4	45.6

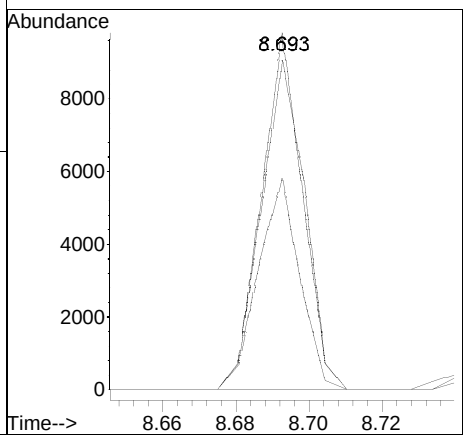


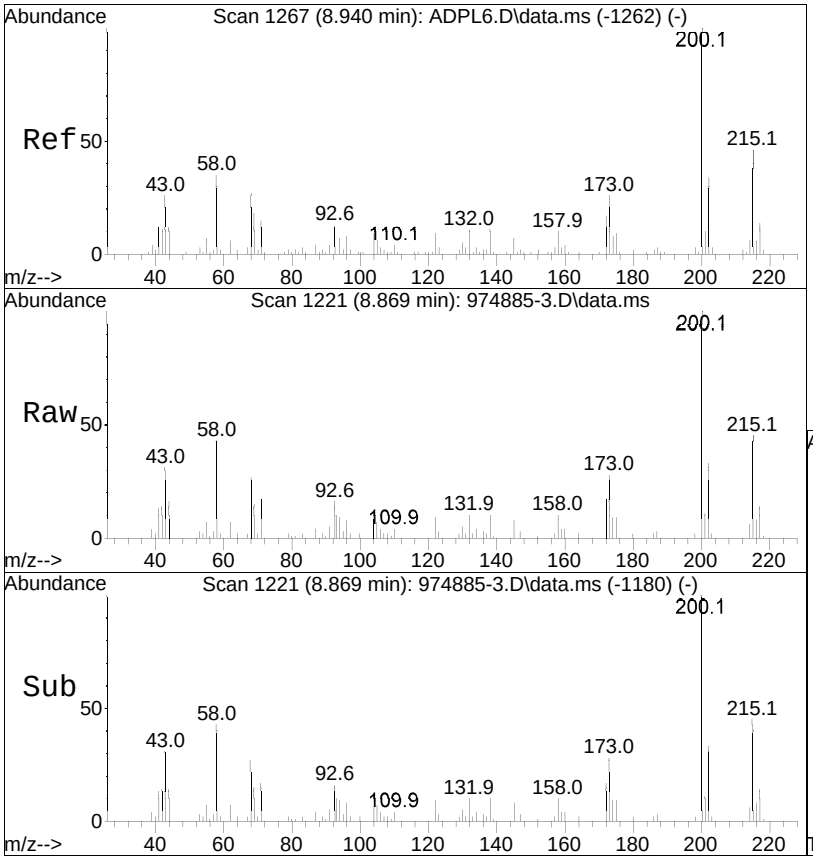


#80
4-Bromophenyl phenyl ether
Concen: 1.40 ug/ml
RT: 8.693 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:248 Resp: 7586

Ion	Ratio	Lower	Upper
248	100		
141	60.0	74.6	111.8#
250	98.3	76.9	115.3

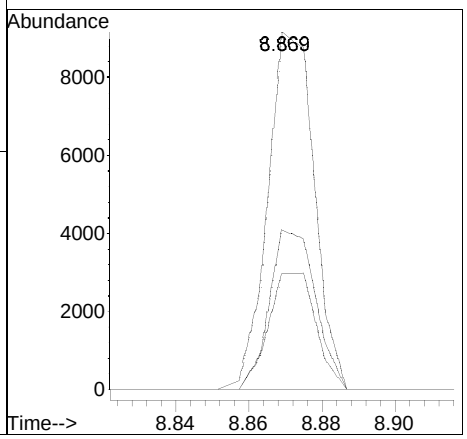


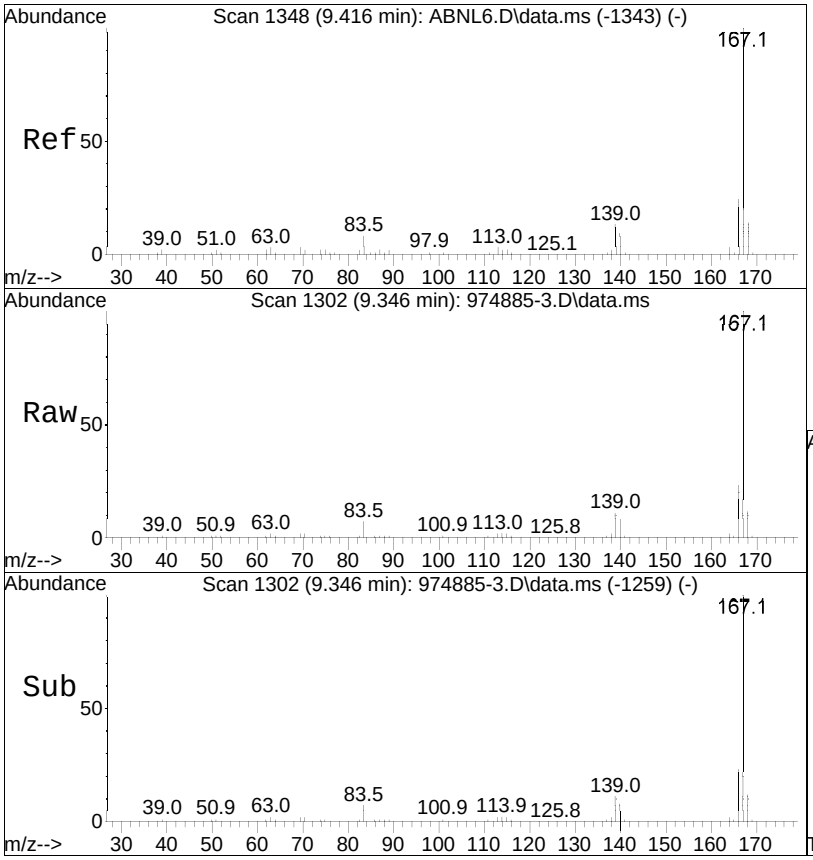


#87
Atrazine
Concen: 1.67 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.006 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:200 Resp: 8004

Ion	Ratio	Lower	Upper
200	100		
202	33.5	25.0	37.6
215	44.4	34.5	51.7

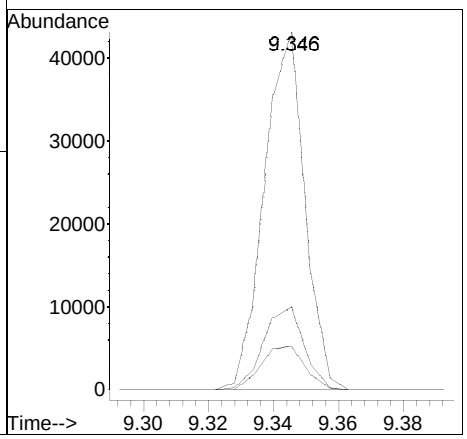


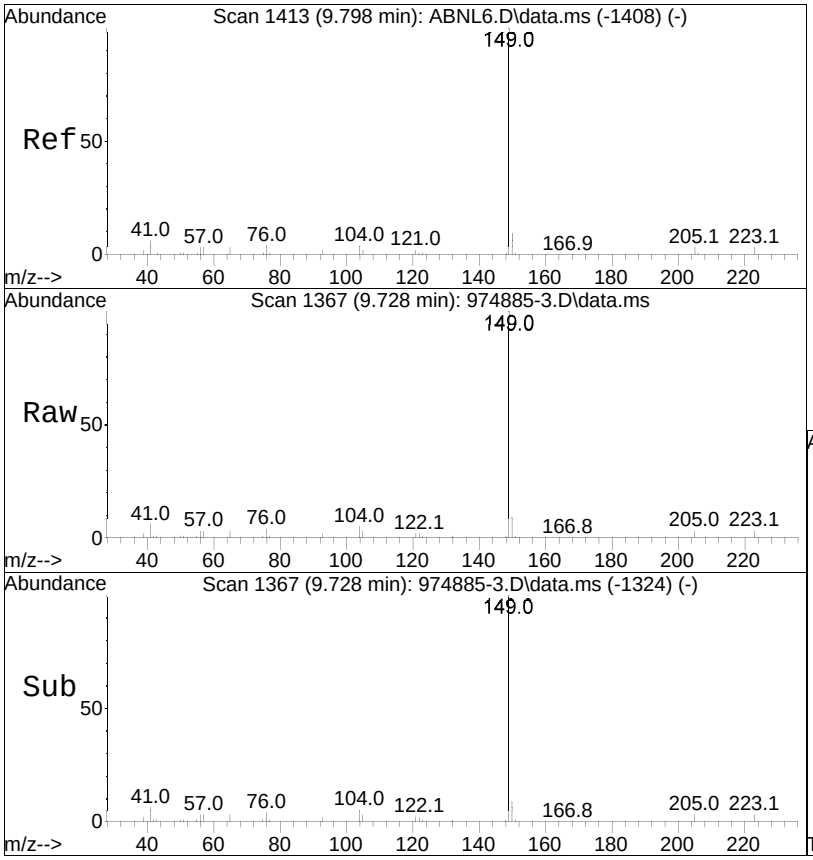


#91
Carbazole
Concen: 1.68 ug/ml
RT: 9.346 min Scan# 1302
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:167 Resp: 36917

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.8	16.2
166	23.5	17.7	26.5

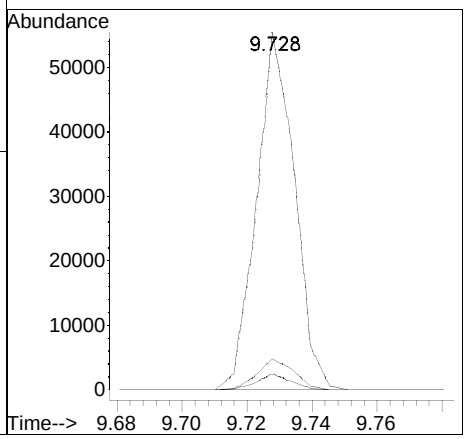


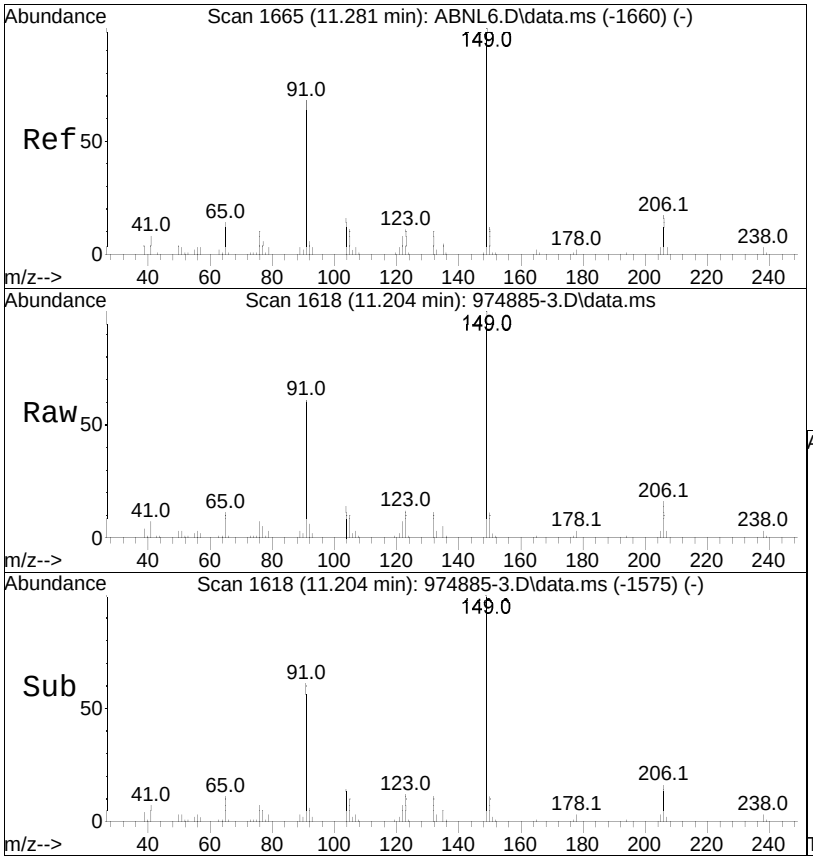


#92
Di-n-butylphthalate
Concen: 1.85 ug/ml
RT: 9.728 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:149 Resp: 44353

Ion	Ratio	Lower	Upper
149	100		
150	8.5	7.3	10.9
104	4.1	4.0	6.0

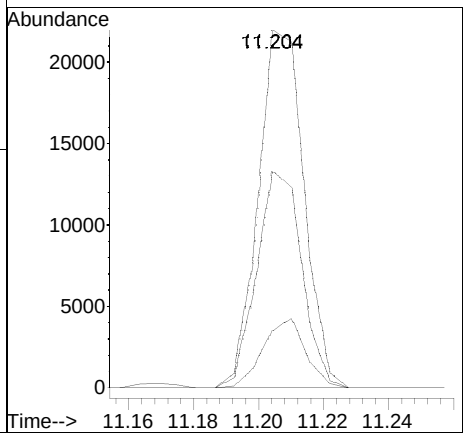


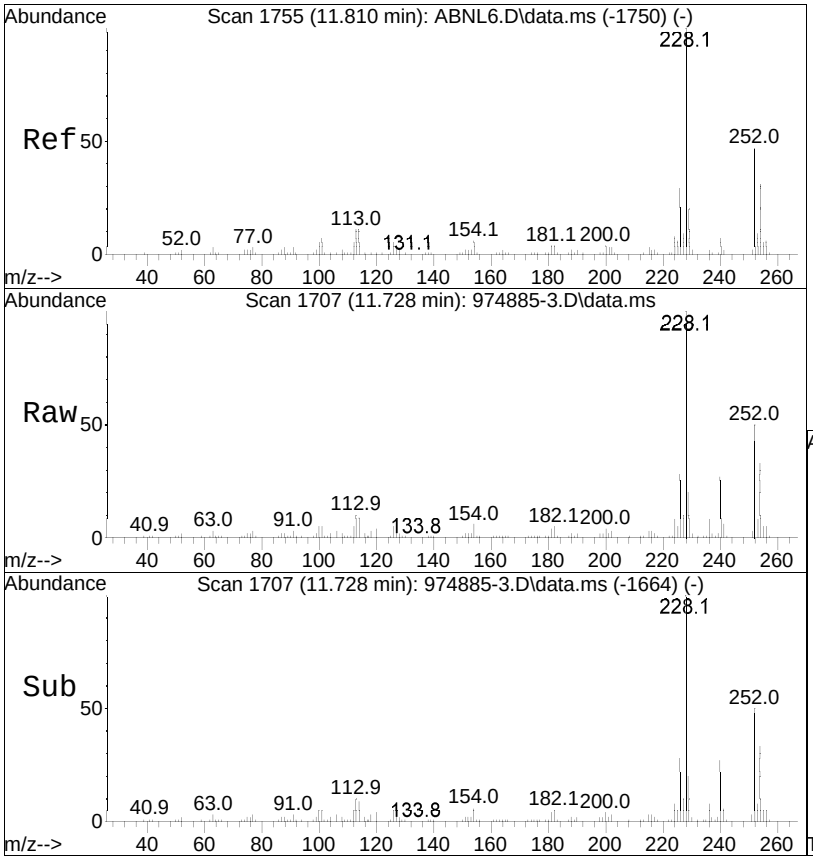


#97
Butyl benzyl phthalate
Concen: 2.00 ug/ml
RT: 11.204 min Scan# 1618
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:149 Resp: 21261

Ion	Ratio	Lower	Upper
149	100		
91	59.7	57.9	86.9
206	18.1	11.9	17.9#

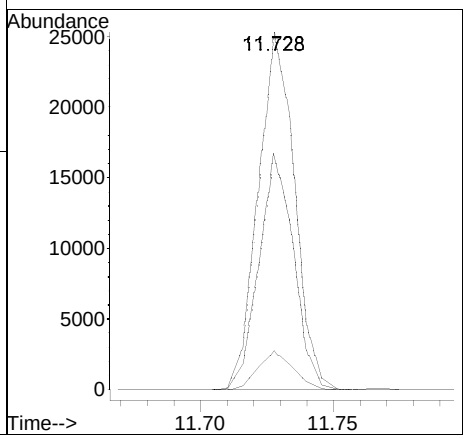


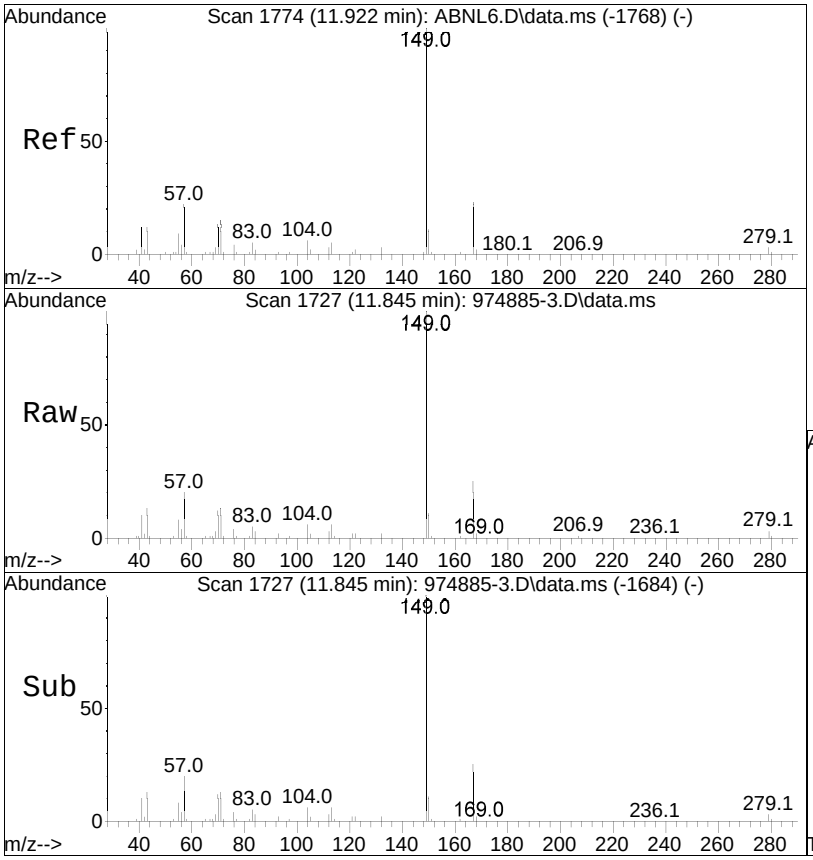


#106
3,3'-Dichlorobenzidine
Concen: 1.81 ug/ml
RT: 11.728 min Scan# 1707
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:252 Resp: 23809

Ion	Ratio	Lower	Upper
252	100		
126	10.6	12.6	19.0#
254	63.3	51.1	76.7

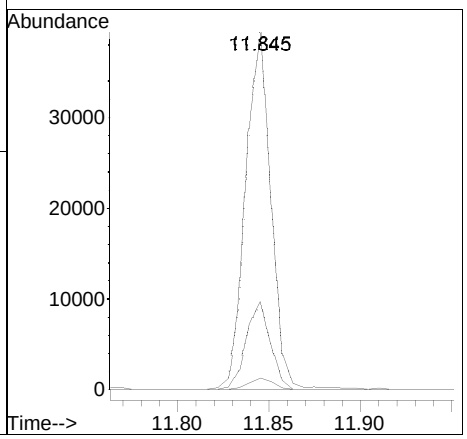


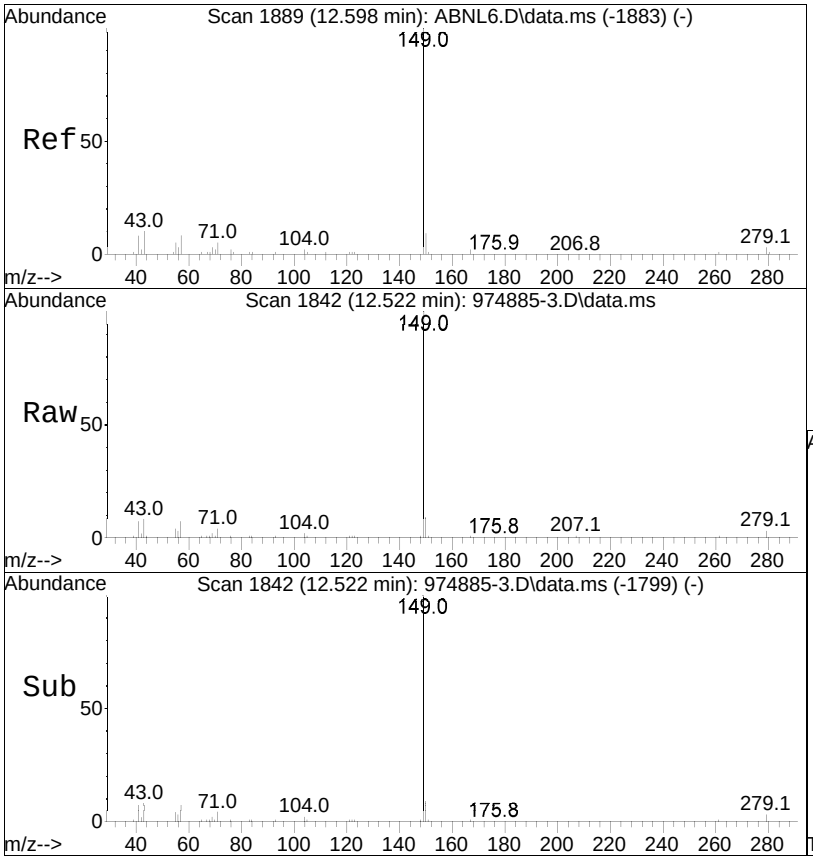


#108
Bis(2-ethylhexyl)phthalate
Concen: 2.10 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:149 Resp: 37533

Ion	Ratio	Lower	Upper
149	100		
167	23.6	18.4	27.6
279	2.9	1.7	2.5#

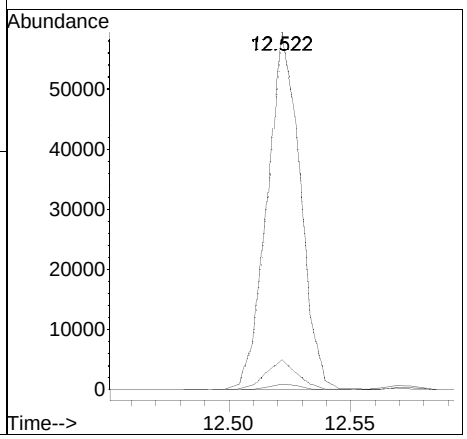




#109
Di-n-octylphthalate
Concen: 2.02 ug/ml
RT: 12.522 min Scan# 1842
Delta R.T. 0.000 min
Lab File: 974885-3.D
Acq: 24 Sep 2024 11:13 am

Tgt Ion:149 Resp: 55440

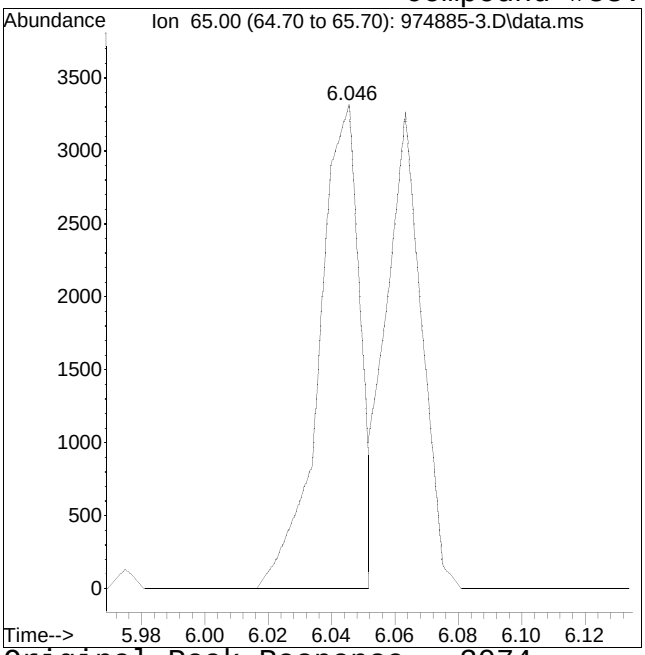
Ion	Ratio	Lower	Upper
149	100		
43	8.2	8.2	12.2
167	1.4	1.1	1.7



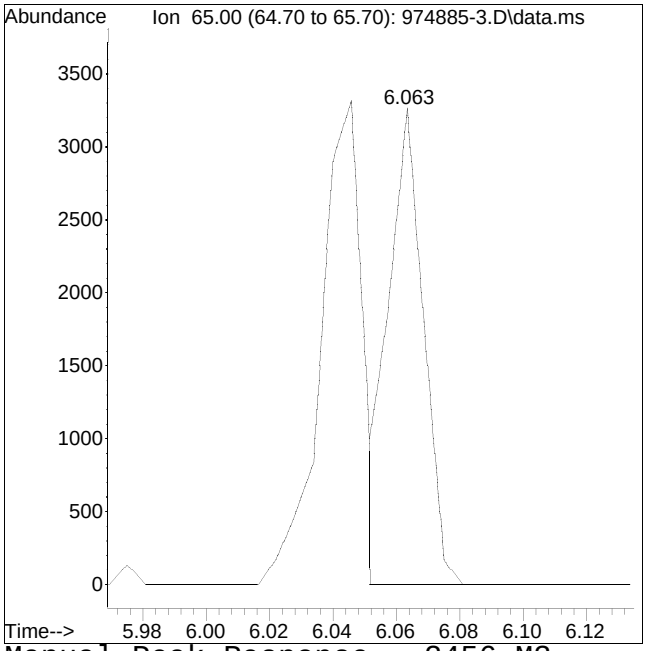
Manual Integration Report

Data Path : I:\8270\SV112\240924RVT\ QMethod : FS240625SV112RVT.m
Data File : 974885-3.D Operator : SV112:slr
Date Inj'd : 9/24/2024 11:13 am Instrument : SV112
Sample : WG1974885-3,32,,gmr Quant Date : 9/24/2024 11:32 am

Compound #38: 4-Chloroaniline



Original Peak Response = 3074



Manual Peak Response = 2456 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 10:44 am

Work Group: WG1974885 for Department: 2 Organic Preparation

Created: 23-SEP-24 Due: Operator: ARP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453342-01	MP-1	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-02	MP-1D	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-03	MW-13D	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-04	MW-13S	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-05	MW-10D	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-06	MW-10S	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-07	MW-6D	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-08	PZ-6	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-10	EQUIPMENT BLANK	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
WG1974885-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1974885-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1974885-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1974885-3 WG1974885-2

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV112\240625RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune Lot#10853	WG1939943	6/25/2024 7:55 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 107	WG1939943	6/25/2024 8:18 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 107	WG1939943	6/25/2024 8:41 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 107	WG1939943	6/25/2024 9:04 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1078	WG1939943	6/25/2024 9:27 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1939943	6/25/2024 9:50 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1078	WG1939943	6/25/2024 10:14 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1939943	6/25/2024 10:37 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1939943	6/25/2024 11:00 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1939943	6/25/2024 11:23 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1939943	6/25/2024 11:47 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1939943	6/26/2024 12:10 am
13	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1079	WG1939943	6/26/2024 12:56 am
14	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1939943	6/26/2024 12:33 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1939943	6/26/2024 1:19 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1079	WG1939943	6/26/2024 1:43 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1939943	6/26/2024 2:06 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1939943	6/26/2024 2:29 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1939943	6/26/2024 2:52 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1939943	6/26/2024 3:16 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1939943	6/26/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune Lot#10853	WG1939943	6/26/2024 4:02 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1939943	6/26/2024 4:25 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1939943	6/26/2024 4:48 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1939943	6/26/2024 5:11 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1079	WG1939943	6/26/2024 5:35 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1939943	6/26/2024 5:58 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1080	WG1939943	6/26/2024 6:21 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1939943	6/26/2024 6:44 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1939943	6/26/2024 7:08 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1939943	6/26/2024 7:31 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1939943	6/26/2024 7:54 am
33	Blank.D	8270RVT.M	Instrument Blank	WG1939943	6/26/2024 8:18 am

WG1963630

Dep.: GCMS
Inst: SV112
Date: **09/24/24**
Run:

Method
GC: 8270RVT

Seq: **WG1975506**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
141	DEG0924	wg-1,32,,SV112 Degdftpp Lot #11002				slr 9/24
142	ABN0924	wg-3,32,,ABN 10908 HNY0924A	**Passes full list, TCLP**			slr 9/24
143	AP90924	wg-4,32,,AP9 10909 gmr0914A	fails, IS high			
144	ADP0924	wg-5,32,,ADP 10751 gmr0914A				slr 9/24
143	AP90924a	wg-4,32,,AP9 10909 HNY0924A				slr 9/24
1	974885-1	WG1974885-1,32,,gmr				slr 9/24
2	974885-2	WG1974885-2,32,,gmr				slr 9/24
3	974885-3	WG1974885-3,32,,gmr				slr 9/24
4	974799-1	WG1974799-1,32,,gmr	RX,BIS>RL		slr	slr 9/24
5	974799-2	WG1974799-2,32,,gmr				slr 9/24
6	974799-3	WG1974799-3,32,,gmr				slr 9/24
7	974981-1	WG1974981/3-1,32,,gmr	RV; BIS >RL		slr	slr 9/24
8	974981-2	WG1974981/3-2,32,,gmr	RV; LCS low		slr	slr 9/24
9	974981-3	WG1974981/3-3,32,,gmr	RV		slr	slr 9/24
10	53311-05	L2453311-05,32,,gmr	RX; FB with BIS >RL		slr	slr 9/24
11	53342-01	L2453342-01,32,,gmr				slr 9/24
12	53342-02	L2453342-02,32,,gmr			Sv-hny	slr 9/24
13	53342-03	L2453342-03,32,,gmr				ek 9/24
14	53342-04	L2453342-04,32,,gmr				ek 9/24
15	53342-05	L2453342-05,32,,gmr				ek 9/24
16	53342-06	L2453342-06,32,,gmr				ek 9/24
17	53342-07	L2453342-07,32,,gmr				ek 9/24
18	53342-08	L2453342-08,32,,gmr				ek 9/24
19	53342-10	L2453342-10,32,,gmr				ek 9/24
20	53490-01	L2453490-01,32,,gmr				slr 9/25
21	53490-02	L2453490-02,32,,gmr				slr 9/25
22	53490-03	L2453490-03,32,,gmr			gmr	slr 9/25
23	975450-2	WG1975450-2,32,,mrg	RV, LCS low		slr	slr 9/25
24	975450-3	WG1975450-3,32,,mrg	RV, LCS low		slr	slr 9/25
25	975450-1	WG1975450-1,32,,mrg				slr 9/25
26	53167-01	L2453167-01,32,,mrg	10x, matrix affecting surr		mrg	
					sv-ljg	

ORGANIC ELN REPORT

Workgroup: WG1974885

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ049
Surrogate Type: ABN **Lot #:** 11001-AS[03/11/25]
Spike Type: ABN **Lot #:** 10948-AG[02/03/25]; 10949-AF
Spike Verify by: ARP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A072424
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ049

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453342-01 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-02 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-03 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-04 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-05 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-06 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K

COMMENTS REQUEST MS/MSD; NOT ENOUGH CONTAINERS PROVIDED

Reported: 25-SEP-24 10:44 AM

ORGANIC ELN REPORT

Workgroup: WG1974885

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453342-07 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-08 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-10 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:08	Alaina Ohara-Cruz	1	K
WG1974885-1 BLANK	09/23/24 02:47 **WG1974887**	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
WG1974885-2 LCS	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1	.1	09/23/24 06:07	Alaina Ohara-Cruz	1	K
WG1974885-3 LCSD	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1	.1	09/23/24 06:07	Alaina Ohara-Cruz	1	K

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MP-1 (L2453342-01)	30	24	108	76	43	84	0
MP-1D (L2453342-02)	50	34	101	72	72	82	0
MW-13D (L2453342-03)	49	35	109	79	72	91	0
WG1974887-1BLANK	36	27	117	80	51	90	0
WG1974887-2LCS	55	41	107	75	93	87	0
WG1974887-3LCSD	38	32	107	73	64	88	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974887-2 **Analysis Date** : 09/23/24 13:51	**File ID**	: 974887-2
LCSD Sample ID	: WG1974887-3 **Analysis Date** : 09/23/24 14:07	**File ID**	: 974887-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	17	84	20	16	83	1	40-140	40
2-Chloronaphthalene	20	16	79	20	16	78	1	40-140	40
Fluoranthene	20	19	93	20	18	92	1	40-140	40
Hexachlorobutadiene	20	15	76	20	15	74	3	40-140	40
Naphthalene	20	15	75	20	15	73	3	40-140	40
Benzo(a)anthracene	20	19	94	20	19	96	2	40-140	40
Benzo(a)pyrene	20	22	111	20	22	111	0	40-140	40
Benzo(b)fluoranthene	20	22	110	20	22	111	1	40-140	40
Benzo(k)fluoranthene	20	21	105	20	21	105	0	40-140	40
Chrysene	20	18	93	20	18	92	1	40-140	40
Acenaphthylene	20	16	81	20	16	81	0	40-140	40
Anthracene	20	18	89	20	18	88	1	40-140	40
Benzo(ghi)perylene	20	20	103	20	20	101	2	40-140	40
Fluorene	20	17	87	20	17	86	1	40-140	40
Phenanthrene	20	17	86	20	17	86	0	40-140	40
Dibenzo(a,h)anthracene	20	18	93	20	18	92	1	40-140	40
Indeno(1,2,3-cd)pyrene	20	22	112	20	22	110	2	40-140	40
Pyrene	20	19	93	20	19	93	0	40-140	40
2-Methylnaphthalene	20	16	80	20	16	78	3	40-140	40
Pentachlorophenol	20	19	94	20	9.7	48	65 Q	40-140	40
Hexachlorobenzene	20	17	85	20	17	85	0	40-140	40
Hexachloroethane	20	16	81	20	16	79	3	40-140	40
Bis(2-chloroethyl)ether	20	16	79	20	16	78	1	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974887-1	**Lab File ID**	: 974887-1
Instrument ID	: SV125	**Extraction Date**	: 09/23/24
Matrix	: WATER	**Analysis Date**	: 09/23/24 14:23
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1974887-2LCS	WG1974887-2	09/23/24 13:51
WG1974887-3LCSD	WG1974887-3	09/23/24 14:07
MP-1	L2453342-01	09/23/24 14:39
MP-1D	L2453342-02	09/23/24 14:55
MW-13D	L2453342-03	09/23/24 15:12

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 09/17/24 18:19
Tune Standard	: R1877935-12	**Tune File ID**	: Tunea_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	57.2
68	Less than 2.0% of mass 69	0.8 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	52.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 60.0% of Base Peak	25.7
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	89.4
443	15.0 - 24.0% of mass 442	17 (19.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1877935-2	IL10	09/17/24 18:45
IL9	R1877935-10	IL9	09/17/24 19:01
IL8	R1877935-9	IL8	09/17/24 19:17
IL7	R1877935-8	IL7	09/17/24 19:33
IL6	R1877935-7	IL6	09/17/24 19:49
IL5	R1877935-6	IL5	09/17/24 20:05
IL4	R1877935-5	IL4	09/17/24 20:21
IL3	R1877935-4	IL3	09/17/24 20:37
IL2	R1877935-3	IL2	09/17/24 20:53
IL1	R1877935-1	IL1	09/17/24 21:09
ICV Quant Report	R1877935-11	ICV	09/17/24 21:25

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 09/23/24 09:26
Tune Standard	: WG1975073-1	**Tune File ID**	: deg0923a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.9
68	Less than 2.0% of mass 69	0.5 (1.2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	50.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	19.2
442	Base Peak, or >50% of mass 198	94.2
443	15.0 - 24.0% of mass 442	17.8 (18.9)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975073-4TFACTOR-B	WG1975073-4	DEG0923A	09/23/24 09:26
WG1975073-5TFACTOR-P	WG1975073-5	DEG0923A	09/23/24 09:26
WG1975073-3CCAL	WG1975073-3	CCV0923A	09/23/24 09:46
WG1974887-2LCS	WG1974887-2	974887-2	09/23/24 13:51
WG1974887-3LCSD	WG1974887-3	974887-3	09/23/24 14:07
WG1974887-1BLANK	WG1974887-1	974887-1	09/23/24 14:23
MP-1	L2453342-01	53342-01	09/23/24 14:39
MP-1D	L2453342-02	53342-02	09/23/24 14:55
MW-13D	L2453342-03	53342-03	09/23/24 15:12

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 09/23/24 09:46:00
Sample No	: WG1975073-3	**Lab File ID**	: CCV0923A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975073-3	460069	2.23	1621592	2.90	1067942	3.88
Upper Limit	920138	2.73	3243184	3.40	2135884	4.38
Lower Limit	230035	1.73	810796	2.40	533971	3.38
Sample ID						
WG1974887-2 LCS	387834	2.24	1386986	2.90	806236	3.89
WG1974887-3 LCSD	397225	2.24	1424376	2.91	831869	3.89
WG1974887-1 BLANK	356893	2.24	1223962	2.91	711429	3.88
MP-1	393820	2.24	1347740	2.90	796674	3.88
MP-1D	353765	2.24	1220581	2.91	715061	3.88
MW-13D	341899	2.24	1175860	2.91	688985	3.88

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 09/23/24 09:46:00
Sample No	: WG1975073-3	**Lab File ID**	: CCV0923A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975073-3	2401860	4.72	2825989	6.28	3363993	7.49
Upper Limit	4803720	5.22	5651978	6.78	6727986	7.99
Lower Limit	1200930	4.22	1412995	5.78	1681997	6.99
Sample ID						
WG1974887-2 LCS	1695870	4.73	1775037	6.26	2014156	7.46
WG1974887-3 LCSD	1753832	4.73	1810651	6.26	2006233	7.46
WG1974887-1 BLANK	1473442	4.72	1576970	6.26	1767560	7.46
MP-1	1665516	4.73	1737527	6.26	1905019	7.46
MP-1D	1520781	4.73	1626792	6.26	1797422	7.46
MW-13D	1447537	4.72	1562136	6.26	1753810	7.46

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

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

EPA 8270E Low Level PAH (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:39
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	0.02	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:39
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:55
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-02	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:55
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-02	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 15:12
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-03	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 15:12
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53342-03	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974887-1	**Date Collected**	: NA
Client ID	: WG1974887-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 14:23
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 974887-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974887-1	**Date Collected**	: NA
Client ID	: WG1974887-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 14:23
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 974887-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-01.D
Acq On : 23 Sep 2024 02:39 pm
Operator : SV125:rp
Sample : L2453342-01,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 19:42:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	393820	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 85.60%			
8) Naphthalene-d8	2.904	136	1347740	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 83.11%			
17) Acenaphthene-d10	3.883	164	796674	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 74.60%			
22) Phenanthrene-d10	4.725	188	1665516	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 69.34%			
31) Chrysene-d12	6.262	240	1737527	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 61.48%			
36) Perylene-d12	7.460	264	1905019	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 56.63%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	57977	598.265	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 29.91%			
3) Phenol-d6	2.050	99	57523	481.312	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.07%			
7) Nitrobenzene-d5	2.521	82	66357	1079.532	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.95%			
13) 2-Fluorobiphenyl	3.504	172	218266	764.288	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.43%			
21) 2,4,6-Tribromophenol	4.327	330	30030	868.189	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.41%			
30) 4-Terphenyl-d14	5.633	244	284827	841.534	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.15%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D. d		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	4.510	284	166	1.557	ng/ml	97

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-01.D
Acq On : 23 Sep 2024 02:39 pm
Operator : SV125:rp
Sample : L2453342-01,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 19:42:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

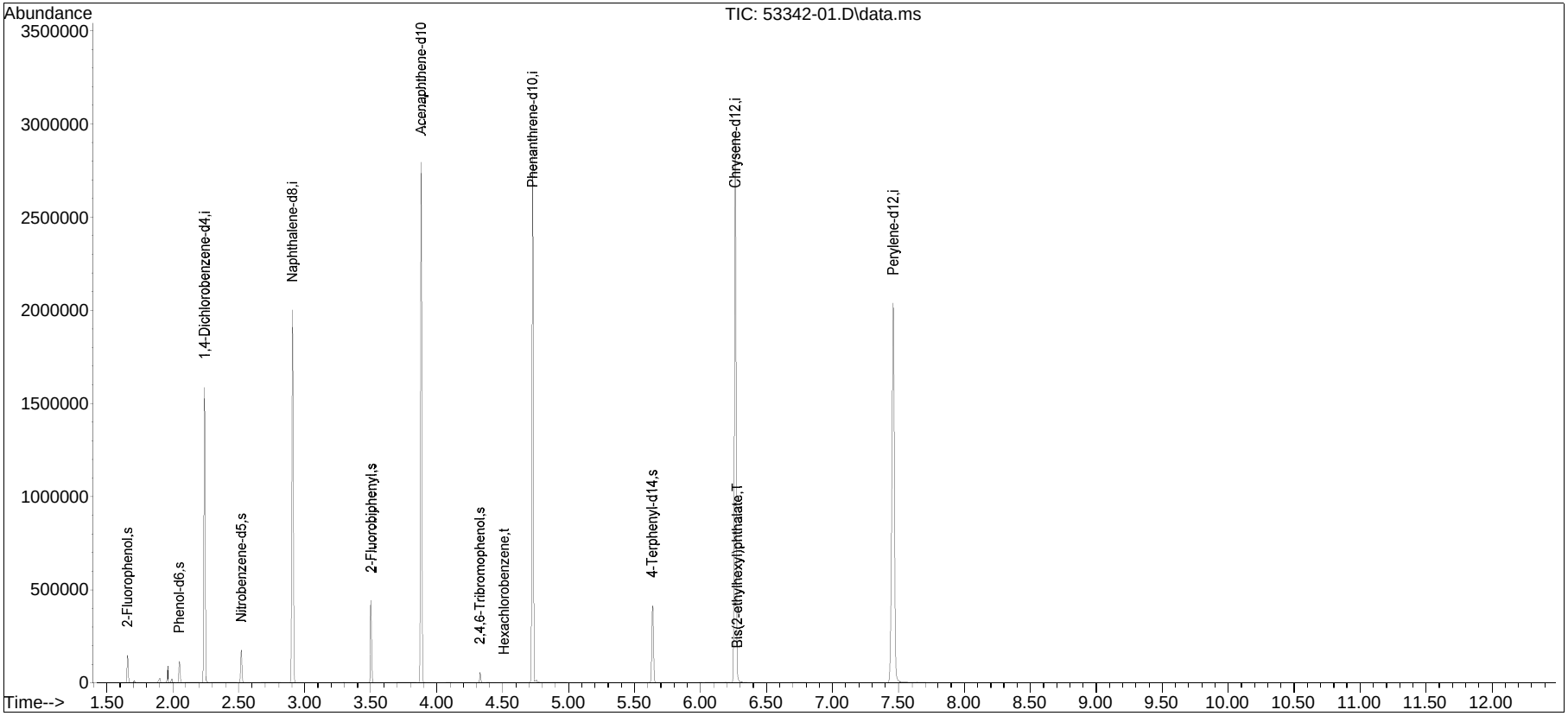
(#) = qualifier out of range (m) = manual integration (+) = signals summed

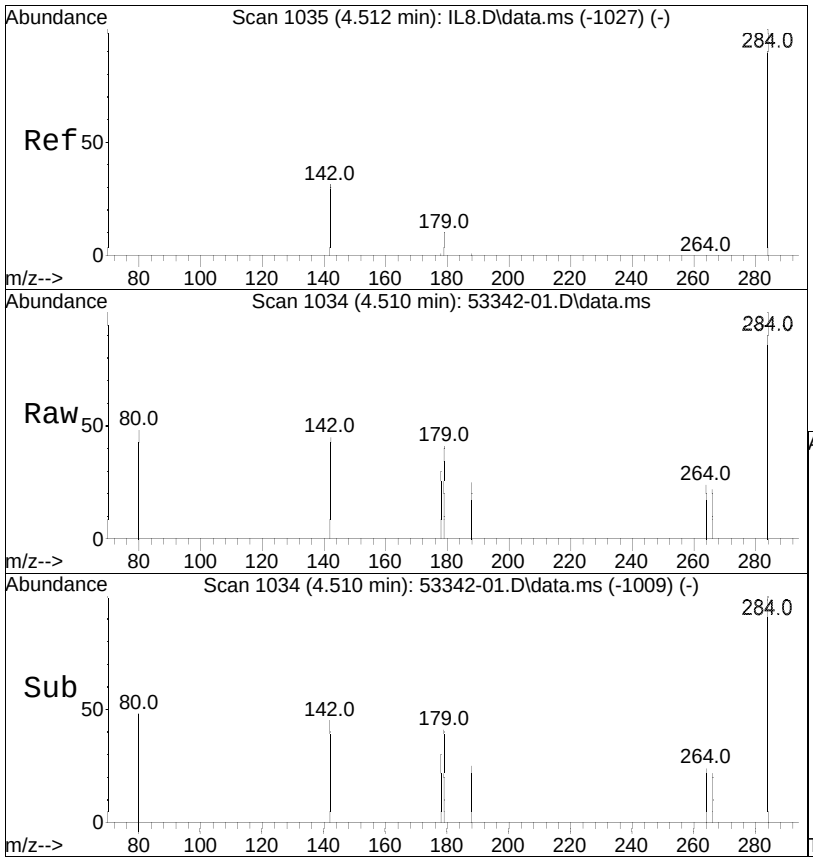
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-01.D
Acq On : 23 Sep 2024 02:39 pm
Operator : SV125:rp
Sample : L2453342-01,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 19:42:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

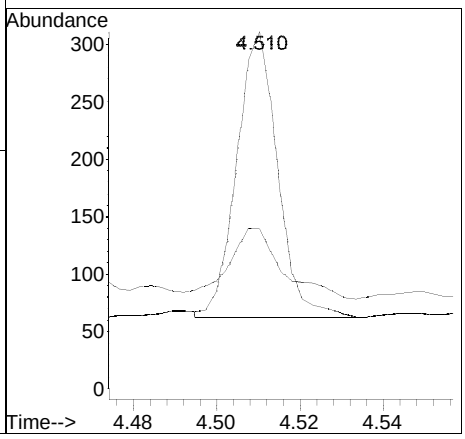




#24
Hexachlorobenzene
Concen: 1.56 ng/ml
RT: 4.510 min Scan# 1034
Delta R.T. 0.001 min
Lab File: 53342-01.D
Acq: 23 Sep 2024 02:39 pm

Tgt Ion:284 Resp: 166

Ion	Ratio	Lower	Upper
284	100		
142	31.9	24.4	36.6



Manual Integration Report

Data Path	: I:\8270SIM\SV125\240923a	RVQMethod	: SIM-RVT_240917n_sv125.M
Data File	: 53342-01.D	Operator	: SV125:rp
Date Inj'd	: 9/23/2024 2:39 pm	Instrument	: SV125
Sample	: L2453342-01,32,,kmh	Quant Date	: 9/23/2024 2:54 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-02.D
Acq On : 23 Sep 2024 02:55 pm
Operator : SV125:rp
Sample : L2453342-02,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 19:45:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	353765	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 76.89%			
8) Naphthalene-d8	2.905	136	1220581	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 75.27%			
17) Acenaphthene-d10	3.884	164	715061	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 66.96%			
22) Phenanthrene-d10	4.726	188	1520781	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 63.32%			
31) Chrysene-d12	6.262	240	1626792	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 57.57%			
36) Perylene-d12	7.460	264	1797422	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 53.43%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	86203	990.246	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.51%			
3) Phenol-d6	2.050	99	72292	673.378	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.67%			
7) Nitrobenzene-d5	2.521	82	55816	1010.859	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.09%			
13) 2-Fluorobiphenyl	3.505	172	185249	716.253	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.63%			
21) 2,4,6-Tribromophenol	4.328	330	44844	1444.444	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 72.22%			
30) 4-Terphenyl-d14	5.634	244	254606	823.837	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 82.38%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.511	284	130M7	1.336	ng/ml	

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-02.D
Acq On : 23 Sep 2024 02:55 pm
Operator : SV125:rp
Sample : L2453342-02,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 19:45:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

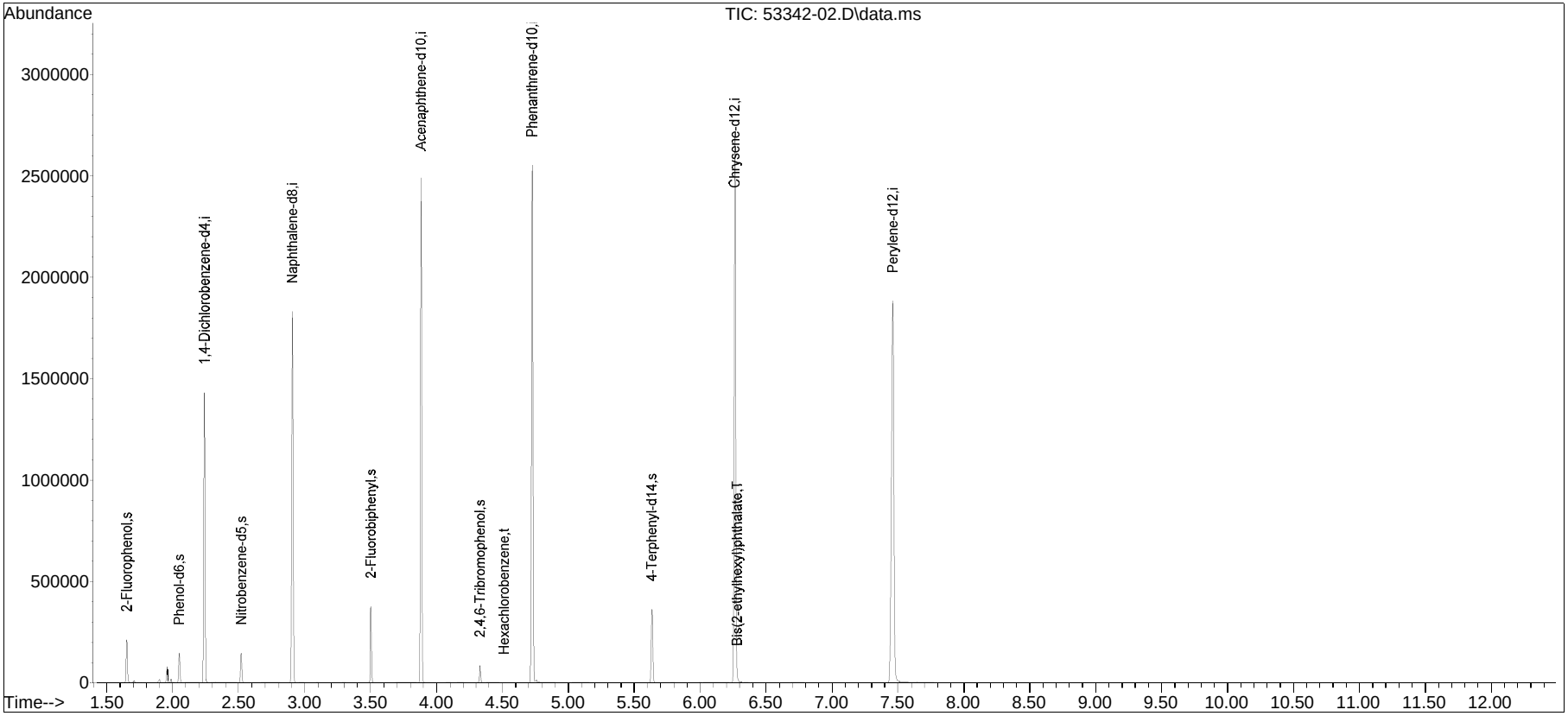
(#) = qualifier out of range (m) = manual integration (+) = signals summed

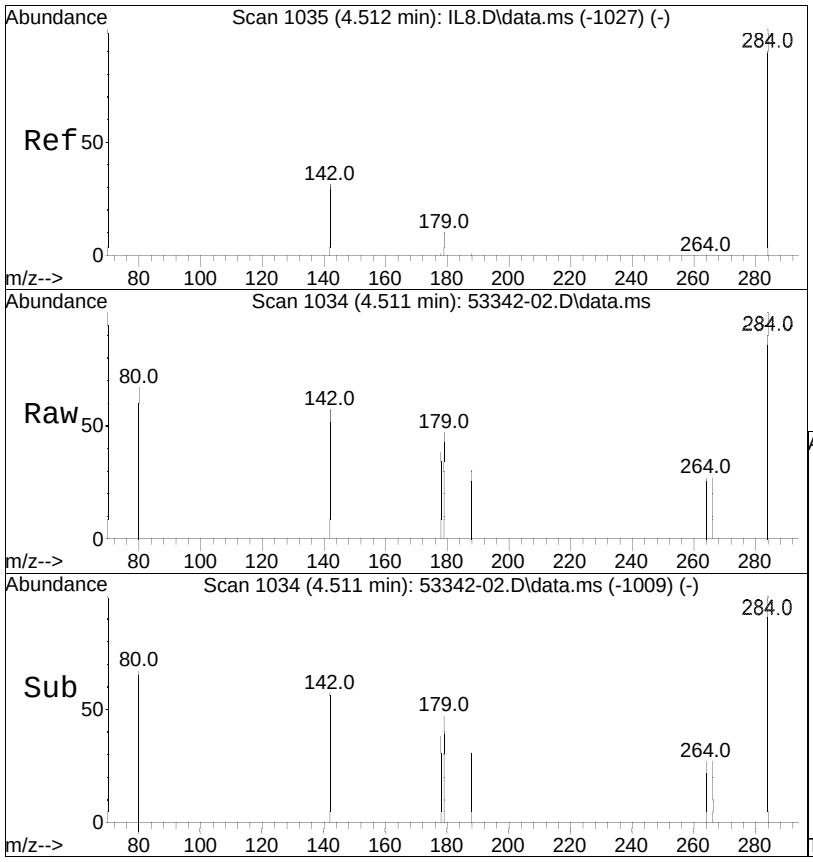
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-02.D
Acq On : 23 Sep 2024 02:55 pm
Operator : SV125:rp
Sample : L2453342-02,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 19:45:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

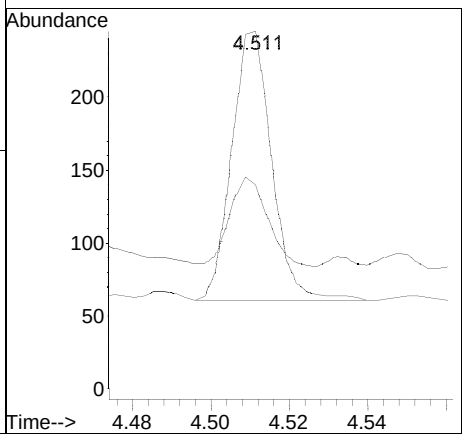




#24
Hexachlorobenzene
Concen: 1.34 ng/ml M7
RT: 4.511 min Scan# 1034
Delta R.T. 0.002 min
Lab File: 53342-02.D
Acq: 23 Sep 2024 02:55 pm

Tgt Ion:284 Resp: 130

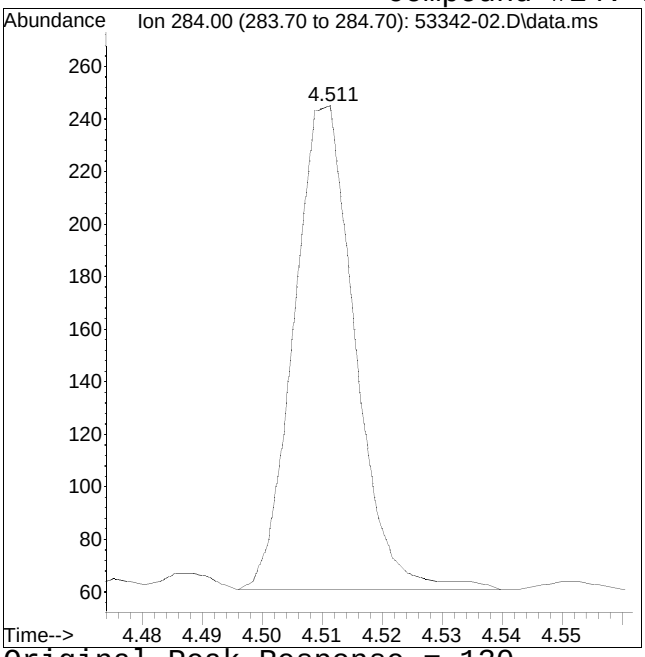
Ion	Ratio	Lower	Upper
284	100		
142	29.2	24.4	36.6



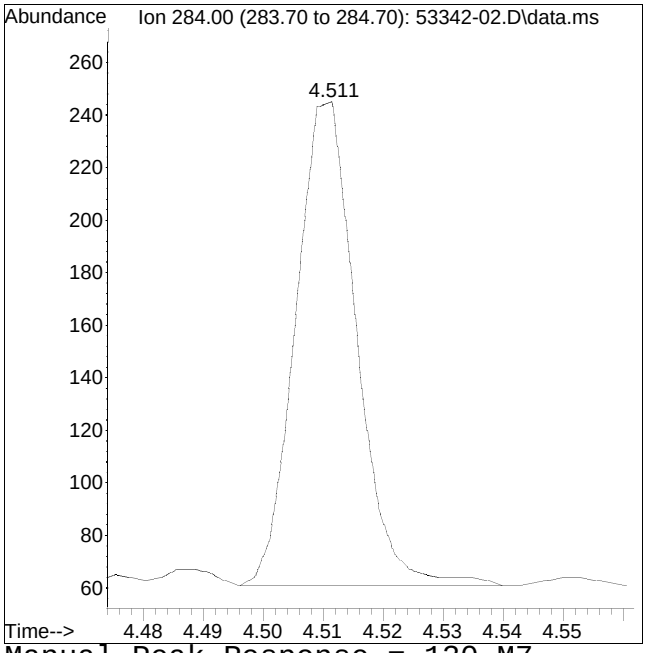
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 53342-02.D Operator : SV125:rp
Date Inj'd : 9/23/2024 2:55 pm Instrument : SV125
Sample : L2453342-02,32,,kmh Quant Date : 9/23/2024 3:10 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 130



Manual Peak Response = 130 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-03.D
Acq On : 23 Sep 2024 03:12 pm
Operator : SV125:rp
Sample : L2453342-03,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:51:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.241	152	341899	4000.000 ng/ml	0.01
Standard Area 1 = 460069			Recovery	= 74.31%	
8) Naphthalene-d8	2.905	136	1175860	4000.000 ng/ml	0.00
Standard Area 1 = 1621592			Recovery	= 72.51%	
17) Acenaphthene-d10	3.884	164	688985	4000.000 ng/ml	0.00
Standard Area 1 = 1067942			Recovery	= 64.52%	
22) Phenanthrene-d10	4.723	188	1447537	4000.000 ng/ml	0.00
Standard Area 1 = 2401860			Recovery	= 60.27%	
31) Chrysene-d12	6.264	240	1562136	4000.000 ng/ml	-0.02
Standard Area 1 = 2825989			Recovery	= 55.28%	
36) Perylene-d12	7.460	264	1753810	4000.000 ng/ml	-0.03
Standard Area 1 = 3363993			Recovery	= 52.13%	
System Monitoring Compounds					
2) 2-Fluorophenol	1.653	112	82576	981.503 ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 49.08%	
3) Phenol-d6	2.050	99	72136	695.245 ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 34.76%	
7) Nitrobenzene-d5	2.521	82	58398	1094.326 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 109.43%	
13) 2-Fluorobiphenyl	3.505	172	195795	785.820 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 78.58%	
21) 2,4,6-Tribromophenol	4.328	330	43304	1447.630 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 72.38%	
30) 4-Terphenyl-d14	5.635	244	266881	907.250 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 90.72%	
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d	
6) Hexachloroethane	0.000		0	N.D. d	
9) Naphthalene	0.000		0	N.D. d	
10) Hexachlorobutadiene	0.000		0	N.D.	
11) 2-Methylnaphthalene	0.000		0	N.D. d	
14) 2-Chloronaphthalene	0.000		0	N.D.	
16) Acenaphthylene	0.000		0	N.D.	
18) Acenaphthene	0.000		0	N.D. d	
20) Fluorene	0.000		0	N.D. d	
24) Hexachlorobenzene	0.000		0	N.D.	

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-03.D
Acq On : 23 Sep 2024 03:12 pm
Operator : SV125:rp
Sample : L2453342-03,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:51:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

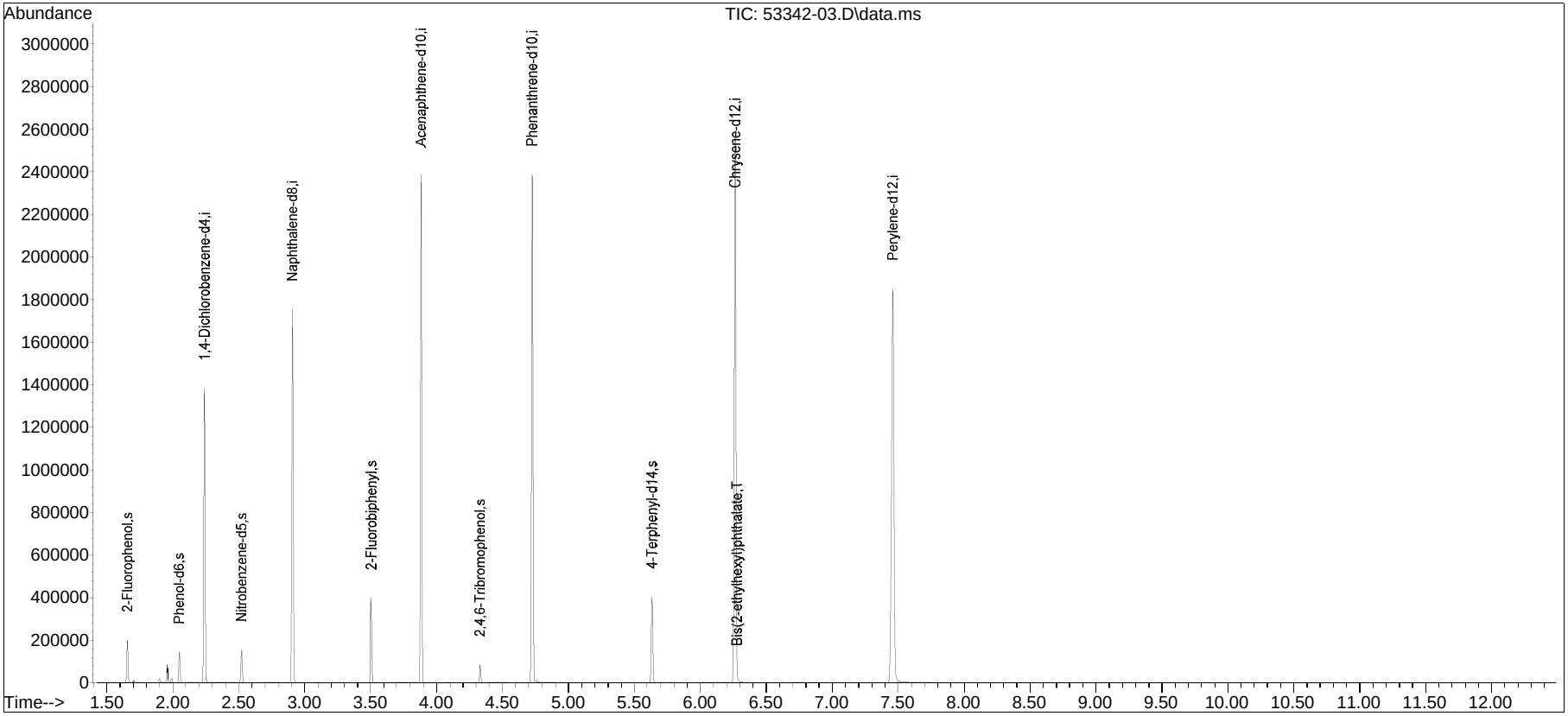
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-03.D
Acq On : 23 Sep 2024 03:12 pm
Operator : SV125:rp
Sample : L2453342-03,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:51:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\240923aRVQ	Method	: SIM-RVT_240917n_sv125.M
Data File	: 53342-03.D	Operator	: SV125:rp
Date Inj'd	: 9/23/2024 3:12 pm	Instrument	: SV125
Sample	: L2453342-03,32,,kmh	Quant Date	: 9/23/2024 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-04.D
Acq On : 23 Sep 2024 03:28 pm
Operator : SV125:ljg
Sample : L2453342-04,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 07:35:17 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	366610	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 79.69%			
8) Naphthalene-d8	2.904	136	1261812	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 77.81%			
17) Acenaphthene-d10	3.883	164	750408	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 70.27%			
22) Phenanthrene-d10	4.724	188	1614255	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 67.21%			
31) Chrysene-d12	6.263	240	1763598	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 62.41%			
36) Perylene-d12	7.462	264	1938473	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 57.62%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	75982	842.252	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 42.11%			
3) Phenol-d6	2.052	99	68416	614.946	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.75%			
7) Nitrobenzene-d5	2.521	82	59243	1035.331	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 103.53%			
13) 2-Fluorobiphenyl	3.504	172	199049	744.462	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.45%			
21) 2,4,6-Tribromophenol	4.330	330	41124	1262.227	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.11%			
30) 4-Terphenyl-d14	5.637	244	284893	868.458	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.85%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D.	
16) Acenaphthylene	0.000	0	N.D.	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D.	

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-04.D
Acq On : 23 Sep 2024 03:28 pm
Operator : SV125:ljg
Sample : L2453342-04,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 07:35:17 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

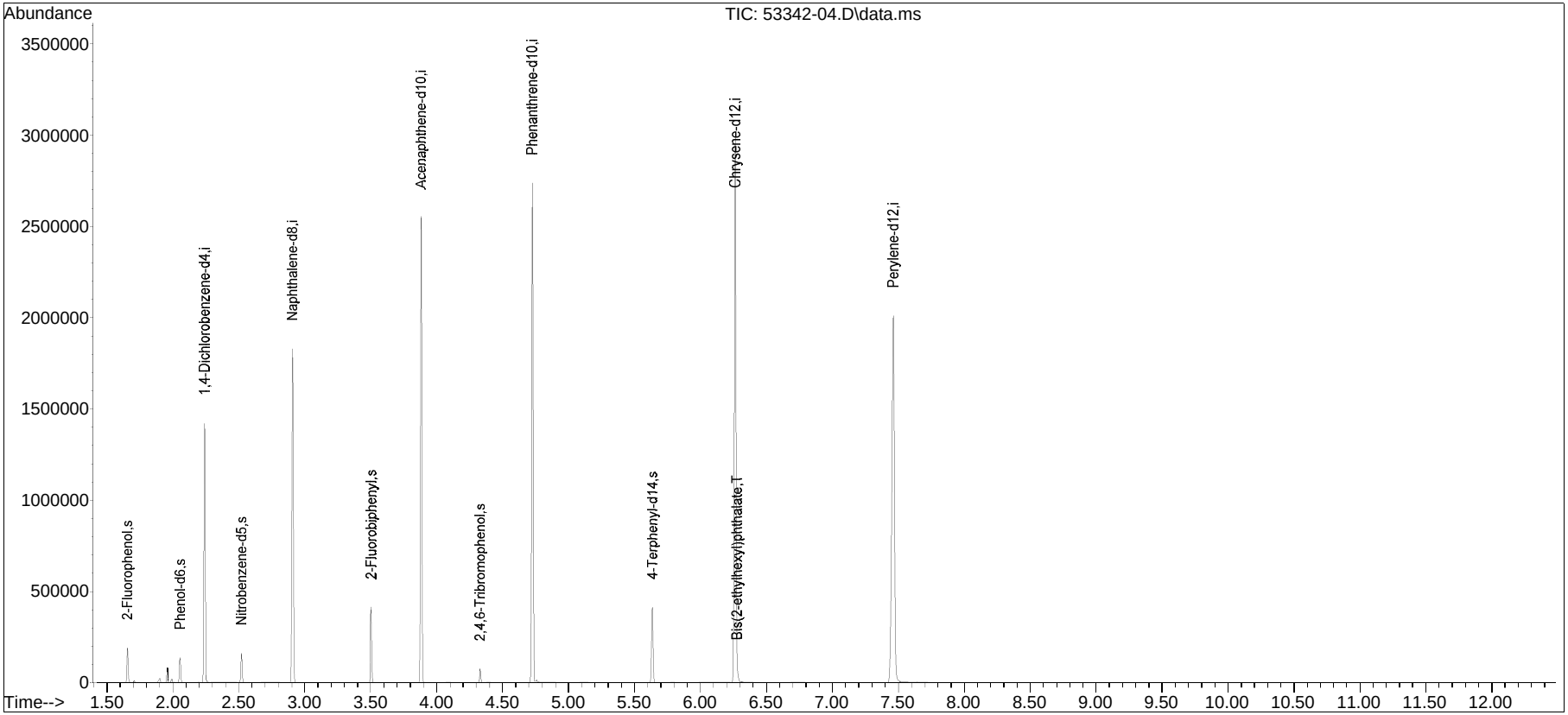
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-04.D
Acq On : 23 Sep 2024 03:28 pm
Operator : SV125:ljg
Sample : L2453342-04,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 07:35:17 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-05.D
Acq On : 23 Sep 2024 03:44 pm
Operator : SV125:ljg
Sample : L2453342-05,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 07:40:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.243	152	368714	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 80.14%			
8) Naphthalene-d8	2.904	136	1263395	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 77.91%			
17) Acenaphthene-d10	3.885	164	748874	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 70.12%			
22) Phenanthrene-d10	4.725	188	1587961	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 66.11%			
31) Chrysene-d12	6.261	240	1693240	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 59.92%			
36) Perylene-d12	7.460	264	1842111	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 54.76%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	93179	1026.985	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.35%			
3) Phenol-d6	2.052	99	79265	708.395	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.42%			
7) Nitrobenzene-d5	2.521	82	64332	1117.851	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 111.79%			
13) 2-Fluorobiphenyl	3.504	172	215020	803.188	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.32%			
21) 2,4,6-Tribromophenol	4.327	330	49466	1521.379	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 76.07%			
30) 4-Terphenyl-d14	5.634	244	289639	897.545	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.75%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.914	128	6690	19.881	ng/ml#	96
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-05.D
Acq On : 23 Sep 2024 03:44 pm
Operator : SV125:ljg
Sample : L2453342-05,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 07:40:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.624	266	48M1	9.144	ng/ml	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

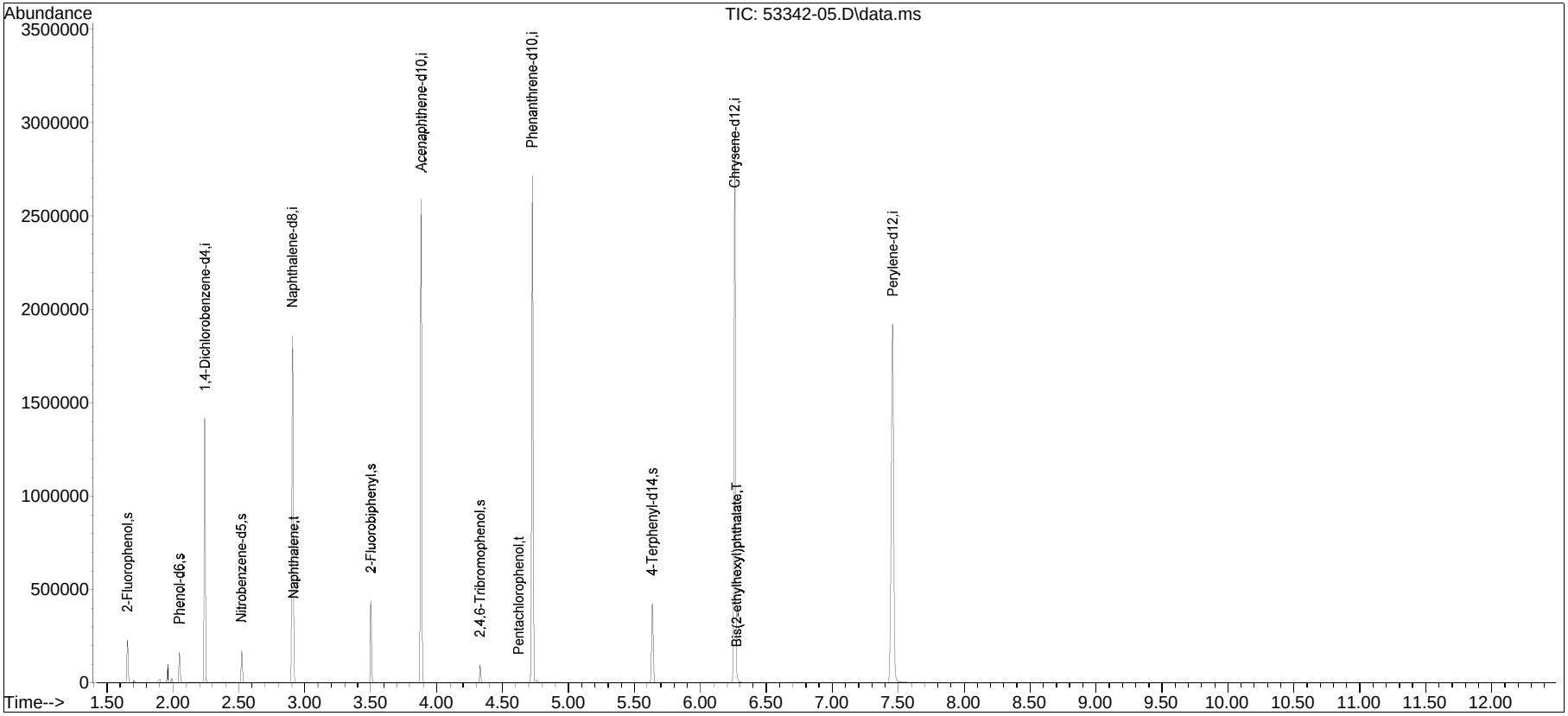
(#) = qualifier out of range (m) = manual integration (+) = signals summed

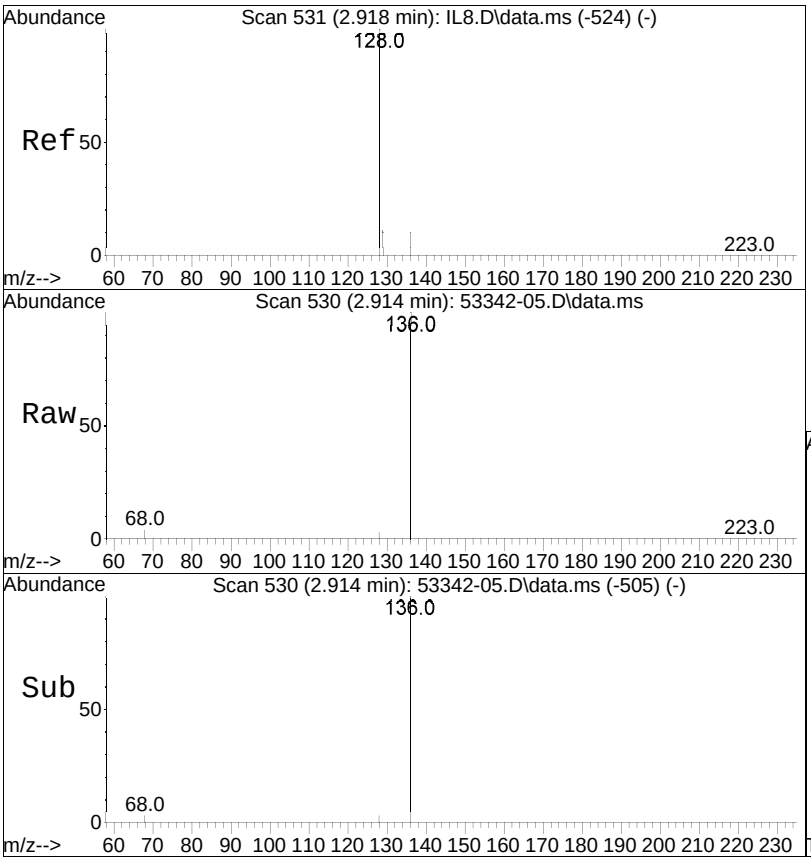
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-05.D
Acq On : 23 Sep 2024 03:44 pm
Operator : SV125:ljg
Sample : L2453342-05,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 07:40:18 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

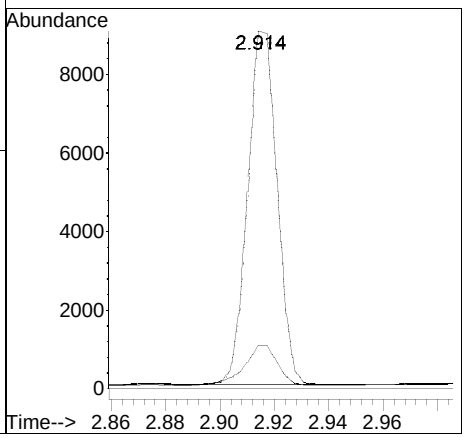


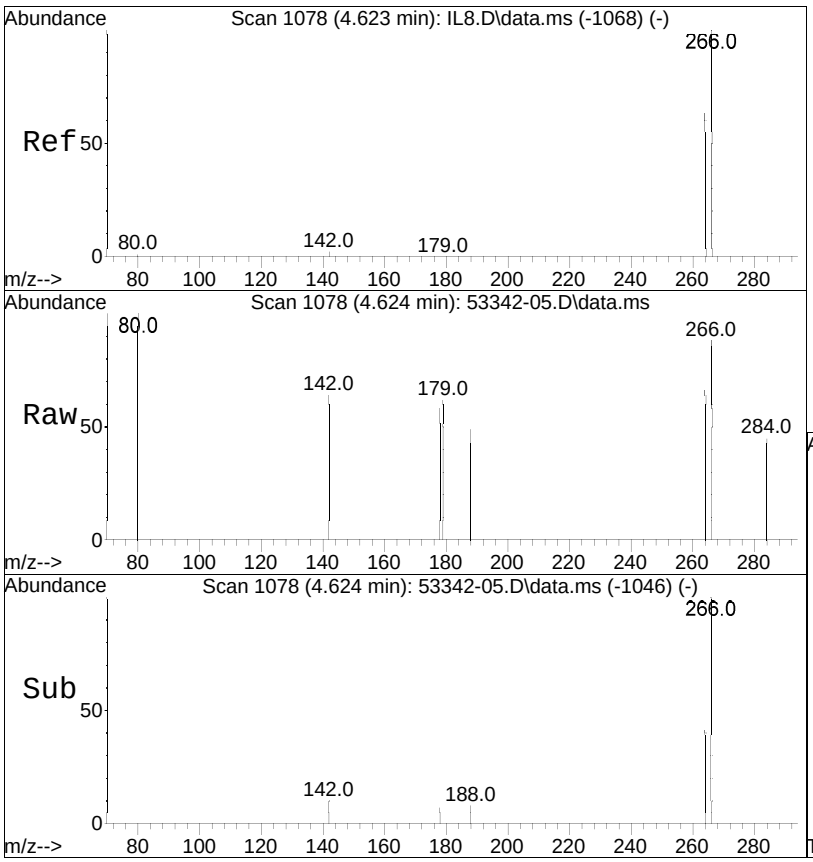


#9
Naphthalene
Concen: 19.88 ng/ml
RT: 2.914 min Scan# 530
Delta R.T. 0.003 min
Lab File: 53342-05.D
Acq: 23 Sep 2024 03:44 pm

Tgt Ion:128 Resp: 6690

Ion	Ratio	Lower	Upper
128	100		
129	12.6	8.8	13.2
127	0.0	0.0	0.0

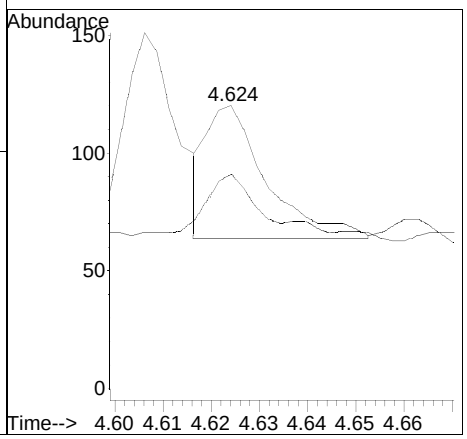




#25
Pentachlorophenol
Concen: 9.14 ng/ml M1
RT: 4.624 min Scan# 1078
Delta R.T. 0.003 min
Lab File: 53342-05.D
Acq: 23 Sep 2024 03:44 pm

Tgt Ion:266 Resp: 48

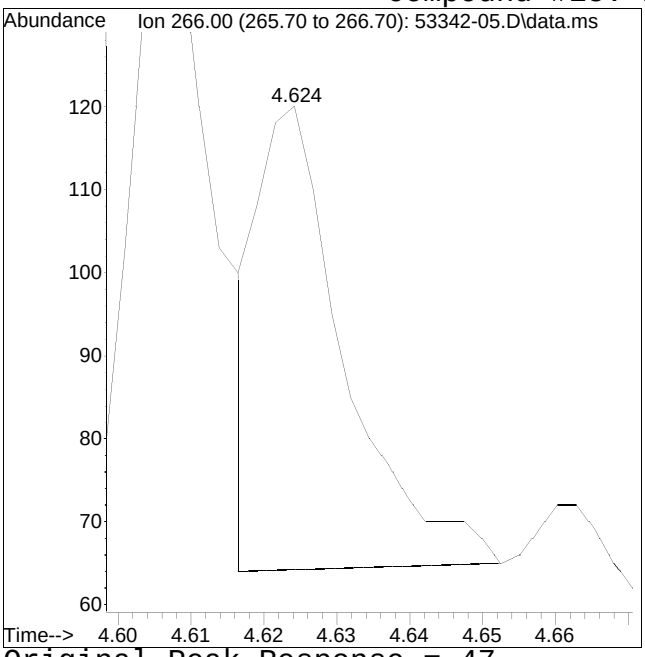
Ion	Ratio	Lower	Upper
266	100		
264	60.4	50.4	75.6



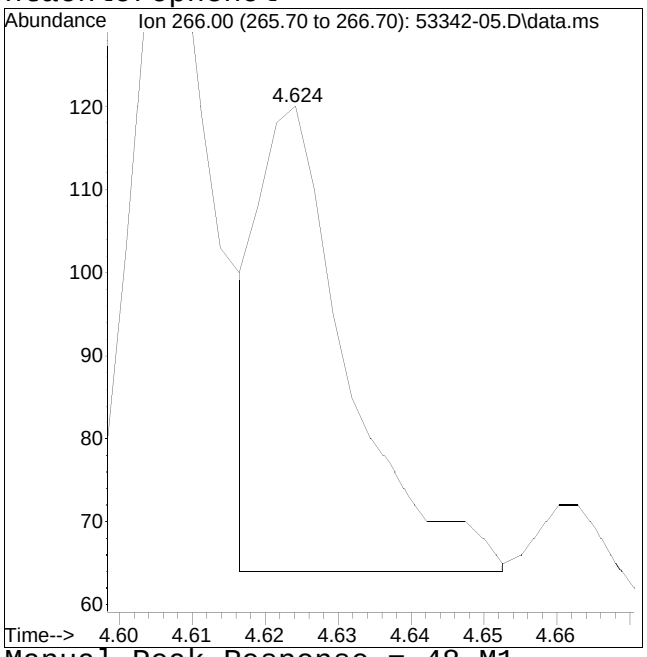
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 53342-05.D Operator : SV125:ljg
Date Inj'd : 9/23/2024 3:44 pm Instrument : SV125
Sample : L2453342-05,32,,kmh Quant Date : 9/23/2024 3:58 pm

Compound #25: Pentachlorophenol



Original Peak Response = 47



Manual Peak Response = 48 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-06.D
Acq On : 23 Sep 2024 04:00 pm
Operator : SV125:ljg
Sample : L2453342-06,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 13:29:21 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	381602	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 82.94%			
8) Naphthalene-d8	2.904	136	1309304	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 80.74%			
17) Acenaphthene-d10	3.884	164	779551	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 73.00%			
22) Phenanthrene-d10	4.725	188	1656570	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 68.97%			
31) Chrysene-d12	6.263	240	1757716	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 62.20%			
36) Perylene-d12	7.462	264	1916645	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 56.98%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	49571	527.901	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.40%			
3) Phenol-d6	2.053	99	48174	415.992	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 20.80%			
7) Nitrobenzene-d5	2.521	82	59976	1006.963	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 100.70%			
13) 2-Fluorobiphenyl	3.504	172	199704	719.819	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.98%			
21) 2,4,6-Tribromophenol	4.327	330	24338	719.084	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.95%			
30) 4-Terphenyl-d14	5.636	244	264411	785.433	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.54%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	4.190	166	546	2.095	ng/ml	96
24) Hexachlorobenzene	4.511	284	259	2.443	ng/ml	97

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-06.D
Acq On : 23 Sep 2024 04:00 pm
Operator : SV125:ljg
Sample : L2453342-06,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 13:29:21 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.738	178	1033M6	2.417	ng/ml	
27) Anthracene	4.766	178	725	1.710	ng/ml	99
28) Fluoranthene	5.414	202	809	1.669	ng/ml	96
29) Pyrene	5.542	202	744	1.455	ng/ml	96
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

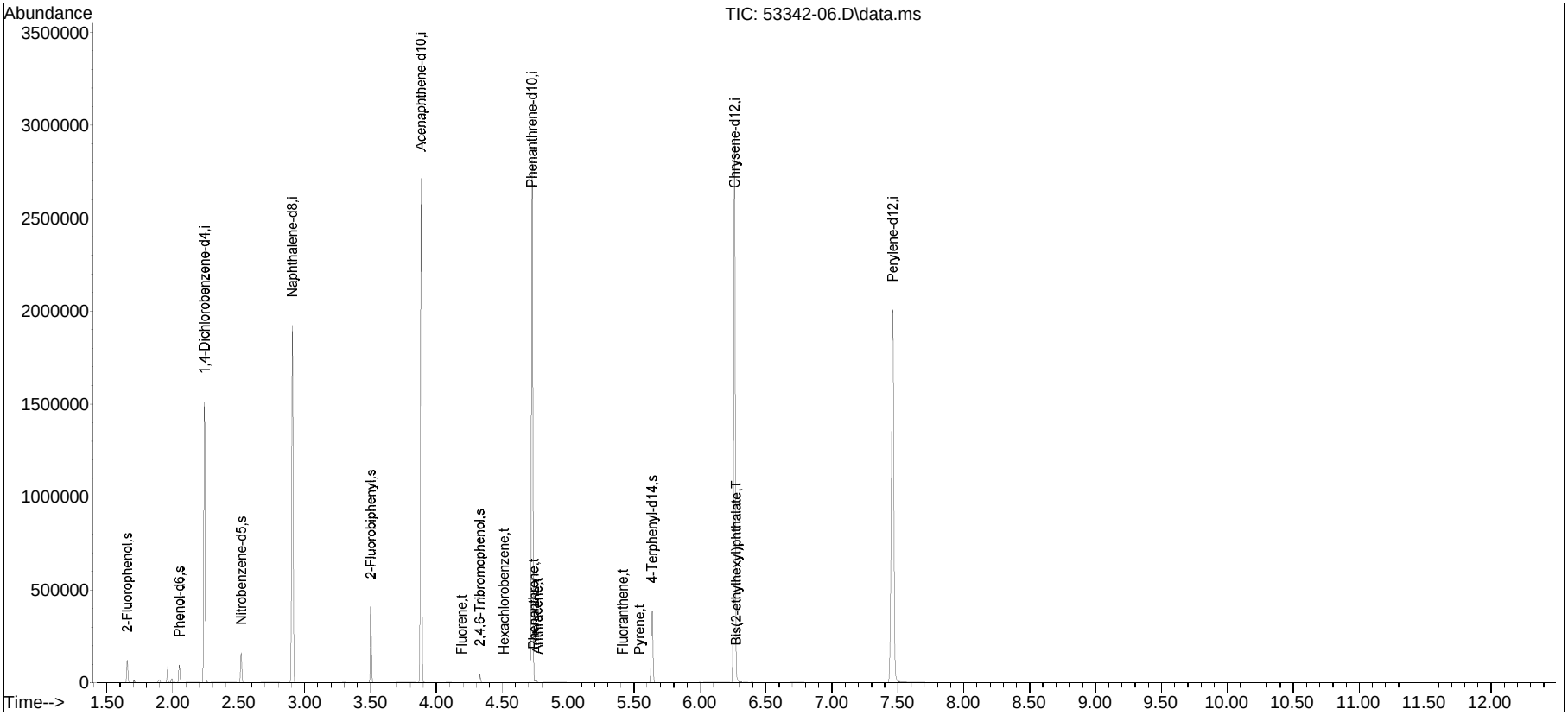
(#) = qualifier out of range (m) = manual integration (+) = signals summed

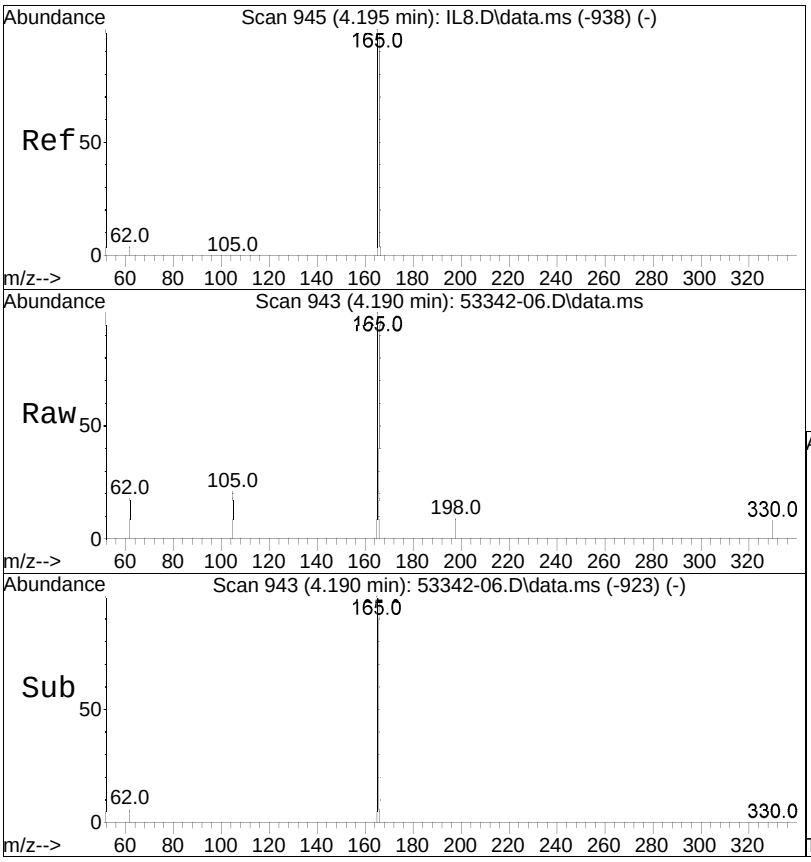
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-06.D
Acq On : 23 Sep 2024 04:00 pm
Operator : SV125:ljg
Sample : L2453342-06,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 13:29:21 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

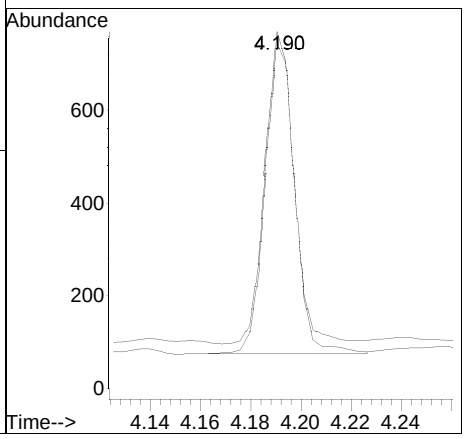


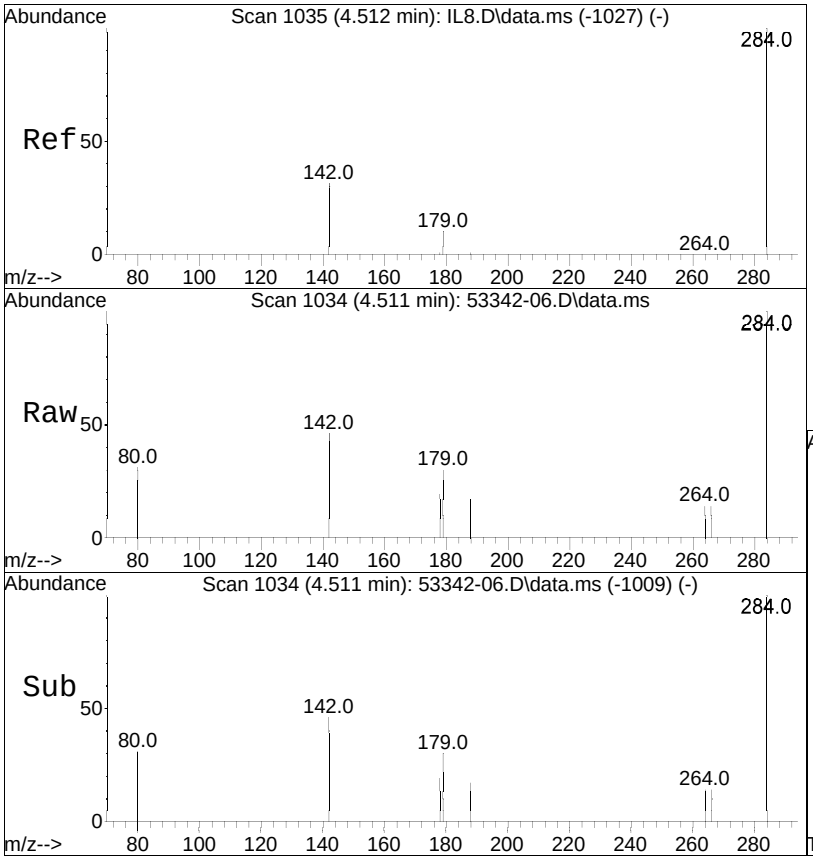


#20
Fluorene
Concen: 2.10 ng/ml
RT: 4.190 min Scan# 943
Delta R.T. 0.001 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:166 Resp: 546

Ion	Ratio	Lower	Upper
166	100		
165	98.4	82.0	123.0

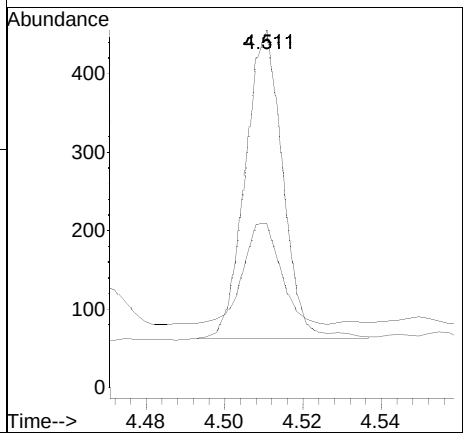


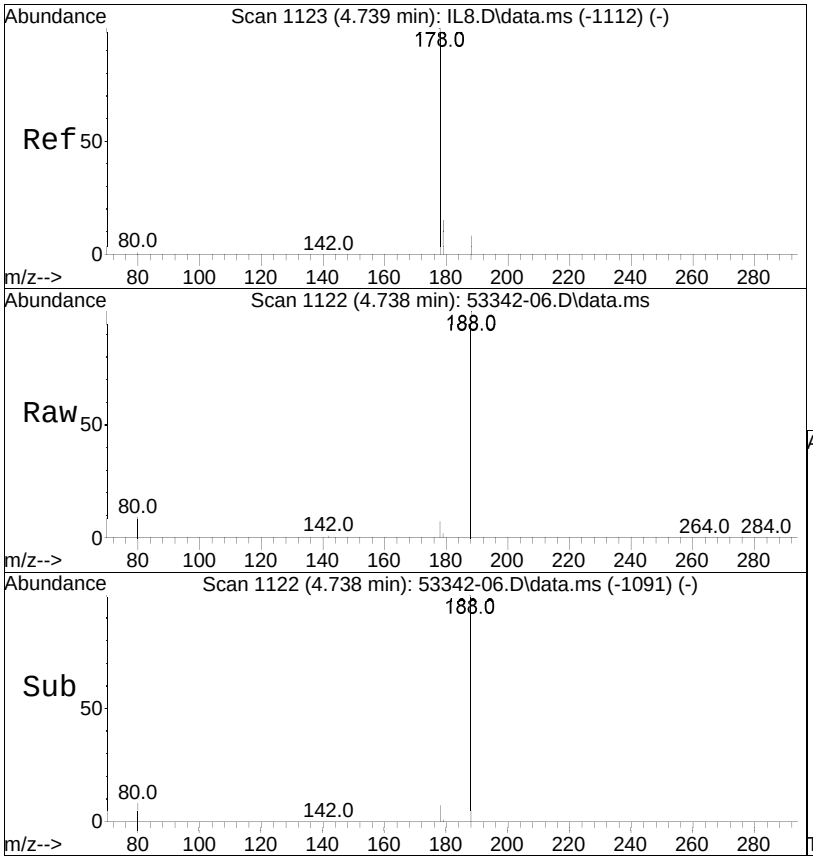


#24
Hexachlorobenzene
Concen: 2.44 ng/ml
RT: 4.511 min Scan# 1034
Delta R.T. 0.001 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:284 Resp: 259

Ion	Ratio	Lower	Upper
284	100		
142	32.0	24.4	36.6

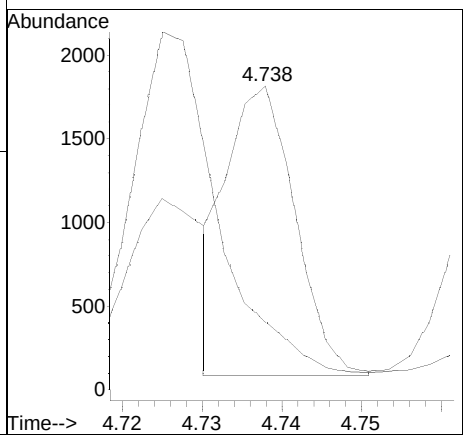


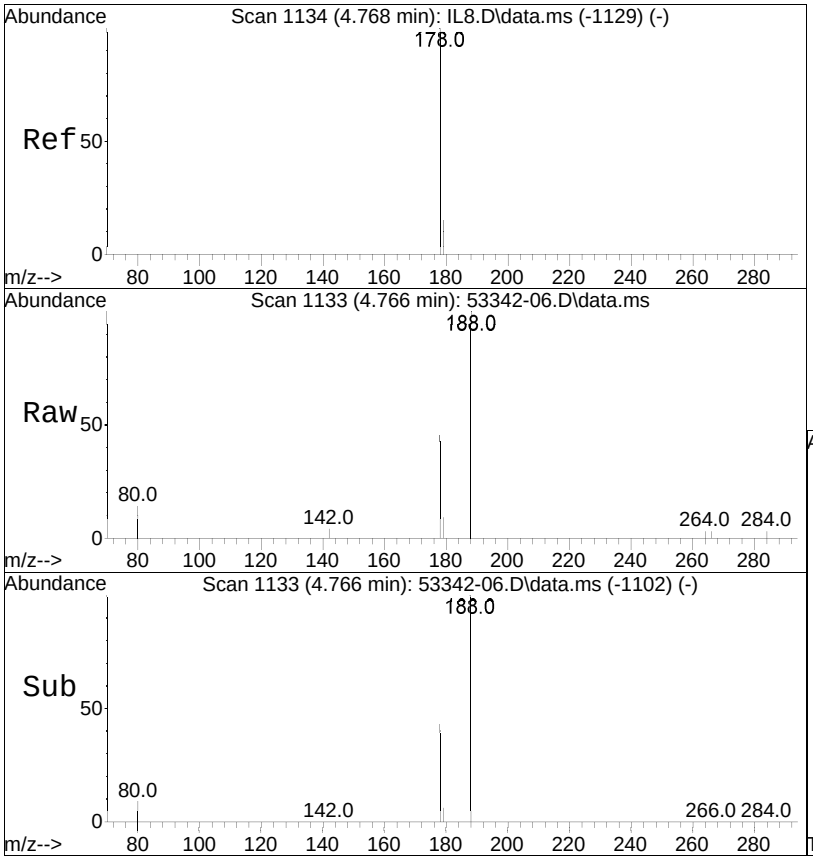


#26
Phenanthrene
Concen: 2.42 ng/ml M6
RT: 4.738 min Scan# 1122
Delta R.T. 0.001 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:178 Resp: 1033

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.6	18.8

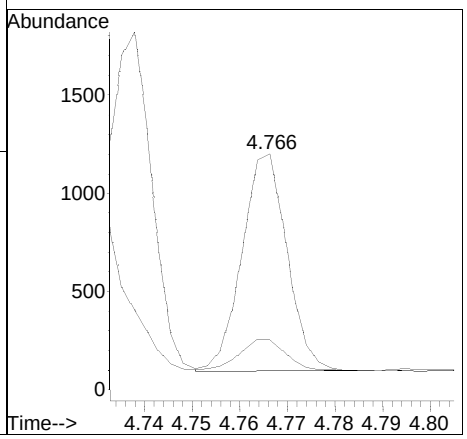


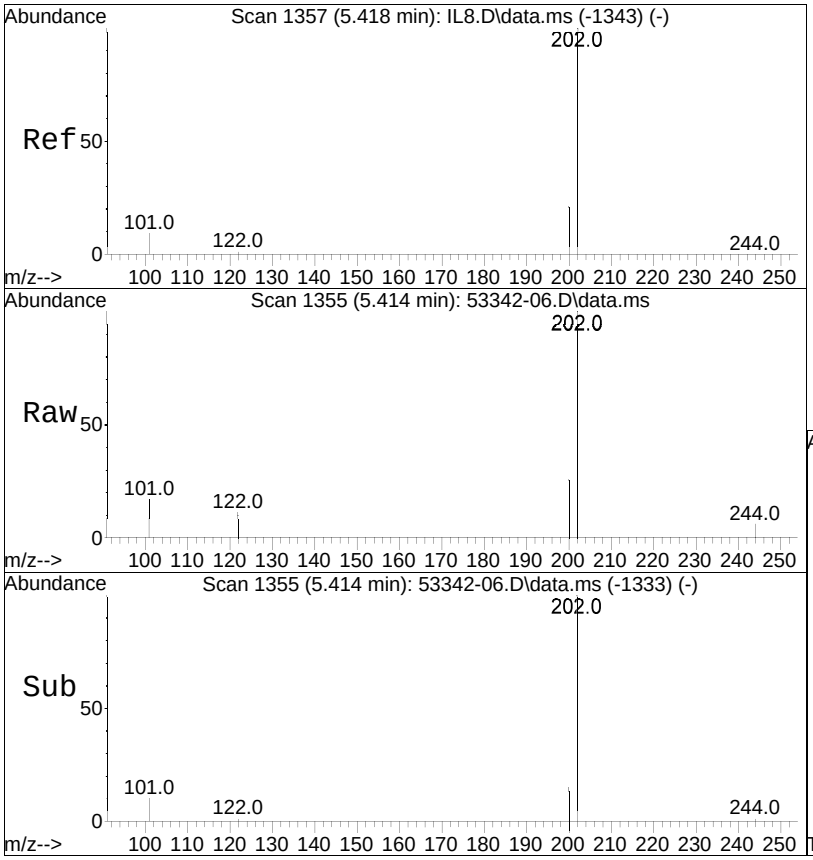


#27
Anthracene
Concen: 1.71 ng/ml
RT: 4.766 min Scan# 1133
Delta R.T. 0.001 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:178 Resp: 725

Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.3	18.5

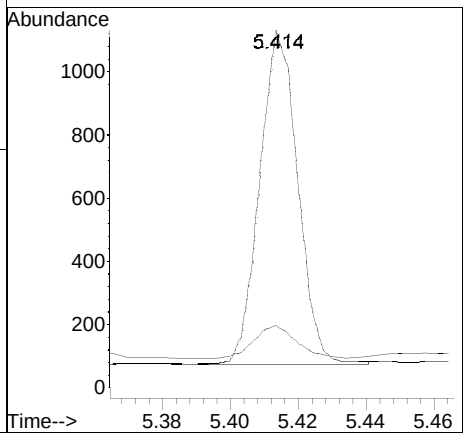


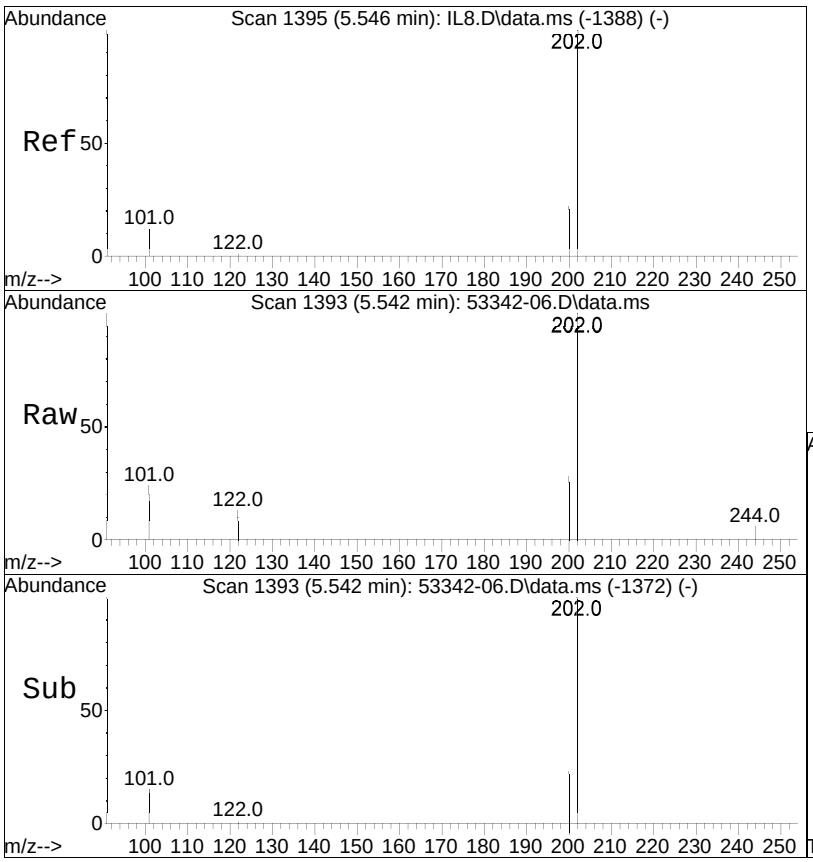


#28
Fluoranthene
Concen: 1.67 ng/ml
RT: 5.414 min Scan# 1355
Delta R.T. -0.005 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:202 Resp: 809

Ion	Ratio	Lower	Upper
202	100		
101	10.9	7.6	11.4

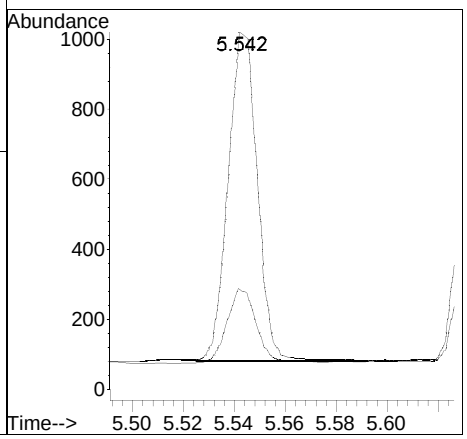




#29
Pyrene
Concen: 1.45 ng/ml
RT: 5.542 min Scan# 1393
Delta R.T. -0.008 min
Lab File: 53342-06.D
Acq: 23 Sep 2024 04:00 pm

Tgt Ion:202 Resp: 744

Ion	Ratio	Lower	Upper
202	100		
200	23.3	17.2	25.8

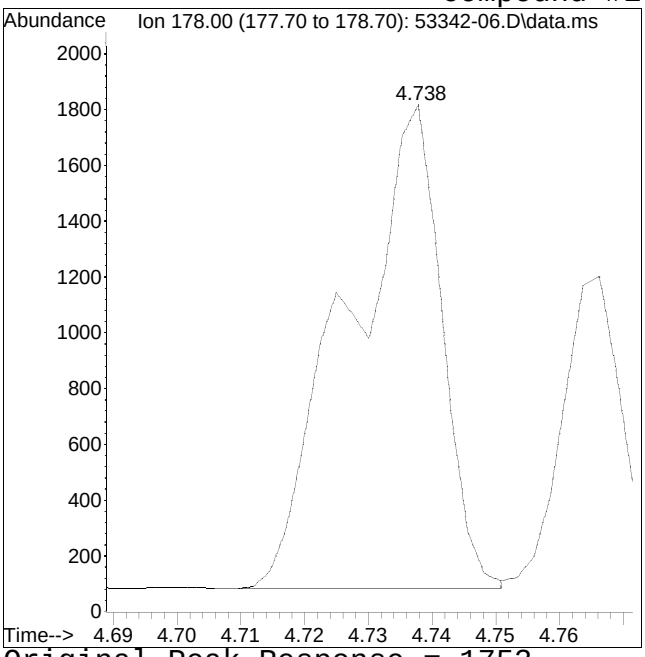


Manual Integration Report

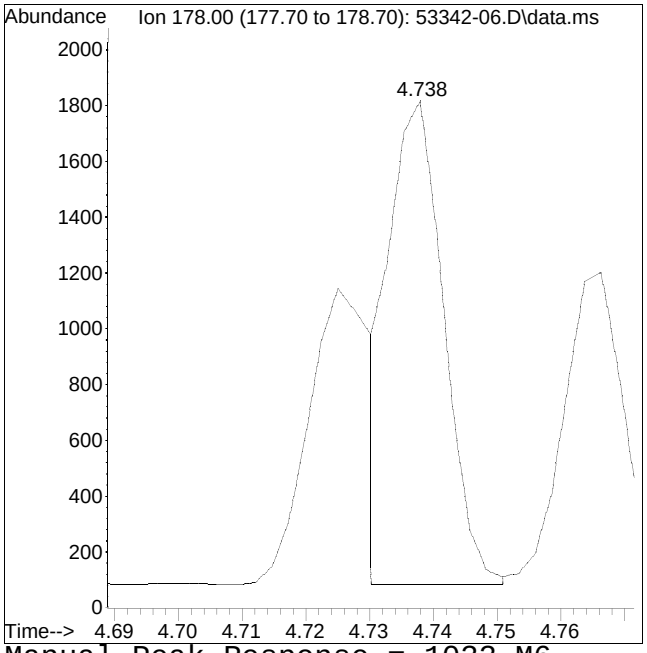
Data Path : I:\8270SIM\SV125\240923aRVQ
Data File : 53342-06.D
Date Inj'd : 9/23/2024 4:00 pm
Sample : L2453342-06,32,,kmh

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:ljg
Instrument : SV125
Quant Date : 9/23/2024 4:14 pm

Compound #26: Phenanthrene



Original Peak Response = 1753



Manual Peak Response = 1033 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-07.D
Acq On : 23 Sep 2024 04:16 pm
Operator : SV125:ljg
Sample : L2453342-07,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 13:41:42 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	369146	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 80.24%			
8) Naphthalene-d8	2.905	136	1270420	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 78.34%			
17) Acenaphthene-d10	3.883	164	750829	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 70.31%			
22) Phenanthrene-d10	4.726	188	1585084	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 65.99%			
31) Chrysene-d12	6.262	240	1686675	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 59.68%			
36) Perylene-d12	7.461	264	1829096	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 54.37%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	86232	949.305	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.47%			
3) Phenol-d6	2.053	99	74005	660.612	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.03%			
7) Nitrobenzene-d5	2.521	82	64084	1112.239	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 111.22%			
13) 2-Fluorobiphenyl	3.505	172	214244	795.864	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.59%			
21) 2,4,6-Tribromophenol	4.328	330	47230	1448.826	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 72.44%			
30) 4-Terphenyl-d14	5.634	244	292407	907.768	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.78%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-07.D
Acq On : 23 Sep 2024 04:16 pm
Operator : SV125:ljg
Sample : L2453342-07,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 13:41:42 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

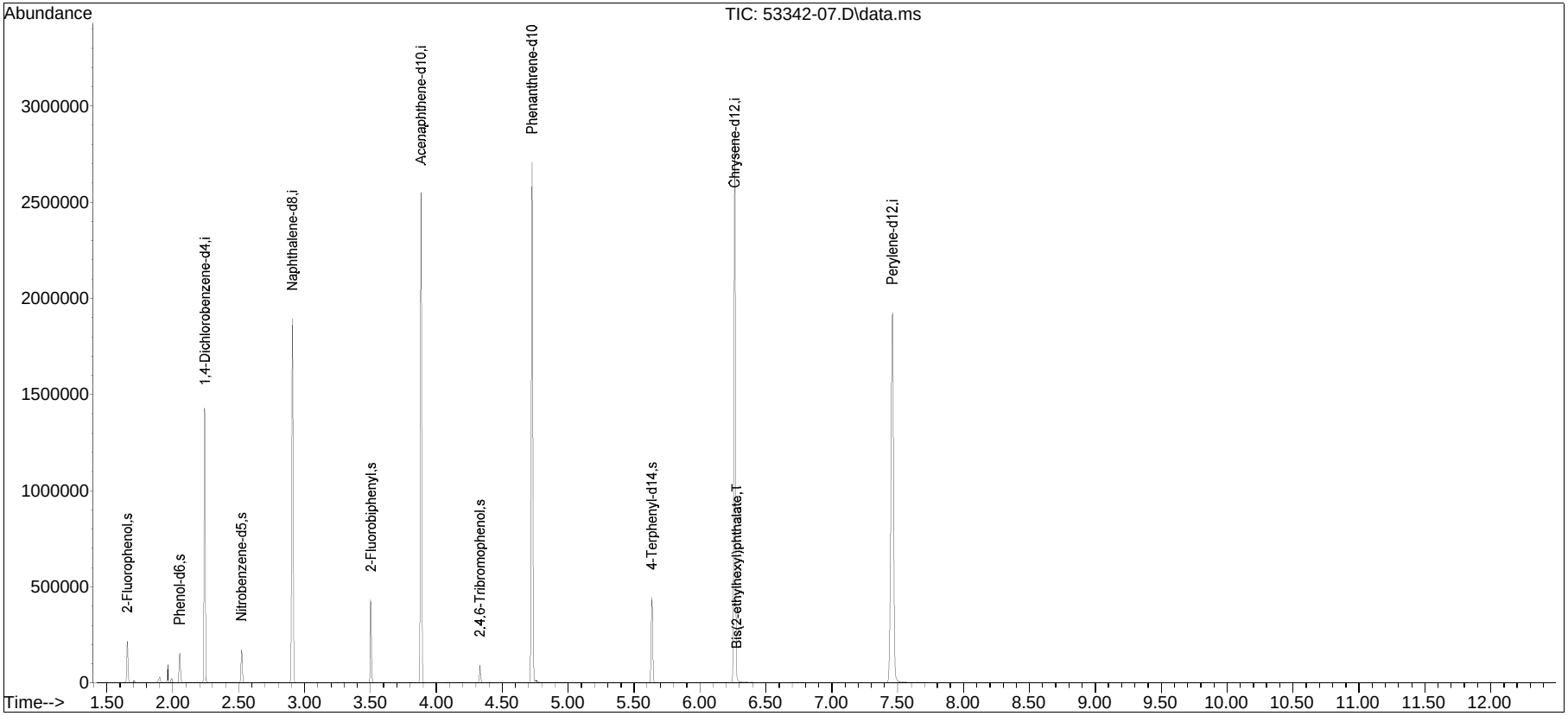
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-07.D
Acq On : 23 Sep 2024 04:16 pm
Operator : SV125:ljg
Sample : L2453342-07,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 13:41:42 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-08.D
Acq On : 23 Sep 2024 04:32 pm
Operator : SV125:ljg
Sample : L2453342-08,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 25 13:34:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	366724	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery	= 79.71%		
8) Naphthalene-d8	2.904	136	1269460	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery	= 78.28%		
17) Acenaphthene-d10	3.883	164	759464	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery	= 71.11%		
22) Phenanthrene-d10	4.724	188	1606402	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery	= 66.88%		
31) Chrysene-d12	6.265	240	1695174	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery	= 59.99%		
36) Perylene-d12	7.461	264	1831423	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery	= 54.44%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	60390	669.208	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 33.46%		
3) Phenol-d6	2.053	99	56549	508.123	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 25.41%		
7) Nitrobenzene-d5	2.521	82	61968	1082.617	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 108.26%		
13) 2-Fluorobiphenyl	3.504	172	207426	771.119	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 77.11%		
21) 2,4,6-Tribromophenol	4.329	330	34232	1038.161	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 51.91%		
30) 4-Terphenyl-d14	5.634	244	278731	853.828	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 85.38%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.914	128	28809	85.205	ng/ml#	99
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.297	142	792	3.657	ng/ml	100
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.510	284	180	1.751	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-08.D
Acq On : 23 Sep 2024 04:32 pm
Operator : SV125:ljg
Sample : L2453342-08,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 25 13:34:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

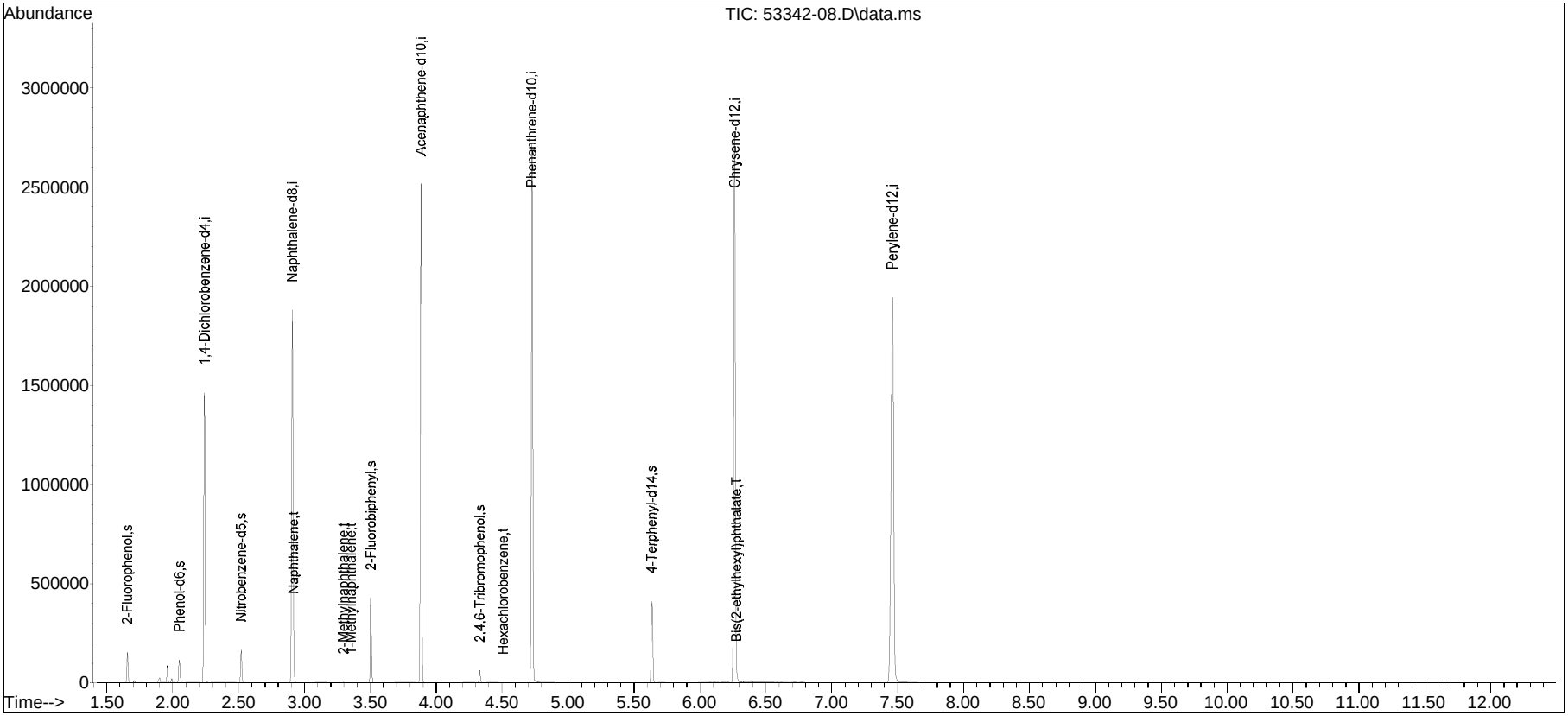
(#) = qualifier out of range (m) = manual integration (+) = signals summed

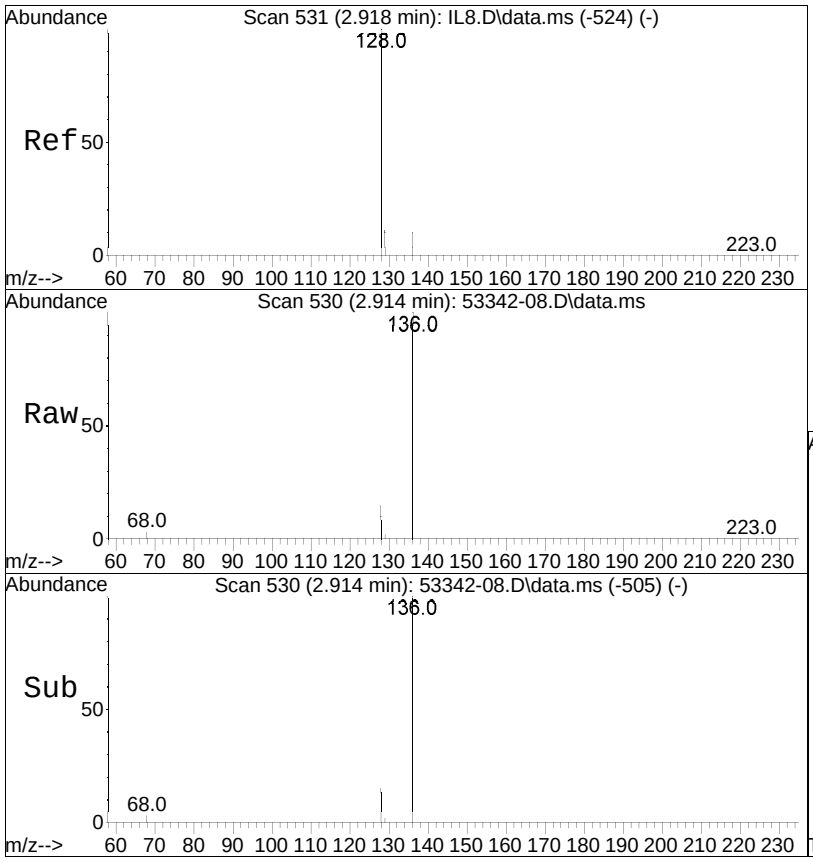
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-08.D
Acq On : 23 Sep 2024 04:32 pm
Operator : SV125:ljg
Sample : L2453342-08,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 25 13:34:37 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

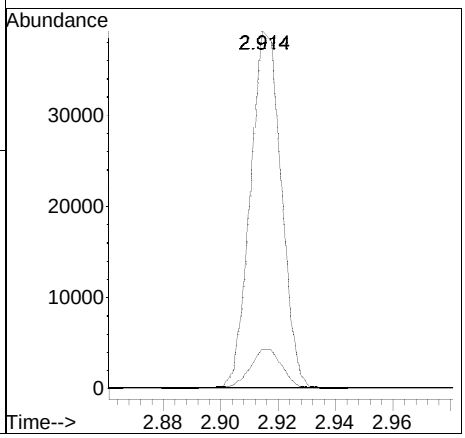


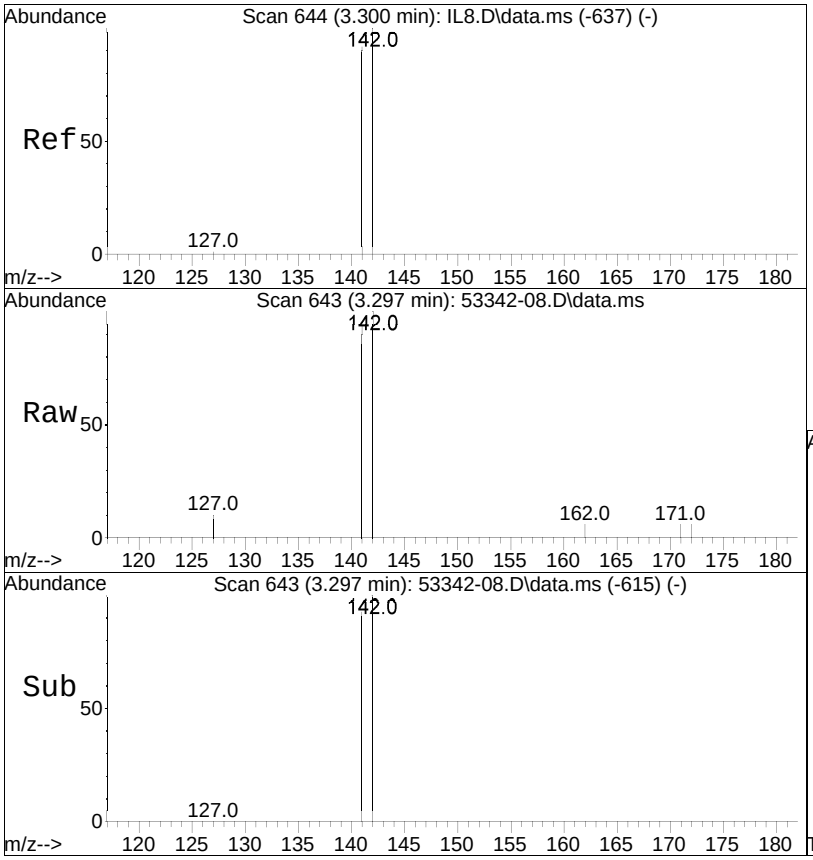


#9
Naphthalene
Concen: 85.21 ng/ml
RT: 2.914 min Scan# 530
Delta R.T. 0.003 min
Lab File: 53342-08.D
Acq: 23 Sep 2024 04:32 pm

Tgt Ion:128 Resp: 28809

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	0.0	0.0	0.0

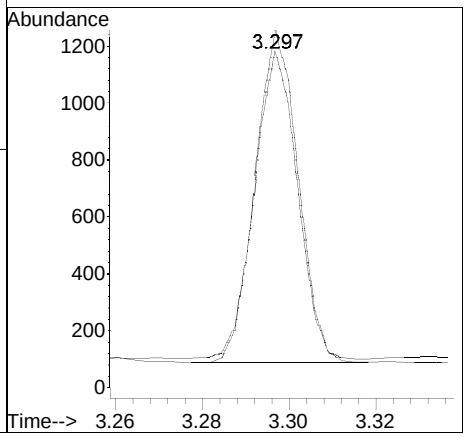


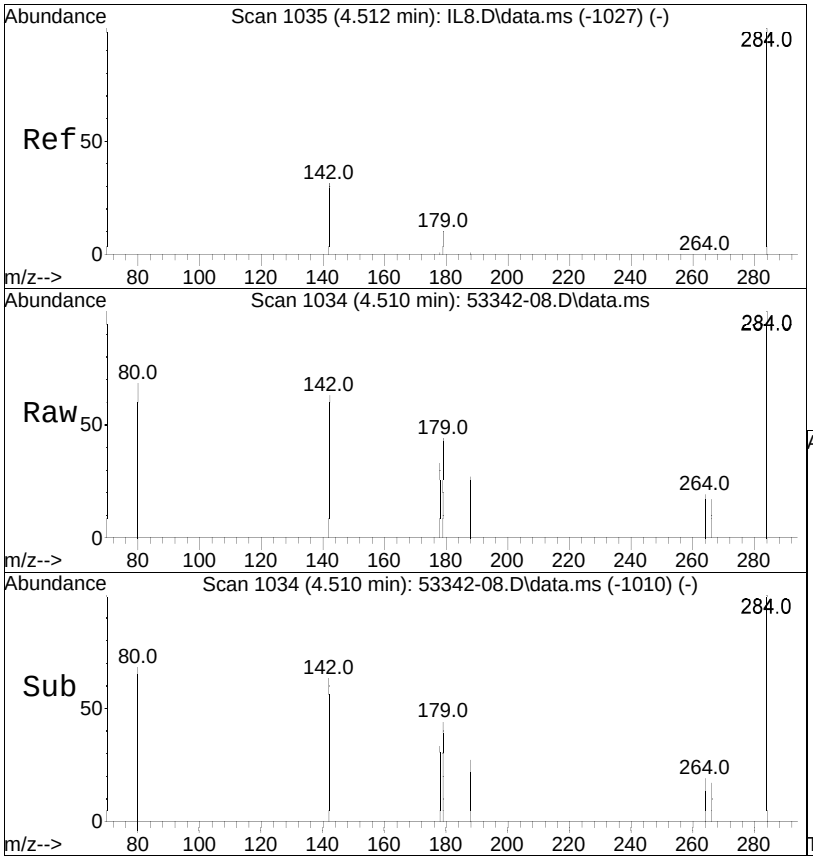


#11
2-Methylnaphthalene
Concen: 3.66 ng/ml
RT: 3.297 min Scan# 643
Delta R.T. 0.005 min
Lab File: 53342-08.D
Acq: 23 Sep 2024 04:32 pm

Tgt Ion:142 Resp: 792

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6

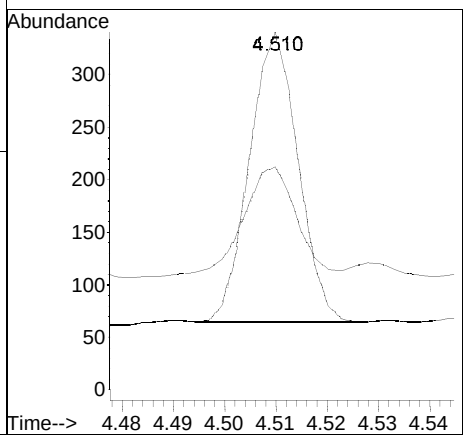




#24
Hexachlorobenzene
Concen: 1.75 ng/ml
RT: 4.510 min Scan# 1034
Delta R.T. 0.000 min
Lab File: 53342-08.D
Acq: 23 Sep 2024 04:32 pm

Tgt Ion:284 Resp: 180

Ion	Ratio	Lower	Upper
284	100		
142	35.6	24.4	36.6



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-10.D
Acq On : 23 Sep 2024 04:48 pm
Operator : SV125:ljg
Sample : L2453342-10,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 13:39:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	371362	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 80.72%			
8) Naphthalene-d8	2.904	136	1281339	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 79.02%			
17) Acenaphthene-d10	3.884	164	757282	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 70.91%			
22) Phenanthrene-d10	4.725	188	1590969	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 66.24%			
31) Chrysene-d12	6.262	240	1652149	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 58.46%			
36) Perylene-d12	7.458	264	1763511	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 52.42%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	88636	969.947	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.50%			
3) Phenol-d6	2.053	99	76871	682.101	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 34.11%			
7) Nitrobenzene-d5	2.521	82	61841	1066.905	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 106.69%			
13) 2-Fluorobiphenyl	3.505	172	206016	758.777	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.88%			
21) 2,4,6-Tribromophenol	4.330	330	46871	1425.562	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 71.28%			
30) 4-Terphenyl-d14	5.636	244	272111	841.635	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.16%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.914	128	1493M7	4.375	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.297	142	318	1.455	ng/ml	98
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.511	284	125M7	1.228	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-10.D
Acq On : 23 Sep 2024 04:48 pm
Operator : SV125:ljg
Sample : L2453342-10,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 13:39:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

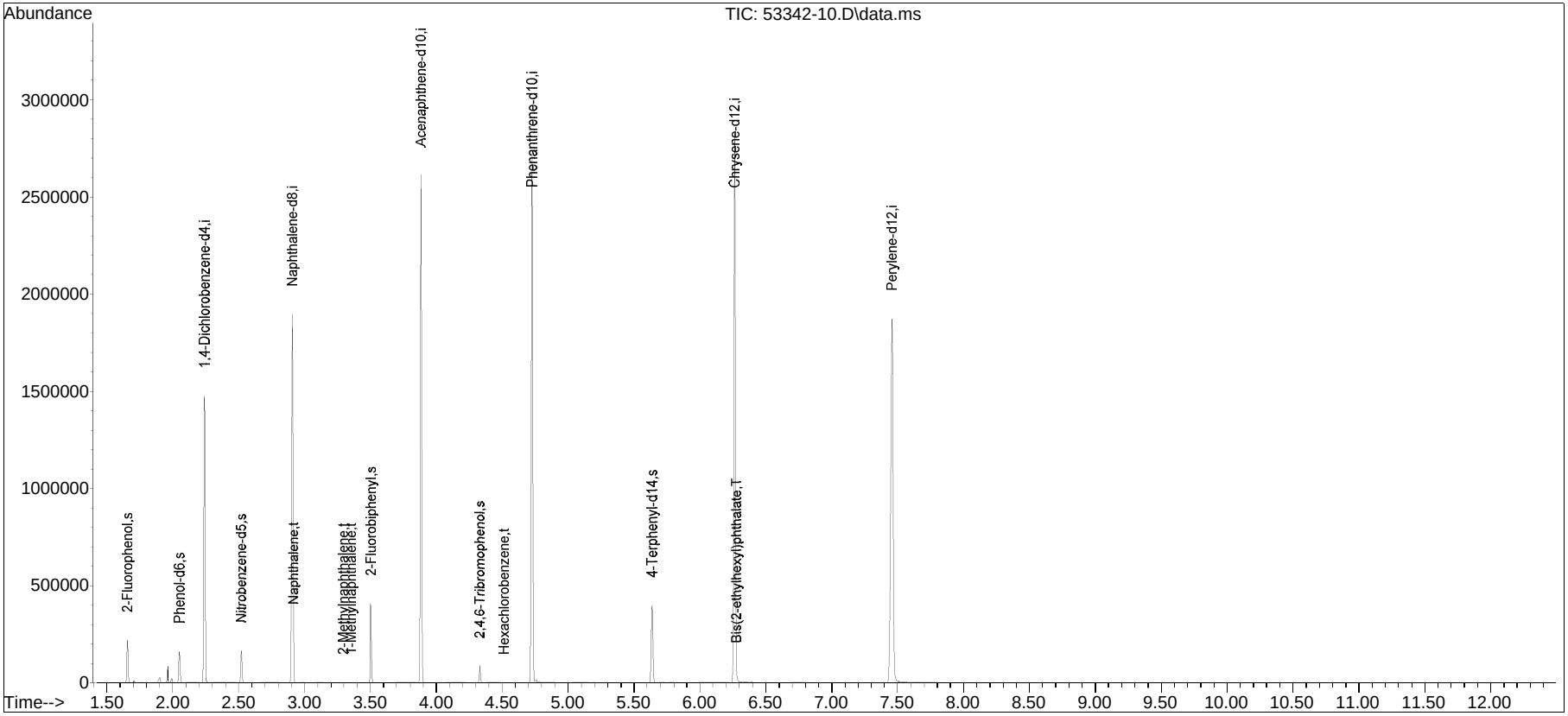
(#) = qualifier out of range (m) = manual integration (+) = signals summed

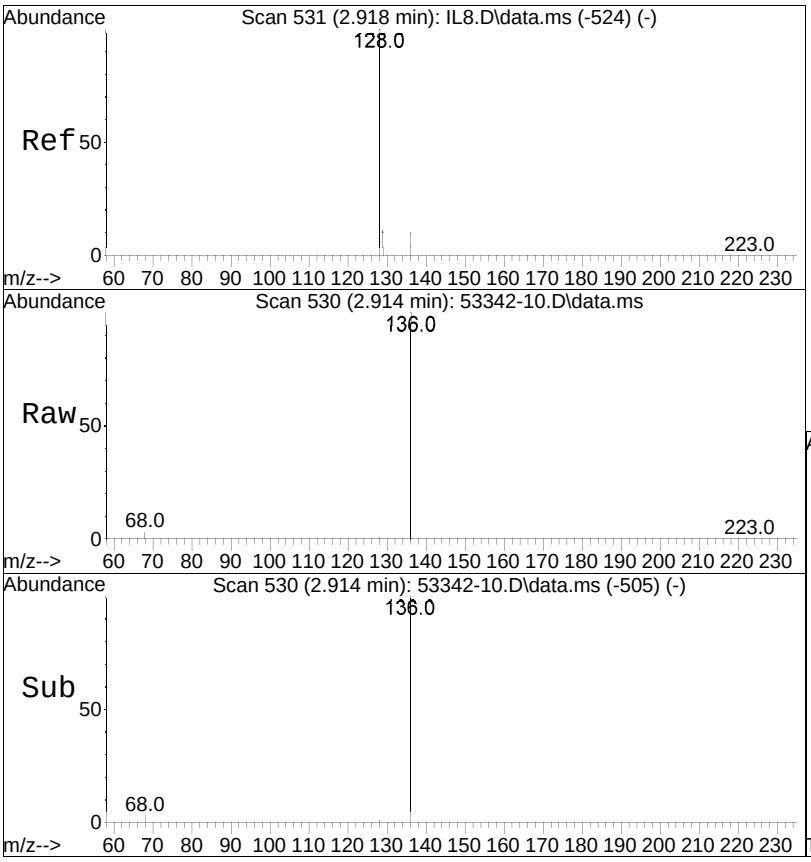
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 53342-10.D
Acq On : 23 Sep 2024 04:48 pm
Operator : SV125:ljg
Sample : L2453342-10,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 13:39:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

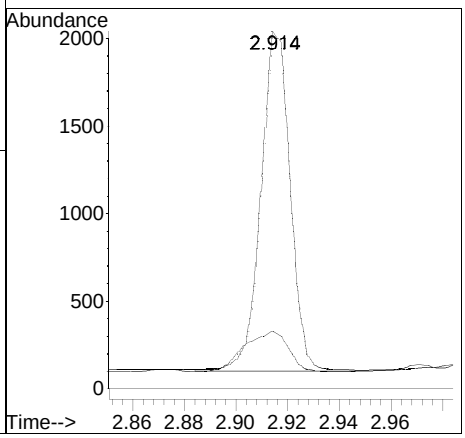


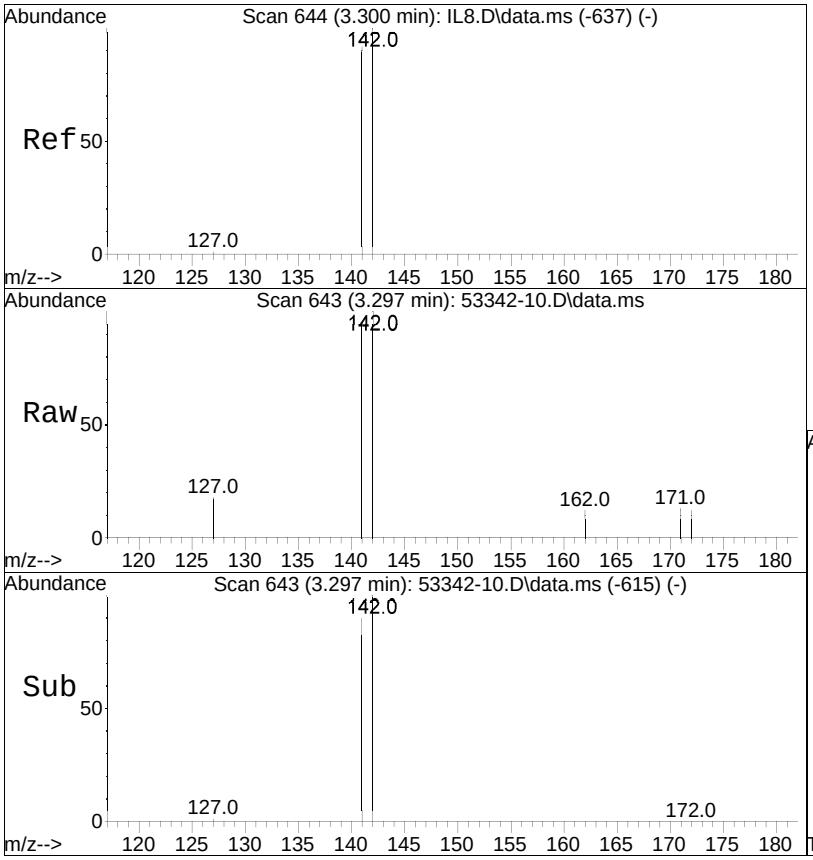


#9
Naphthalene
Concen: 4.37 ng/ml M7
RT: 2.914 min Scan# 530
Delta R.T. 0.003 min
Lab File: 53342-10.D
Acq: 23 Sep 2024 04:48 pm

Tgt Ion:128 Resp: 1493

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.8	13.2
127	0.0	0.0	0.0

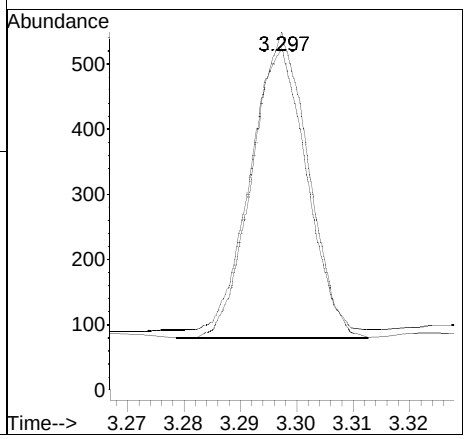


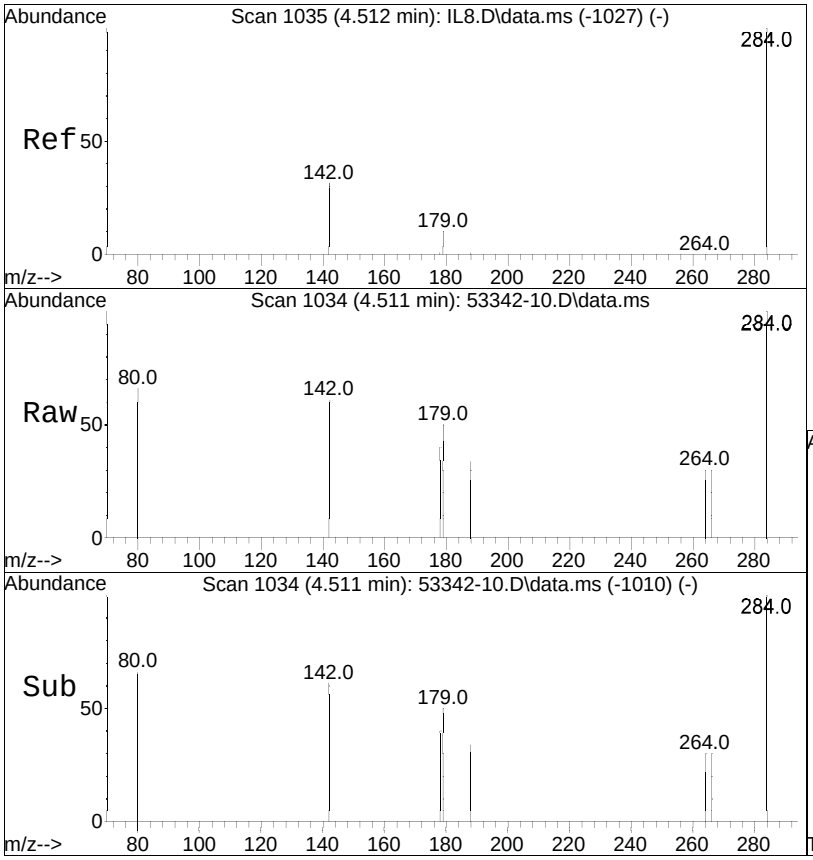


#11
2-Methylnaphthalene
Concen: 1.45 ng/ml
RT: 3.297 min Scan# 643
Delta R.T. 0.006 min
Lab File: 53342-10.D
Acq: 23 Sep 2024 04:48 pm

Tgt Ion:142 Resp: 318

Ion	Ratio	Lower	Upper
142	100		
141	94.0	73.8	110.6

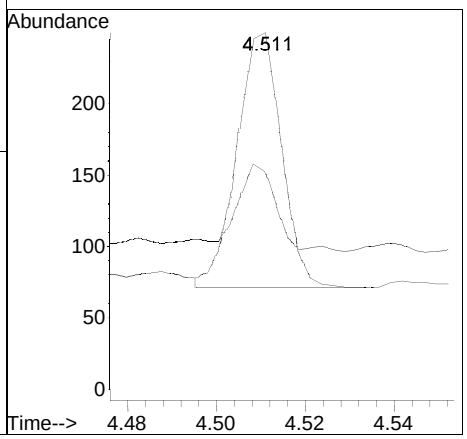




#24
Hexachlorobenzene
Concen: 1.23 ng/ml M7
RT: 4.511 min Scan# 1034
Delta R.T. 0.001 min
Lab File: 53342-10.D
Acq: 23 Sep 2024 04:48 pm

Tgt Ion:284 Resp: 125

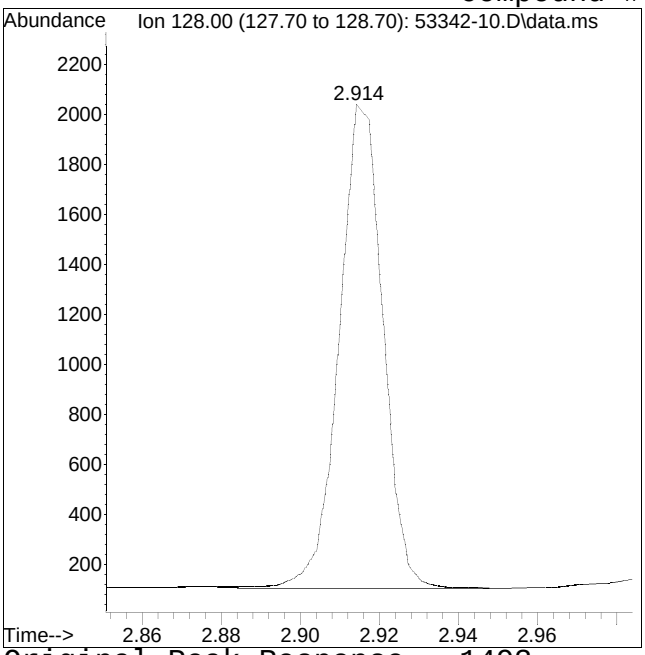
Ion	Ratio	Lower	Upper
284	100		
142	27.2	24.4	36.6

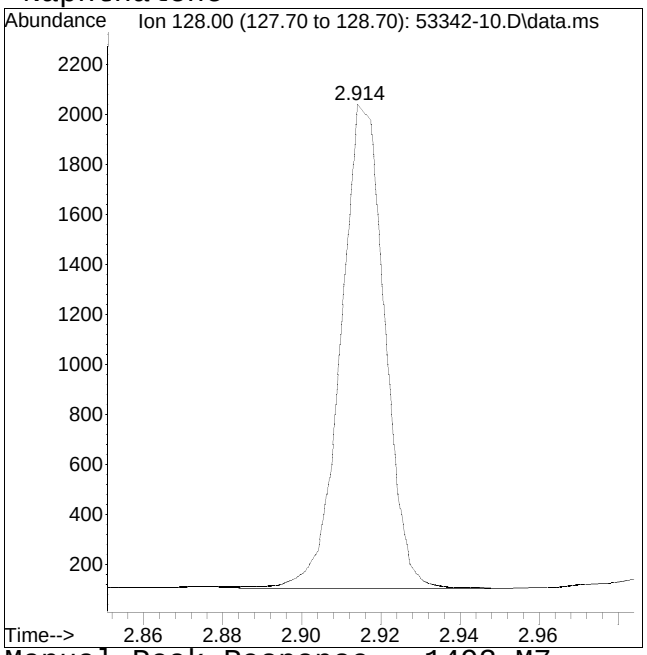


Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 53342-10.D Operator : SV125:ljg
Date Inj'd : 9/23/2024 4:48 pm Instrument : SV125
Sample : L2453342-10,32,,kmh Quant Date : 9/23/2024 5:03 pm

Compound #9: Naphthalene



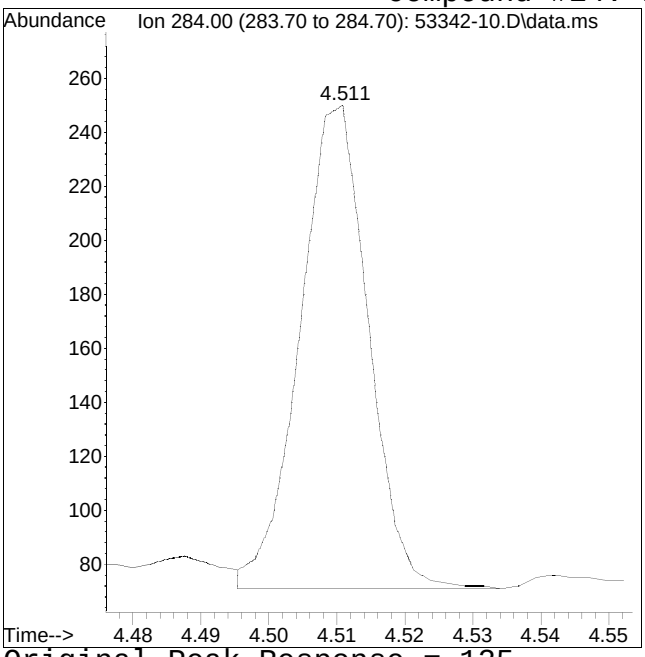


Original Peak Response = 1493 Manual Peak Response = 1493 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

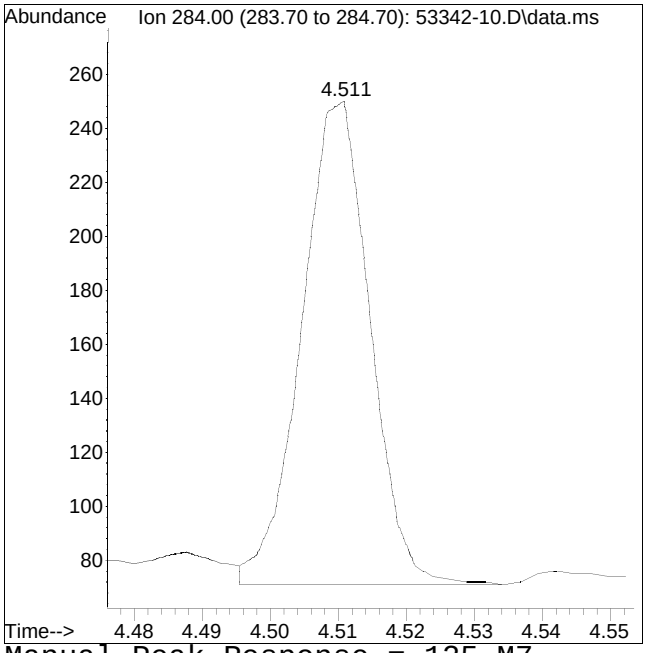
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 53342-10.D Operator : SV125:ljg
Date Inj'd : 9/23/2024 4:48 pm Instrument : SV125
Sample : L2453342-10,32,,kmh Quant Date : 9/23/2024 5:03 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 125



Manual Peak Response = 125 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL21503**
Calibration dates	**: 09/17/24 18:45 09/17/24 21:09**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------												
2)	s	2-Fluorophenol	0.971	1.076	1.003	0.976	0.958	1.008	0.994	0.957	0.967	0.934	0.984	3.99	
3)	s	Phenol-d6	1.486	1.276	1.119	1.153	1.166	1.204	1.208	1.167	1.194	1.166	1.214	8.61	
4)	T	bis(2-Chloroethyl)ether		1.231	1.079	1.071	1.059	1.122	1.074	1.036	1.033	1.002	1.079	6.16	
5)	T	n-Nitrosodi-n-propylamine			0.783	0.730	0.690	0.718	0.742	0.722	0.757	0.747	0.736	3.82	
6)	t	Hexachloroethane			0.471	0.447	0.430	0.441	0.439	0.421	0.429	0.414	0.437	4.06	
7)	s	Nitrobenzene-d5		0.575	0.577	0.602	0.586	0.628	0.666	0.656	0.695	0.632	0.624	6.80	
8)	i	Naphthalene-d8	----------ISTD----------												
9)	t	Naphthalene	1.355	1.209	1.078	1.069	1.017	1.046	1.011	0.979	0.969	0.920	1.065	12.06	
10)	t	Hexachlorobutadiene		0.238	0.222	0.223	0.214	0.221	0.212	0.206	0.205	0.195	0.215	5.78	
11)	t	2-Methylnaphthalene	0.718	0.708	0.691	0.682	0.669	0.693	0.687	0.662	0.669	0.643	0.682	3.27	
12)	t	1-Methylnaphthalene	0.658	0.667	0.633	0.632	0.624	0.647	0.639	0.617	0.618	0.595	0.633	3.33	
13)	s	2-Fluorobiphenyl	0.874	0.908	0.858	0.853	0.848	0.876	0.858	0.814	0.811	0.778	0.848	4.44	
14)	t	2-Chloronaphthalene		0.761	0.709	0.729	0.712	0.742	0.731	0.706	0.718	0.696	0.723	2.79	
15)	t	2,6-Dinitrotoluene					0.053	0.057	0.072	0.080	0.104	0.107		*Q	0.9964
16)	t	Acenaphthylene	1.098	1.071	1.004	1.012	0.998	1.042	1.081	1.053	1.078	1.057	1.049	3.32	
17)	i	Acenaphthene-d10	----------ISTD----------												
18)	t	Acenaphthene	1.257	1.314	1.244	1.250	1.211	1.256	1.208	1.169	1.168	1.120	1.220	4.60	
19)	t	2,4-Dinitrotoluene					0.098	0.109	0.141	0.162	0.208	0.213		*Q	0.9964
20)	t	Fluorene	1.432	1.440	1.311	1.293	1.284	1.357	1.363	1.310	1.316	1.267	1.337	4.47	
21)	s	2,4,6-Tribromophenol		0.181	0.165	0.140	0.147	0.161	0.181	0.184	0.202	0.201	0.174	12.57	
22)	i	Phenanthrene-d10	----------ISTD----------												
23)	T	4,6-Dinitro-o-cresol					0.020	0.023	0.030	0.033	0.040	0.041		*Q	0.9975
24)	t	Hexachlorobenzene		0.307	0.255	0.257	0.249	0.264	0.256	0.242	0.243	0.230	0.256	8.40	
25)	t	Pentachlorophenol				0.059	0.071	0.056	0.076	0.090	0.112	0.114		*Q	0.9957
26)	t	Phenanthrene	0.973	1.099	1.118	1.039	1.071	1.085	1.045	0.988	0.985	0.915	1.032	6.27	
27)	t	Anthracene	1.105	1.143	0.995	0.988	0.986	1.038	1.038	1.000	1.007	0.938	1.024	5.92	
28)	t	Fluoranthene	1.264	1.214	1.137	1.114	1.109	1.178	1.216	1.173	1.184	1.115	1.170	4.42	
29)	t	Pyrene	1.341	1.275	1.181	1.159	1.158	1.242	1.299	1.257	1.253	1.184	1.235	5.06	
30)	s	4-Terphenyl-d14	0.919	0.824	0.766	0.765	0.778	0.817	0.844	0.816	0.818	0.780	0.813	5.67	
31)	i	Chrysene-d12	----------ISTD----------												
32)	t	Benzo[a]anthracene	1.298	0.729	0.349	0.226	0.137	0.125	0.125	0.121	0.122	0.115		*L	0.9992
33)	t	3,3'-Dichlorobenzene					0.274	0.318	0.393	0.414	0.462	0.462		*L	0.9983
34)	t	Chrysene	1.125	0.955	1.113	1.204	1.165	1.234	1.215	1.144	1.152	1.086	1.139	7.01	
35)	T	bis(2-Ethylhexyl)phthalate					0.202	0.223	0.325	0.358	0.476	0.475		*Q	0.9952
36)	i	Perylene-d12	----------ISTD----------												

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL21503**
Calibration dates	**: 09/17/24 18:45 09/17/24 21:09**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	0.880	0.893	0.869	0.819	0.828	0.920	1.039	1.063	1.043	1.007	0.936	9.97
38) t	Benzo[k]fluoranthene	0.780	0.776	0.790	0.821	0.865	0.958	1.100	1.000	1.092	0.989	0.917	13.84
39) t	Benzo[a]pyrene	0.698	0.706	0.693	0.696	0.727	0.815	0.946	0.928	0.983	0.952	0.814	15.29
40) t	Indeno[1,2,3-cd]pyrene	0.720	0.729	0.711	0.710	0.725	0.836	0.957	0.989	1.068	1.107	0.855	18.71
41) t	Dibenzo[a,h]anthracene	0.611	0.627	0.633	0.644	0.709	0.835	0.956	0.928	1.004		*Q	0.9992
42) t	Benzo[g,h,i]perylene	0.787	0.770	0.749	0.756	0.792	0.900	0.989	0.985	1.045	1.084	0.886	14.71

Response Factor Report SV125

Method Path : I:\8270SIM\SV125\240917nRVTical\
Method File : SIM-RVT_240917n_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Sep 19 13:55:09 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

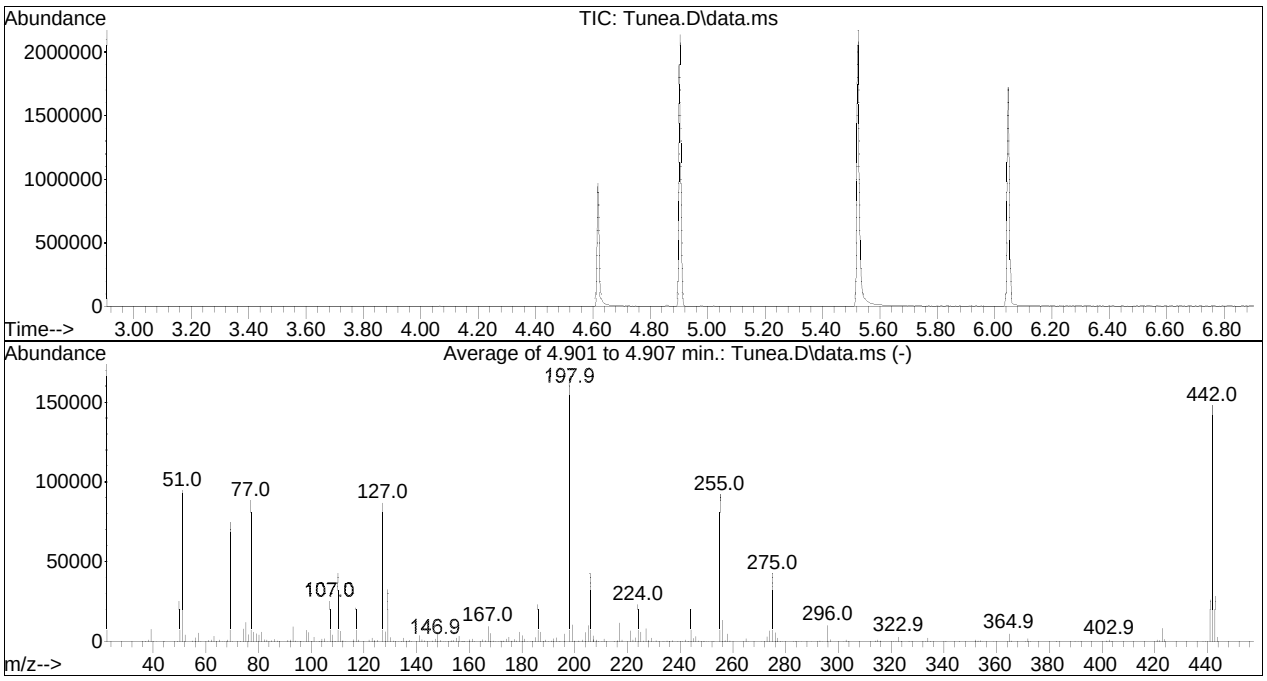
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	0.971	1.076	1.003	0.976	0.958	1.008	0.994	0.957	0.967	0.934	0.984	3.99
3)	s	Phenol-d6	1.486	1.276	1.119	1.153	1.166	1.204	1.208	1.167	1.194	1.166	1.214	8.61
4)	T	bis(2-Chloroethyl)ether		1.231	1.079	1.071	1.059	1.122	1.074	1.036	1.033	1.002	1.079	6.16
5)	T	n-Nitrosodi-n-propylamine			0.783	0.730	0.690	0.718	0.742	0.722	0.757	0.747	0.736	3.82
6)	t	Hexachloroethane			0.471	0.447	0.430	0.441	0.439	0.421	0.429	0.414	0.437	4.06
7)	s	Nitrobenzene-d5		0.575	0.577	0.602	0.586	0.628	0.666	0.656	0.695	0.632	0.624	6.80
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.355	1.209	1.078	1.069	1.017	1.046	1.011	0.979	0.969	0.920	1.065	12.06
10)	t	Hexachlorobutadiene		0.238	0.222	0.223	0.214	0.221	0.212	0.206	0.205	0.195	0.215	5.78
11)	t	2-Methylnaphthalene	0.718	0.708	0.691	0.682	0.669	0.693	0.687	0.662	0.669	0.643	0.682	3.27
12)	t	1-Methylnaphthalene	0.658	0.667	0.633	0.632	0.624	0.647	0.639	0.617	0.618	0.595	0.633	3.33
13)	s	2-Fluorobiphenyl	0.874	0.908	0.858	0.853	0.848	0.876	0.858	0.814	0.811	0.778	0.848	4.44
14)	t	2-Chloronaphthalene		0.761	0.709	0.729	0.712	0.742	0.731	0.706	0.718	0.696	0.723	2.79
15)	t	2,6-Dinitrotoluene					0.053	0.057	0.072	0.080	0.104	0.107	*Q	0.9964
16)	t	Acenaphthylene	1.098	1.071	1.004	1.012	0.998	1.042	1.081	1.053	1.078	1.057	1.049	3.32
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.257	1.314	1.244	1.250	1.211	1.256	1.208	1.169	1.168	1.120	1.220	4.60
19)	t	2,4-Dinitrotoluene					0.098	0.109	0.141	0.162	0.208	0.213	*Q	0.9964
20)	t	Fluorene	1.432	1.440	1.311	1.293	1.284	1.357	1.363	1.310	1.316	1.267	1.337	4.47
21)	s	2,4,6-Tribromophenol		0.181	0.165	0.140	0.147	0.161	0.181	0.184	0.202	0.201	0.174	12.57
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.020	0.023	0.030	0.033	0.040	0.041	*Q	0.9975
24)	t	Hexachlorobenzene		0.307	0.255	0.257	0.249	0.264	0.256	0.242	0.243	0.230	0.256	8.40
25)	t	Pentachlorophenol				0.059	0.071	0.056	0.076	0.090	0.112	0.114	*Q	0.9957
26)	t	Phenanthrene	0.973	1.099	1.118	1.039	1.071	1.085	1.045	0.988	0.985	0.915	1.032	6.27
27)	t	Anthracene	1.105	1.143	0.995	0.988	0.986	1.038	1.038	1.000	1.007	0.938	1.024	5.92
28)	t	Fluoranthene	1.264	1.214	1.137	1.114	1.109	1.178	1.216	1.173	1.184	1.115	1.170	4.42
29)	t	Pyrene	1.341	1.275	1.181	1.159	1.158	1.242	1.299	1.257	1.253	1.184	1.235	5.06
30)	s	4-Terphenyl-d14	0.919	0.824	0.766	0.765	0.778	0.817	0.844	0.816	0.818	0.780	0.813	5.67
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.298	0.729	0.349	0.226	0.137	0.125	0.125	0.121	0.122	0.115	*L	0.9992
33)	t	3,3'-Dichlorob...					0.274	0.318	0.393	0.414	0.462	0.462	*L	0.9983
34)	t	Chrysene	1.125	0.955	1.113	1.204	1.165	1.234	1.215	1.144	1.152	1.086	1.139	7.01
35)	T	bis(2-Ethylhexyl)phthalate					0.202	0.223	0.325	0.358	0.476	0.475	*Q	0.9952
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	0.880	0.893	0.869	0.819	0.828	0.920	1.039	1.063	1.043	1.007	0.936	9.97
38)	t	Benzo[k]fluora...	0.780	0.776	0.790	0.821	0.865	0.958	1.100	1.000	1.092	0.989	0.917	13.84
39)	t	Benzo[a]pyrene	0.698	0.706	0.693	0.696	0.727	0.815	0.946	0.928	0.983	0.952	0.814	15.29
40)	t	Indeno[1,2,3-c...	0.720	0.729	0.711	0.710	0.725	0.836	0.957	0.989	1.068	1.107	0.855	18.71
41)	t	Dibenzo[a,h]anthracene	0.611	0.627	0.633	0.644	0.709	0.835	0.956	0.928	1.004		*Q	0.9992
42)	t	Benzo[g,h,i]pe...	0.787	0.770	0.749	0.756	0.792	0.900	0.989	0.985	1.045	1.084	0.886	14.71

(#) = Out of Range

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : Tunea.D
Acq On : 17 Sep 2024 06:19 pm
Operator : SV125:dv
Sample : TUNE #11000
Misc : WG1973864,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Sep 19 13:55:09 2024



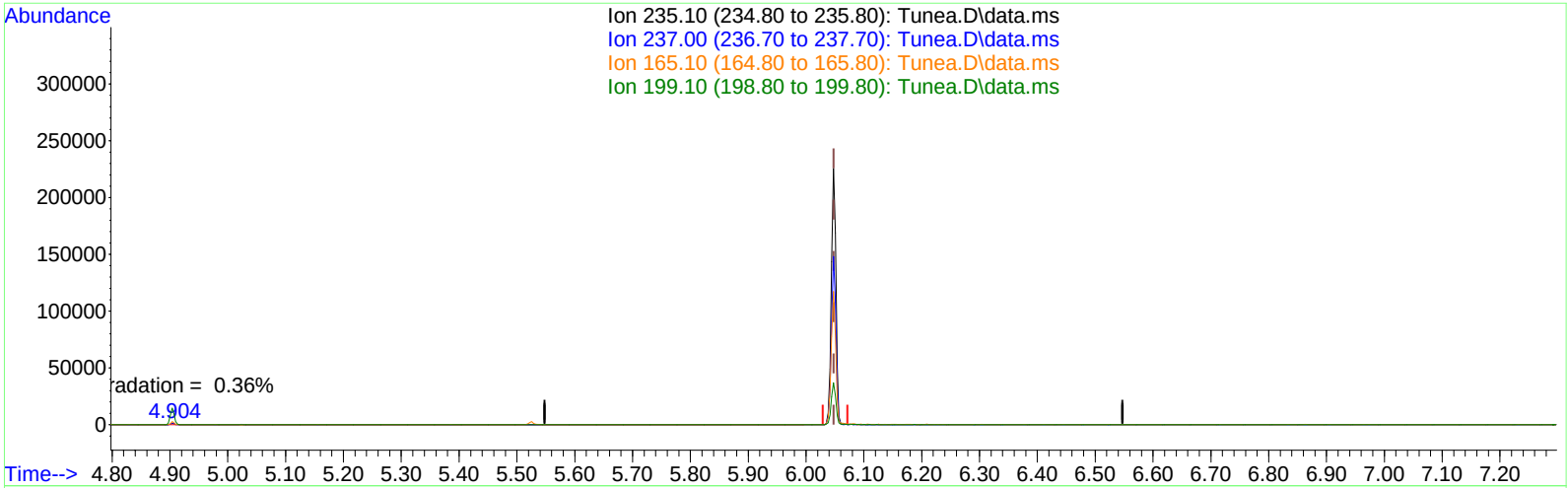
Spectrum Information: Average of 4.901 to 4.907 min.

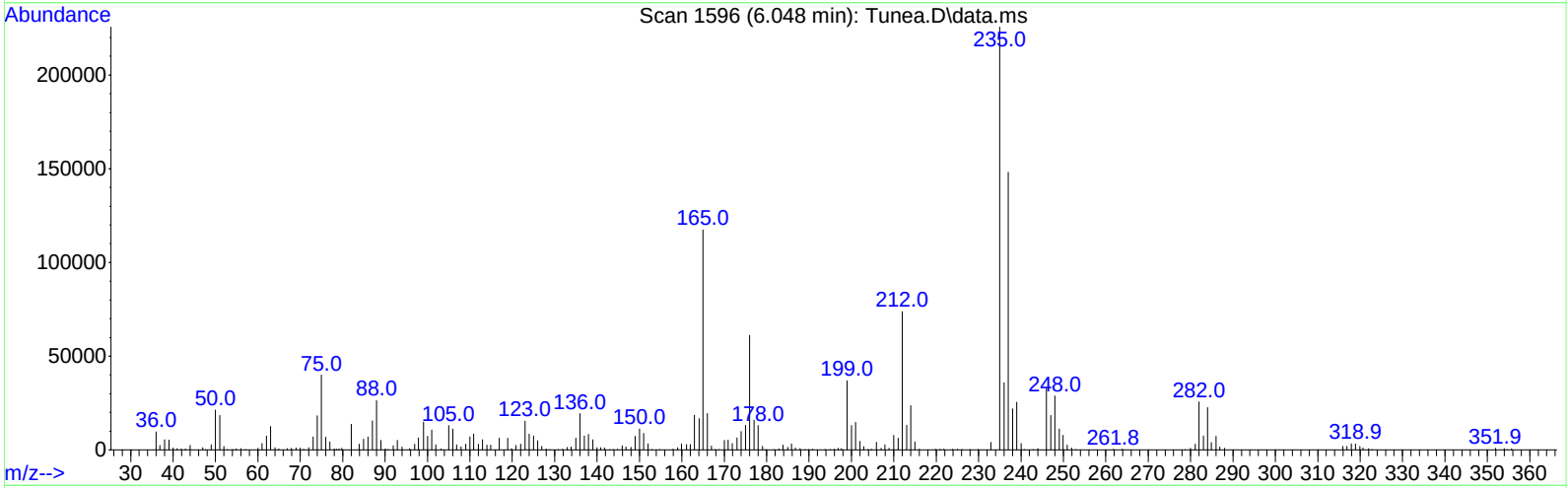
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.2	94562	PASS
68	69	0.00	2	1.8	1338	PASS
69	69	100	100	100.0	74589	PASS
70	69	0.00	2	0.6	435	PASS
127	198	10	80	52.3	86517	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	165307	PASS
199	198	5	9	6.4	10578	PASS
275	198	10	60	25.7	42528	PASS
365	198	1	100	3.0	5025	PASS
441	442	0.01	24	17.6	25968	PASS
442	198	50	100	89.4	147853	PASS
443	442	15	24	19.1	28172	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : Tunea.D
Acq On : 17 Sep 2024 06:19 pm
Operator : SV125:dv
Sample : TUNE #11000
Misc : WG1973864,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 18 10:29:37 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:





CHROMtools™ [TUNE #11000]

(6) ddt (T)

6.048min (-0.000) 20.11

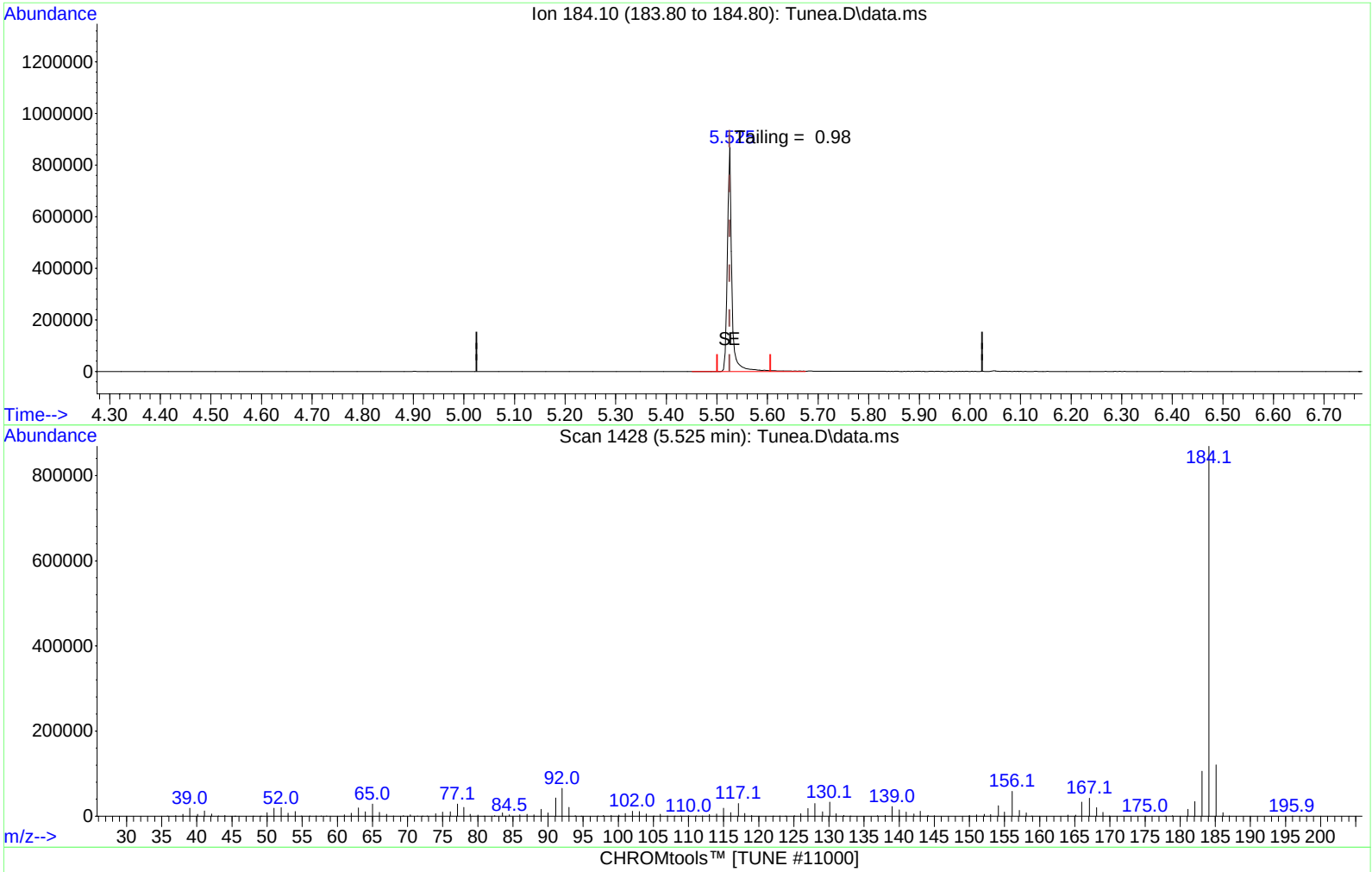
response 122607

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.60
165.10	53.30	52.03
199.10	17.10	16.60

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : Tunea.D
Acq On : 17 Sep 2024 06:19 pm
Operator : SV125:dv
Sample : TUNE #11000
Misc : WG1973864,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 18 10:29:37 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:



CHROMtools™ [TUNE #11000]

(3) benzidine (T)

5.525min (+ 0.000) 51.95

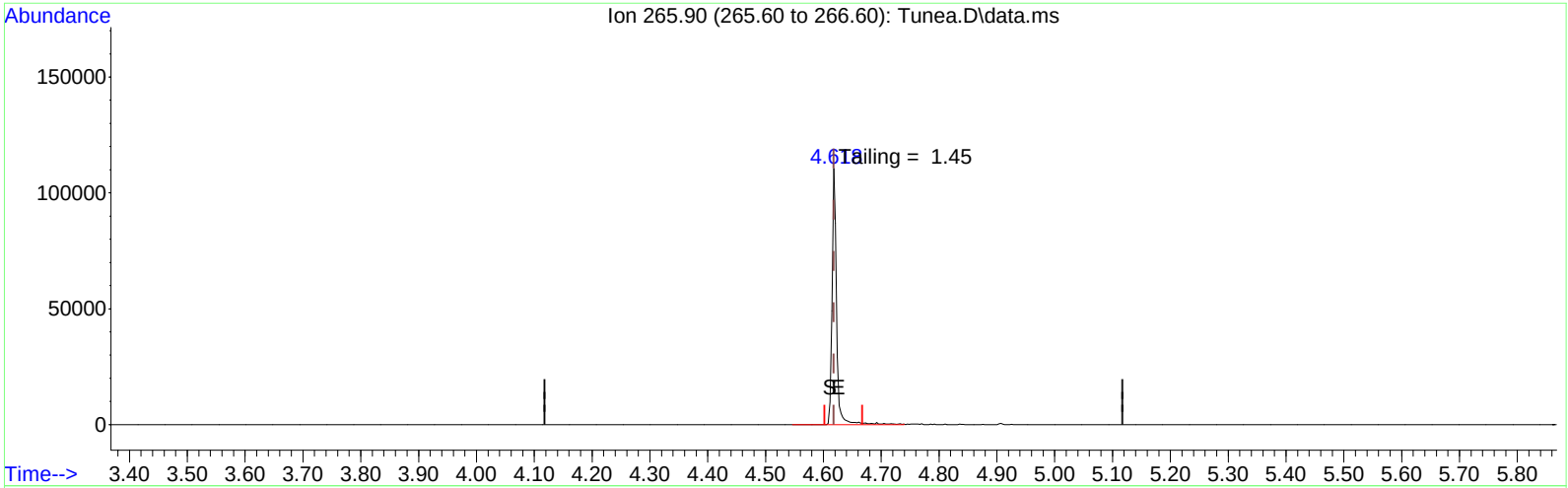
response 528864

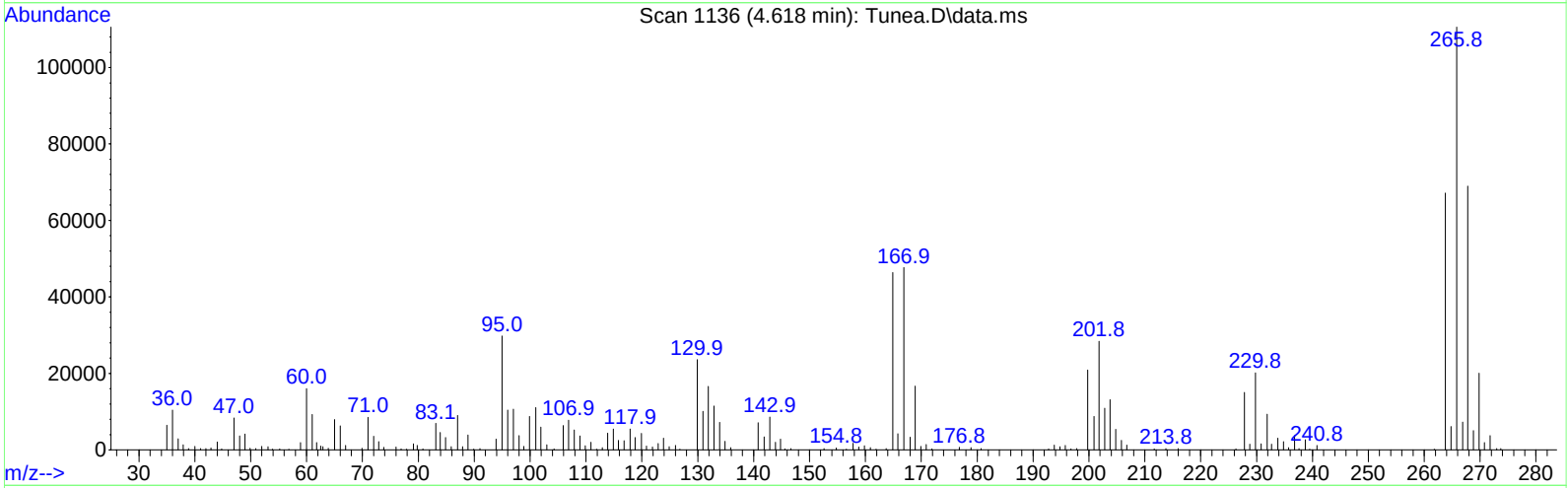
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : Tunea.D
Acq On : 17 Sep 2024 06:19 pm
Operator : SV125:dv
Sample : TUNE #11000
Misc : WG1973864,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 18 10:29:37 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:





CHROMtools™ [TUNE #11000]

(1) pentachlorophenol (T)

4.618min (-0.000) 27.91

response 58613

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL10.D
Acq On : 17 Sep 2024 06:45 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml #10885
Misc : WG1973864,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 19 13:55:05 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.224	152	334754	4000.000	ng/ml	-0.01
Standard Area 1 = 394276			Recovery = 84.90%			
8) Naphthalene-d8	2.898	136	1210244	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 87.80%			
17) Acenaphthene-d10	3.883	164	795797	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 91.83%			
22) Phenanthrene-d10	4.729	188	1739300	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 94.42%			
31) Chrysene-d12	6.325	240	1992034M4	4000.000	ng/ml	0.05
Standard Area 1 = 1977784			Recovery = 100.72%			
36) Perylene-d12	7.534	264	2538106	4000.000	ng/ml	0.06
Standard Area 1 = 2341485			Recovery = 108.40%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.624	112	390725	4743.304	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 237.17%#			
3) Phenol-d6	2.033	99	487883	4802.565	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 240.13%#			
7) Nitrobenzene-d5	2.510	82	264396	5060.294	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 506.03%#			
13) 2-Fluorobiphenyl	3.502	172	1176363	4587.179	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 458.72%#			
21) 2,4,6-Tribromophenol	4.329	330	199662	5778.732	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 288.94%#			
30) 4-Terphenyl-d14	5.667	244	1696589	4800.001	ng/ml	0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 480.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.089	93	419112	4642.929	ng/ml	99
5) n-nitrosodi-n-propylamine	2.433	70	312746	5076.885	ng/ml	99
6) Hexachloroethane	2.490	117	173146	4738.835	ng/ml	98
9) Naphthalene	2.908	128	1391421	4316.599	ng/ml#	99
10) Hexachlorobutadiene	2.985	225	295444	4536.681	ng/ml	99
11) 2-Methylnaphthalene	3.294	142	972506	4710.573	ng/ml	100
12) 1-Methylnaphthalene	3.349	142	900446	4701.978	ng/ml	100
14) 2-Chloronaphthalene	3.566	162	1052670	4815.357	ng/ml	99
15) 2,6-Dinitrotoluene	3.762	165	161202	4936.453	ng/ml	97
16) Acenaphthylene	3.802	152	1598614	5035.193	ng/ml	98
18) Acenaphthene	3.902	153	1114435	4592.257	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL10.D
Acq On : 17 Sep 2024 06:45 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml #10885
Misc : WG1973864,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 19 13:55:05 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.991	165	211934	4936.369	ng/ml#	75
20) Fluorene	4.192	166	1259880	4735.814	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.225	198	89736	4944.920	ng/ml	95
24) Hexachlorobenzene	4.512	284	500231	4494.288	ng/ml	100
25) Pentachlorophenol	4.623	266	247465	4927.317	ng/ml	100
26) Phenanthrene	4.742	178	1989833	4434.754	ng/ml	99
27) Anthracene	4.770	178	2038630	4579.437	ng/ml	98
28) Fluoranthene	5.434	202	2424685	4764.039	ng/ml	98
29) Pyrene	5.569	202	2574078	4793.739	ng/ml	98
32) Benzo[a]anthracene	6.317	228	2861281	4882.545	ng/ml	98
33) 3,3'-Dichlorobenzene	6.303	252	1151468	5073.886	ng/ml	99
34) Chrysene	6.342	228	2704609	4766.370	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	6.347	149	1182017	4924.948	ng/ml	100
37) Benzo[b]fluoranthene	7.163	252	3194155	5378.251	ng/ml	98
38) Benzo[k]fluoranthene	7.191	252	3138702	5393.717	ng/ml	98
39) Benzo[a]pyrene	7.474	252	3021584	5847.396	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.754	276	3512337	6471.845	ng/ml	97
41) Dibenzo[a,h]anthracene	8.788	278	3295830M6	4699.481	ng/ml	
42) Benzo[g,h,i]perylene	9.099	276	3439988	6120.819	ng/ml	99

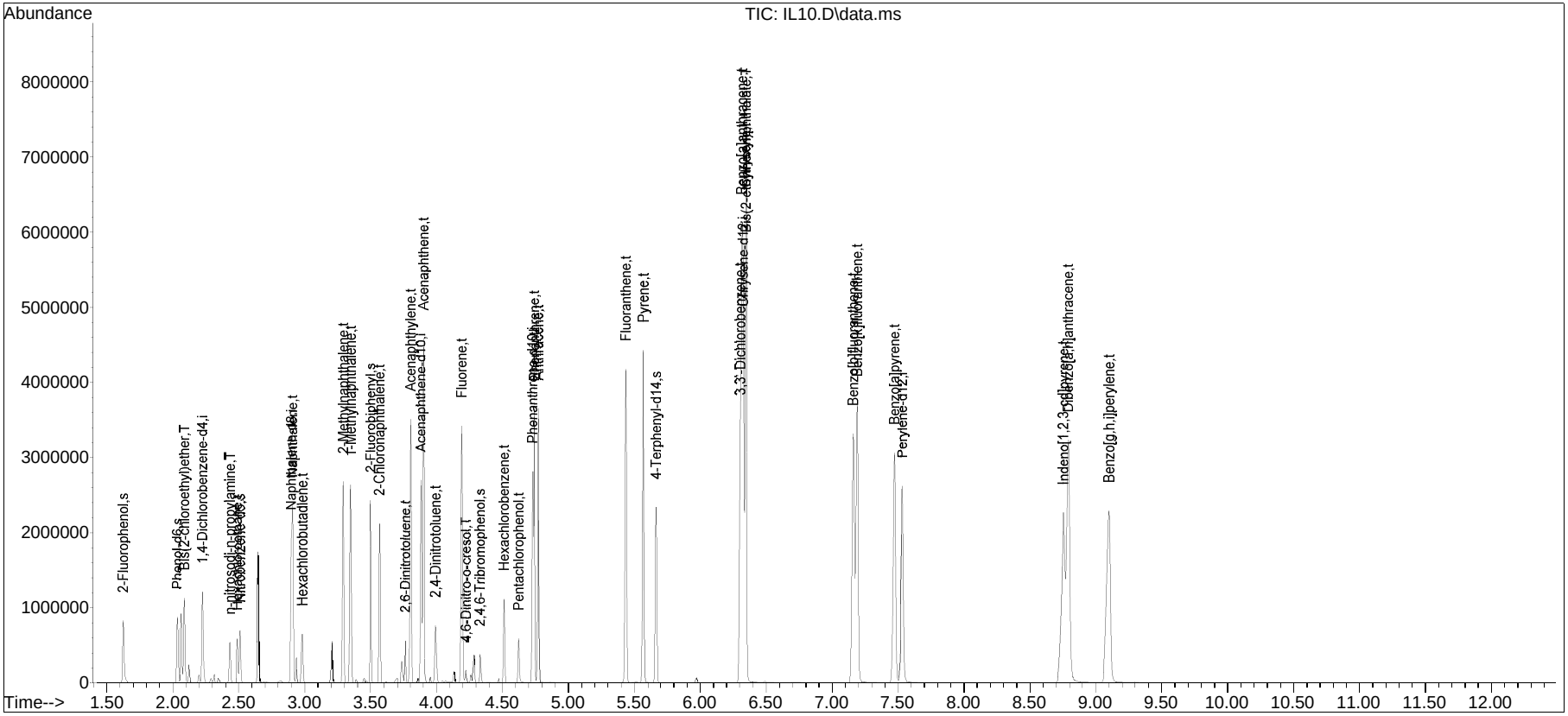
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL10.D
Acq On : 17 Sep 2024 06:45 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml #10885
Misc : WG1973864,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 19 13:55:05 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:11 2024
Response via : Initial Calibration

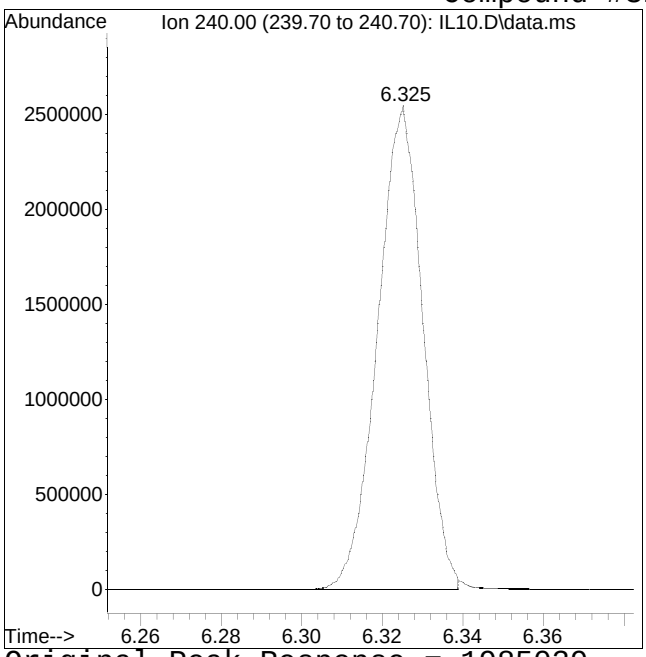
Sub List : Default - All compounds listedTical\IL8.D•

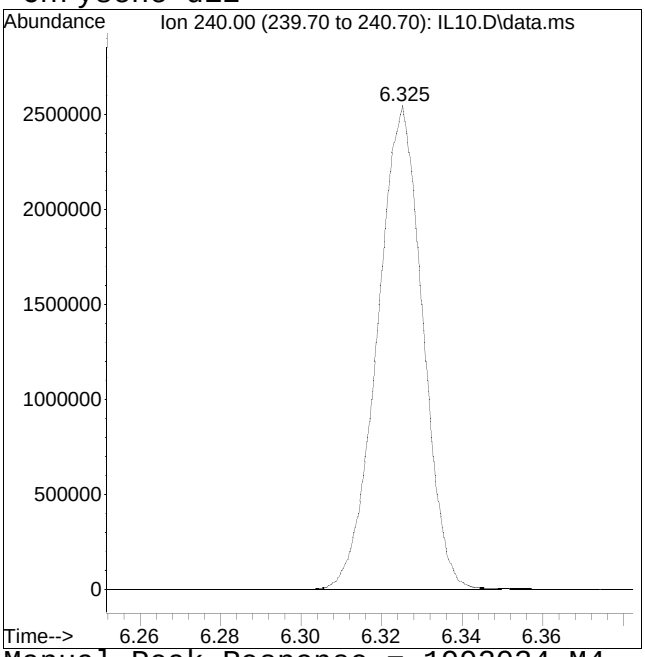


Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL10.D Operator : SV125:dv
Date Inj'd : 9/17/2024 6:45 pm Instrument : SV125
Sample : IL10,32,,5000.0 ng/ml #108Quant Date : 9/19/2024 1:56 pm

Compound #31: Chrysene-d12



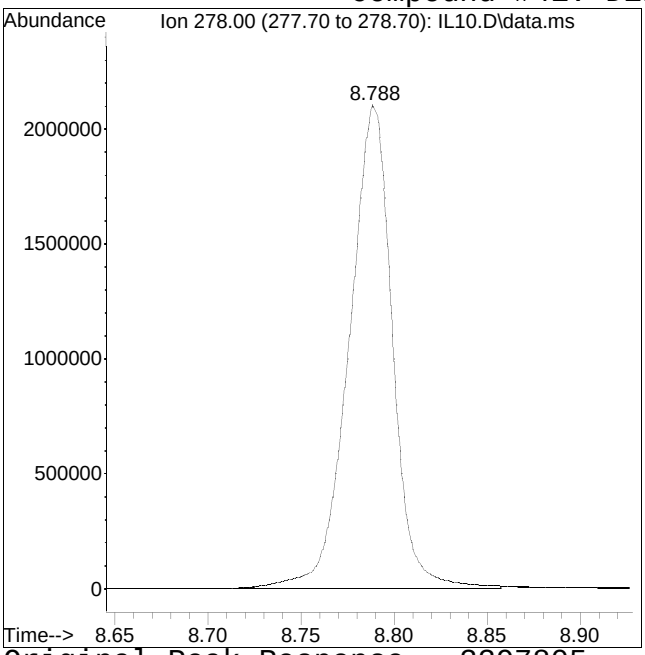


Original Peak Response = 1985039 Manual Peak Response = 1992034 M4
M4 = Poor automated baseline construction.

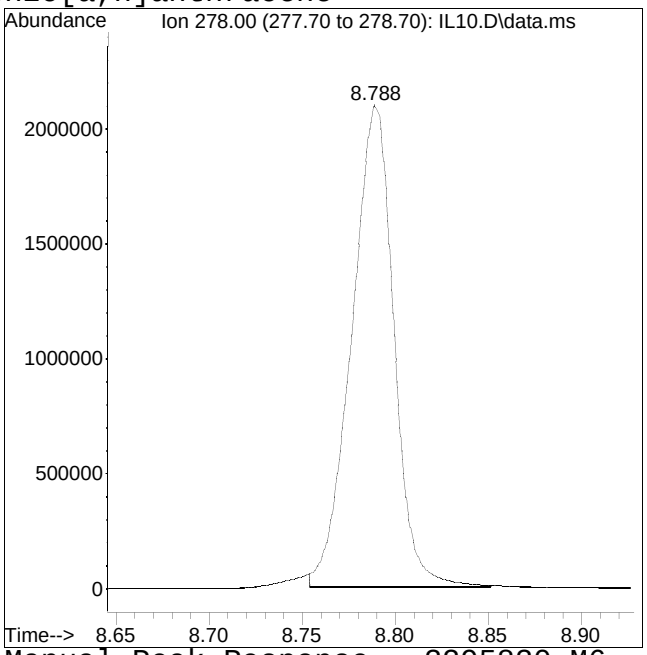
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL10.D
Date Inj'd : 9/17/2024 6:45 pm
Sample : IL10,32,,5000.0 ng/ml #108
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 1:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3397805



Manual Peak Response = 3295830 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL9.D
Acq On : 17 Sep 2024 07:01 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml #10901
Misc : WG1973864,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 19 13:57:33 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.238	152	392749	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 99.61%			
8) Naphthalene-d8	2.905	136	1387895	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 100.69%			
17) Acenaphthene-d10	3.886	164	890362	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 102.75%			
22) Phenanthrene-d10	4.727	188	1883763	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 102.26%			
31) Chrysene-d12	6.282	240	2016341	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 101.95%			
36) Perylene-d12	7.483	264	2403653	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 102.66%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.640	112	237363	2456.029	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 122.80%#			
3) Phenol-d6	2.044	99	293066	2458.860	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 122.94%#			
7) Nitrobenzene-d5	2.518	82	170682	2784.321	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 278.43%#			
13) 2-Fluorobiphenyl	3.504	172	703239	2391.242	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 239.12%#			
21) 2,4,6-Tribromophenol	4.330	330	112415	2908.018	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 145.40%#			
30) 4-Terphenyl-d14	5.643	244	963377	2516.571	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 251.66%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.100	93	253682	2395.313	ng/ml	99
5) n-nitrosodi-n-propylamine	2.438	70	185933	2572.603	ng/ml	99
6) Hexachloroethane	2.498	117	105393	2458.565	ng/ml	99
9) Naphthalene	2.915	128	840356	2273.331	ng/ml#	100
10) Hexachlorobutadiene	2.991	225	177928	2382.450	ng/ml	99
11) 2-Methylnaphthalene	3.297	142	580259	2450.867	ng/ml	100
12) 1-Methylnaphthalene	3.352	142	535907	2440.218	ng/ml	100
14) 2-Chloronaphthalene	3.571	162	622494	2483.063	ng/ml	100
15) 2,6-Dinitrotoluene	3.765	165	90008	2689.731	ng/ml	97
16) Acenaphthylene	3.804	152	935026	2568.103	ng/ml	99
18) Acenaphthene	3.904	153	649964	2393.847	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL9.D
Acq On : 17 Sep 2024 07:01 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml #10901
Misc : WG1973864,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 19 13:57:33 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.991	165	115564M4	2687.411	ng/ml	
20) Fluorene	4.193	166	732339	2460.443	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.222	198	47581	2659.272	ng/ml	96
24) Hexachlorobenzene	4.513	284	285812	2370.931	ng/ml	100
25) Pentachlorophenol	4.624	266	131783	2702.585	ng/ml	100
26) Phenanthrene	4.740	178	1159468	2385.942	ng/ml	100
27) Anthracene	4.768	178	1185396	2458.586	ng/ml	99
28) Fluoranthene	5.420	202	1394325	2529.486	ng/ml	99
29) Pyrene	5.549	202	1474755	2535.834	ng/ml	99
32) Benzo[a]anthracene	6.271	228	1535594	2584.054	ng/ml	99
33) 3,3'-Dichlorobenzene	6.257	252	581650	2544.172	ng/ml	99
34) Chrysene	6.298	228	1451791	2527.668	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.298	149	599245	2719.754	ng/ml	100
37) Benzo[b]fluoranthene	7.109	252	1566682	2785.505	ng/ml	96
38) Benzo[k]fluoranthene	7.138	252	1640597	2976.994	ng/ml	98
39) Benzo[a]pyrene	7.420	252	1476972	3018.131	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.697	276	1604906	3122.623	ng/ml	99
41) Dibenzo[a,h]anthracene	8.735	278	1508459M6	2498.903	ng/ml	
42) Benzo[g,h,i]perylene	9.037	276	1569855	2949.512	ng/ml	99

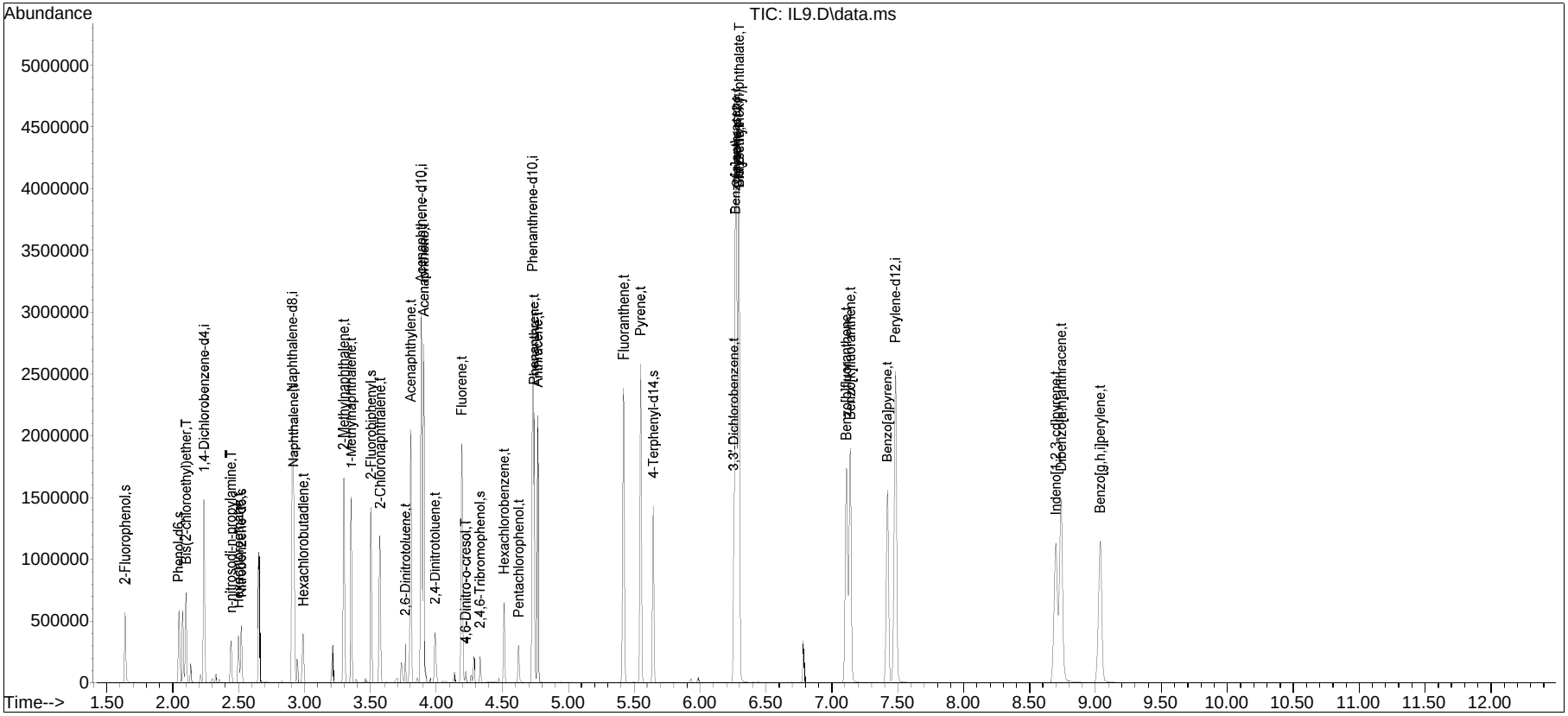
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL9.D
Acq On : 17 Sep 2024 07:01 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml #10901
Misc : WG1973864,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 19 13:57:33 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:30 2024
Response via : Initial Calibration

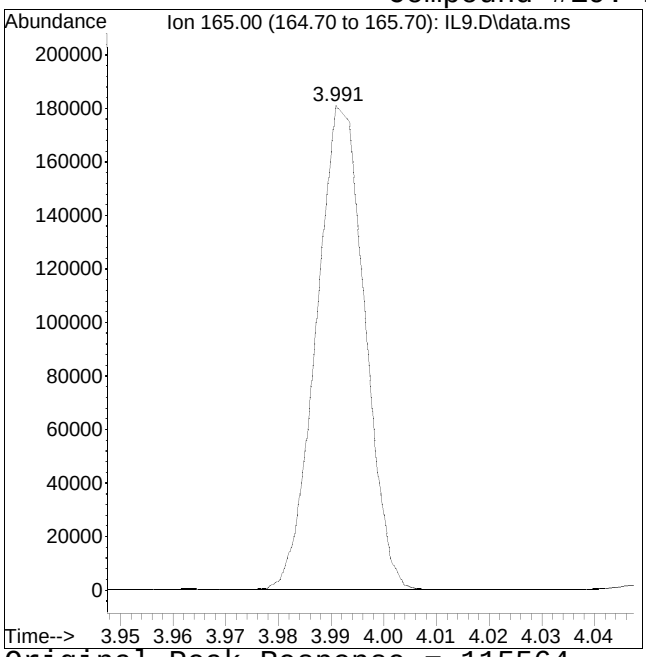
Sub List : Default - All compounds listedTical\IL8.D•



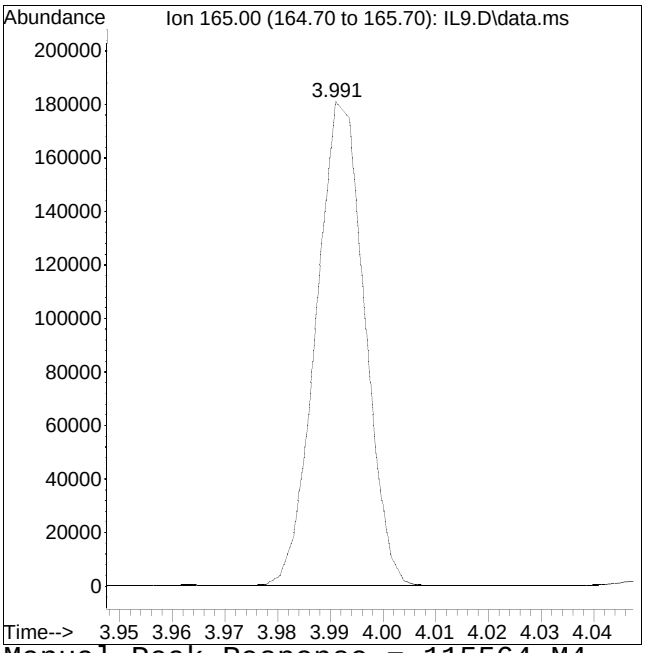
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL9.D Operator : SV125:dv
Date Inj'd : 9/17/2024 7:01 pm Instrument : SV125
Sample : IL9,32,,2500.0 ng/ml #1090Quant Date : 9/19/2024 1:56 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 115564



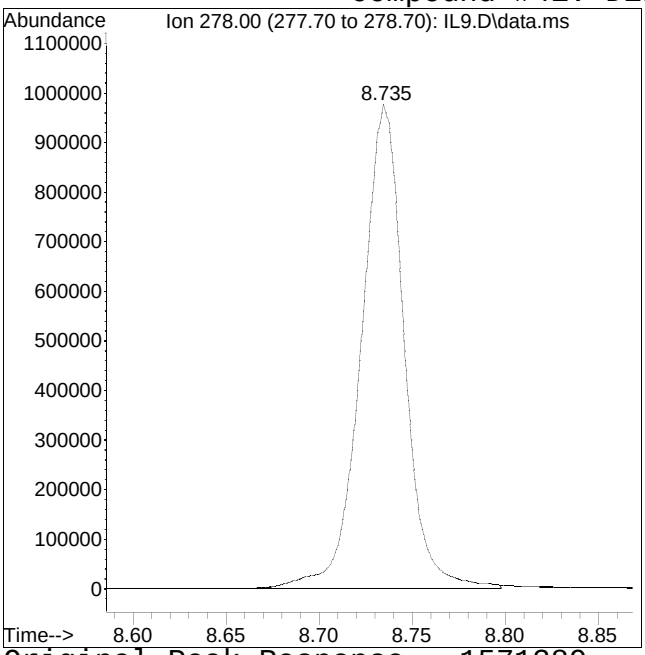
Manual Peak Response = 115564 M4

M4 = Poor automated baseline construction.

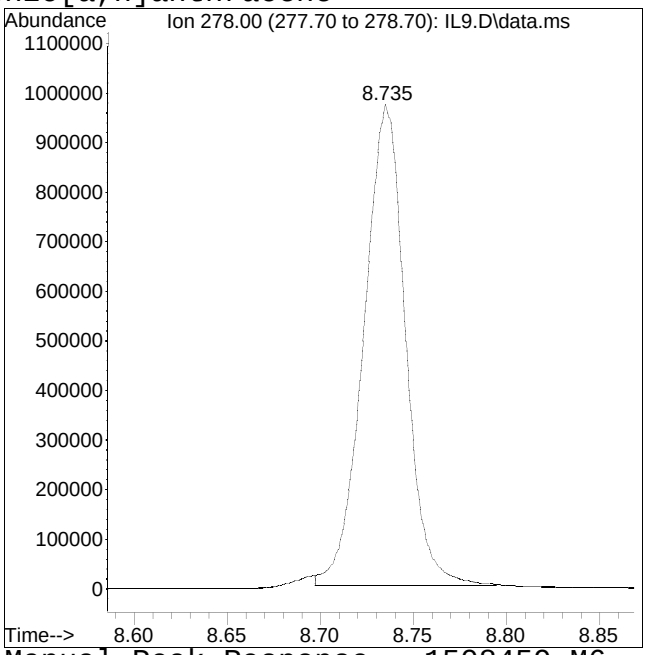
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL9.D Operator : SV125:dv
Date Inj'd : 9/17/2024 7:01 pm Instrument : SV125
Sample : IL9,32,,2500.0 ng/ml #1090Quant Date : 9/19/2024 1:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1571389



Manual Peak Response = 1508459 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL8.D
Acq On : 17 Sep 2024 07:17 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml #10888
Misc : WG1973864,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 19 13:59:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.238	152	394276	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 100.00%			
8) Naphthalene-d8	2.908	136	1378401	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 100.00%			
17) Acenaphthene-d10	3.888	164	866554	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 100.00%			
22) Phenanthrene-d10	4.729	188	1842065	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 100.00%			
31) Chrysene-d12	6.272	240	1977784	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 100.00%			
36) Perylene-d12	7.475	264	2341485	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.645	112	94345	972.420	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.62%			
3) Phenol-d6	2.047	99	115048	961.528	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.08%			
7) Nitrobenzene-d5	2.521	82	64693	1051.244	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 105.12%			
13) 2-Fluorobiphenyl	3.507	172	280355	959.865	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.99%			
21) 2,4,6-Tribromophenol	4.333	330	39937	1061.498	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.07%			
30) 4-Terphenyl-d14	5.640	244	375720	1003.688	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 100.37%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.103	93	102166	960.934	ng/ml	100
5) n-nitrosodi-n-propylamine	2.441	70	71201	981.334	ng/ml	100
6) Hexachloroethane	2.501	117	41487	964.044	ng/ml	100
9) Naphthalene	2.918	128	337347	918.877	ng/ml#	100
10) Hexachlorobutadiene	2.991	225	71129	958.975	ng/ml	100
11) 2-Methylnaphthalene	3.300	142	228281	970.842	ng/ml	100
12) 1-Methylnaphthalene	3.355	142	212723	975.292	ng/ml	100
14) 2-Chloronaphthalene	3.571	162	243331	977.307	ng/ml	100
15) 2,6-Dinitrotoluene	3.764	165	27520	925.660	ng/ml	100
16) Acenaphthylene	3.807	152	362824	1003.381	ng/ml	100
18) Acenaphthene	3.904	153	253297	958.535	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL8.D
Acq On : 17 Sep 2024 07:17 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml #10888
Misc : WG1973864,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 19 13:59:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.993	165	35048M4	934.785	ng/ml	
20) Fluorene	4.195	166	283889	979.988	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.221	198	15031	939.941	ng/ml	100
24) Hexachlorobenzene	4.512	284	111664	947.268	ng/ml	100
25) Pentachlorophenol	4.623	266	41614	963.208	ng/ml	100
26) Phenanthrene	4.739	178	455141	957.786	ng/ml	100
27) Anthracene	4.768	178	460662	977.070	ng/ml	100
28) Fluoranthene	5.418	202	540307	1002.375	ng/ml	100
29) Pyrene	5.546	202	578716	1017.625	ng/ml	100
32) Benzo[a]anthracene	6.264	228	597203	1018.478	ng/ml	100
33) 3,3'-Dichlorobenzene	6.250	252	204577	927.716	ng/ml	100
34) Chrysene	6.288	228	565845	1004.381	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.291	149	177074	910.465	ng/ml	100
37) Benzo[b]fluoranthene	7.101	252	622091	1135.422	ng/ml	100
38) Benzo[k]fluoranthene	7.123	252	585428	1090.511	ng/ml	100
39) Benzo[a]pyrene	7.409	252	543223	1139.526	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.683	276	578966	1156.387	ng/ml	100
41) Dibenzo[a,h]anthracene	8.721	278	543468M6	992.650	ng/ml	
42) Benzo[g,h,i]perylene	9.022	276	576221	1111.374	ng/ml	100

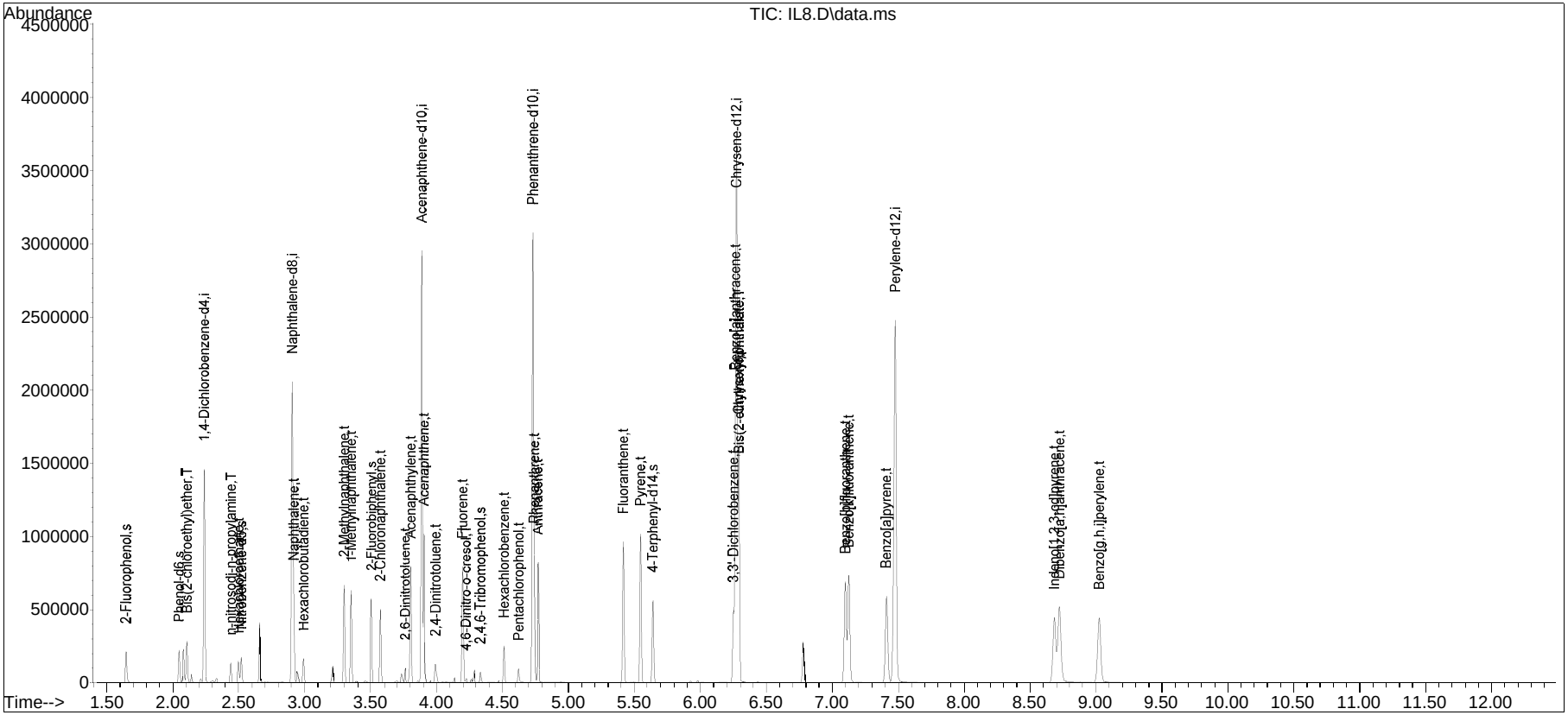
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL8.D
Acq On : 17 Sep 2024 07:17 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml #10888
Misc : WG1973864,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 19 13:59:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:26 2024
Response via : Initial Calibration

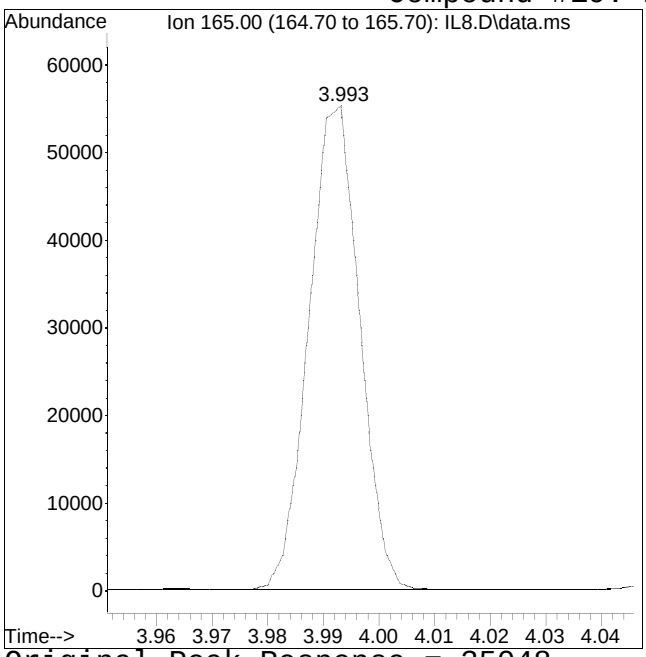
Sub List : Default - All compounds listedTical\IL8.D•



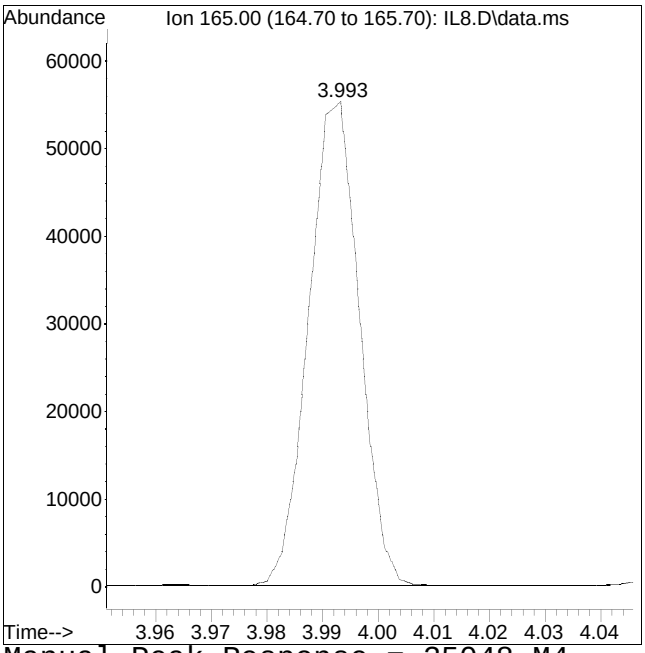
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL8.D Operator : SV125:dv
Date Inj'd : 9/17/2024 7:17 pm Instrument : SV125
Sample : IL8,32,,1000.0 ng/ml #1088Quant Date : 9/19/2024 1:56 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 35048



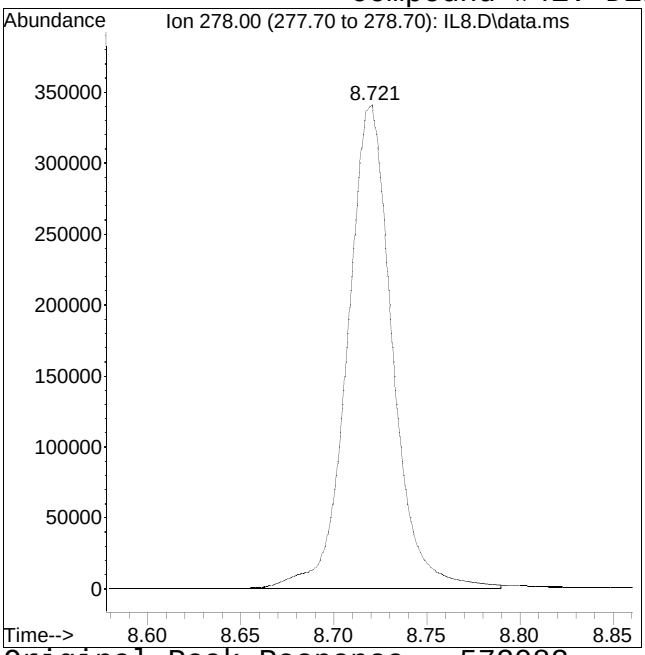
Manual Peak Response = 35048 M4

M4 = Poor automated baseline construction.

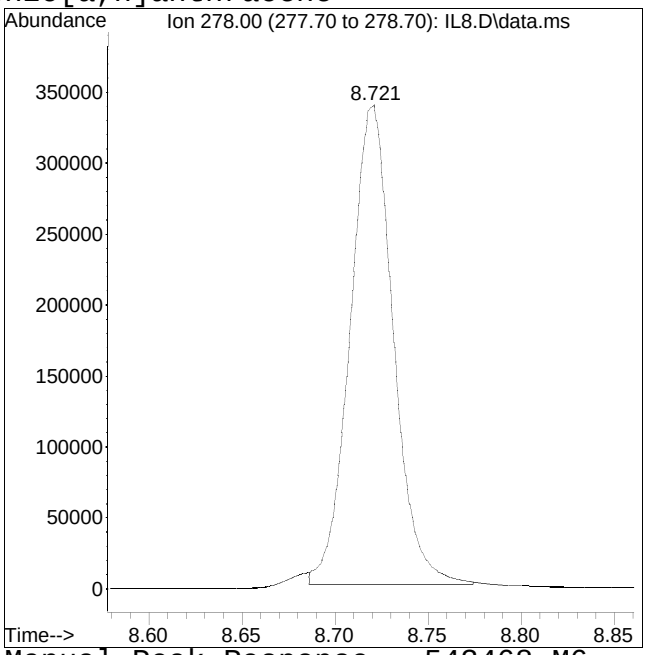
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL8.D
Date Inj'd : 9/17/2024 7:17 pm
Sample : IL8,32,,1000.0 ng/ml #1088
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 1:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 572082



Manual Peak Response = 543468 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL7.D
Acq On : 17 Sep 2024 07:33 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml #10889
Misc : WG1973864,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 19 13:59:01 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	409032	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 103.74%			
8) Naphthalene-d8	2.908	136	1437308	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 104.27%			
17) Acenaphthene-d10	3.889	164	909423	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 104.95%			
22) Phenanthrene-d10	4.728	188	1937370	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 105.17%			
31) Chrysene-d12	6.269	240	2017816	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 102.02%			
36) Perylene-d12	7.472	264	2297096	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 98.10%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.648	112	50836	505.068	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.25%			
3) Phenol-d6	2.047	99	61771	497.635	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.88%			
7) Nitrobenzene-d5	2.521	82	34058	533.468	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 53.35%			
13) 2-Fluorobiphenyl	3.508	172	154107	505.999	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.60%			
21) 2,4,6-Tribromophenol	4.332	330	20602	521.775	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.09%			
30) 4-Terphenyl-d14	5.638	244	204272	518.842	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 51.88%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	54920	497.922	ng/ml	100
5) n-nitrosodi-n-propylamine	2.441	70	37913	503.689	ng/ml	100
6) Hexachloroethane	2.501	117	22469	503.282	ng/ml	98
9) Naphthalene	2.918	128	181689	474.608	ng/ml#	100
10) Hexachlorobutadiene	2.991	225	38144	493.188	ng/ml	99
11) 2-Methylnaphthalene	3.300	142	123496	503.683	ng/ml	100
12) 1-Methylnaphthalene	3.355	142	114732	504.464	ng/ml	100
14) 2-Chloronaphthalene	3.572	162	131286	505.682	ng/ml	100
15) 2,6-Dinitrotoluene	3.765	165	12858	439.234	ng/ml	98
16) Acenaphthylene	3.807	152	194291	515.286	ng/ml	100
18) Acenaphthene	3.905	153	137357	495.289	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL7.D
Acq On : 17 Sep 2024 07:33 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml #10889
Misc : WG1973864,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 19 13:59:01 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.991	165	16029M4	433.276	ng/ml	
20) Fluorene	4.194	166	154935	509.626	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.223	198	7225	451.765	ng/ml#	83
24) Hexachlorobenzene	4.514	284	62027	500.303	ng/ml	99
25) Pentachlorophenol	4.622	266	18407	422.230	ng/ml	100
26) Phenanthrene	4.741	178	253139	506.493	ng/ml	100
27) Anthracene	4.769	178	251289	506.768	ng/ml	100
28) Fluoranthene	5.418	202	294496	519.471	ng/ml	100
29) Pyrene	5.547	202	314661	526.087	ng/ml	100
32) Benzo[a]anthracene	6.264	228	315525	522.576	ng/ml	100
33) 3,3'-Dichlorobenzene	6.248	252	99013	452.747	ng/ml	100
34) Chrysene	6.286	228	306428	533.122	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.288	149	81916	438.463	ng/ml	99
37) Benzo[b]fluoranthene	7.098	252	298393	555.142	ng/ml	100
38) Benzo[k]fluoranthene	7.120	252	315945	599.902	ng/ml	100
39) Benzo[a]pyrene	7.406	252	271606	580.761	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.680	276	274836	559.546	ng/ml	99
41) Dibenzo[a,h]anthracene	8.715	278	274643M6	523.679	ng/ml	
42) Benzo[g,h,i]perylene	9.016	276	283894	558.135	ng/ml	100

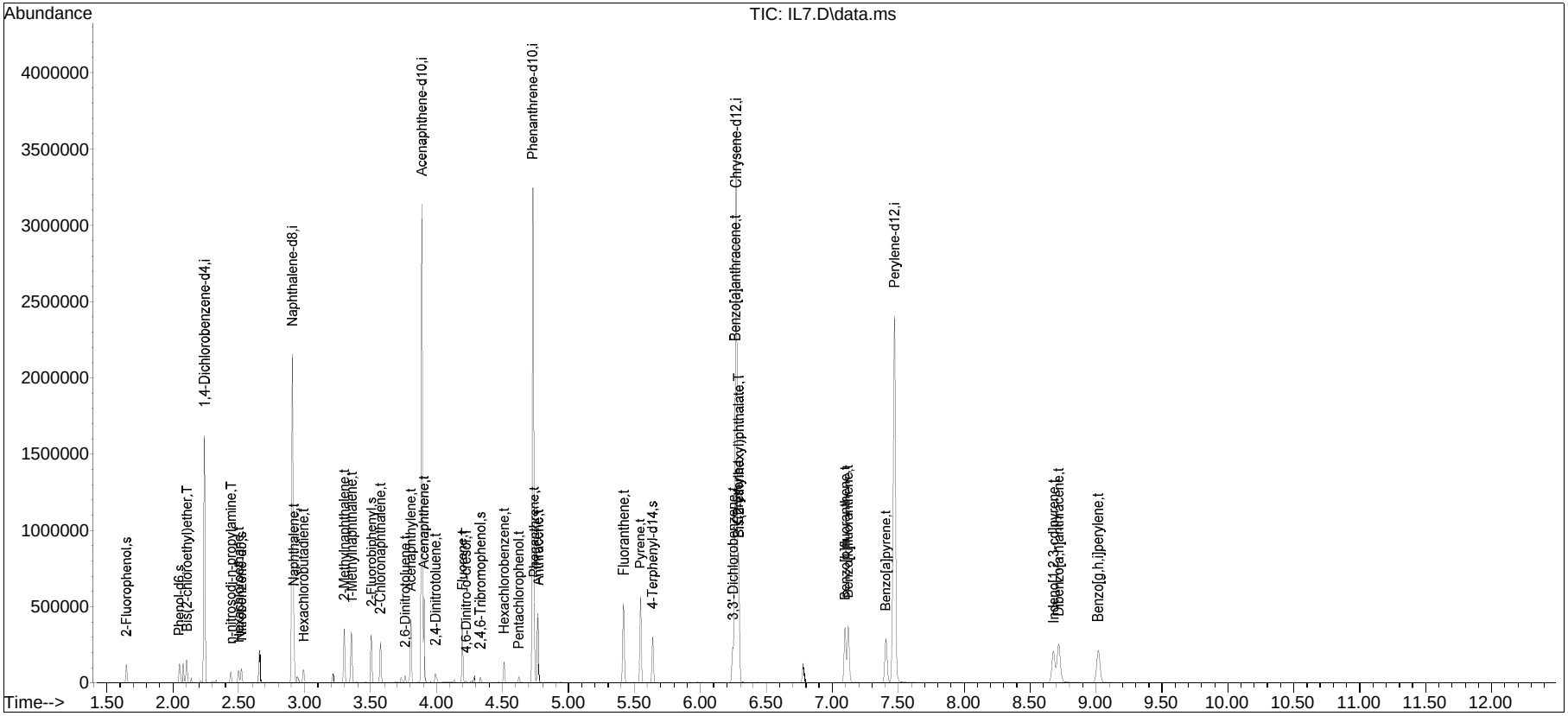
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL7.D
Acq On : 17 Sep 2024 07:33 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml #10889
Misc : WG1973864,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 19 13:59:01 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:20 2024
Response via : Initial Calibration

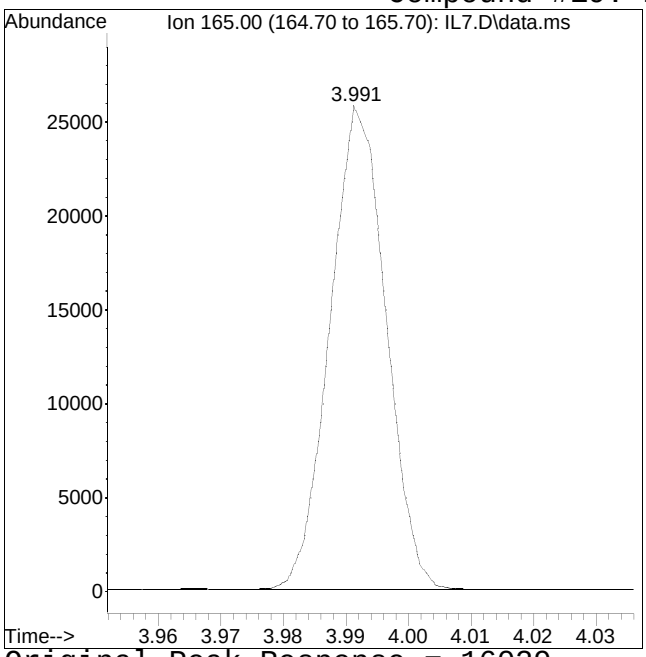
Sub List : Default - All compounds listedTical\IL8.D•

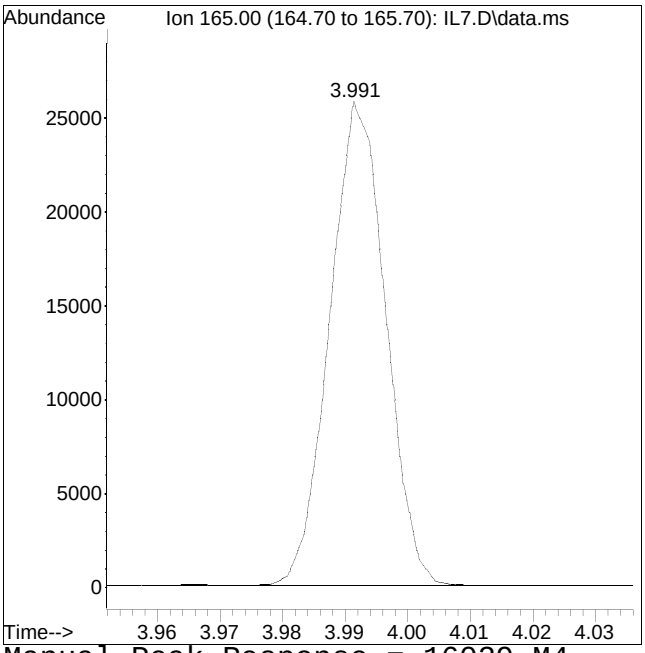


Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL7.D Operator : SV125:dv
Date Inj'd : 9/17/2024 7:33 pm Instrument : SV125
Sample : IL7,32,,500.0 ng/ml #10889Quant Date : 9/19/2024 1:56 pm

Compound #19: 2,4-Dinitrotoluene



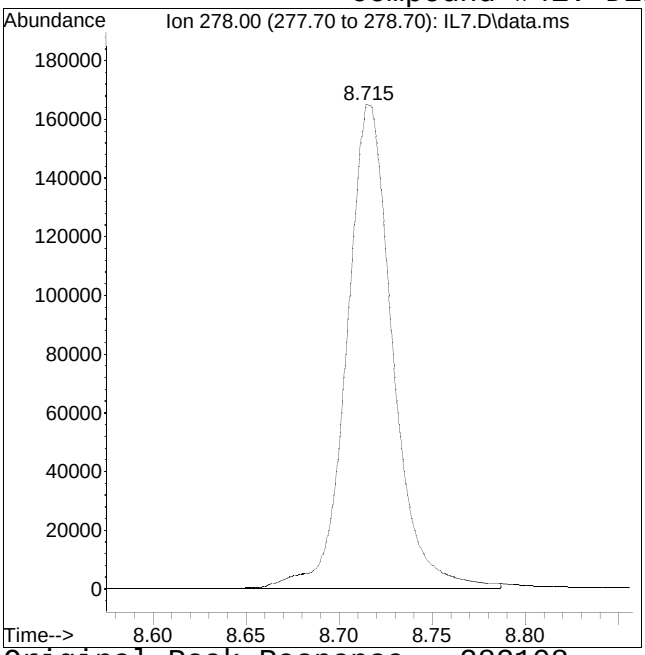


Original Peak Response = 16029 Manual Peak Response = 16029 M4
M4 = Poor automated baseline construction.

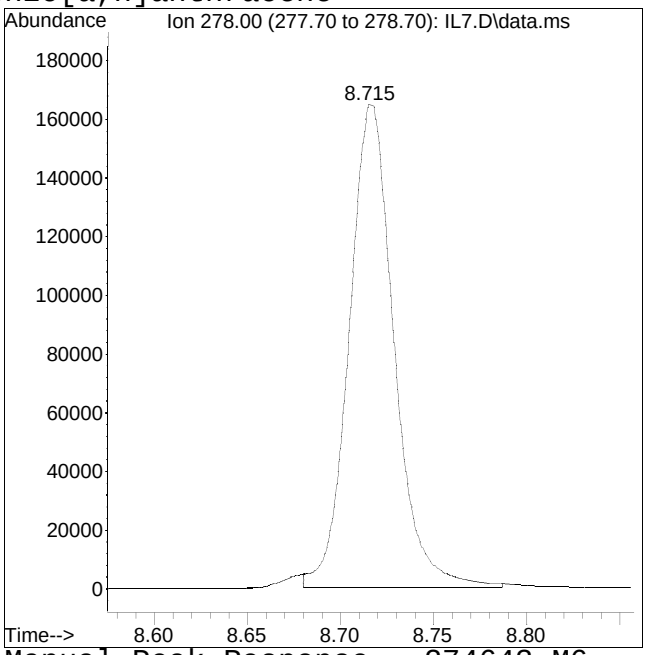
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL7.D Operator : SV125:dv
Date Inj'd : 9/17/2024 7:33 pm Instrument : SV125
Sample : IL7,32,,500.0 ng/ml #10889Quant Date : 9/19/2024 1:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 282108



Manual Peak Response = 274643 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL6.D
Acq On : 17 Sep 2024 07:49 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml #10899
Misc : WG1973864,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 13:58:36 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:15 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	407561	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 103.37%			
8) Naphthalene-d8	2.908	136	1389381	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 100.80%			
17) Acenaphthene-d10	3.889	164	854117	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 98.56%			
22) Phenanthrene-d10	4.730	188	1800028	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 97.72%			
31) Chrysene-d12	6.270	240	1911355	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 96.64%			
36) Perylene-d12	7.473	264	2231155	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 95.29%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.648	112	10266	102.363	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.12%#			
3) Phenol-d6	2.050	99	12269	99.197	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.96%#			
7) Nitrobenzene-d5	2.524	82	6396	100.545	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.05%#			
13) 2-Fluorobiphenyl	3.508	172	30425	103.344	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.33%#			
21) 2,4,6-Tribromophenol	4.334	330	3435	92.629	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.63%#			
30) 4-Terphenyl-d14	5.639	244	36784	100.559	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.06%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	11435	104.047	ng/ml	97
5) n-nitrosodi-n-propylamine	2.444	70	7313	97.507	ng/ml	99
6) Hexachloroethane	2.504	117	4489	100.912	ng/ml	99
9) Naphthalene	2.918	128	36342	98.207	ng/ml#	99
10) Hexachlorobutadiene	2.995	225	7667	102.551	ng/ml	100
11) 2-Methylnaphthalene	3.300	142	24082	101.607	ng/ml	100
12) 1-Methylnaphthalene	3.355	142	22465	102.184	ng/ml	100
14) 2-Chloronaphthalene	3.572	162	25777	102.712	ng/ml	100
15) 2,6-Dinitrotoluene	3.765	165	1972	91.077	ng/ml	97
16) Acenaphthylene	3.807	152	36205	99.333	ng/ml	100
18) Acenaphthene	3.905	153	26829	103.006	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL6.D
Acq On : 17 Sep 2024 07:49 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml #10899
Misc : WG1973864,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 13:58:36 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:15 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.994	165	2319M4	90.110	ng/ml	
20) Fluorene	4.197	166	28973	101.471	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.222	198	1043	91.441	ng/ml#	69
24) Hexachlorobenzene	4.513	284	11880	103.134	ng/ml	100
25) Pentachlorophenol	4.624	266	2517	70.061	ng/ml	100
26) Phenanthrene	4.740	178	48841	105.180	ng/ml	95
27) Anthracene	4.769	178	46731	101.432	ng/ml	100
28) Fluoranthene	5.420	202	53018	100.656	ng/ml	100
29) Pyrene	5.548	202	55887	100.568	ng/ml	100
32) Benzo[a]anthracene	6.262	228	59727	96.383	ng/ml	98
33) 3,3'-Dichlorobenzene	6.248	252	15190	93.498	ng/ml	99
34) Chrysene	6.286	228	58964	108.299	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.289	149	10642M6	87.014	ng/ml	
37) Benzo[b]fluoranthene	7.096	252	51332	98.323	ng/ml	100
38) Benzo[k]fluoranthene	7.121	252	53445	104.478	ng/ml	100
39) Benzo[a]pyrene	7.407	252	45443	100.040	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.678	276	46609	97.697	ng/ml	100
41) Dibenzo[a,h]anthracene	8.715	278	46602M6	94.122	ng/ml	
42) Benzo[g,h,i]perylene	9.017	276	50214	101.638	ng/ml	99

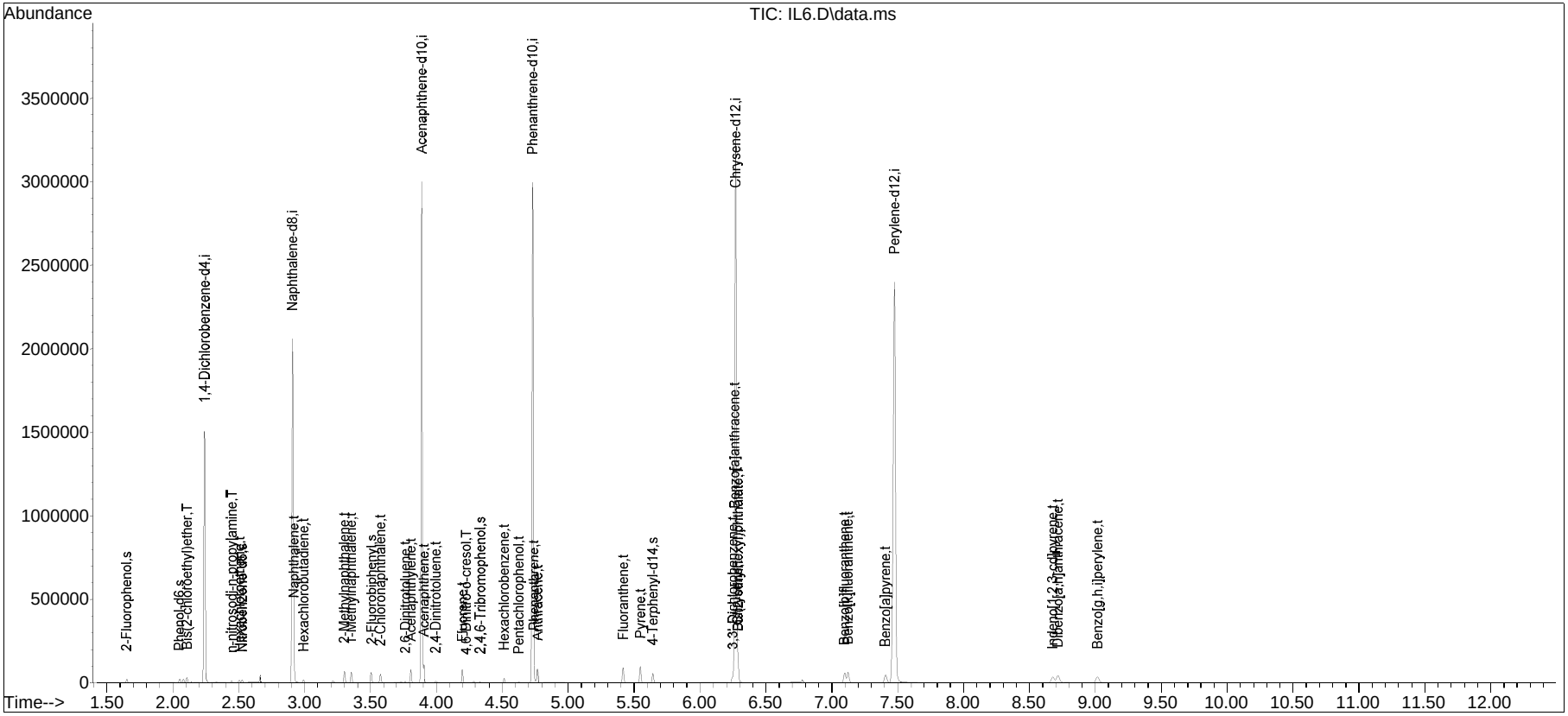
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL6.D
Acq On : 17 Sep 2024 07:49 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml #10899
Misc : WG1973864,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 13:58:36 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:56:15 2024
Response via : Initial Calibration

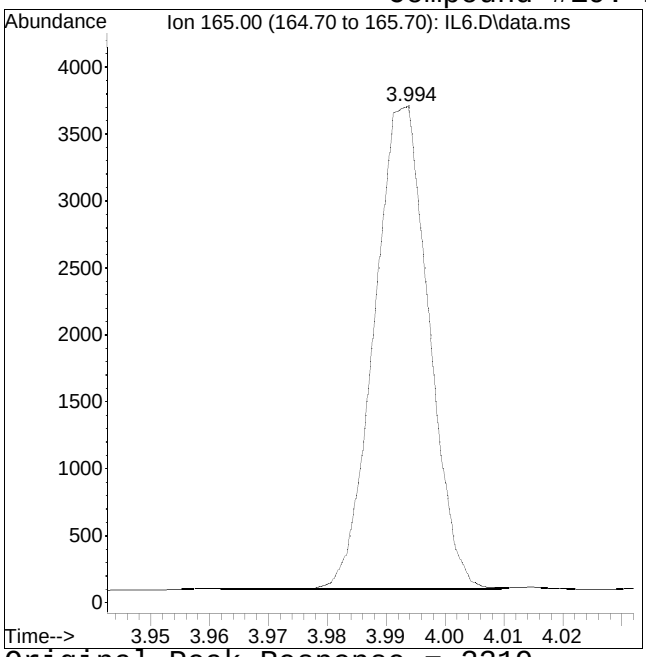
Sub List : Default - All compounds listedTical\IL8.D•



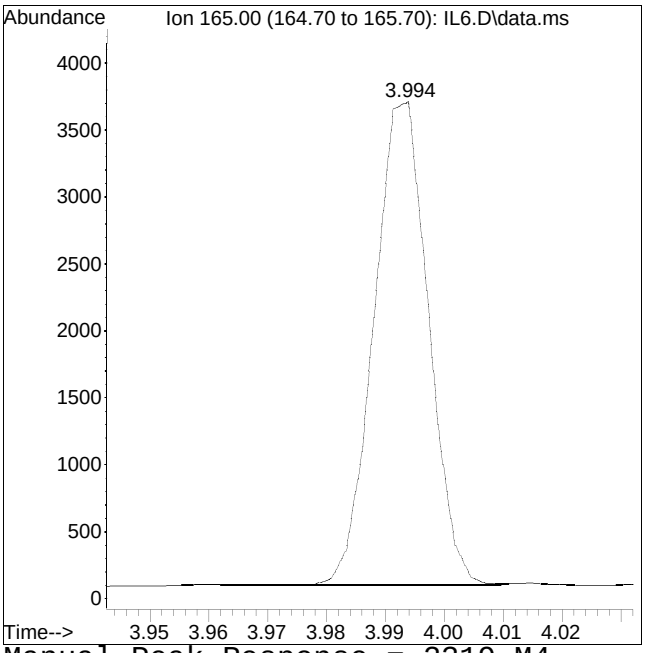
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL6.D
Date Inj'd : 9/17/2024 7:49 pm
Sample : IL6,32,,100.0 ng/ml #10899
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 1:56 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 2319



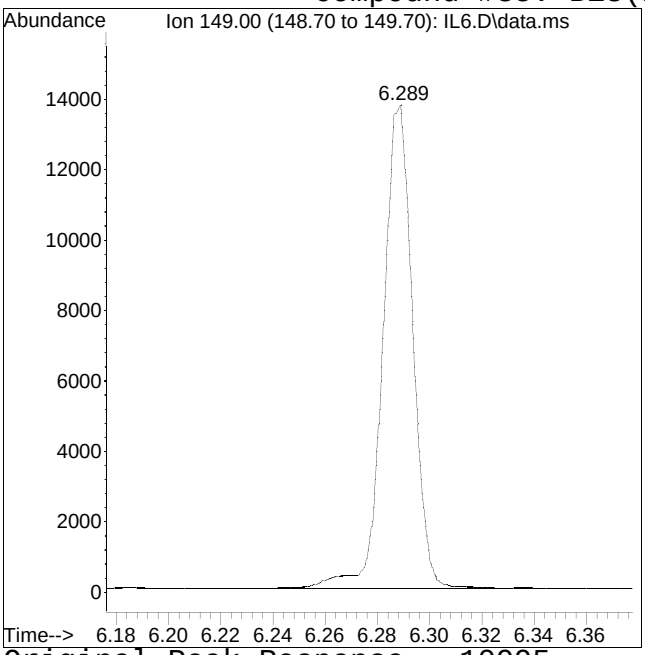
Manual Peak Response = 2319 M4

M4 = Poor automated baseline construction.

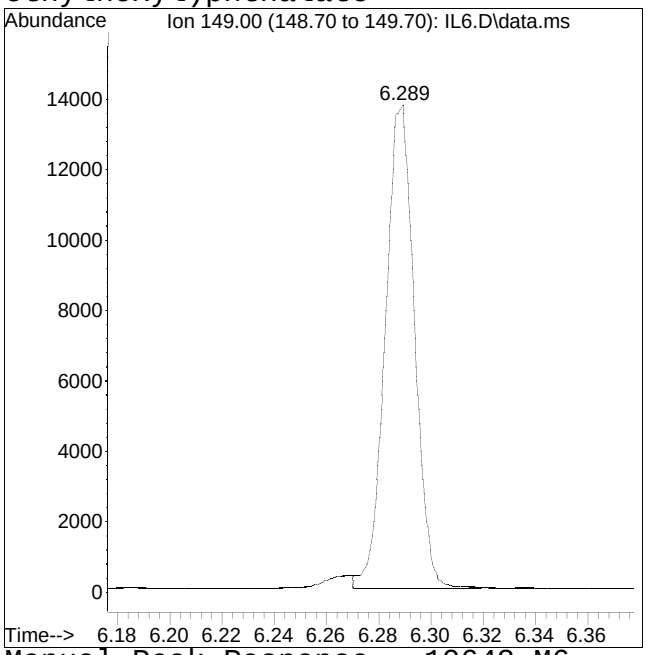
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL6.D
Date Inj'd : 9/17/2024 7:49 pm
Sample : IL6,32,,100.0 ng/ml #10899
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 1:56 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 10995



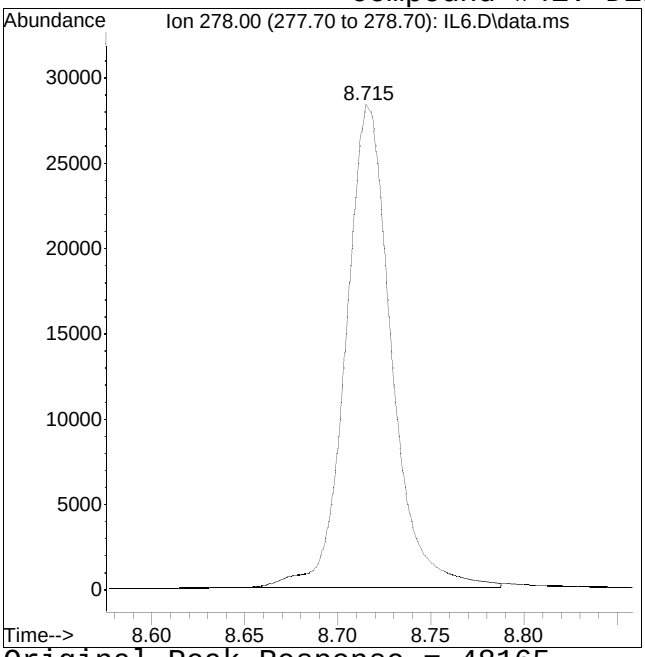
Manual Peak Response = 10642 M6

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

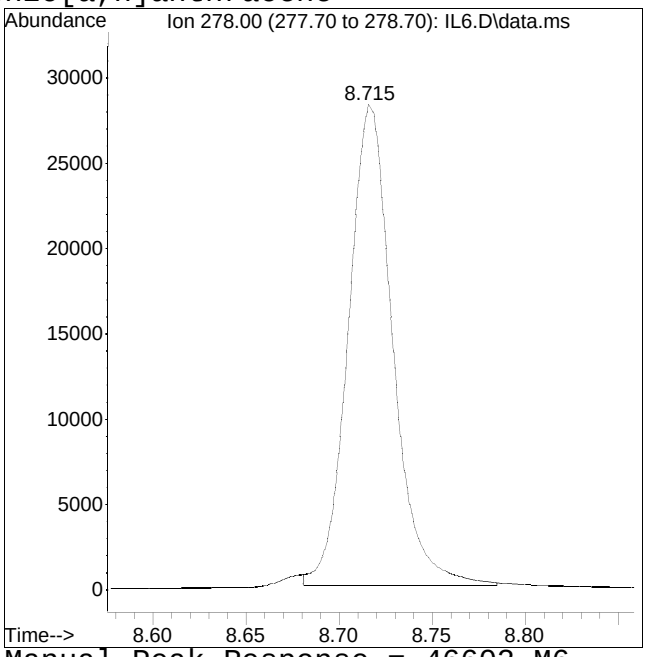
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL6.D
Date Inj'd : 9/17/2024 7:49 pm
Sample : IL6,32,,100.0 ng/ml #10899
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 1:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 48165



Manual Peak Response = 46602 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL5.D
Acq On : 17 Sep 2024 08:05 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml #10891
Misc : WG1973864,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 13:58:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:55:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	409922	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 103.97%			
8) Naphthalene-d8	2.908	136	1414147	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 102.59%			
17) Acenaphthene-d10	3.889	164	870430	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 100.45%			
22) Phenanthrene-d10	4.728	188	1829454	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 99.32%			
31) Chrysene-d12	6.271	240	1931812	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 97.68%			
36) Perylene-d12	7.474	264	2201815	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 94.03%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.648	112	3927	38.931	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.95%#			
3) Phenol-d6	2.050	99	4778	38.409	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.92%#			
7) Nitrobenzene-d5	2.524	82	2404	37.573	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.76%#			
13) 2-Fluorobiphenyl	3.508	172	11995	40.030	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.00%#			
21) 2,4,6-Tribromophenol	4.331	330	1283	33.949	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.70%#			
30) 4-Terphenyl-d14	5.639	244	14239	38.300	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.83%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	4342	39.280	ng/ml	100
5) n-nitrosodi-n-propylamine	2.444	70	2827	37.476	ng/ml	99
6) Hexachloroethane	2.504	117	1764	39.426	ng/ml	98
9) Naphthalene	2.921	128	14381	38.181	ng/ml#	98
10) Hexachlorobutadiene	2.994	225	3032	39.845	ng/ml	98
11) 2-Methylnaphthalene	3.300	142	9460	39.215	ng/ml	100
12) 1-Methylnaphthalene	3.355	142	8826	39.443	ng/ml	100
14) 2-Chloronaphthalene	3.572	162	10063	39.395	ng/ml	100
15) 2,6-Dinitrotoluene	3.765	165	745	48.846	ng/ml	97
16) Acenaphthylene	3.807	152	14108	38.029	ng/ml	99
18) Acenaphthene	3.907	153	10542	39.716	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL5.D
Acq On : 17 Sep 2024 08:05 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml #10891
Misc : WG1973864,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 13:58:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:55:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.994	165	856M4	49.381	ng/ml	
20) Fluorene	4.198	166	11177	38.411	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.227	198	371	47.557	ng/ml#	65
24) Hexachlorobenzene	4.514	284	4561	38.959	ng/ml	99
25) Pentachlorophenol	4.625	266	1290	39.250	ng/ml	99
26) Phenanthrene	4.741	178	19596M4	41.522	ng/ml	
27) Anthracene	4.769	178	18031	38.508	ng/ml	100
28) Fluoranthene	5.419	202	20293	37.907	ng/ml	100
29) Pyrene	5.547	202	21176	37.493	ng/ml	100
32) Benzo[a]anthracene	6.263	228	26497	36.663	ng/ml	96
33) 3,3'-Dichlorobenzene	6.246	252	5286	47.974	ng/ml	98
34) Chrysene	6.284	228	22515	40.915	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.287	149	3903M6	50.736	ng/ml	
37) Benzo[b]fluoranthene	7.097	252	18237	35.397	ng/ml	97
38) Benzo[k]fluoranthene	7.119	252	19048M4	37.733	ng/ml	
39) Benzo[a]pyrene	7.405	252	16017	35.730	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.675	276	15972	33.925	ng/ml	100
41) Dibenzo[a,h]anthracene	8.716	278	15625M6	32.585	ng/ml	
42) Benzo[g,h,i]perylene	9.015	276	17450	35.791	ng/ml	99

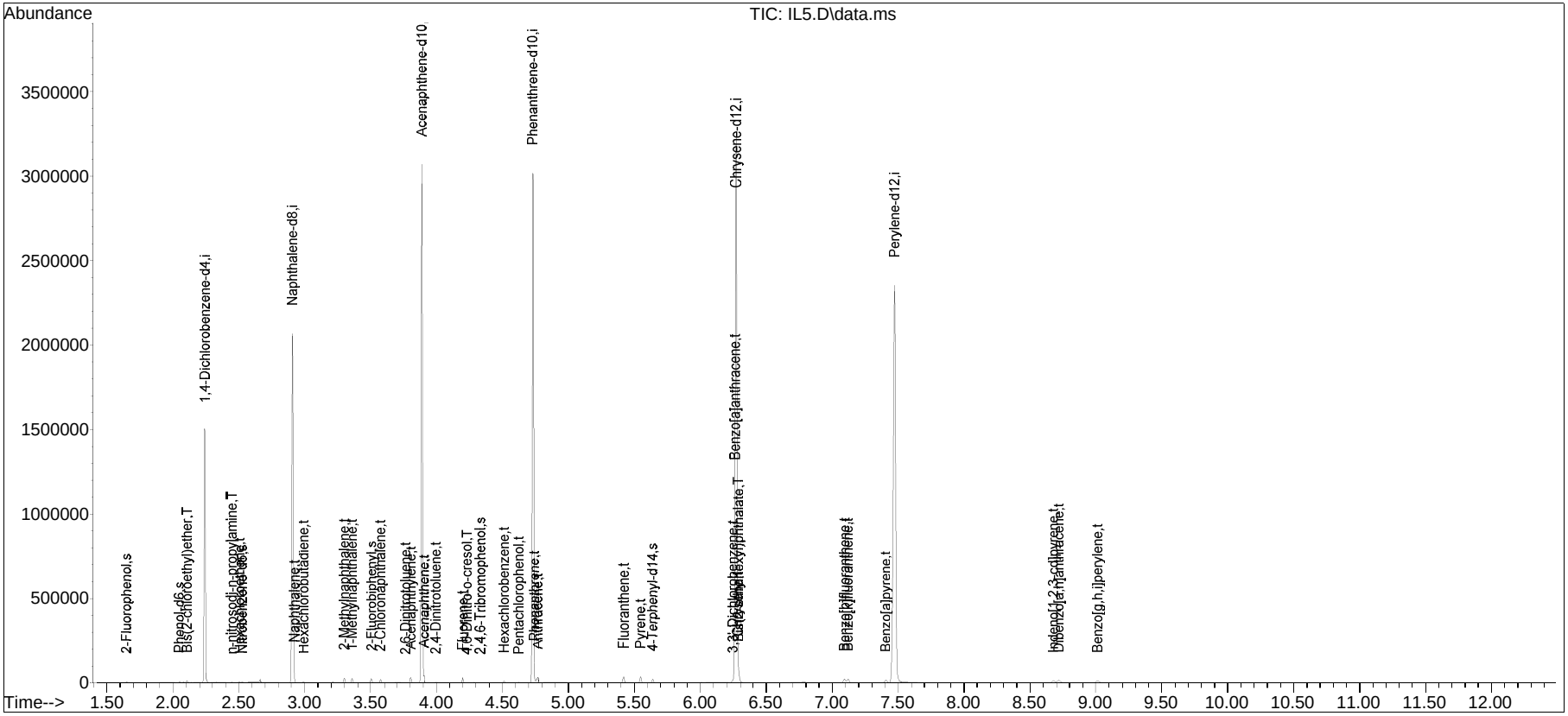
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL5.D
Acq On : 17 Sep 2024 08:05 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml #10891
Misc : WG1973864,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 13:58:14 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 13:55:39 2024
Response via : Initial Calibration

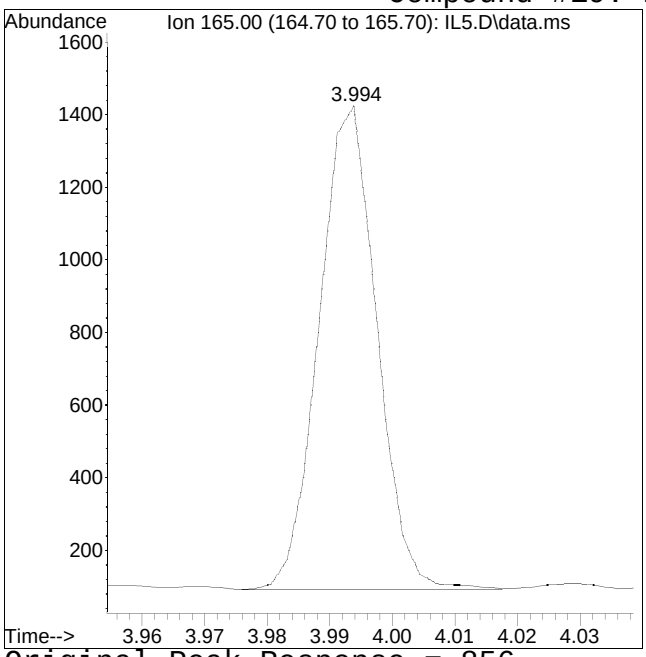
Sub List : Default - All compounds listedTical\IL8.D•



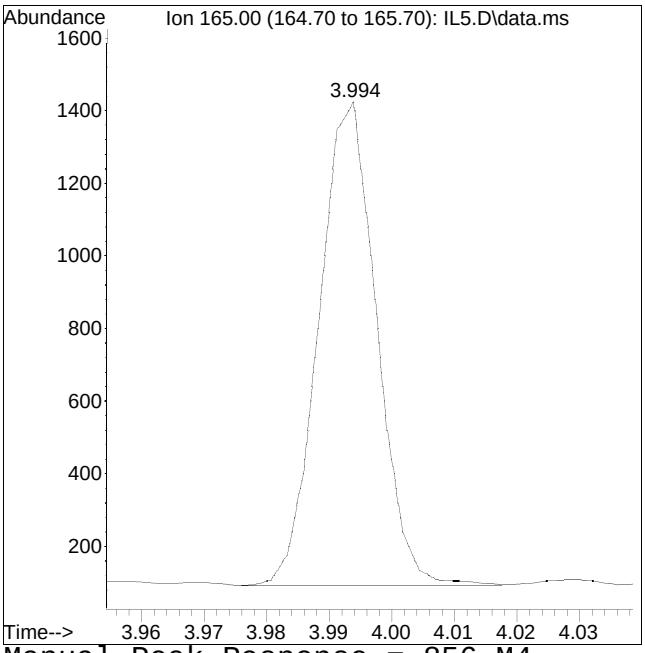
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:05 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml #10891 Quant Date : 9/19/2024 1:55 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 856



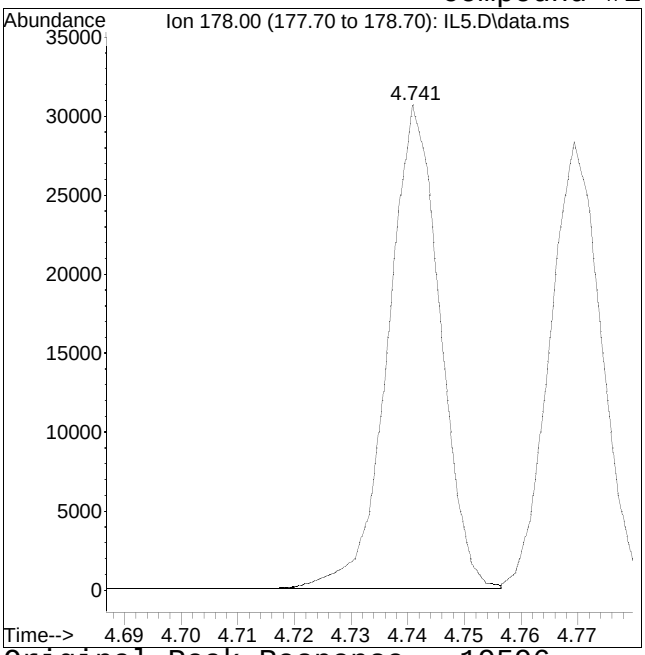
Manual Peak Response = 856 M4

M4 = Poor automated baseline construction.

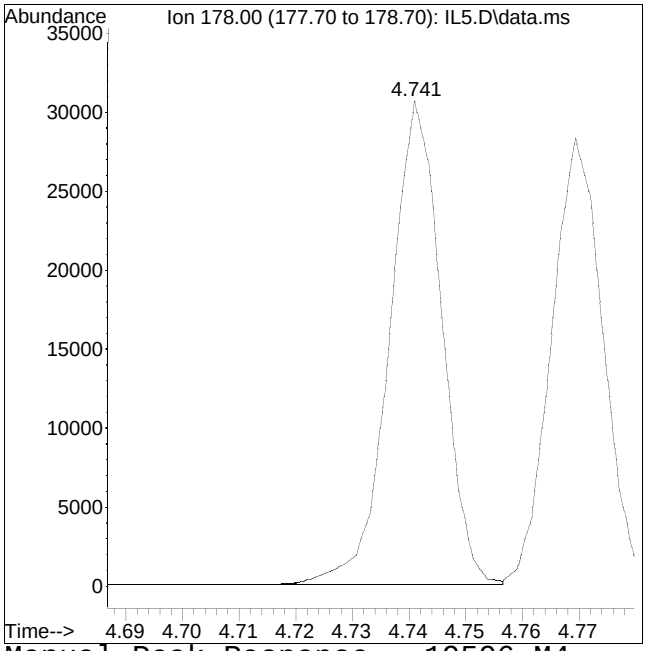
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:05 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml #10891 Quant Date : 9/19/2024 1:55 pm

Compound #26: Phenanthrene



Original Peak Response = 19596



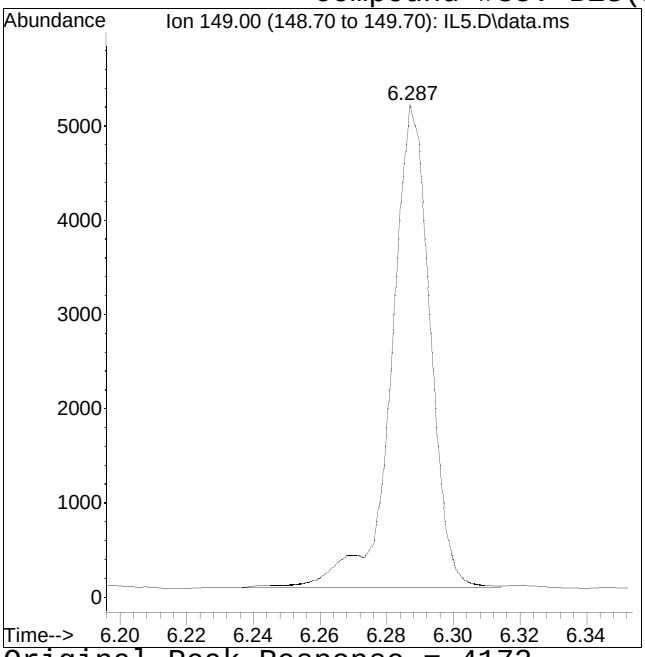
Manual Peak Response = 19596 M4

M4 = Poor automated baseline construction.

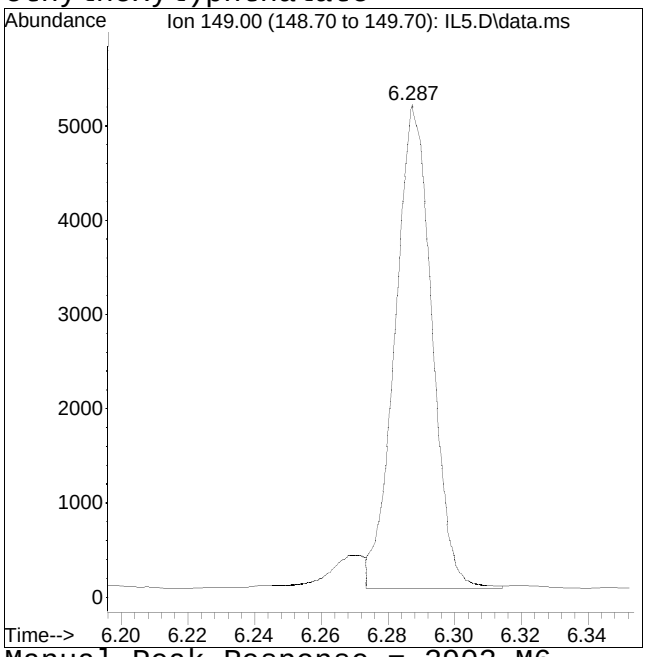
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:05 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml #10891 Quant Date : 9/19/2024 1:55 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 4172



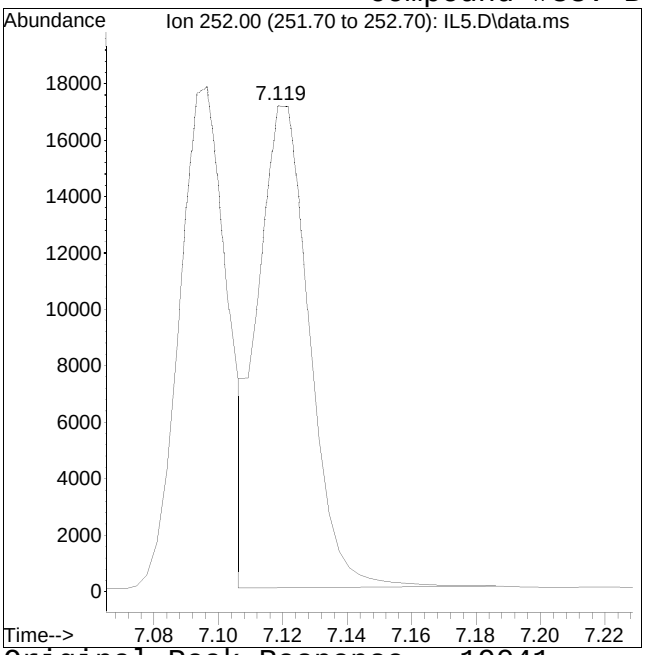
Manual Peak Response = 3903 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

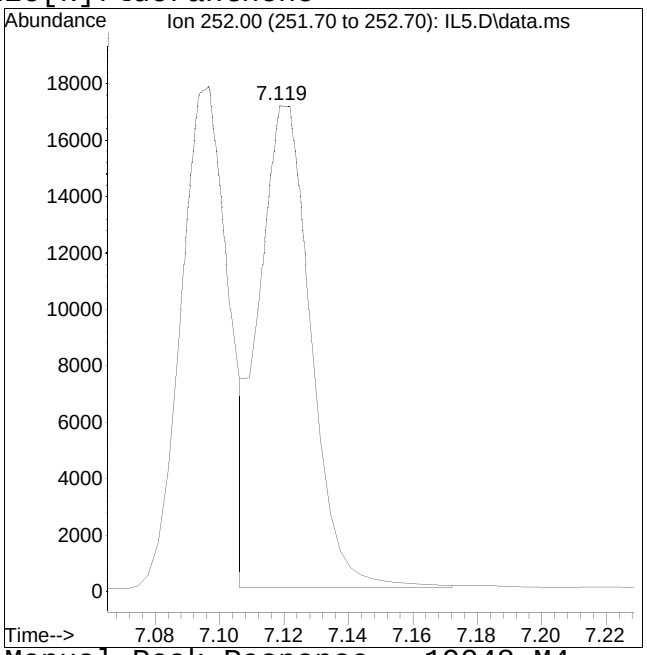
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:05 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml #10891 Quant Date : 9/19/2024 1:55 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 19041



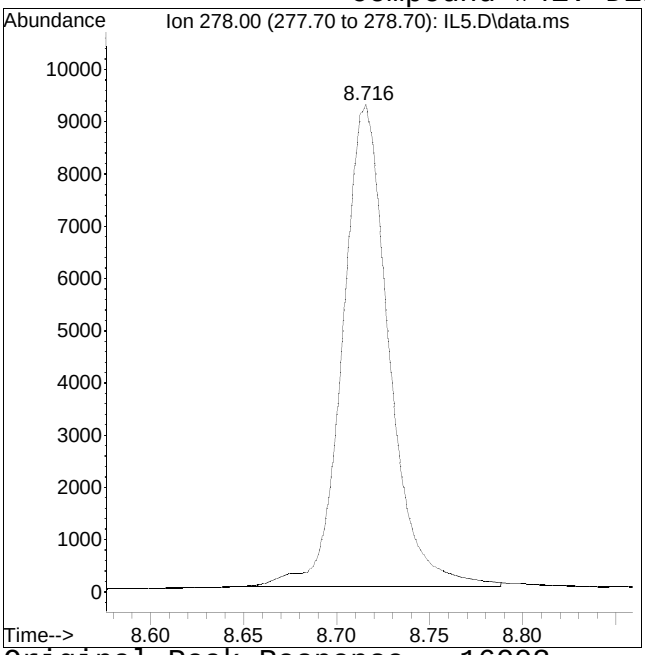
Manual Peak Response = 19048 M4

M4 = Poor automated baseline construction.

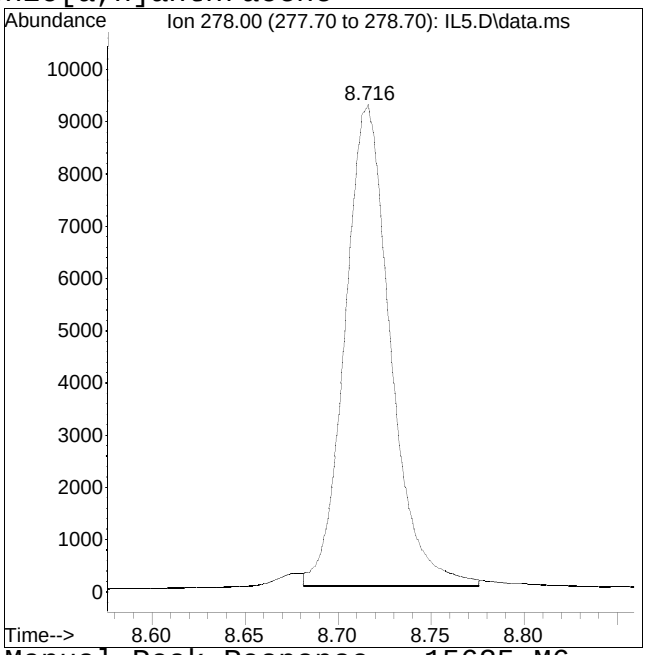
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:05 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml #10891 Quant Date : 9/19/2024 1:55 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 16003



Manual Peak Response = 15625 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL4.D
Acq On : 17 Sep 2024 08:21 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml #10892
Misc : WG1973864,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:38:31 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	408999	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 103.73%			
8) Naphthalene-d8	2.908	136	1402083	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 101.72%			
17) Acenaphthene-d10	3.890	164	863372	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 99.63%			
22) Phenanthrene-d10	4.731	188	1811338	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 98.33%			
31) Chrysene-d12	6.271	240	1910494	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 96.60%			
36) Perylene-d12	7.471	264	2201398	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 94.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	998	9.916	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	2.050	99	1179	9.499	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.47%#			
7) Nitrobenzene-d5	2.524	82	616	9.650	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.97%#			
13) 2-Fluorobiphenyl	3.508	172	2990	10.064	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.334	330	303	8.083	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.40%#			
30) 4-Terphenyl-d14	5.640	244	3464	9.411	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.94%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.108	93	1095	9.928	ng/ml	98
5) n-nitrosodi-n-propylamine	2.444	70	746	9.912	ng/ml	100
6) Hexachloroethane	2.504	117	457	10.237	ng/ml	96
9) Naphthalene	2.921	128	3748	10.036	ng/ml#	93
10) Hexachlorobutadiene	2.994	225	780	10.338	ng/ml	99
11) 2-Methylnaphthalene	3.301	142	2392	10.001	ng/ml	99
12) 1-Methylnaphthalene	3.356	142	2214	9.979	ng/ml	100
14) 2-Chloronaphthalene	3.572	162	2554	10.085	ng/ml	100
15) 2,6-Dinitrotoluene	3.766	165	193	30.366	ng/ml	93
16) Acenaphthylene	3.808	152	3547	9.643	ng/ml	99
18) Acenaphthene	3.905	153	2697M6	10.244	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL4.D
Acq On : 17 Sep 2024 08:21 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml #10892
Misc : WG1973864,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:38:31 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.995	165	199M4	31.612	ng/ml	
20) Fluorene	4.197	166	2790	9.667	ng/ml	100
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.514	284	1165	10.051	ng/ml	99
25) Pentachlorophenol	4.627	266	269M6	14.428	ng/ml	
26) Phenanthrene	4.741	178	4703M6	10.065	ng/ml	
27) Anthracene	4.769	178	4475	9.653	ng/ml	99
28) Fluoranthene	5.417	202	5044	9.516	ng/ml	100
29) Pyrene	5.546	202	5249	9.387	ng/ml	99
32) Benzo[a]anthracene	6.268	228	10775	9.154	ng/ml#	85
33) 3,3'-Dichlorobenzene	6.247	252	1242	29.749	ng/ml	99
34) Chrysene	6.285	228	5751	10.568	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.287	149	991M4	44.579	ng/ml	
37) Benzo[b]fluoranthene	7.094	252	4508	8.751	ng/ml	100
38) Benzo[k]fluoranthene	7.119	252	4521	8.957	ng/ml	100
39) Benzo[a]pyrene	7.405	252	3831	8.548	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.676	276	3911	8.309	ng/ml	100
41) Dibenzo[a,h]anthracene	8.713	278	3548M6	8.002	ng/ml	
42) Benzo[g,h,i]perylene	9.015	276	4160	8.534	ng/ml	99

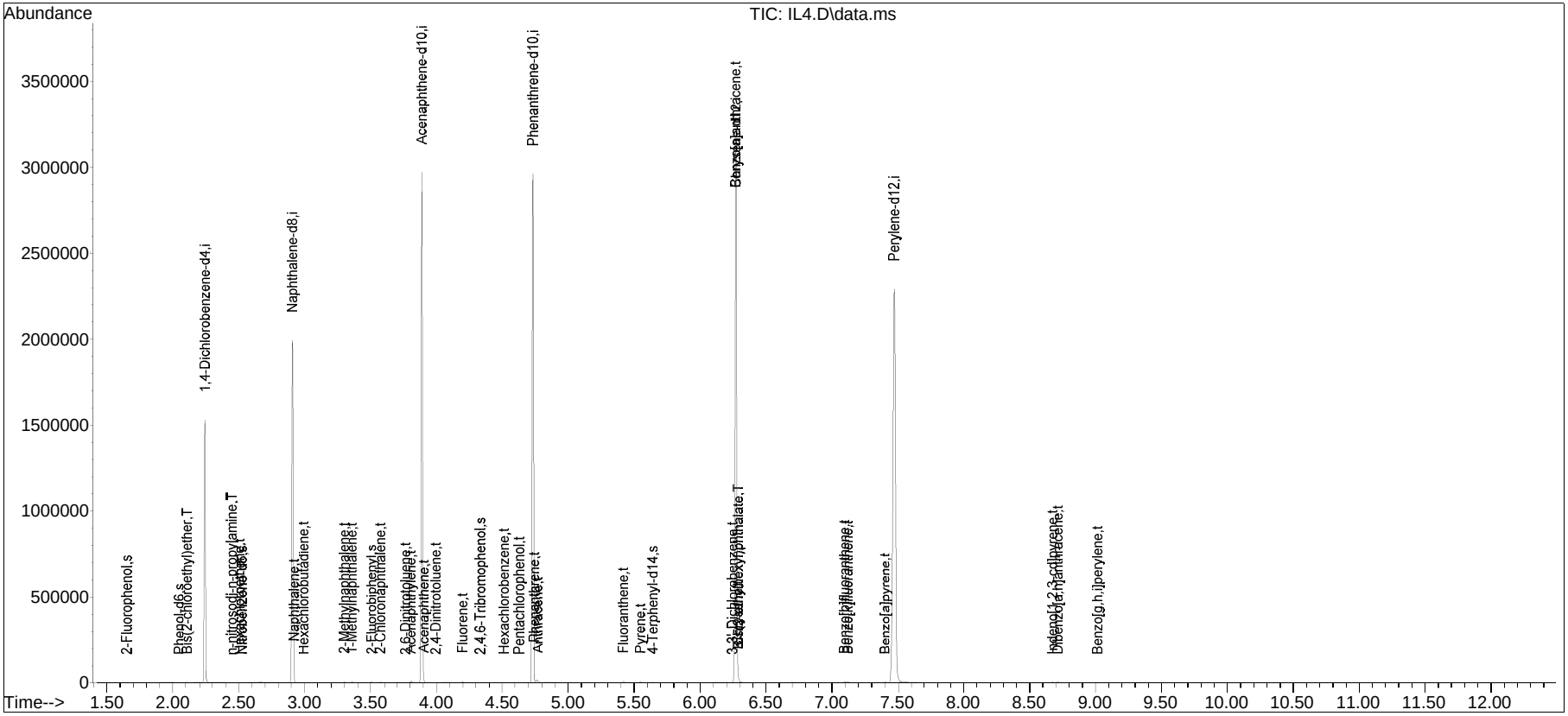
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL4.D
Acq On : 17 Sep 2024 08:21 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml #10892
Misc : WG1973864,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:38:31 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:32:01 2024
Response via : Initial Calibration

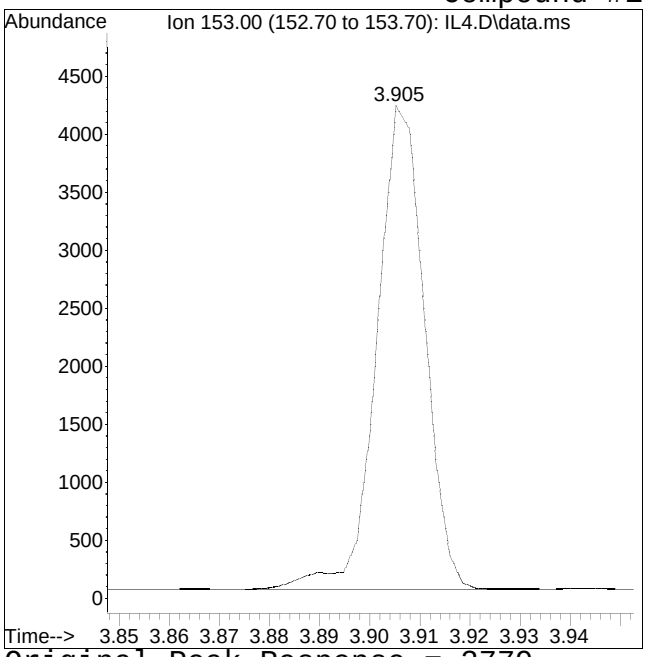
Sub List : Default - All compounds listedTical\IL8.D•



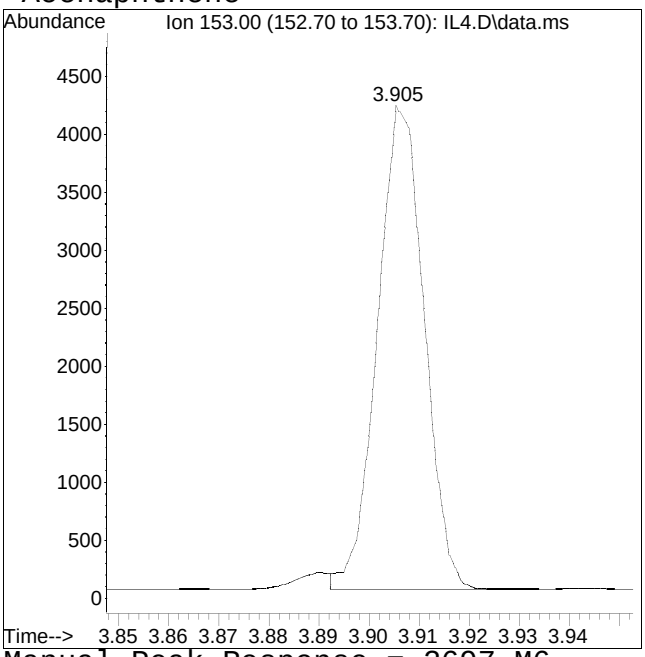
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:21 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml #10892 Quant Date : 9/18/2024 11:32 am

Compound #18: Acenaphthene



Original Peak Response = 2779



Manual Peak Response = 2697 M6

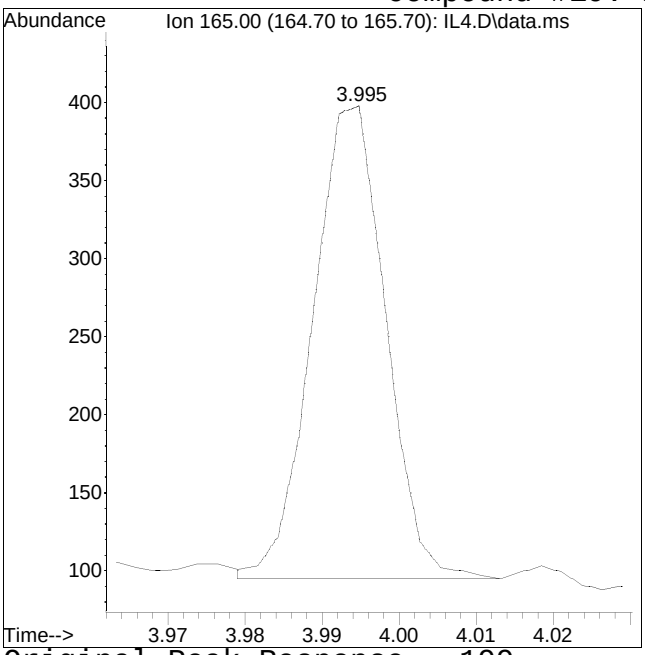
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

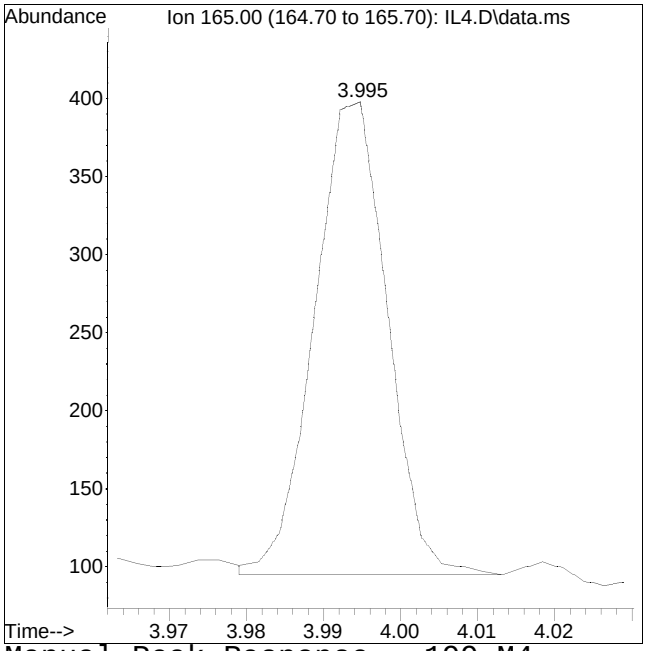
Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL4.D
Date Inj'd : 9/17/2024 8:21 pm
Sample : IL4,32,,10.0 ng/ml #10892

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:32 am

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 199



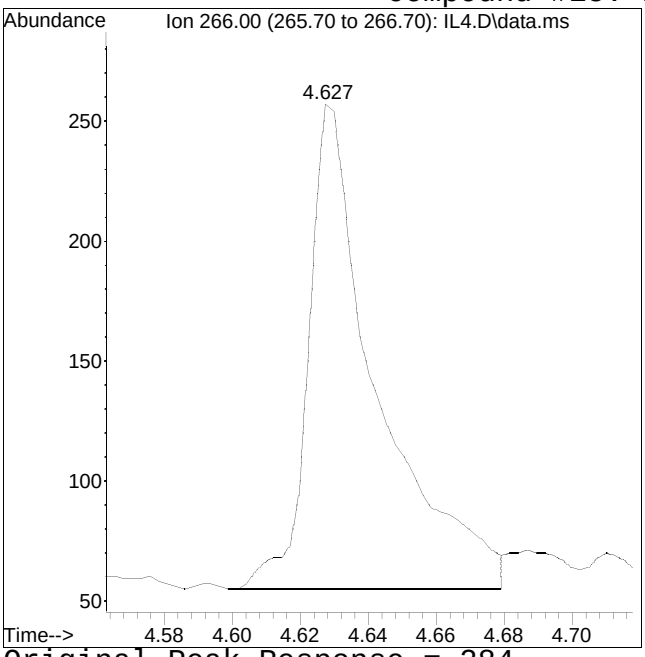
Manual Peak Response = 199 M4

M4 = Poor automated baseline construction.

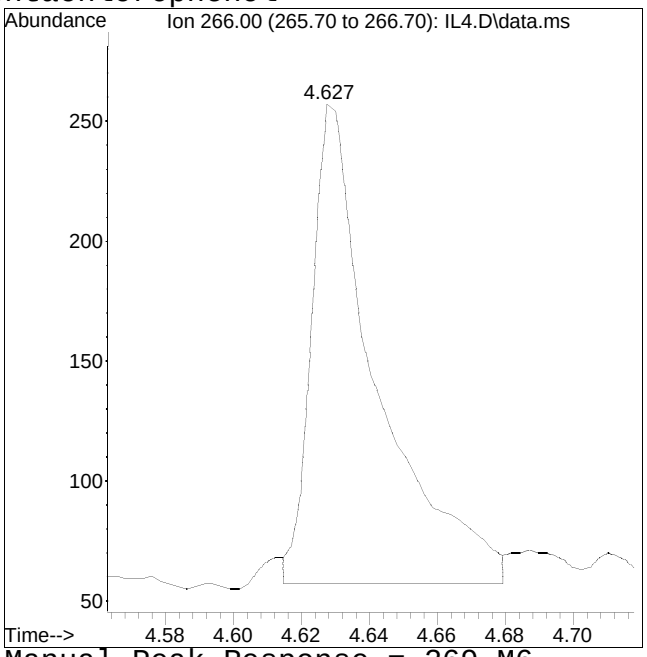
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL4.D
Date Inj'd : 9/17/2024 8:21 pm
Sample : IL4,32,,10.0 ng/ml #10892
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:32 am

Compound #25: Pentachlorophenol



Original Peak Response = 284



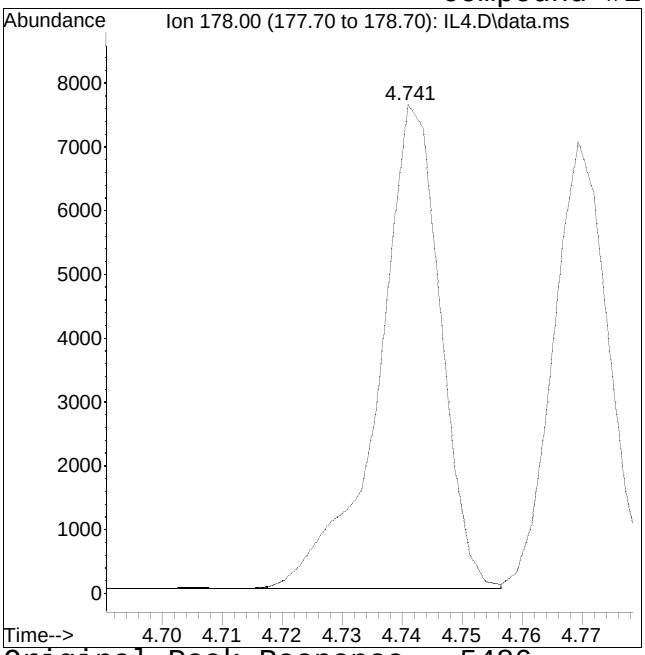
Manual Peak Response = 269 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

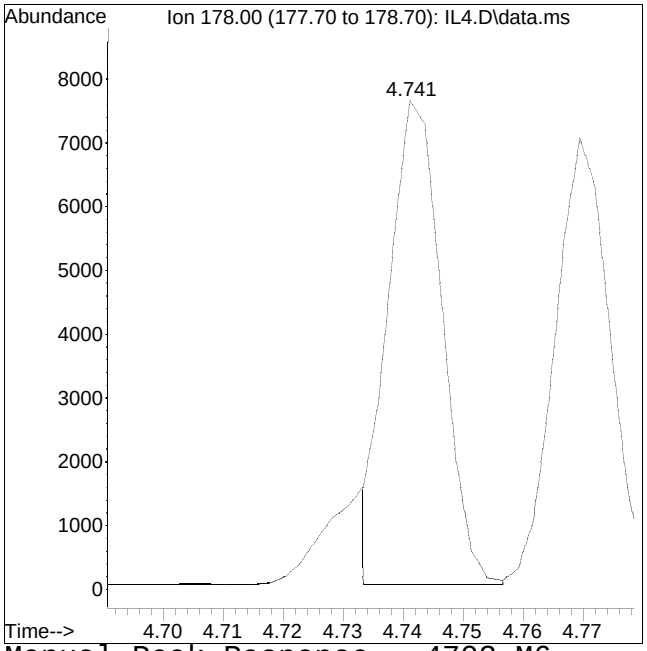
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:21 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml #10892 Quant Date : 9/18/2024 11:32 am

Compound #26: Phenanthrene



Original Peak Response = 5486



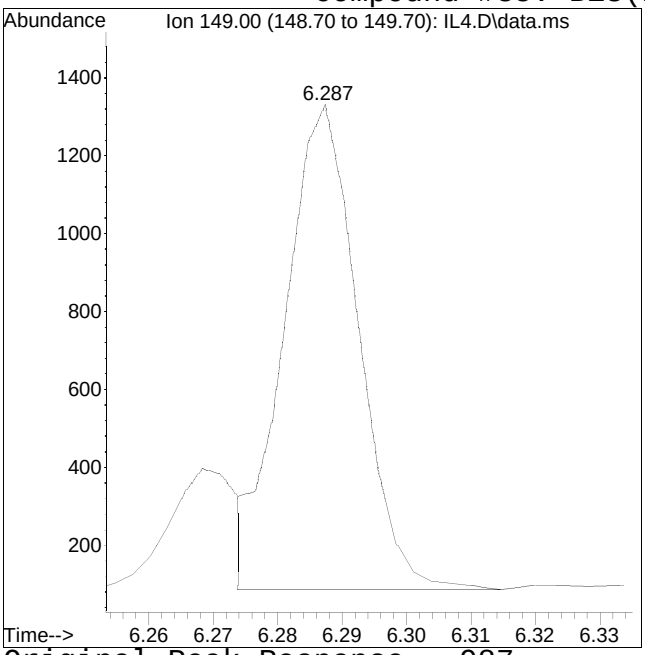
Manual Peak Response = 4703 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

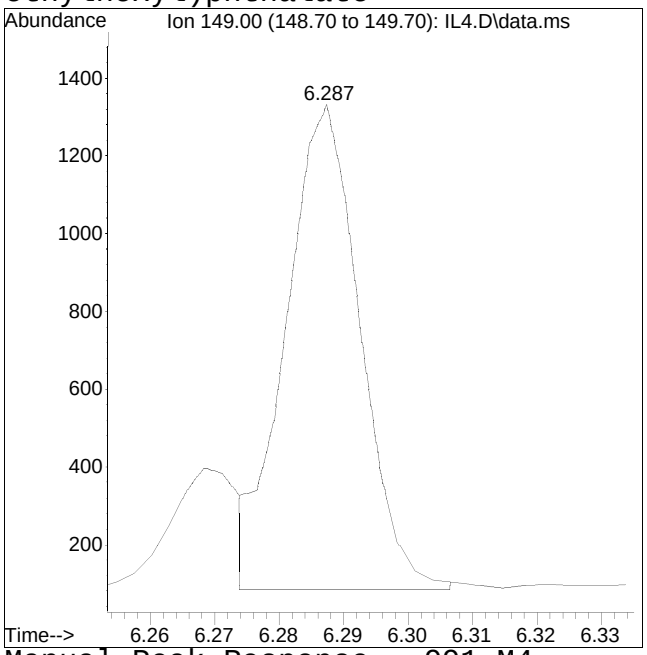
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:21 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml #10892 Quant Date : 9/18/2024 11:32 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 987



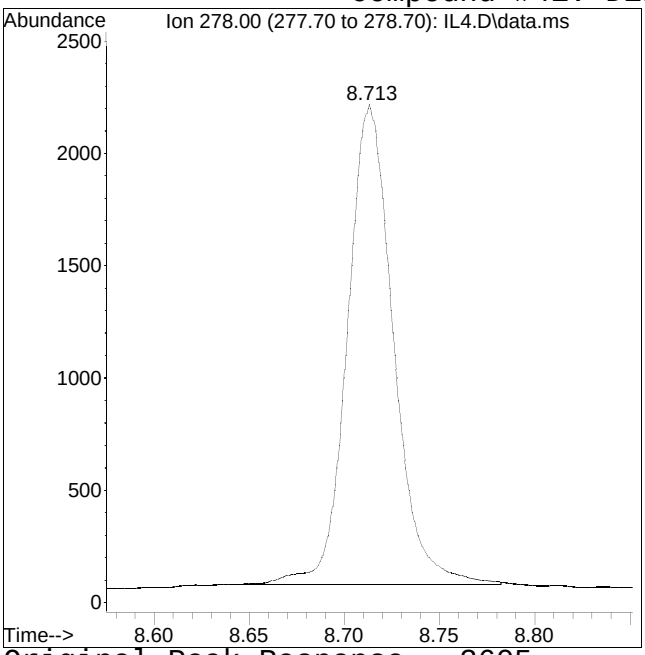
Manual Peak Response = 991 M4

M4 = Poor automated baseline construction.

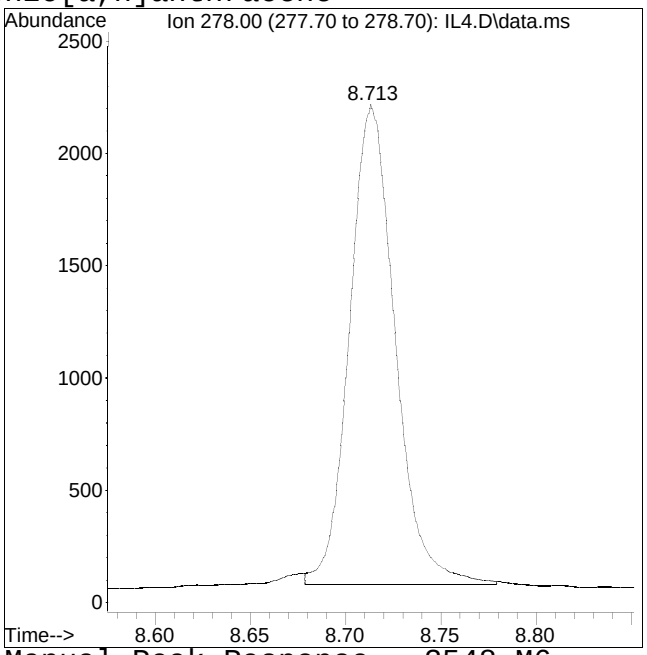
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:21 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml #10892 Quant Date : 9/18/2024 11:32 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3605



Manual Peak Response = 3548 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL3.D
Acq On : 17 Sep 2024 08:37 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml #10893
Misc : WG1973864,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:36:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	400513	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 101.58%			
8) Naphthalene-d8	2.908	136	1373907	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 99.67%			
17) Acenaphthene-d10	3.889	164	835994	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 96.47%			
22) Phenanthrene-d10	4.729	188	1761868	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 95.65%			
31) Chrysene-d12	6.271	240	1855639	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 93.82%			
36) Perylene-d12	7.474	264	2119002	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 90.50%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.648	112	502	5.094	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	2.050	99	560	4.607	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.23%#			
7) Nitrobenzene-d5	2.524	82	289	4.623	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.46%#			
13) 2-Fluorobiphenyl	3.508	172	1473	5.060	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
21) 2,4,6-Tribromophenol	4.334	330	172	4.739	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
30) 4-Terphenyl-d14	5.640	244	1688	4.715	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.47%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	540	5.000	ng/ml	100
5) n-nitrosodi-n-propylamine	2.444	70	392	5.319	ng/ml	97
6) Hexachloroethane	2.504	117	236	5.399	ng/ml	97
9) Naphthalene	2.921	128	1852	5.061	ng/ml#	83
10) Hexachlorobutadiene	2.994	225	382	5.167	ng/ml	95
11) 2-Methylnaphthalene	3.301	142	1187	5.065	ng/ml	97
12) 1-Methylnaphthalene	3.355	142	1087	5.000	ng/ml	99
14) 2-Chloronaphthalene	3.575	162	1218	4.908	ng/ml	98
15) 2,6-Dinitrotoluene	3.766	165	121	28.009	ng/ml	91
16) Acenaphthylene	3.808	152	1724	4.783	ng/ml	100
18) Acenaphthene	3.905	153	1300M6	5.099	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL3.D
Acq On : 17 Sep 2024 08:37 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml #10893
Misc : WG1973864,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:36:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.994	165	108	29.219	ng/ml#	33
20) Fluorene	4.197	166	1370	4.902	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.515	284	562	4.985	ng/ml	94
25) Pentachlorophenol	4.629	266	213M6	13.194	ng/ml	
26) Phenanthrene	4.742	178	2462M6	5.417	ng/ml	
27) Anthracene	4.771	178	2192	4.861	ng/ml	97
28) Fluoranthene	5.420	202	2504	4.857	ng/ml	99
29) Pyrene	5.549	202	2602	4.784	ng/ml	99
32) Benzo[a]anthracene	6.268	228	8088M4	4.789	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.284	228	2582M3	4.885	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.287	149	495M6	42.399	ng/ml	
37) Benzo[b]fluoranthene	7.097	252	2302	4.643	ng/ml	99
38) Benzo[k]fluoranthene	7.122	252	2092	4.306	ng/ml	99
39) Benzo[a]pyrene	7.405	252	1835	4.253	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.675	276	1884	4.158	ng/ml	100
41) Dibenzo[a,h]anthracene	8.713	278	1678M6	4.323	ng/ml	
42) Benzo[g,h,i]perylene	9.015	276	1984	4.228	ng/ml	100

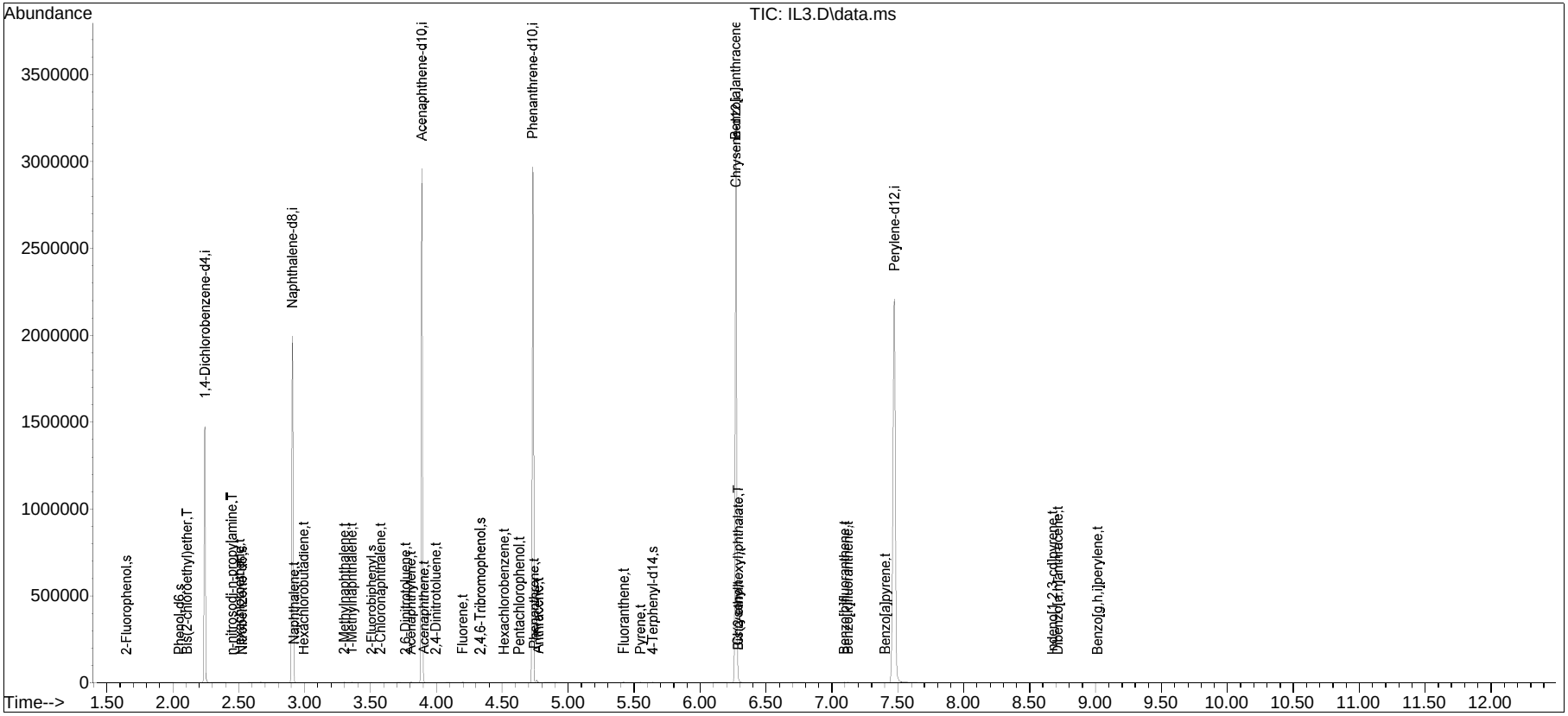
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL3.D
Acq On : 17 Sep 2024 08:37 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml #10893
Misc : WG1973864,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:36:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:57 2024
Response via : Initial Calibration

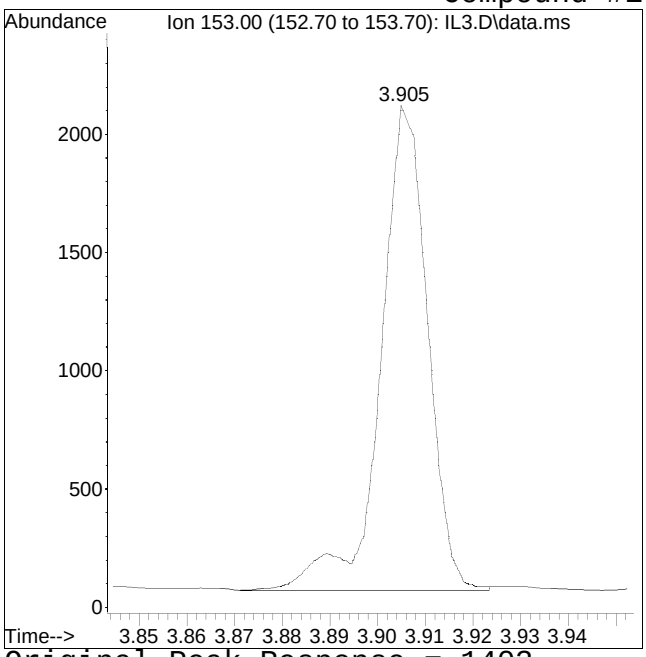
Sub List : Default - All compounds listedTical\IL8.D•



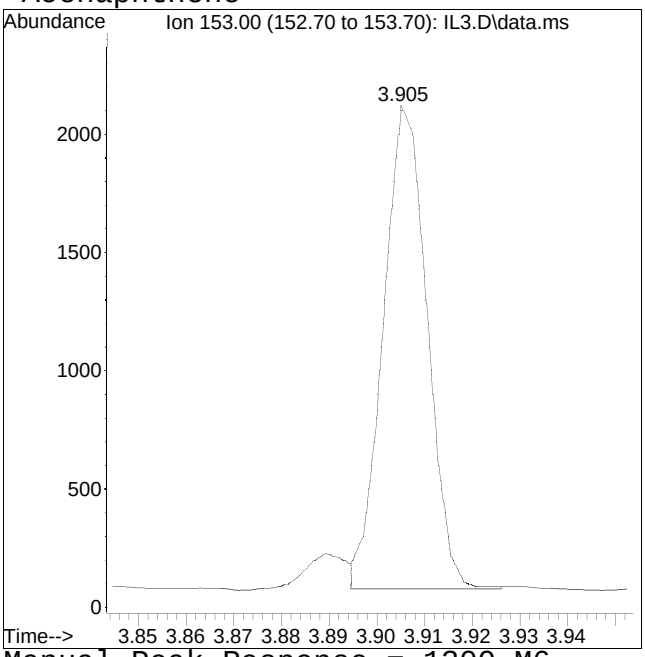
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #18: Acenaphthene



Original Peak Response = 1403



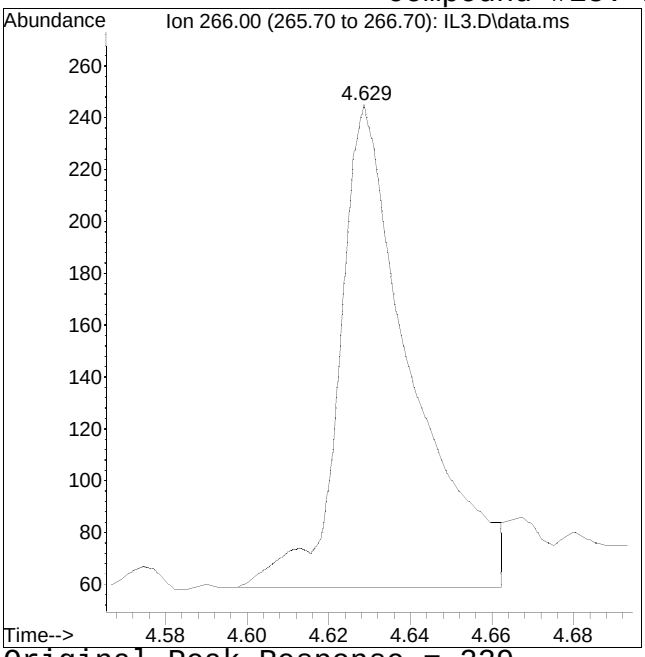
Manual Peak Response = 1300 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

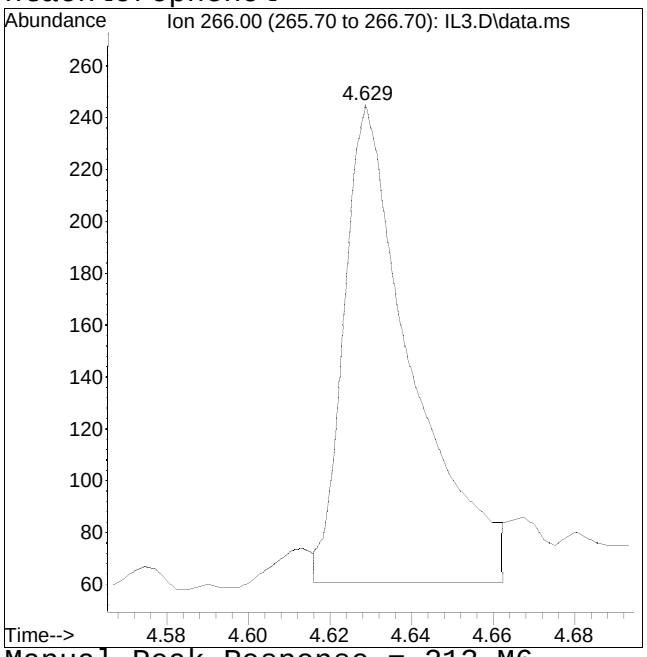
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #25: Pentachlorophenol



Original Peak Response = 229



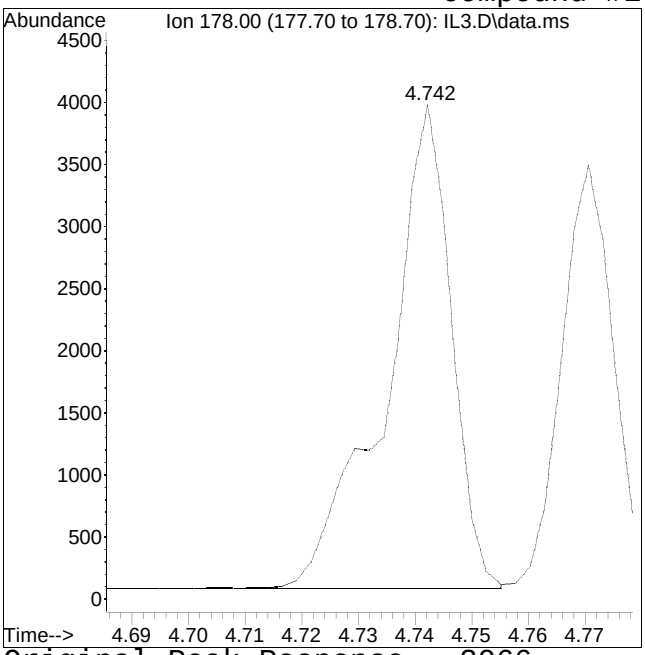
Manual Peak Response = 213 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

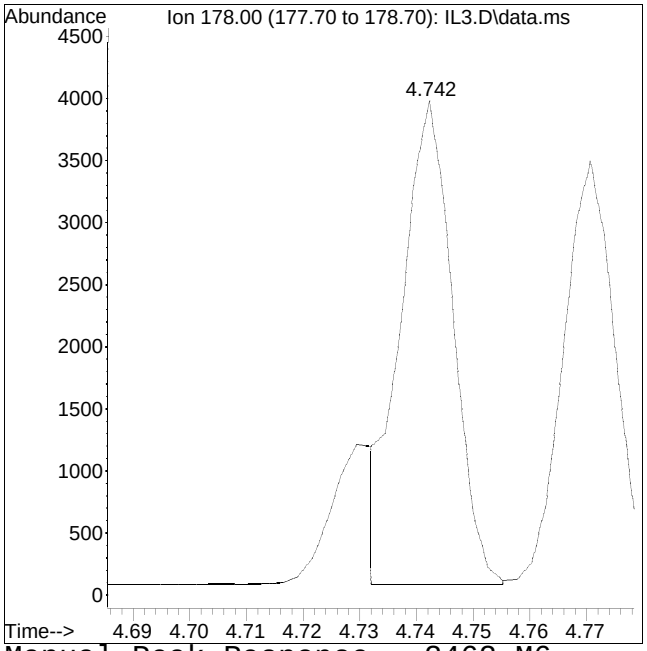
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL3.D
Date Inj'd : 9/17/2024 8:37 pm
Sample : IL3,32,,5.0 ng/ml #10893
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:31 am

Compound #26: Phenanthrene



Original Peak Response = 3066



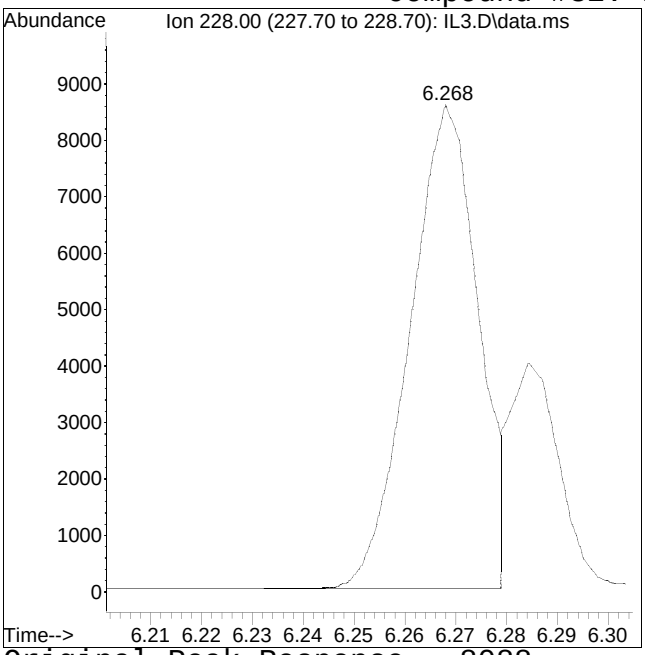
Manual Peak Response = 2462 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

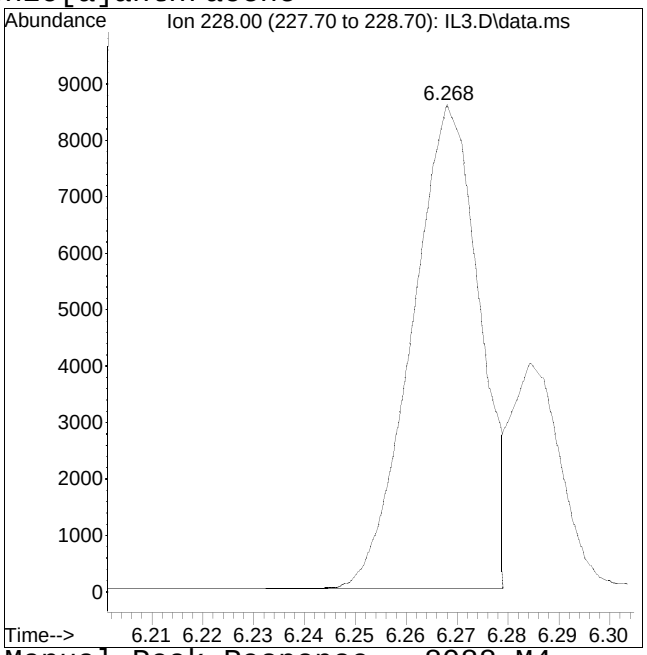
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 8088



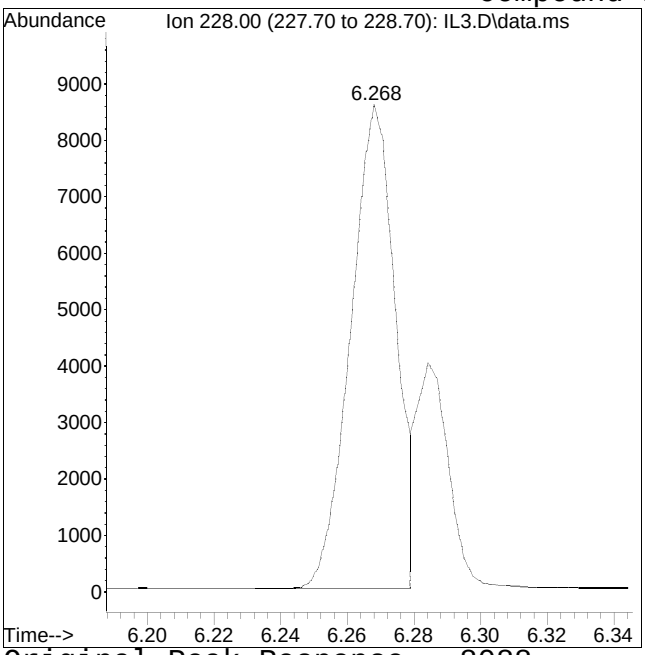
Manual Peak Response = 8088 M4

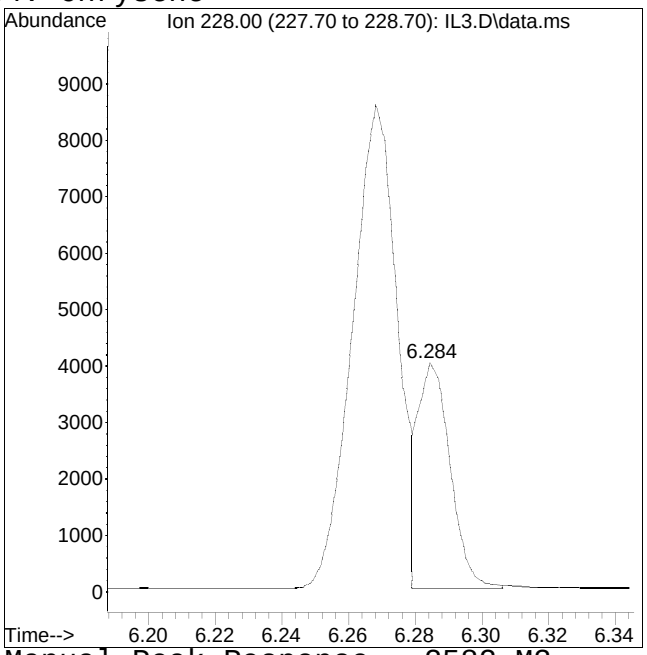
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #34: Chrysene





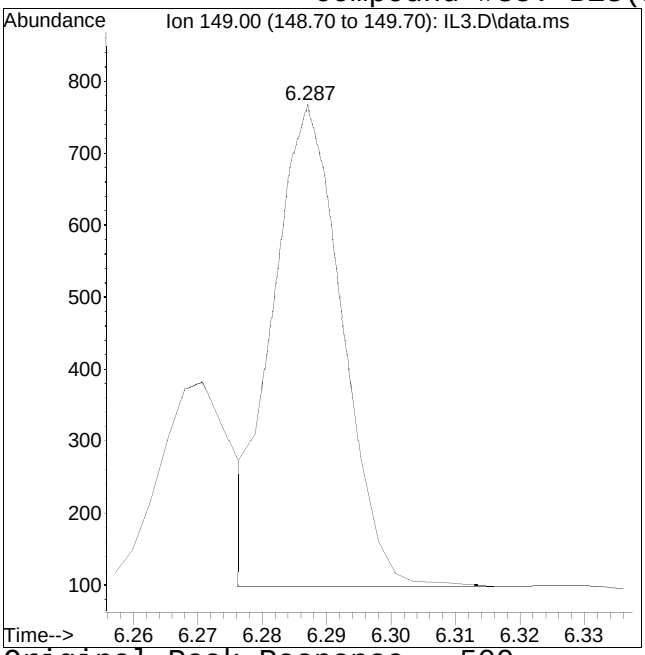
Original Peak Response = 8088 Manual Peak Response = 2582 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

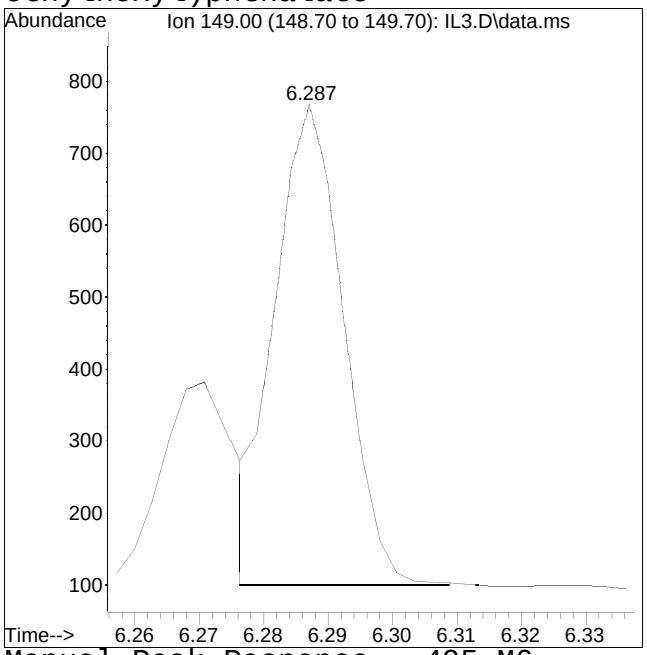
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 500



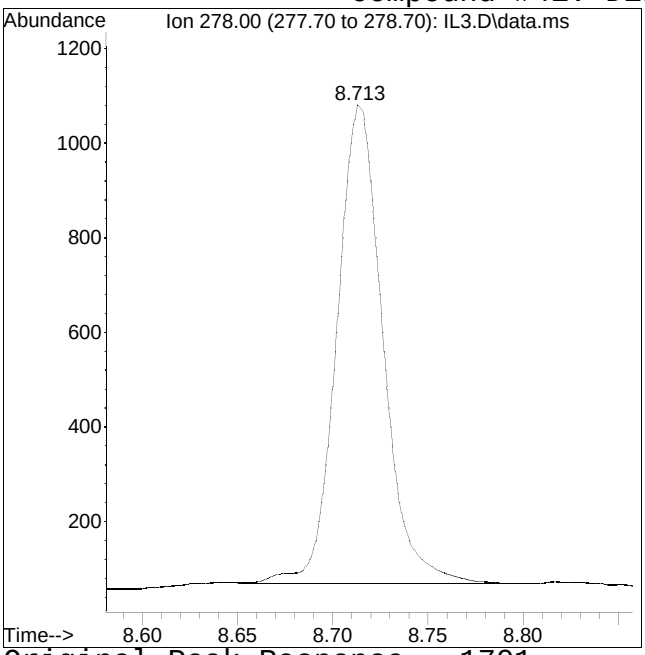
Manual Peak Response = 495 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

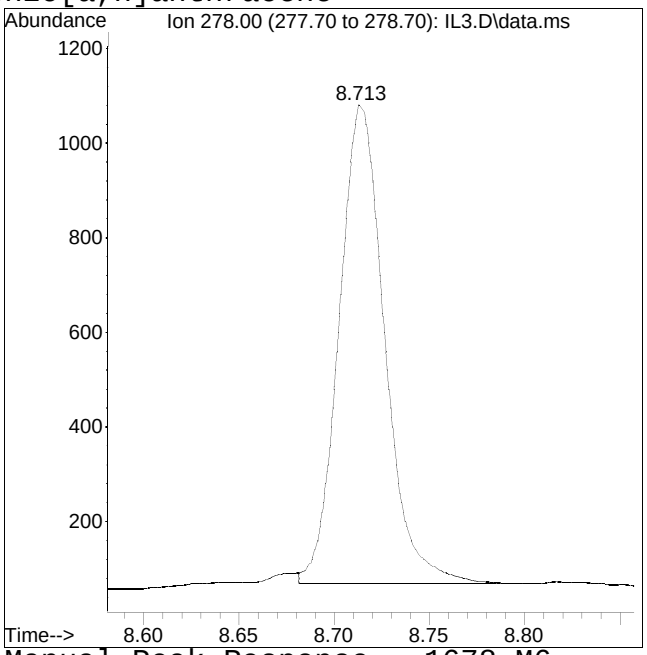
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:37 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml #10893 Quant Date : 9/18/2024 11:31 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1701



Manual Peak Response = 1678 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL2.D
Acq On : 17 Sep 2024 08:53 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml #10900
Misc : WG1973864,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:34:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	399698	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 101.38%			
8) Naphthalene-d8	2.911	136	1361704	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 98.79%			
17) Acenaphthene-d10	3.890	164	826693	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 95.40%			
22) Phenanthrene-d10	4.730	188	1761489	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 95.63%			
31) Chrysene-d12	6.270	240	1953919	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 98.79%			
36) Perylene-d12	7.470	264	2258731	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 96.47%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	215	2.186	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
3) Phenol-d6	2.050	99	255	2.102	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
7) Nitrobenzene-d5	2.524	82	115	1.843	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.18%#			
13) 2-Fluorobiphenyl	3.508	172	618	2.142	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
21) 2,4,6-Tribromophenol	4.334	330	75M6	2.090	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
30) 4-Terphenyl-d14	5.641	244	726	2.028	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.20%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.108	93	246	2.282	ng/ml	96
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.921	128	823	2.269	ng/ml#	59
10) Hexachlorobutadiene	2.995	225	162	2.211	ng/ml	96
11) 2-Methylnaphthalene	3.301	142	482	2.075	ng/ml	99
12) 1-Methylnaphthalene	3.356	142	454	2.107	ng/ml	97
14) 2-Chloronaphthalene	3.572	162	518	2.106	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.808	152	729	2.041	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL2.D
Acq On : 17 Sep 2024 08:53 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml #10900
Misc : WG1973864,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:34:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.906	153	543	2.154	ng/ml	88
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.197	166	595	2.153	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.513	284	270	2.395	ng/ml	93
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.743	178	968M6	2.130	ng/ml	
27) Anthracene	4.771	178	1007	2.234	ng/ml	96
28) Fluoranthene	5.418	202	1069	2.074	ng/ml	98
29) Pyrene	5.547	202	1123	2.065	ng/ml	98
32) Benzo[a]anthracene	6.270	228	7119M6	2.353	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.284	228	933M3	1.676	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	7.096	252	1008	1.907	ng/ml	98
38) Benzo[k]fluoranthene	7.118	252	876	1.692	ng/ml	98
39) Benzo[a]pyrene	7.404	252	797	1.733	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.674	276	823	1.704	ng/ml	100
41) Dibenzo[a,h]anthracene	8.712	278	708	2.175	ng/ml	100
42) Benzo[g,h,i]perylene	9.014	276	870	1.739	ng/ml	100

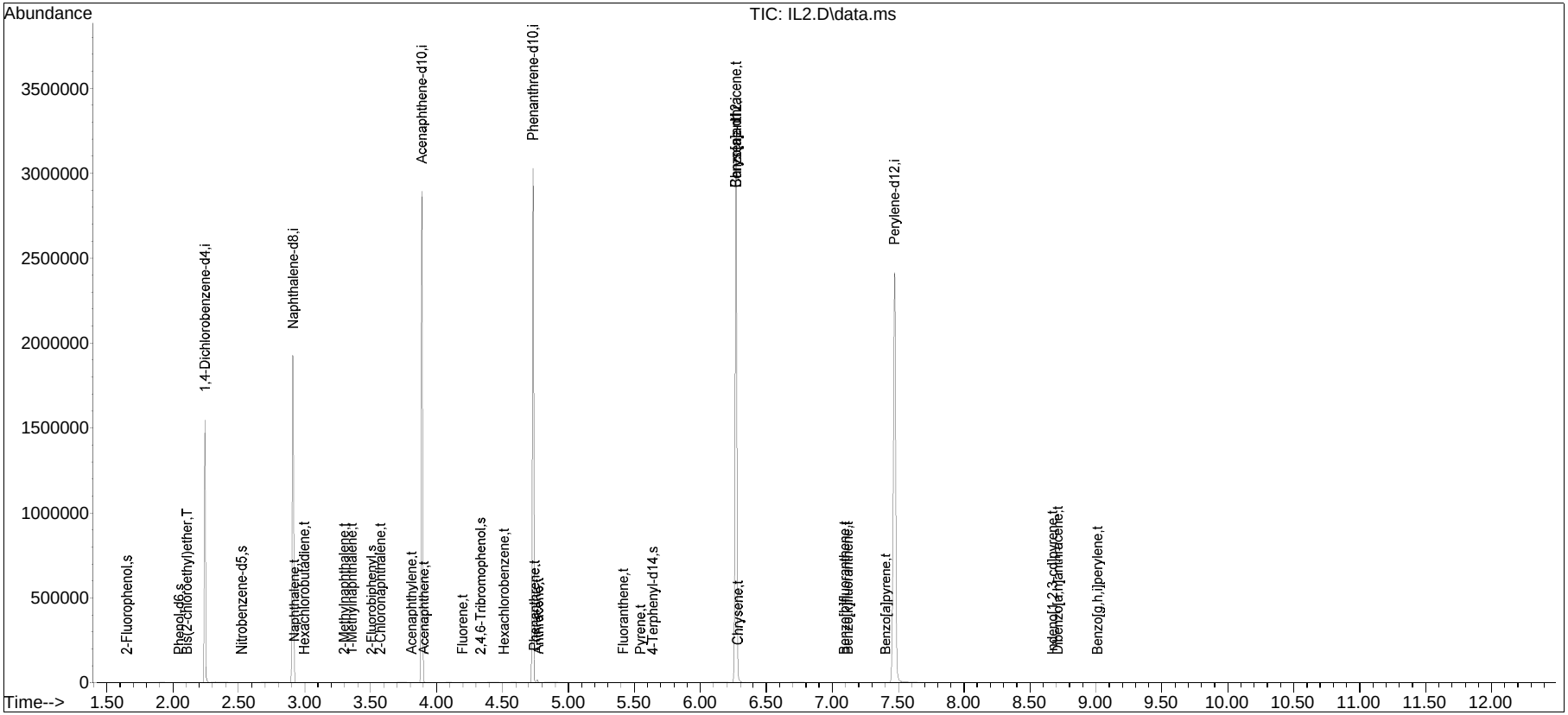
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL2.D
Acq On : 17 Sep 2024 08:53 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml #10900
Misc : WG1973864,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:34:09 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedTical\IL8.D•

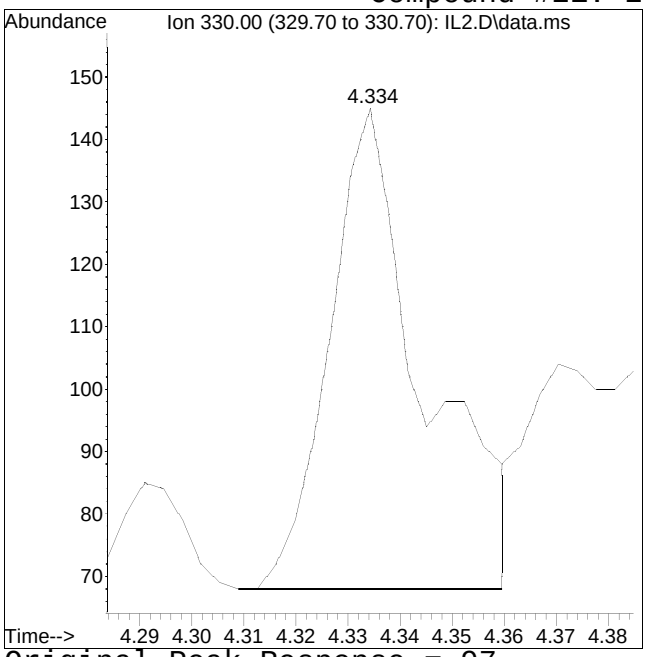


Manual Integration Report

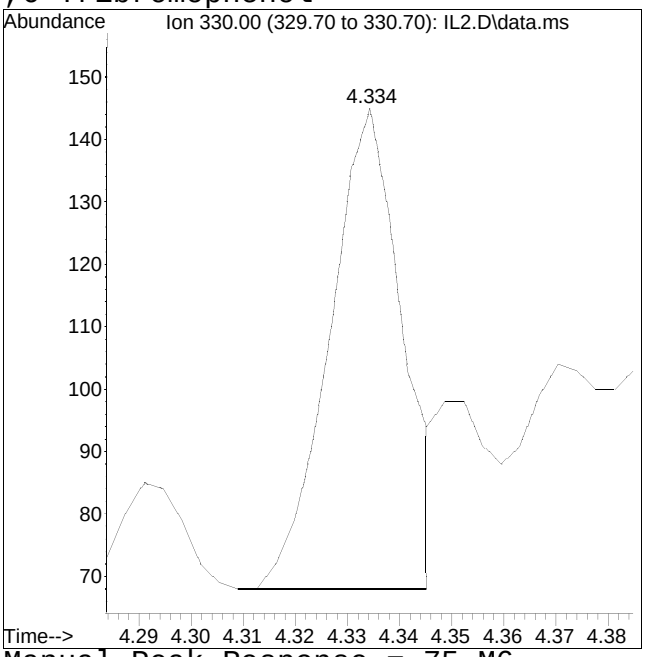
Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL2.D
Date Inj'd : 9/17/2024 8:53 pm
Sample : IL2,32,,2.0 ng/ml #10900

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:31 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 97



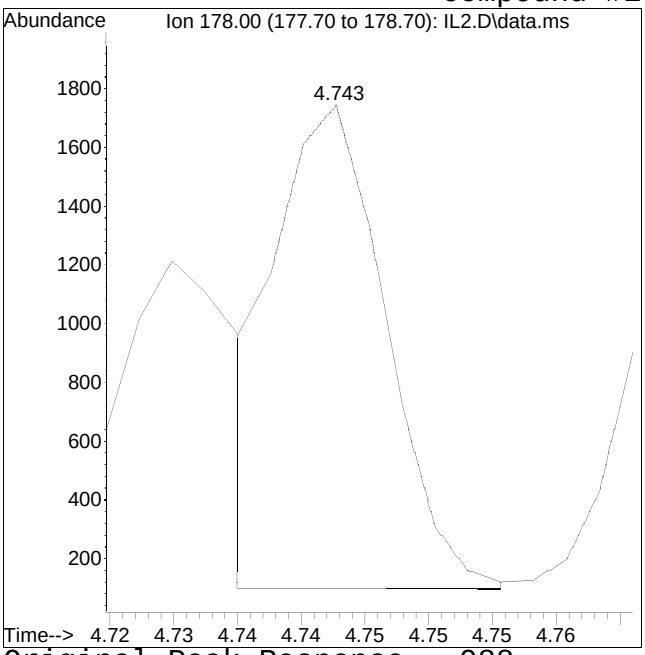
Manual Peak Response = 75 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

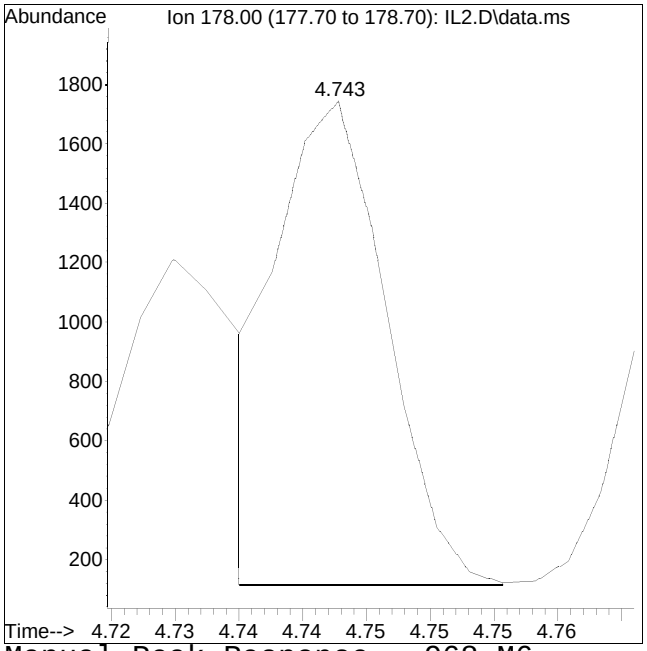
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:53 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml #10900 Quant Date : 9/18/2024 11:31 am

Compound #26: Phenanthrene



Original Peak Response = 988



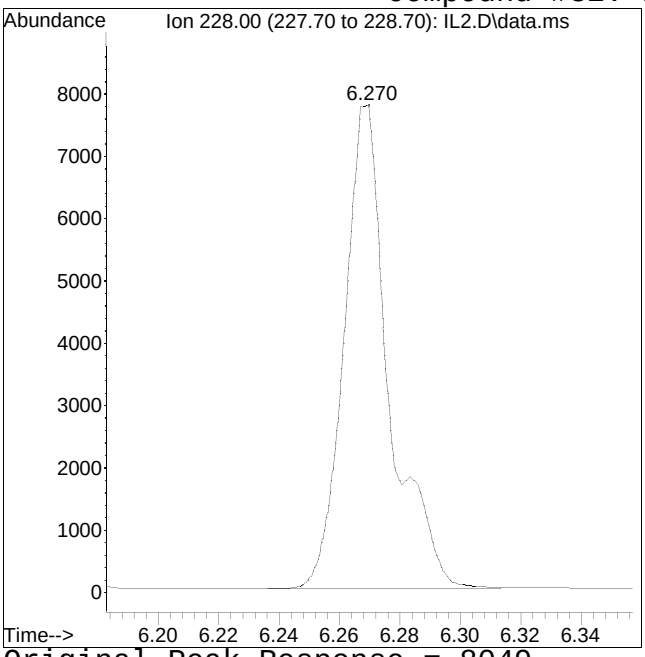
Manual Peak Response = 968 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

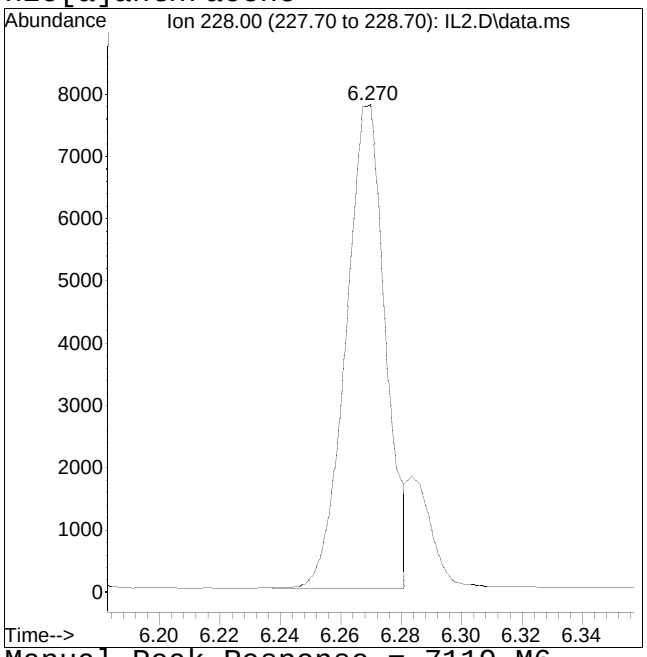
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:53 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml #10900 Quant Date : 9/18/2024 11:31 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 8049



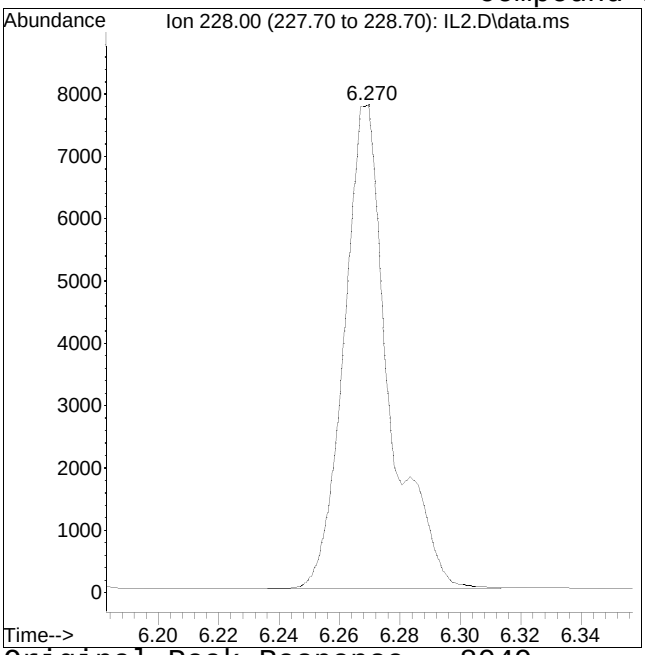
Manual Peak Response = 7119 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

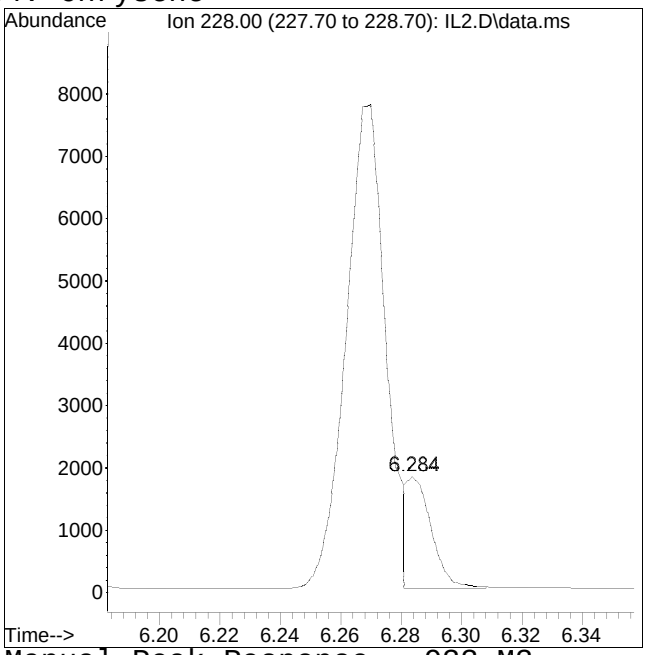
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 9/17/2024 8:53 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml #10900 Quant Date : 9/18/2024 11:31 am

Compound #34: Chrysene



Original Peak Response = 8049



Manual Peak Response = 933 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL1.D
Acq On : 17 Sep 2024 09:09 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml #10895
Misc : WG1973864,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:33:08 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	395605	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 100.34%			
8) Naphthalene-d8	2.911	136	1336908	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 96.99%			
17) Acenaphthene-d10	3.890	164	801773	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 92.52%			
22) Phenanthrene-d10	4.730	188	1705715	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 92.60%			
31) Chrysene-d12	6.270	240	1873984	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 94.75%			
36) Perylene-d12	7.470	264	2159685	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 92.24%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	96	0.986	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	2.050	99	147	1.224	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.06%#			
7) Nitrobenzene-d5	2.524	82	73	1.182	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
13) 2-Fluorobiphenyl	3.508	172	292	1.031	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.641	244	392M4	1.131	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
5) n-nitrosodi-n-propylamine	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D. d		
9) Naphthalene	2.921	128	453	1.272	ng/ml#	30
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	3.301	142	240	1.052	ng/ml	97
12) 1-Methylnaphthalene	3.356	142	220	1.040	ng/ml	100
14) 2-Chloronaphthalene	0.000		0	N.D. d		
15) 2,6-Dinitrotoluene	0.000		0	N.D.		
16) Acenaphthylene	3.808	152	367	1.046	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL1.D
Acq On : 17 Sep 2024 09:09 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml #10895
Misc : WG1973864,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:33:08 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
18) Acenaphthene	3.906	153	252	1.031 ng/ml#	74
19) 2,4-Dinitrotoluene	0.000		0	N.D.	
20) Fluorene	4.197	166	287	1.071 ng/ml	100
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	
24) Hexachlorobenzene	4.516	284	113	1.035 ng/ml#	85
25) Pentachlorophenol	0.000		0	N.D. d	
26) Phenanthrene	4.743	178	415M6	0.943 ng/ml	
27) Anthracene	4.771	178	471	1.079 ng/ml#	91
28) Fluoranthene	5.418	202	539	1.080 ng/ml#	94
29) Pyrene	5.547	202	572	1.086 ng/ml	99
32) Benzo[a]anthracene	6.270	228	6081M6	0.996 ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d	
34) Chrysene	6.281	228	527M3	0.987 ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D. d	
37) Benzo[b]fluoranthene	7.096	252	475	0.940 ng/ml	100
38) Benzo[k]fluoranthene	7.121	252	421	0.850 ng/ml	97
39) Benzo[a]pyrene	7.404	252	377	0.857 ng/ml	96
40) Indeno[1,2,3-cd]pyrene	8.677	276	389	0.842 ng/ml	100
41) Dibenzo[a,h]anthracene	8.712	278	329M6	1.451 ng/ml	
42) Benzo[g,h,i]perylene	9.014	276	425	0.889 ng/ml	98

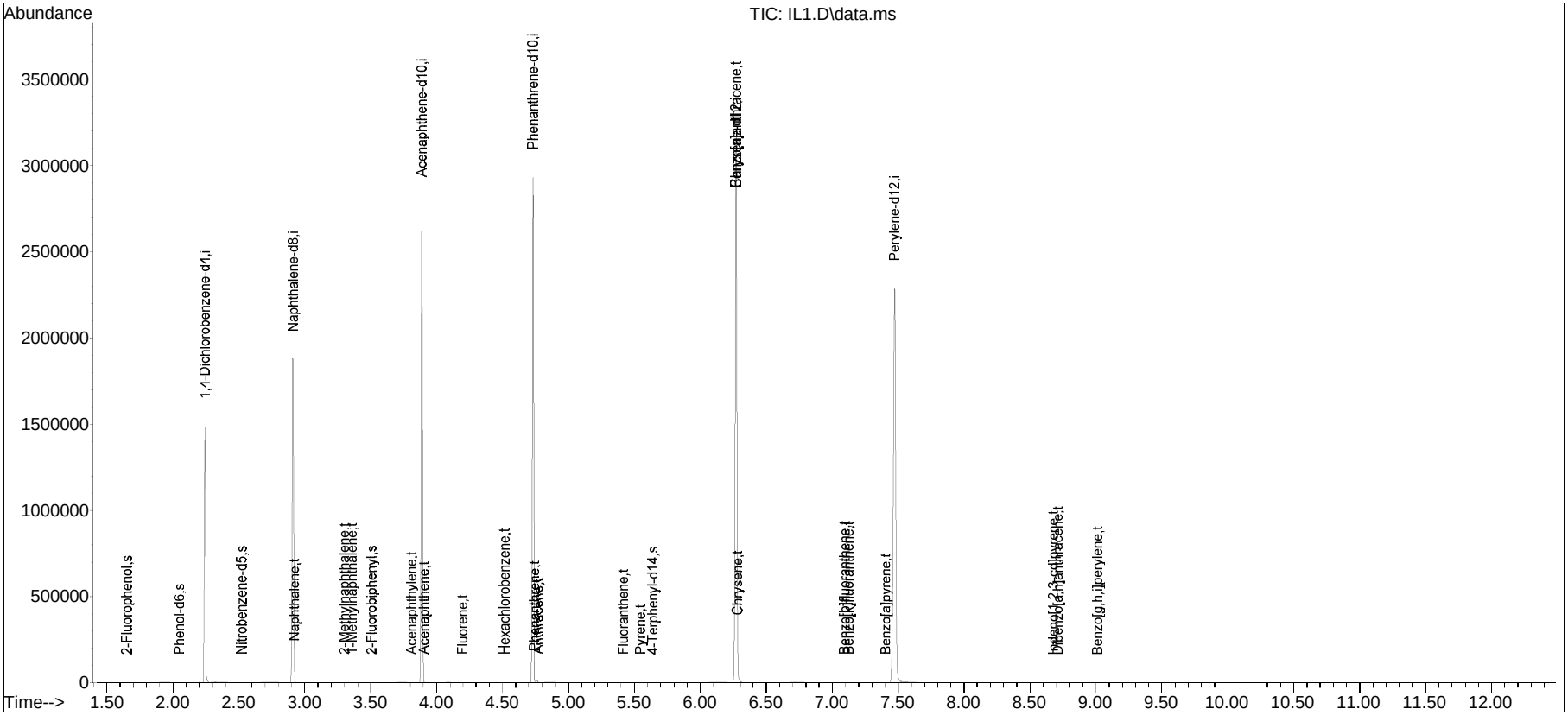
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : IL1.D
Acq On : 17 Sep 2024 09:09 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml #10895
Misc : WG1973864,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:33:08 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 18 11:31:42 2024
Response via : Initial Calibration

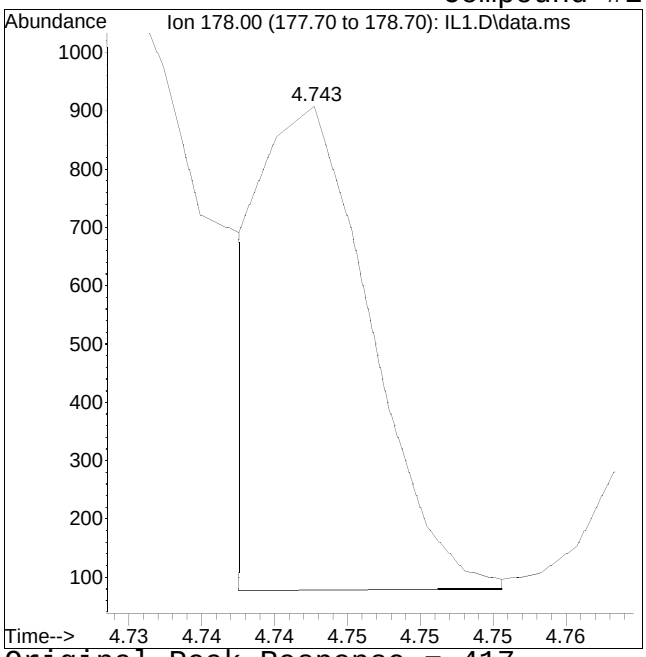
Sub List : Default - All compounds listedTical\IL8.D•



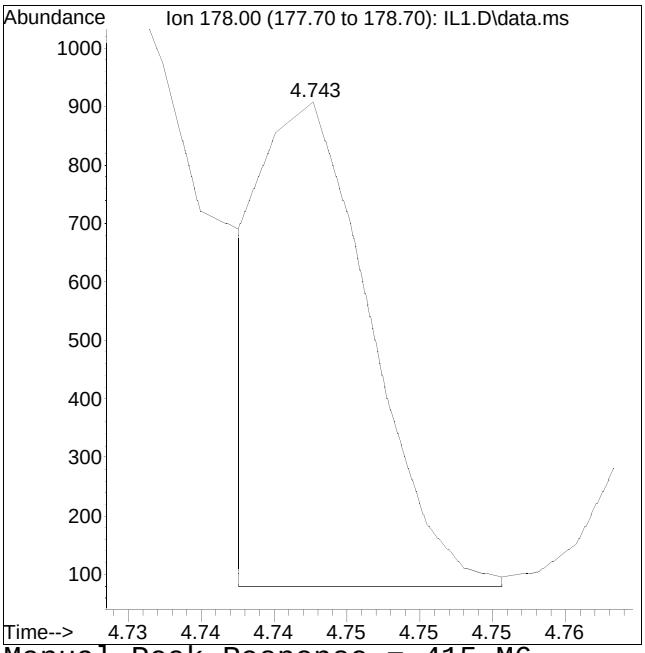
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 9/17/2024 9:09 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml #10895 Quant Date : 9/18/2024 11:31 am

Compound #26: Phenanthrene



Original Peak Response = 417



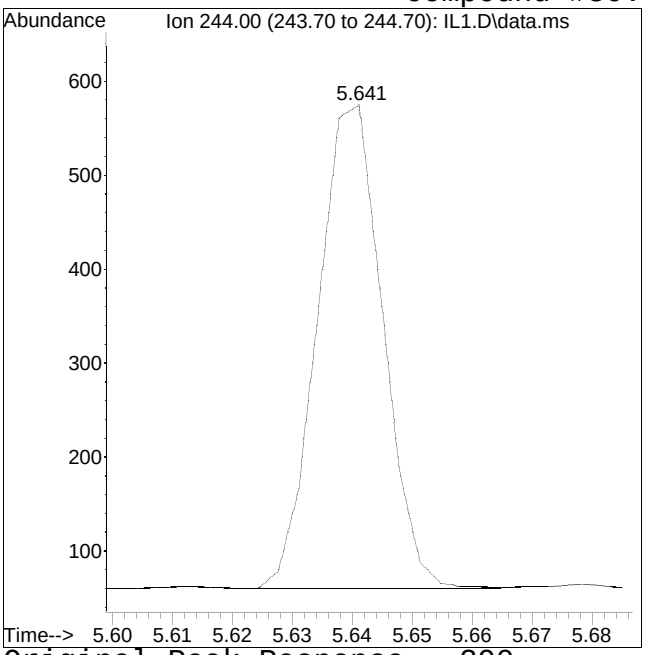
Manual Peak Response = 415 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

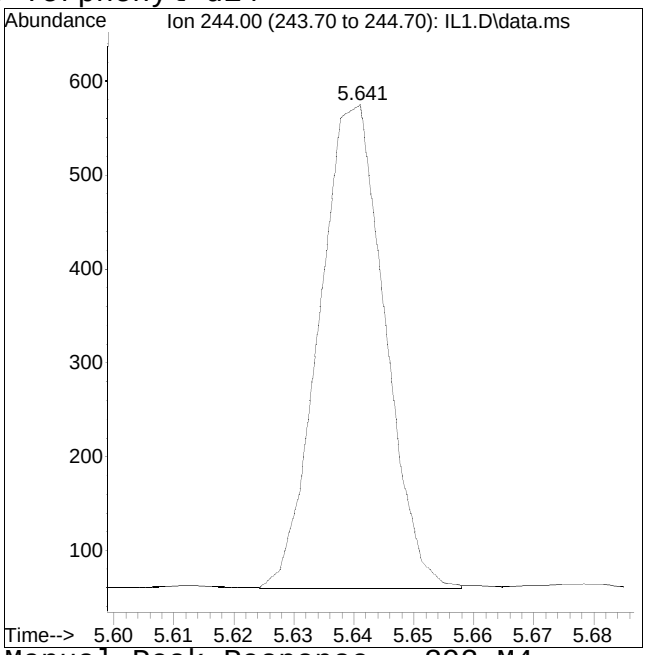
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL1.D
Date Inj'd : 9/17/2024 9:09 pm
Sample : IL1,32,,1.0 ng/ml #10895
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:31 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 390



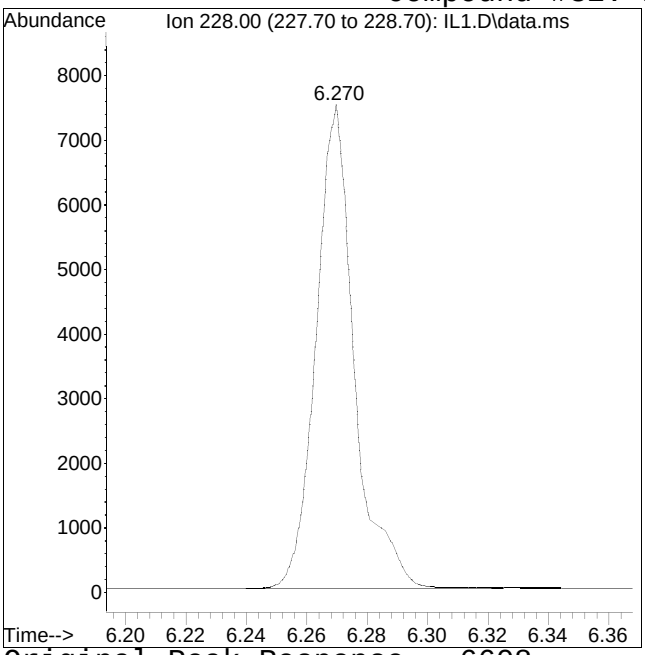
Manual Peak Response = 392 M4

M4 = Poor automated baseline construction.

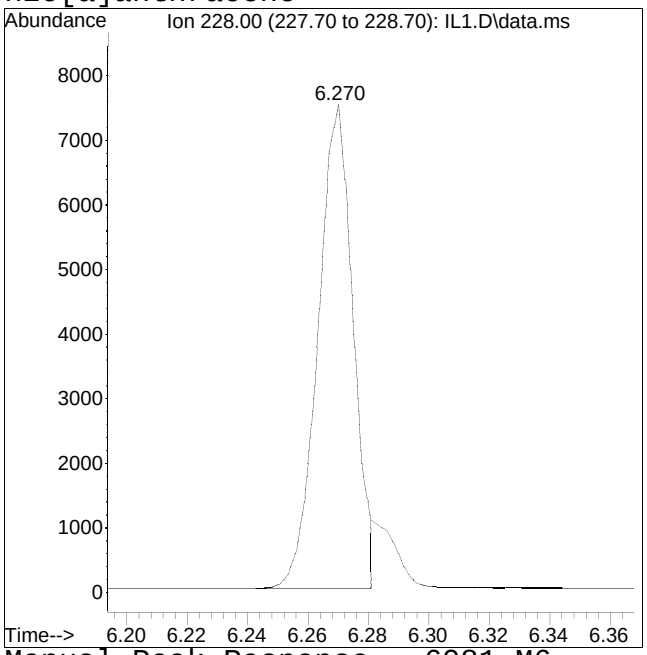
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : IL1.D
Date Inj'd : 9/17/2024 9:09 pm
Sample : IL1,32,,1.0 ng/ml #10895
Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2024 11:31 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 6608



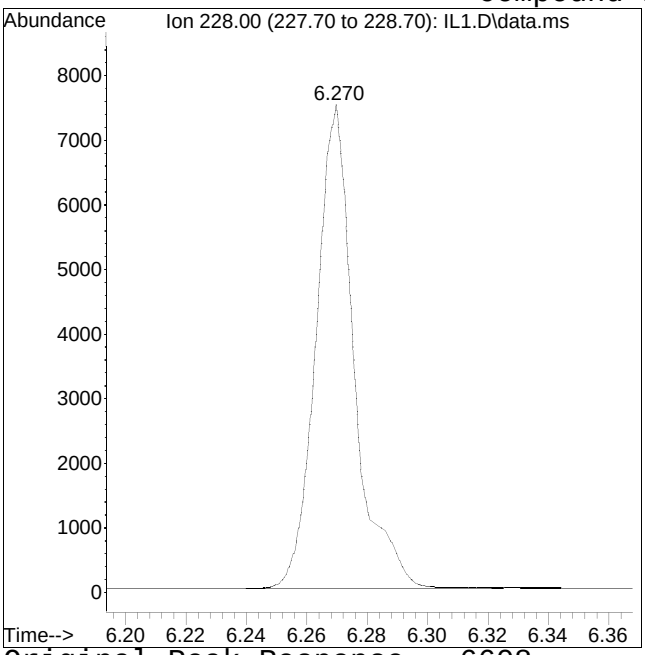
Manual Peak Response = 6081 M6

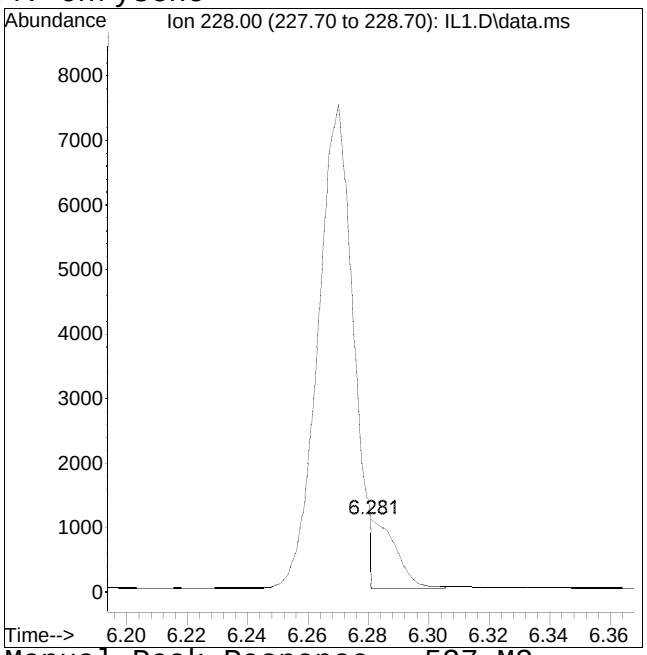
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 9/17/2024 9:09 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml #10895 Quant Date : 9/18/2024 11:31 am

Compound #34: Chrysene





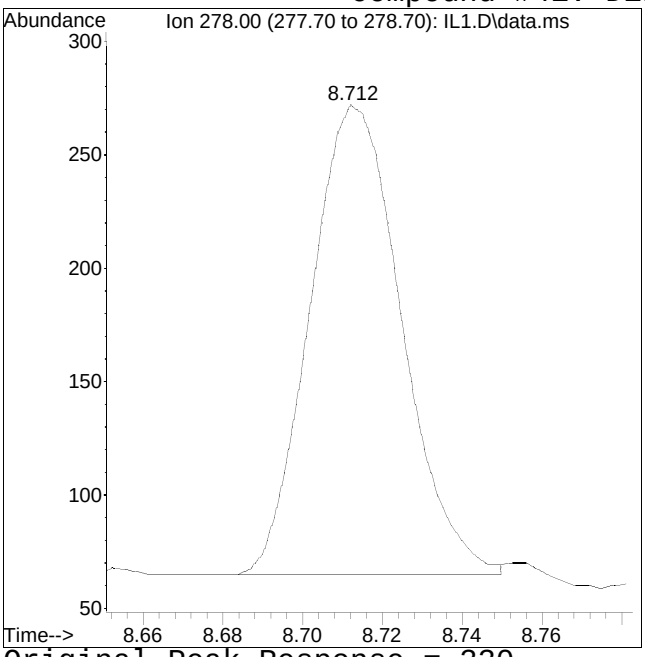
Original Peak Response = 6608 Manual Peak Response = 527 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

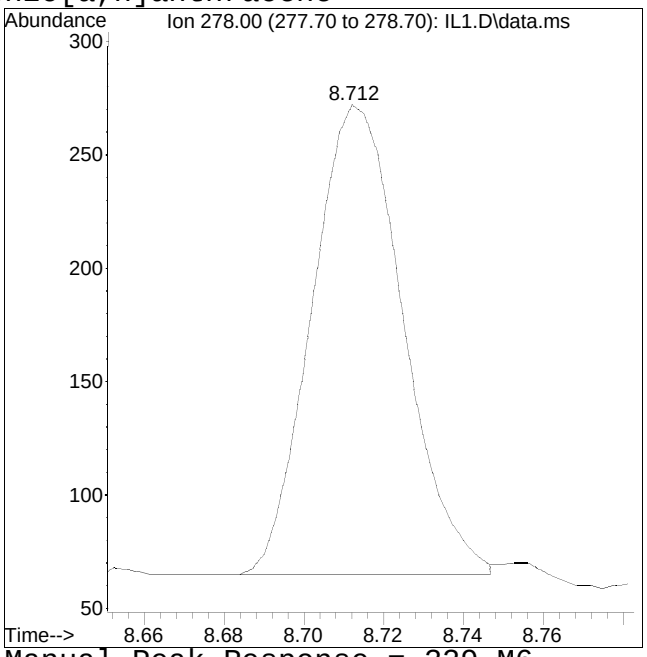
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 9/17/2024 9:09 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml #10895 Quant Date : 9/18/2024 11:31 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 330



Manual Peak Response = 329 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : ICV.D
Acq On : 17 Sep 2024 09:25 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10884
Misc : WG1973864,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 14:00:15 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 14:00:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	s	2-Fluorophenol	0.984	0.971	1.3	102	0.00
3	s	Phenol-d6	1.214	1.165	4.0	101	0.00
4	T	Bis(2-chloroethyl)ether	1.079	1.003	7.0	98	0.00
5	T	n-nitrosodi-n-propylamine	0.736	0.674	8.4	94	0.00
6	t	Hexachloroethane	0.437	0.415	5.0	99	0.00
7	s	Nitrobenzene-d5	0.624	0.583	6.6	90	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	99	0.00
9	t	Naphthalene	1.065	0.956	10.2	97	0.00
10	t	Hexachlorobutadiene	0.215	0.206	4.2	99	0.00
11	t	2-Methylnaphthalene	0.682	0.660	3.2	99	0.00
12	t	1-Methylnaphthalene	0.633	0.610	3.6	98	0.00
13	s	2-Fluorobiphenyl	0.848	0.803	5.3	98	0.00
14	t	2-Chloronaphthalene	0.723	0.684	5.4	96	0.00
15	t	2,6-Dinitrotoluene	*1000.000	779.733	22.0	83	0.00
16	t	Acenaphthylene	1.049	1.022	2.6	96	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
18	t	Acenaphthene	1.220	1.141	6.5	96	0.00
19	t	2,4-Dinitrotoluene	*1000.000	802.348	19.8	84	0.00
20	t	Fluorene	1.337	1.280	4.3	96	0.00
21	s	2,4,6-Tribromophenol	0.174	0.179	-2.9	96	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	832.049	16.8	86	0.00
24	t	Hexachlorobenzene	0.256	0.238	7.0	97	0.00
25	t	Pentachlorophenol	*1000.000	903.567	9.6	92	0.00
26	t	Phenanthrene	1.032	0.970	6.0	97	0.00
27	t	Anthracene	1.024	0.982	4.1	97	0.00
28	t	Fluoranthene	1.170	1.140	2.6	96	0.00
29	t	Pyrene	1.235	1.241	-0.5	97	0.00
30	s	4-Terphenyl-d14	0.813	0.799	1.7	96	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	97	0.00
32	t	Benzo[a]anthracene	*1000.000	972.157	2.8	93	0.00
33	t	3,3'-Dichlorobenzene	*1000.000	920.476	8.0	96	0.00
34	t	Chrysene	1.139	1.143	-0.4	97	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	823.938	17.6	87	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : ICV.D
Acq On : 17 Sep 2024 09:25 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10884
Misc : WG1973864,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 14:00:15 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 14:00:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	97	0.00
37	t	Benzo[b]fluoranthene	0.936	0.982	-4.9	89	0.00
38	t	Benzo[k]fluoranthene	0.917	1.029	-12.2	100	0.00
39	t	Benzo[a]pyrene	0.814	0.914	-12.3	95	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.855	0.958	-12.0	94	0.00
41	t	Dibenzo[a,h]anthracene	*1000.000	1000.276	-0.0	98	0.00
42	t	Benzo[g,h,i]perylene	0.886	0.961	-8.5	94	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : ICV.D
Acq On : 17 Sep 2024 09:25 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10884
Misc : WG1973864,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 14:00:15 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 14:00:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.243	152	397721	4000.000	ng/ml	0.00
Standard Area 1 = 394276			Recovery = 100.87%			
8) Naphthalene-d8	2.911	136	1369762	4000.000	ng/ml	0.00
Standard Area 1 = 1378401			Recovery = 99.37%			
17) Acenaphthene-d10	3.891	164	853637	4000.000	ng/ml	0.00
Standard Area 1 = 866554			Recovery = 98.51%			
22) Phenanthrene-d10	4.730	188	1812965	4000.000	ng/ml	0.00
Standard Area 1 = 1842065			Recovery = 98.42%			
31) Chrysene-d12	6.271	240	1921415	4000.000	ng/ml	0.00
Standard Area 1 = 1977784			Recovery = 97.15%			
36) Perylene-d12	7.475	264	2266955	4000.000	ng/ml	0.00
Standard Area 1 = 2341485			Recovery = 96.82%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.650	112	96550	986.528	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.33%			
3) Phenol-d6	2.052	99	115883	960.118	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.01%			
7) Nitrobenzene-d5	2.524	82	57987	934.112	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 93.41%			
13) 2-Fluorobiphenyl	3.510	172	274954	947.310	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.73%			
21) 2,4,6-Tribromophenol	4.335	330	38299	1033.365	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.67%			
30) 4-Terphenyl-d14	5.641	244	362360	983.535	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.35%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.108	93	99768	930.252	ng/ml	99
5) n-nitrosodi-n-propylamine	2.443	70	67019	915.695	ng/ml	99
6) Hexachloroethane	2.504	117	41233	949.842	ng/ml	99
9) Naphthalene	2.921	128	327210	896.887	ng/ml#	100
10) Hexachlorobutadiene	2.994	225	70531	956.910	ng/ml	99
11) 2-Methylnaphthalene	3.303	142	226159	967.884	ng/ml	100
12) 1-Methylnaphthalene	3.358	142	208904	963.823	ng/ml	100
14) 2-Chloronaphthalene	3.574	162	234354	947.189	ng/ml	100
15) 2,6-Dinitrotoluene	3.767	165	22735	779.733	ng/ml	99
16) Acenaphthylene	3.809	152	349842	973.581	ng/ml	100
18) Acenaphthene	3.907	153	243491	935.370	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : ICV.D
Acq On : 17 Sep 2024 09:25 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10884
Misc : WG1973864,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 14:00:15 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 14:00:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240917nRVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.993	165	29280M4	802.348	ng/ml	
20) Fluorene	4.197	166	273059	956.866	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.223	198	12989M4	832.049	ng/ml	
24) Hexachlorobenzene	4.516	284	107981	930.728	ng/ml	100
25) Pentachlorophenol	4.624	266	38271	903.567	ng/ml	100
26) Phenanthrene	4.743	178	439728	940.204	ng/ml	100
27) Anthracene	4.771	178	444982	958.962	ng/ml	100
28) Fluoranthene	5.418	202	516847	974.242	ng/ml	100
29) Pyrene	5.550	202	562633	1005.224	ng/ml	100
32) Benzo[a]anthracene	6.263	228	554053	972.157	ng/ml	100
33) 3,3'-Dichlorobenzene	6.247	252	197154	920.476	ng/ml	100
34) Chrysene	6.285	228	548944	1002.967	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.288	149	154479	823.938	ng/ml	100
37) Benzo[b]fluoranthene	7.097	252	556509	1049.117	ng/ml	100
38) Benzo[k]fluoranthene	7.123	252	583310	1122.288	ng/ml	100
39) Benzo[a]pyrene	7.409	252	517993	1122.325	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.682	276	543147	1120.511	ng/ml	100
41) Dibenzo[a,h]anthracene	8.720	278	530412M6	1000.276	ng/ml	
42) Benzo[g,h,i]perylene	9.022	276	544533	1084.785	ng/ml	100

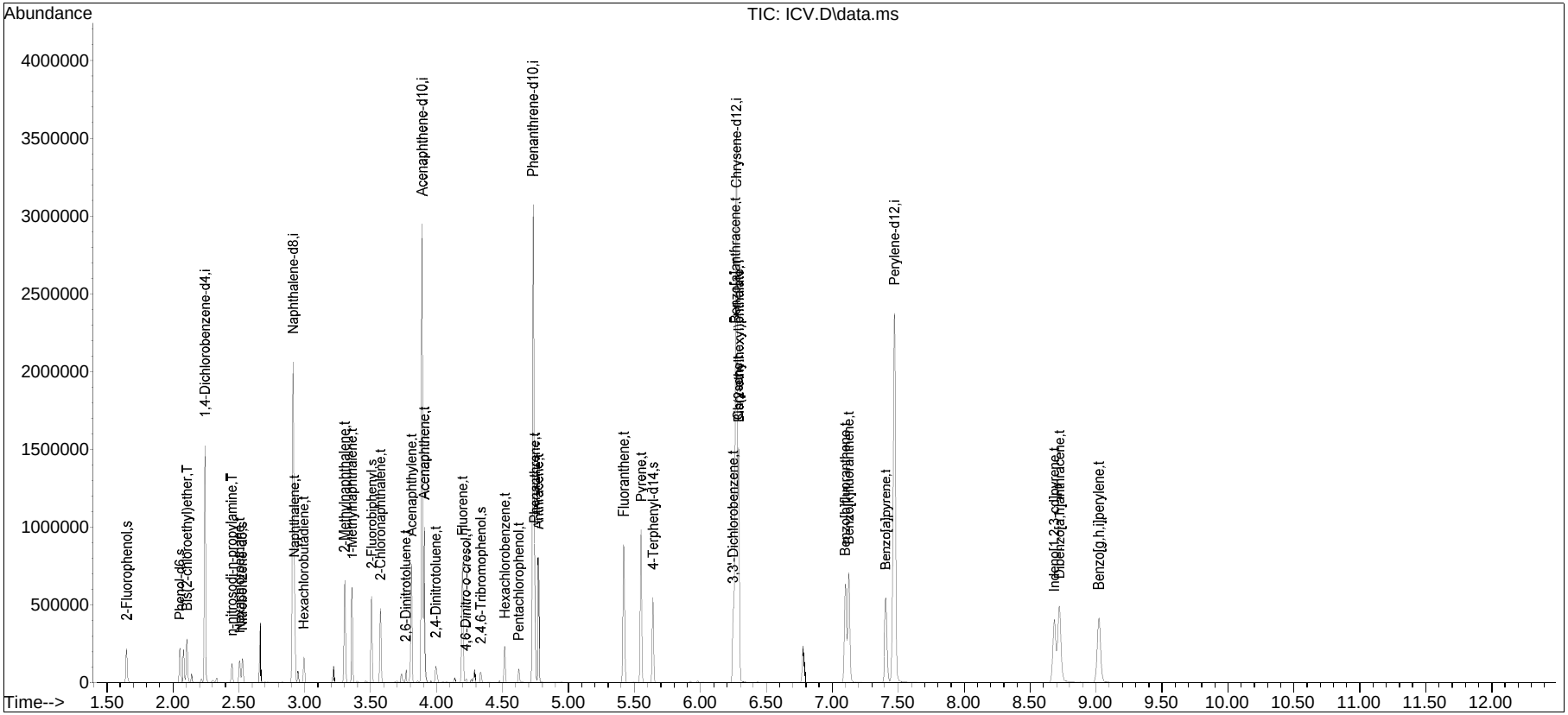
(#) = qualifier out of range (m) = manual integration (+) = signals summed

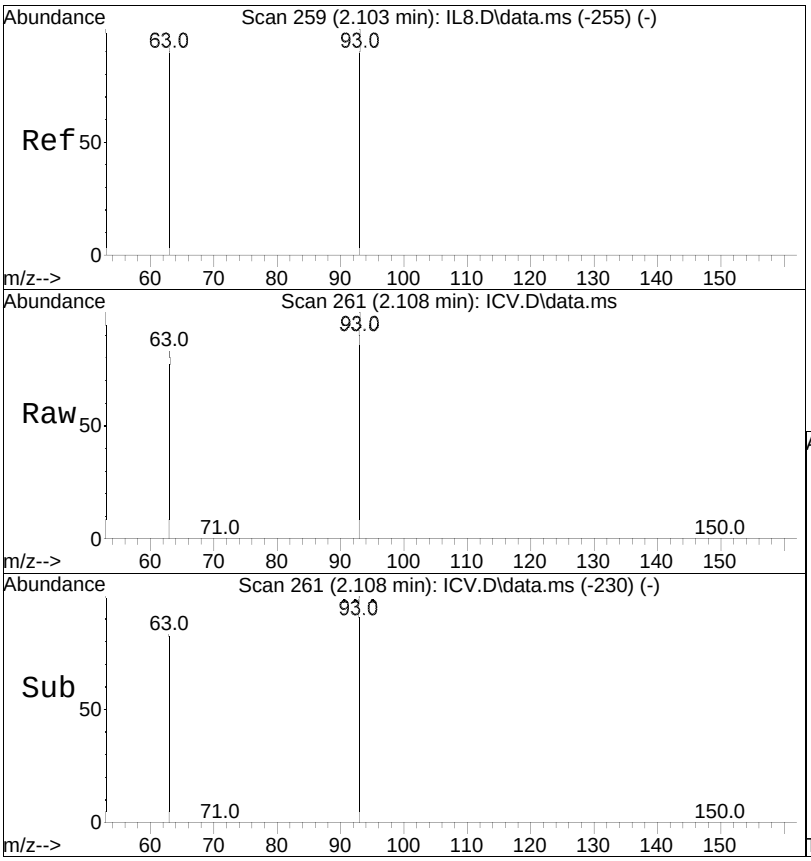
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240917nRVTical\
Data File : ICV.D
Acq On : 17 Sep 2024 09:25 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10884
Misc : WG1973864,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 19 14:00:15 2024
Quant Method : I:\8270SIM\SV125\240917nRVTical\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Sep 19 14:00:48 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedTical\IL8.D•

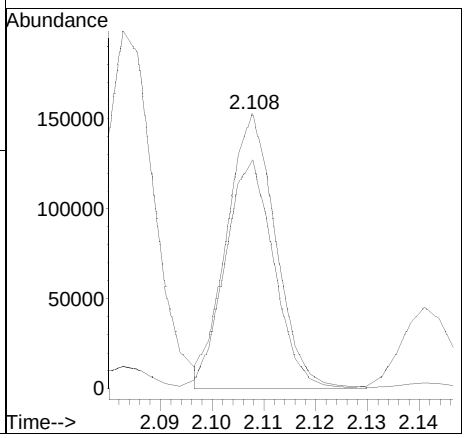


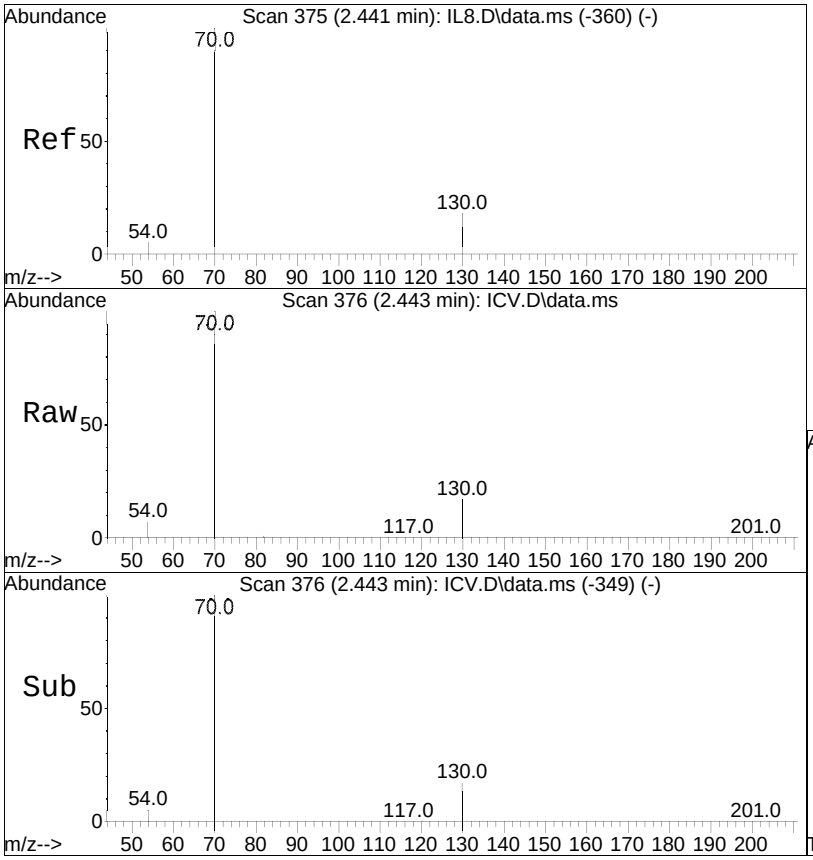


#4
Bis(2-chloroethyl)ether
Concen: 930.25 ng/ml
RT: 2.108 min Scan# 261
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion: 93 Resp: 99768

Ion	Ratio	Lower	Upper
93	100		
63	83.1	66.1	99.1

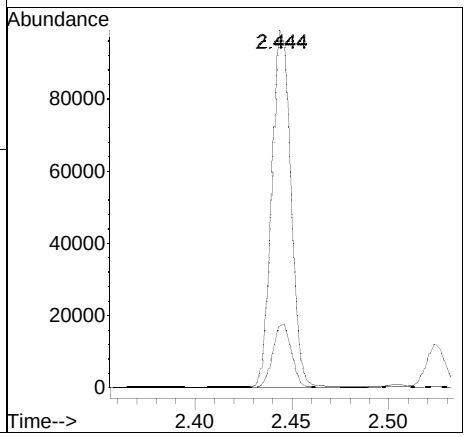


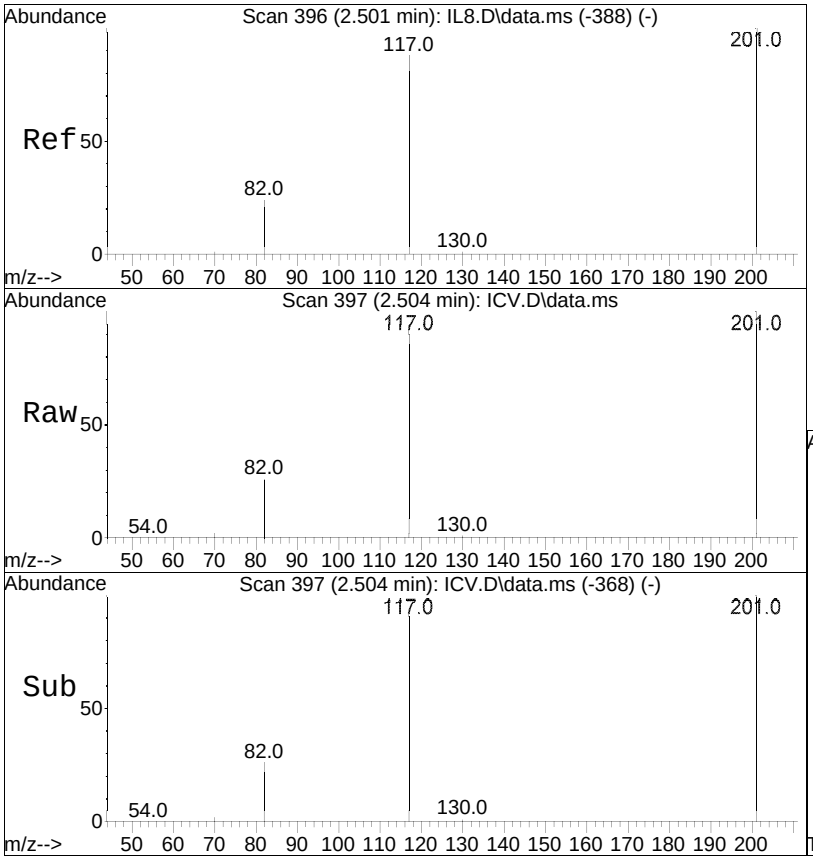


#5
n-nitrosodi-n-propylamine
Concen: 915.69 ng/ml
RT: 2.443 min Scan# 376
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion: 70 Resp: 67019

Ion	Ratio	Lower	Upper
70	100		
130	17.7	14.5	21.7

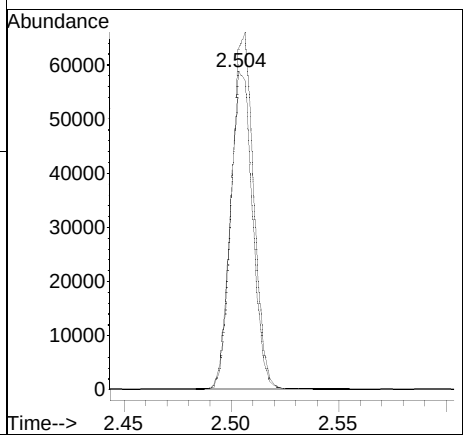


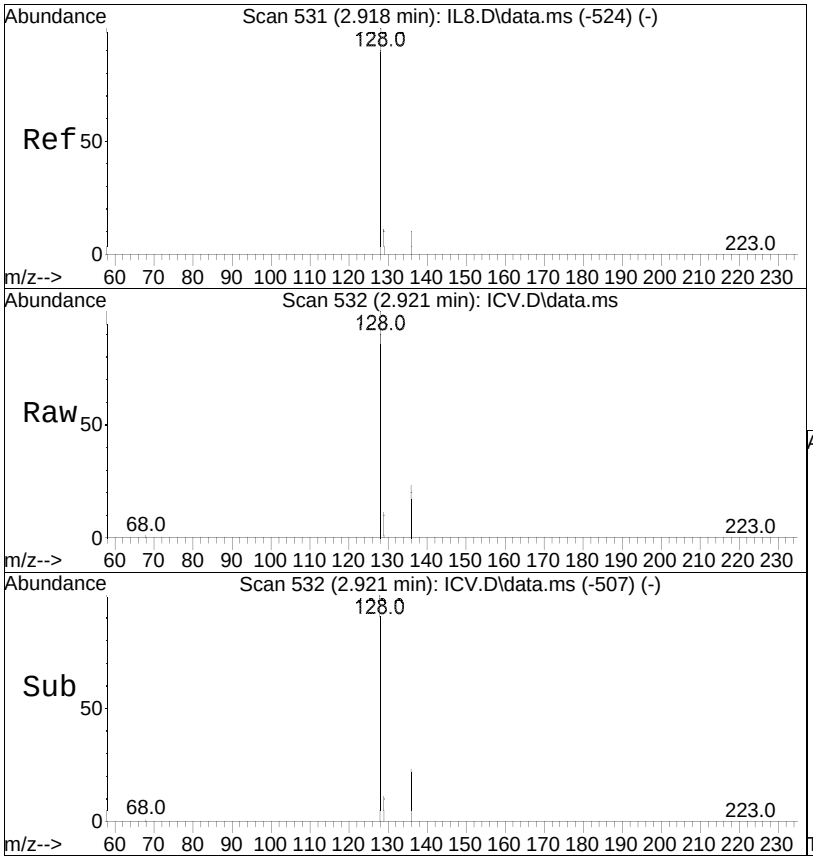


#6
Hexachloroethane
Concen: 949.84 ng/ml
RT: 2.504 min Scan# 397
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:117 Resp: 41233

Ion	Ratio	Lower	Upper
117	100		
201	111.5	89.9	134.9

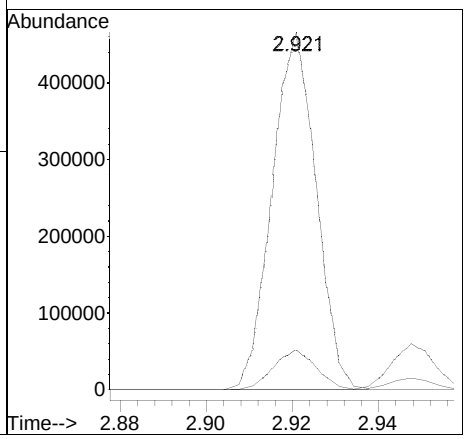


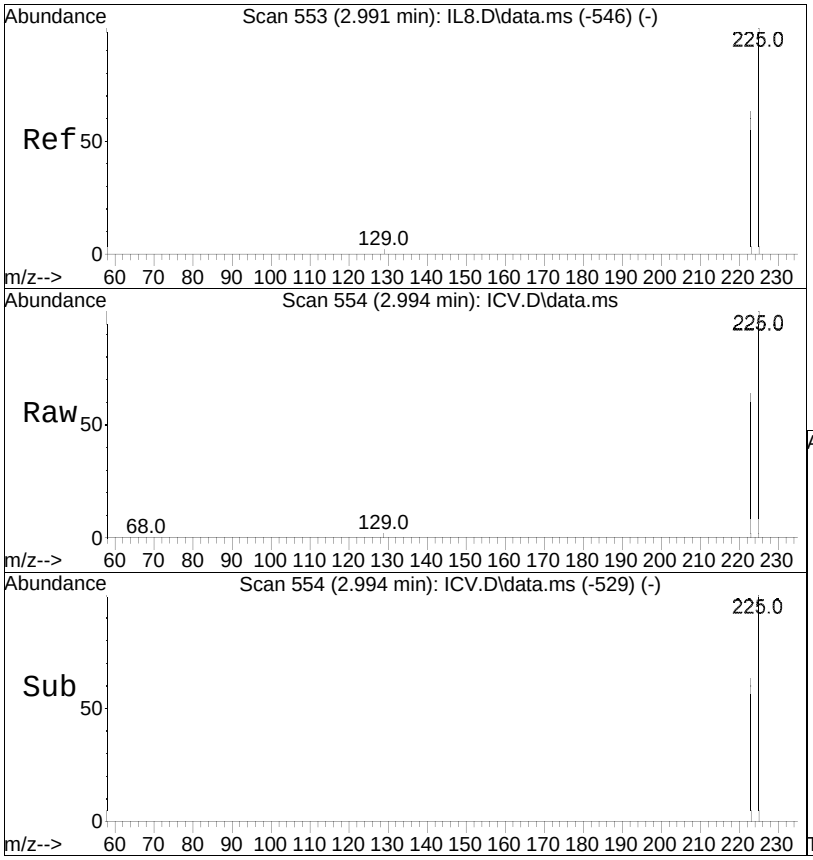


#9
Naphthalene
Concen: 896.89 ng/ml
RT: 2.921 min Scan# 532
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:128 Resp: 327210

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

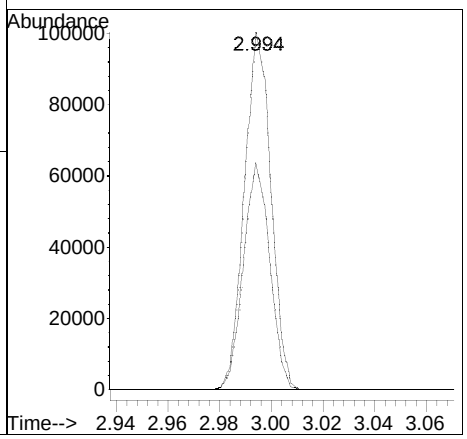


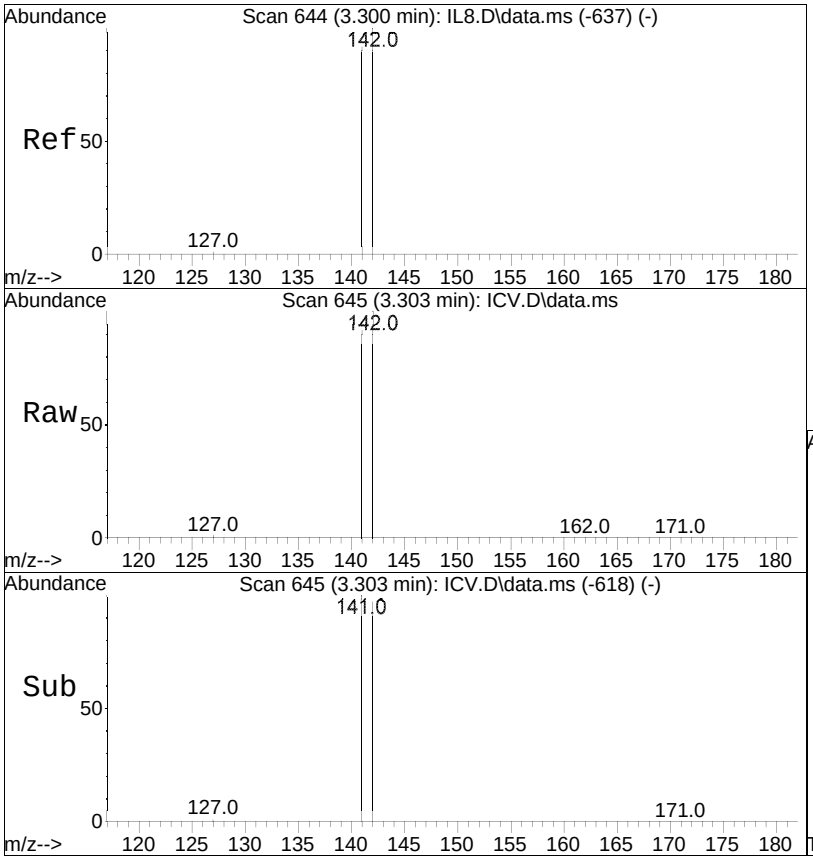


#10
Hexachlorobutadiene
Concen: 956.91 ng/ml
RT: 2.994 min Scan# 554
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:225 Resp: 70531

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.9	74.9

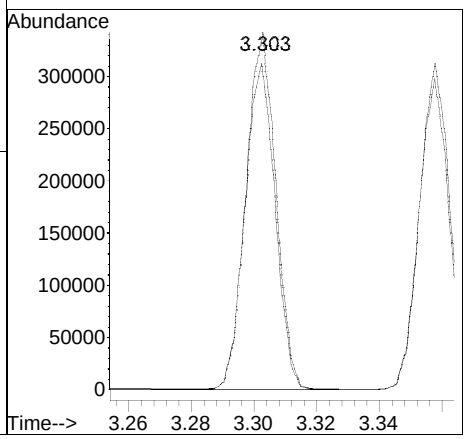


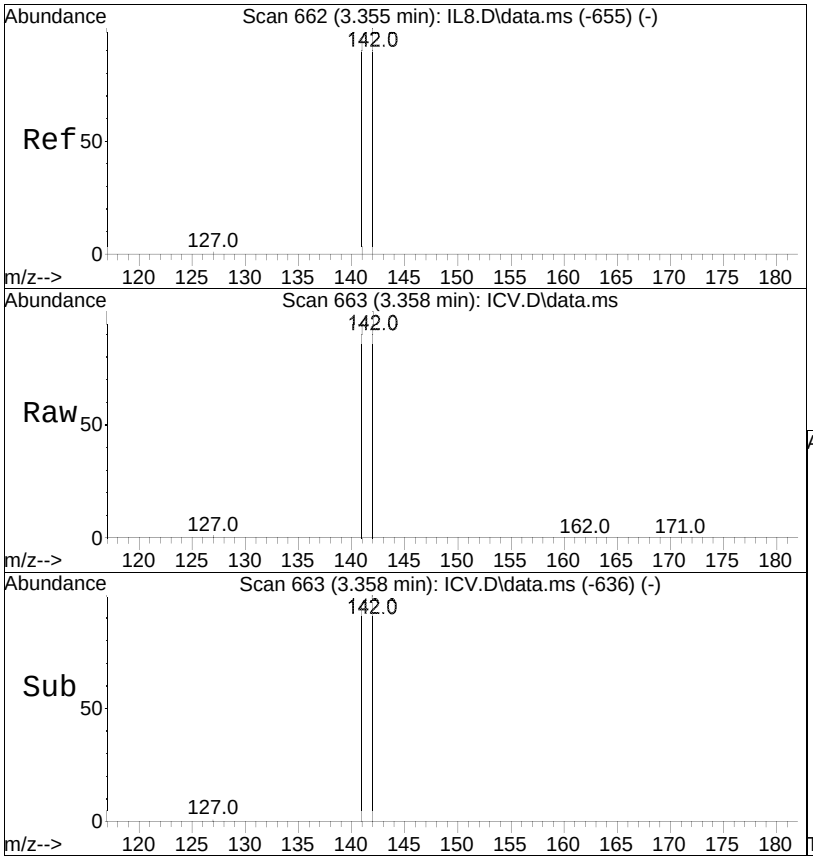


#11
2-Methylnaphthalene
Concen: 967.88 ng/ml
RT: 3.303 min Scan# 645
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:142 Resp: 226159

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.8	110.6

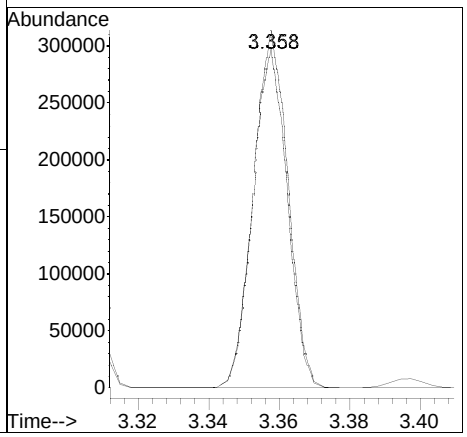


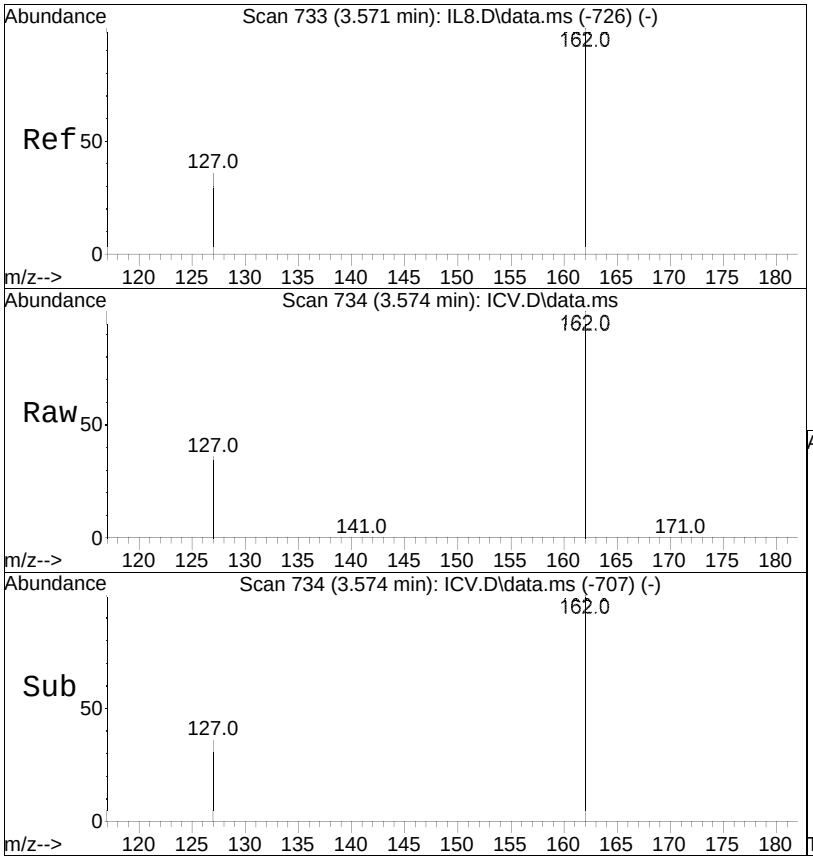


#12
1-Methylnaphthalene
Concen: 963.82 ng/ml
RT: 3.358 min Scan# 663
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:142 Resp: 208904

Ion	Ratio	Lower	Upper
142	100		
141	95.2	76.1	114.1

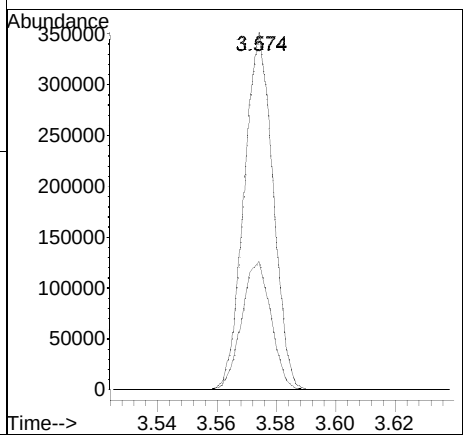


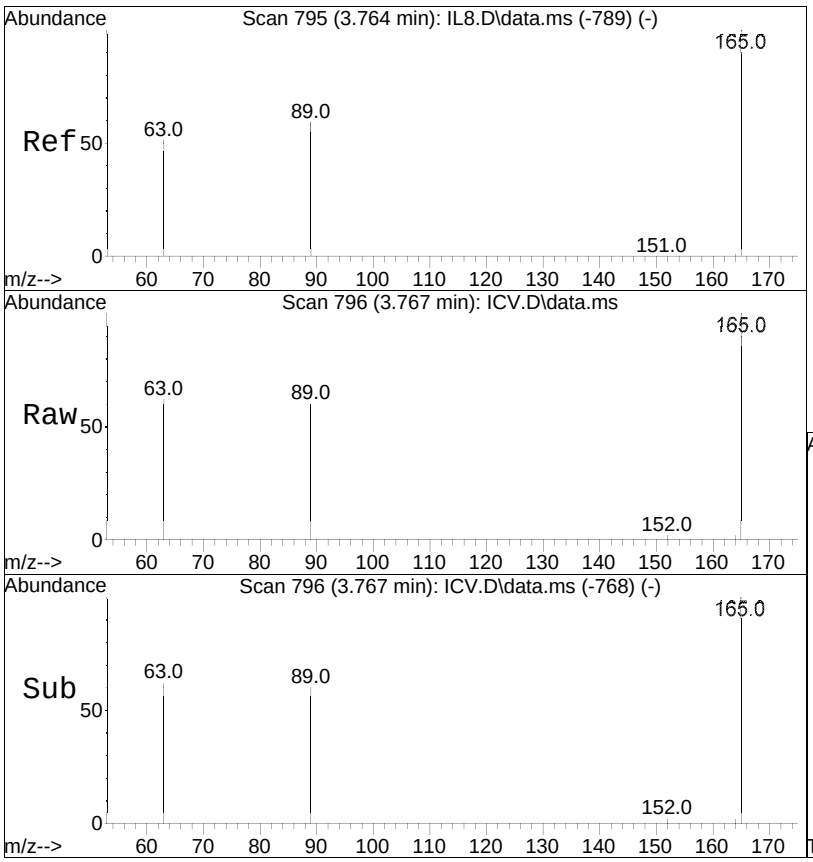


#14
2-Chloronaphthalene
Concen: 947.19 ng/ml
RT: 3.574 min Scan# 734
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:162 Resp: 234354

Ion	Ratio	Lower	Upper
162	100		
127	36.6	29.4	44.0

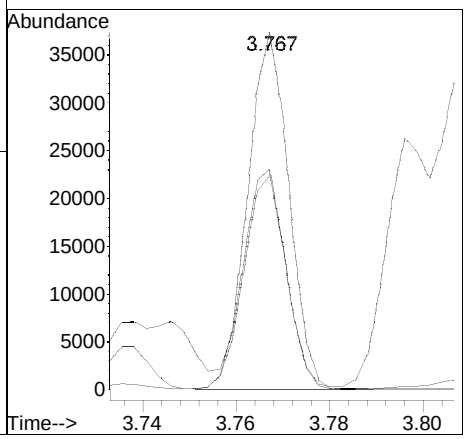


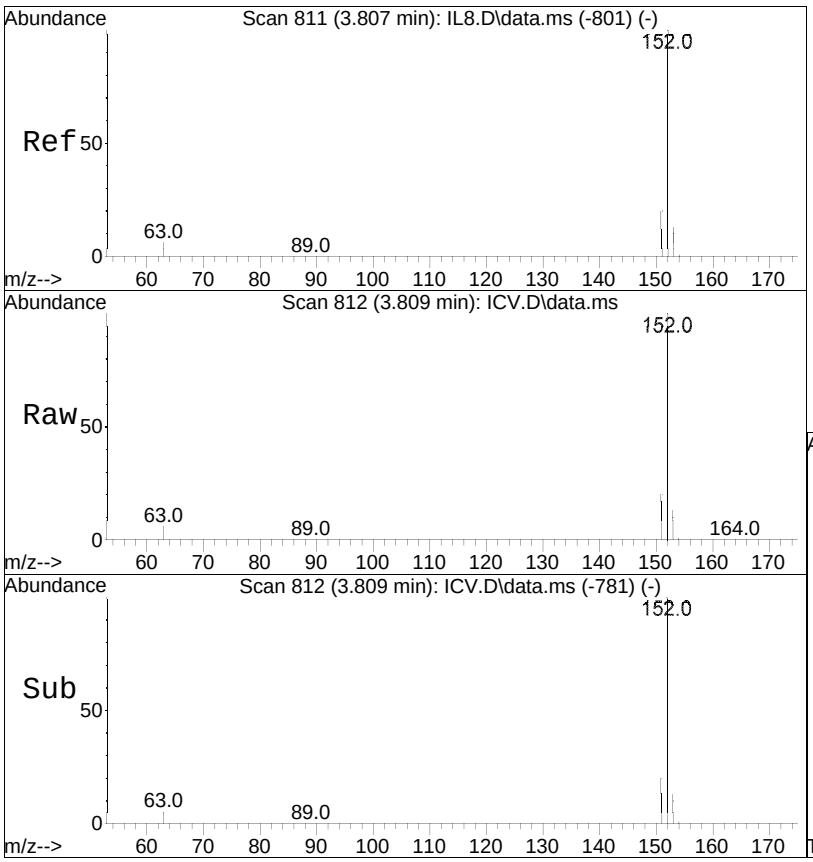


#15
2,6-Dinitrotoluene
Concen: 779.73 ng/ml
RT: 3.767 min Scan# 796
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:165 Resp: 22735

Ion	Ratio	Lower	Upper
165	100		
89	61.2	48.5	72.7
63	63.0	49.5	74.3

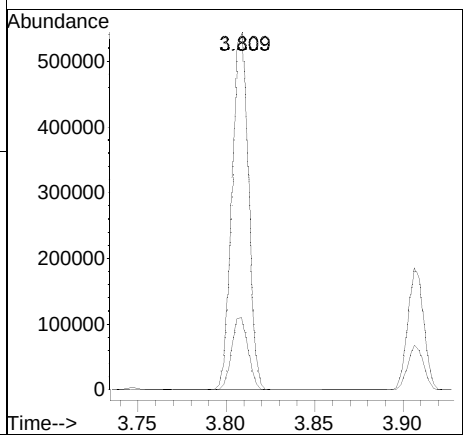


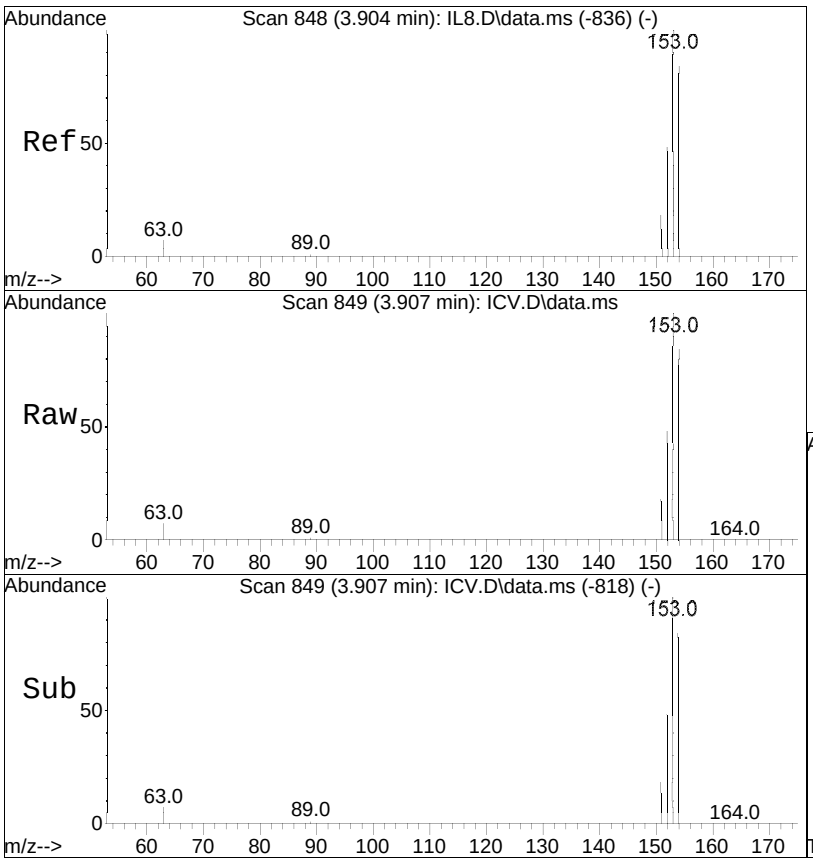


#16
Acenaphthylene
Concen: 973.58 ng/ml
RT: 3.809 min Scan# 812
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:152 Resp: 349842

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4

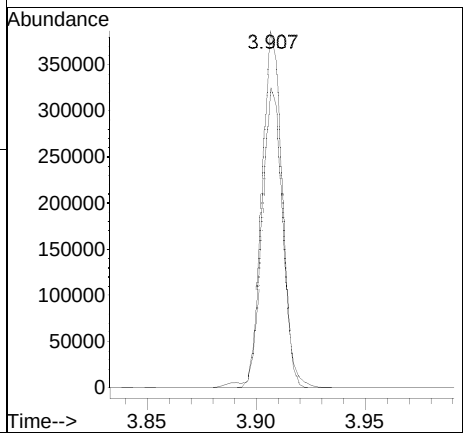


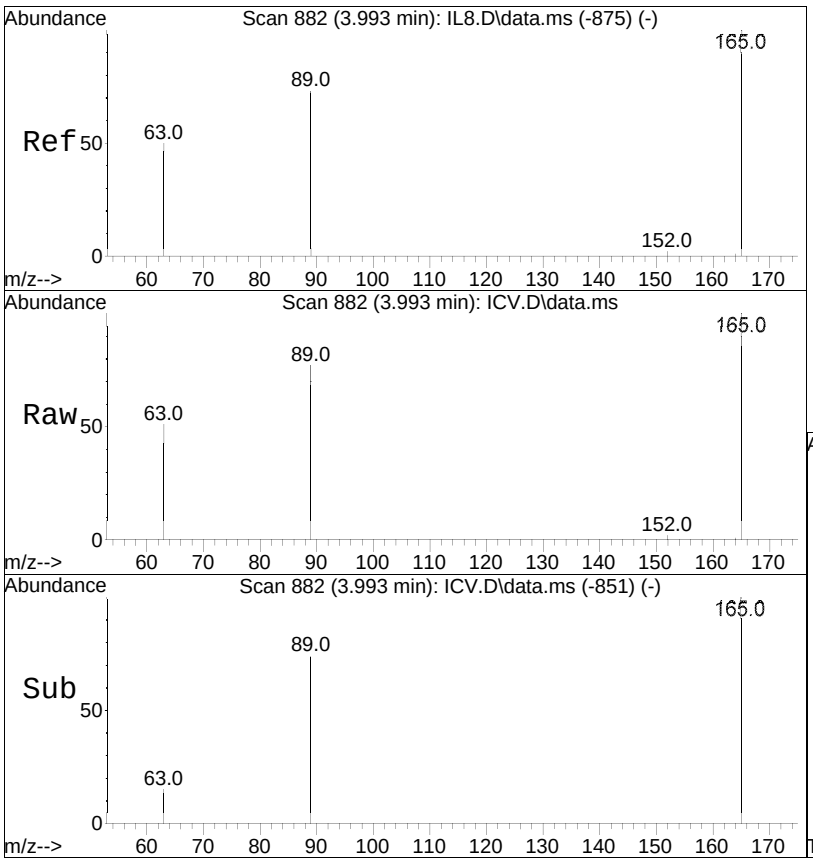


#18
Acenaphthene
Concen: 935.37 ng/ml
RT: 3.907 min Scan# 849
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:153 Resp: 243491

Ion	Ratio	Lower	Upper
153	100		
154	87.9	70.3	105.5

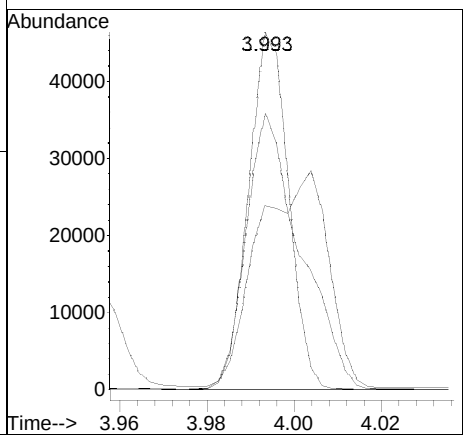


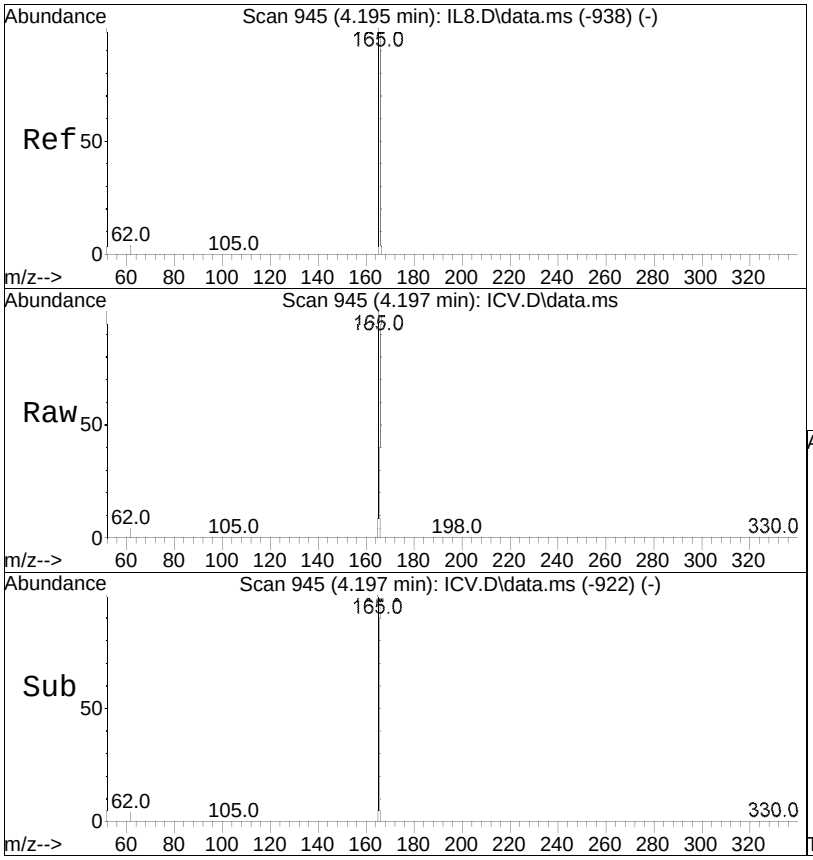


#19
2,4-Dinitrotoluene
Concen: 802.35 ng/ml M4
RT: 3.993 min Scan# 882
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:165 Resp: 29280

Ion	Ratio	Lower	Upper
165	100		
89	84.9	64.2	96.2
63	55.8	40.1	60.1

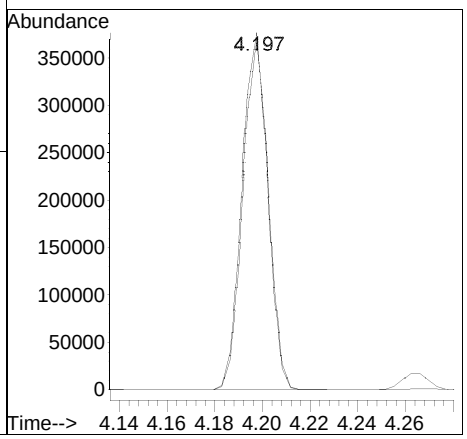


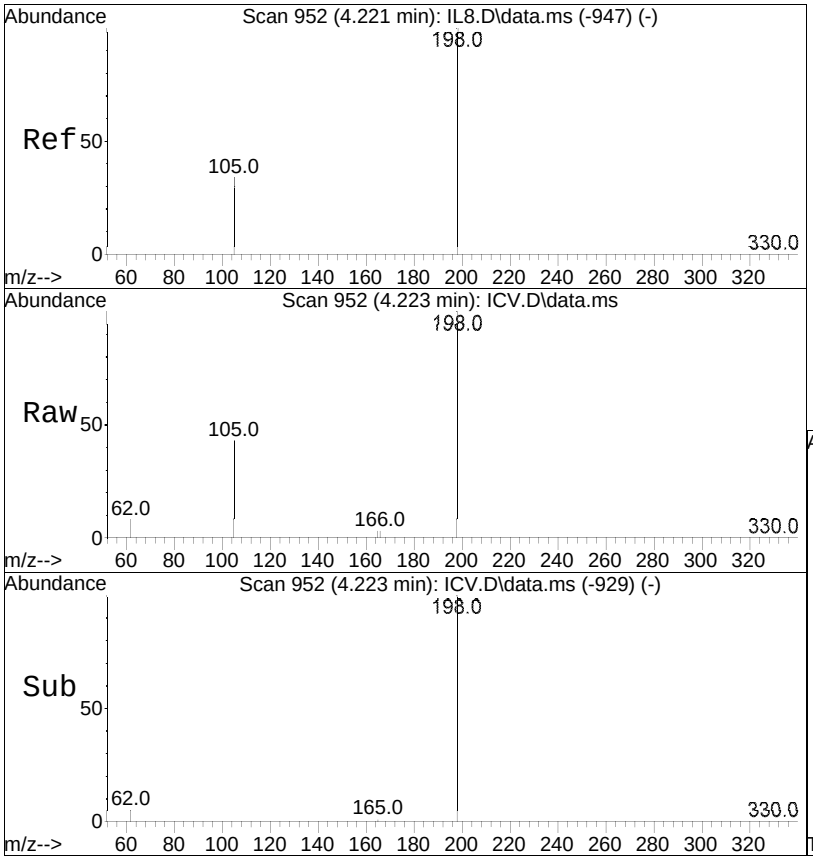


#20
Fluorene
Concen: 956.87 ng/ml
RT: 4.197 min Scan# 945
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:166 Resp: 273059

Ion	Ratio	Lower	Upper
166	100		
165	102.7	82.0	123.0

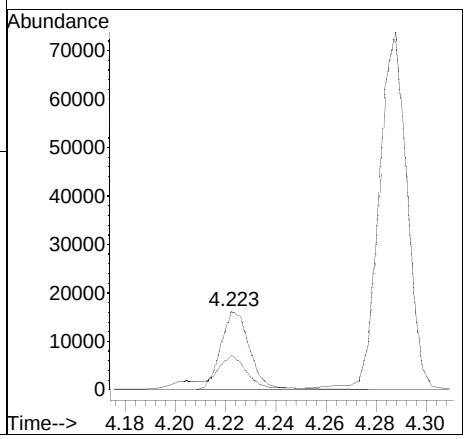


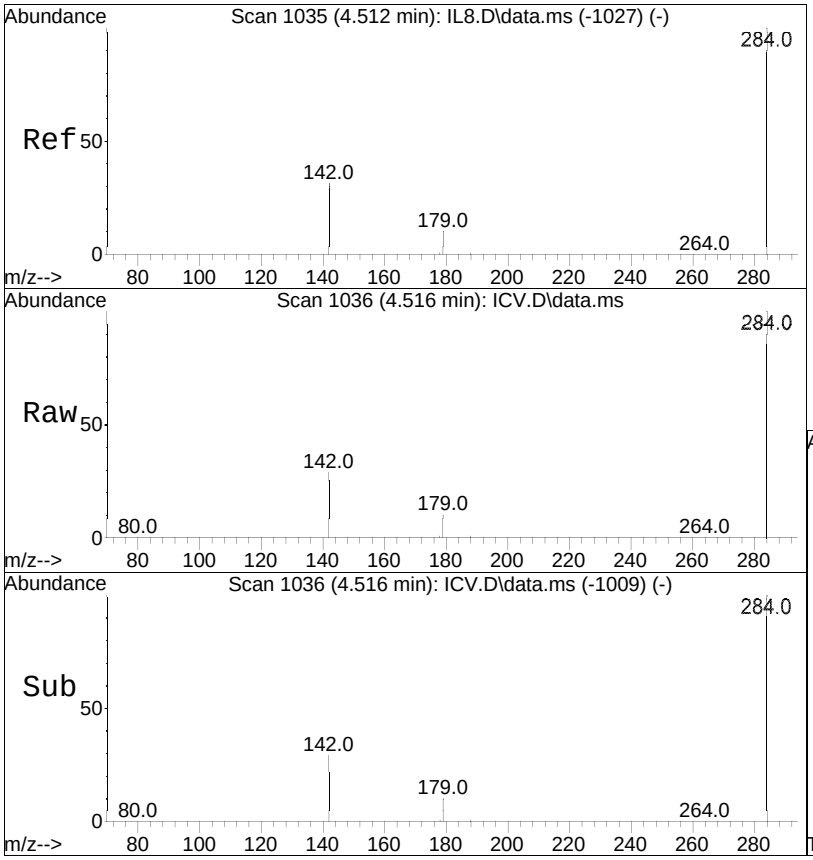


#23
4,6-Dinitro-o-cresol
Concen: 832.05 ng/ml M4
RT: 4.223 min Scan# 952
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:198 Resp: 12989

Ion	Ratio	Lower	Upper
198	100		
105	50.3	39.5	59.3

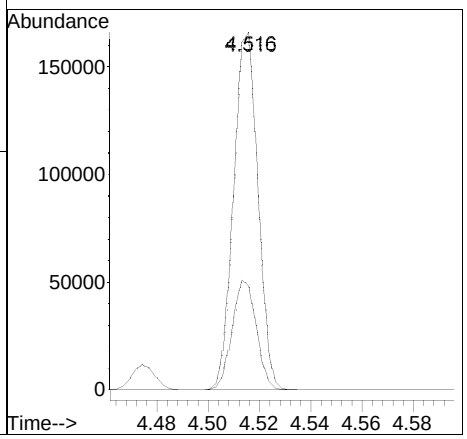


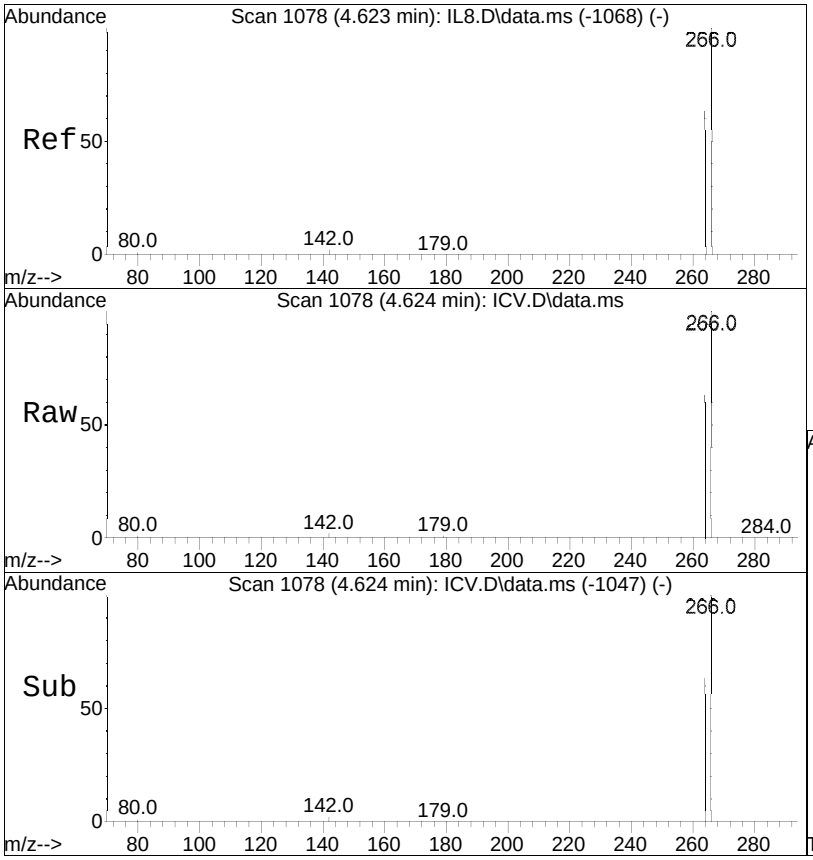


#24
Hexachlorobenzene
Concen: 930.73 ng/ml
RT: 4.516 min Scan# 1036
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:284 Resp: 107981

Ion	Ratio	Lower	Upper
284	100		
142	30.4	24.4	36.6

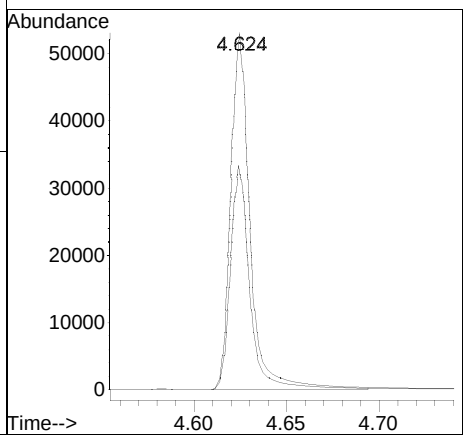


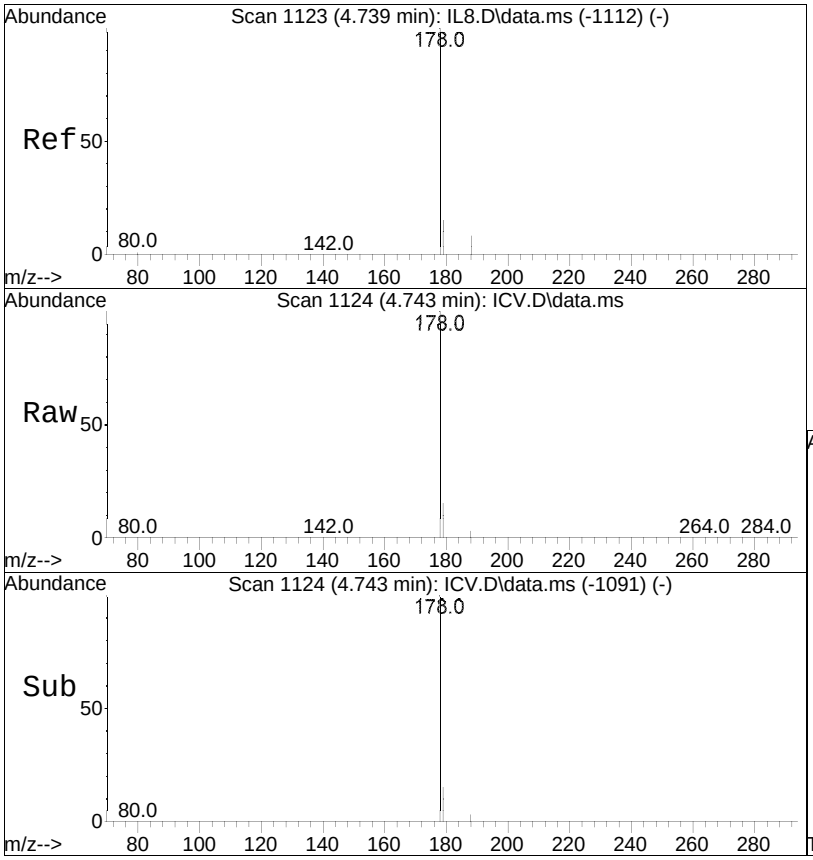


#25
Pentachlorophenol
Concen: 903.57 ng/ml
RT: 4.624 min Scan# 1078
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:266 Resp: 38271

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.4	75.6

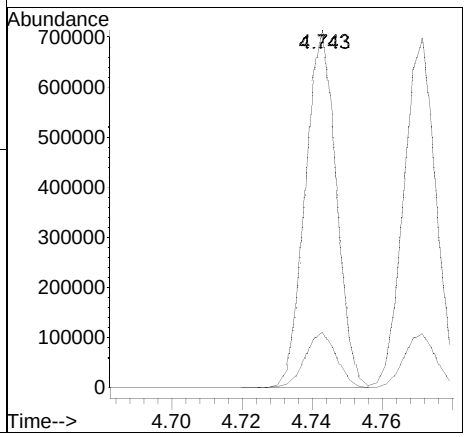


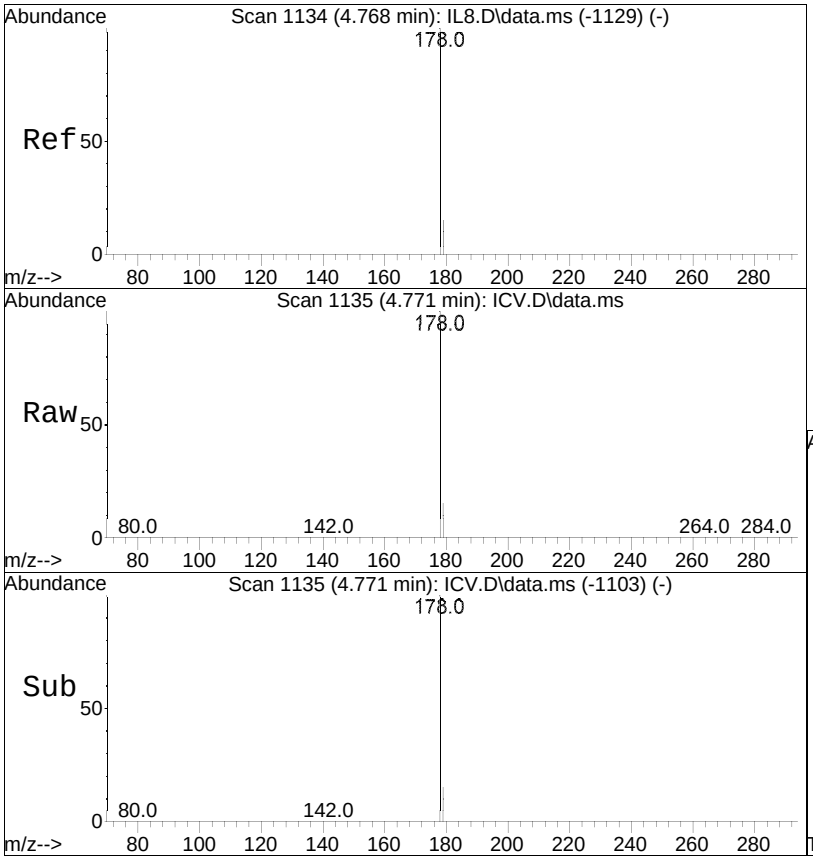


#26
Phenanthrene
Concen: 940.20 ng/ml
RT: 4.743 min Scan# 1124
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:178 Resp: 439728

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

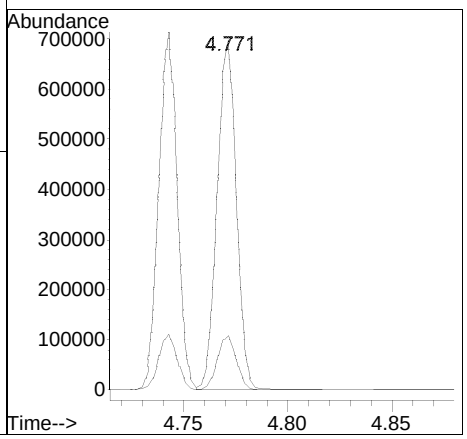


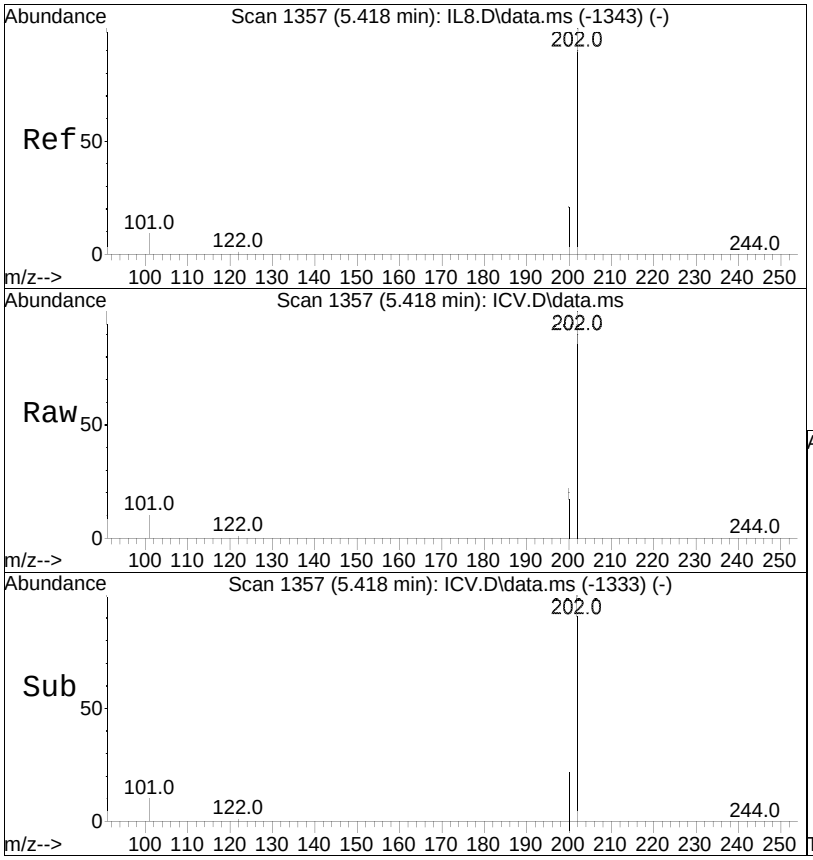


#27
Anthracene
Concen: 958.96 ng/ml
RT: 4.771 min Scan# 1135
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:178 Resp: 444982

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

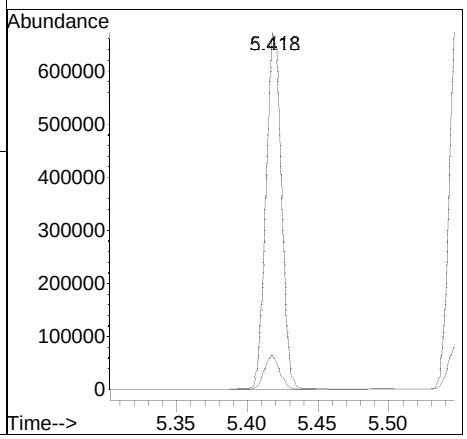


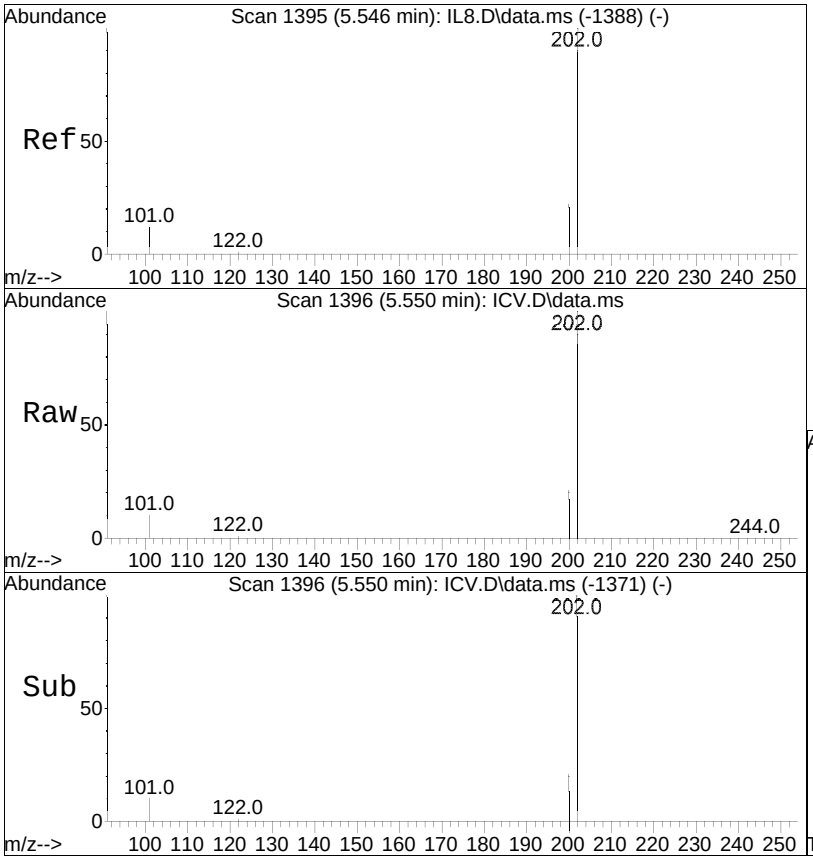


#28
Fluoranthene
Concen: 974.24 ng/ml
RT: 5.418 min Scan# 1357
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:202 Resp: 516847

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.6	11.4

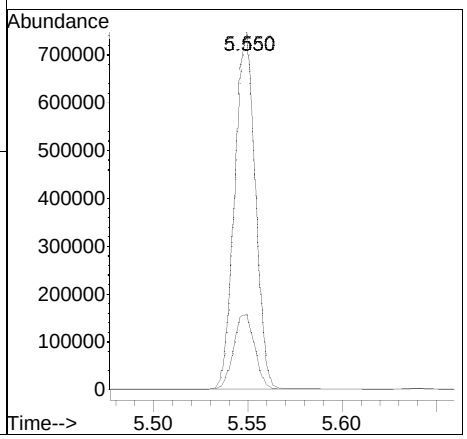


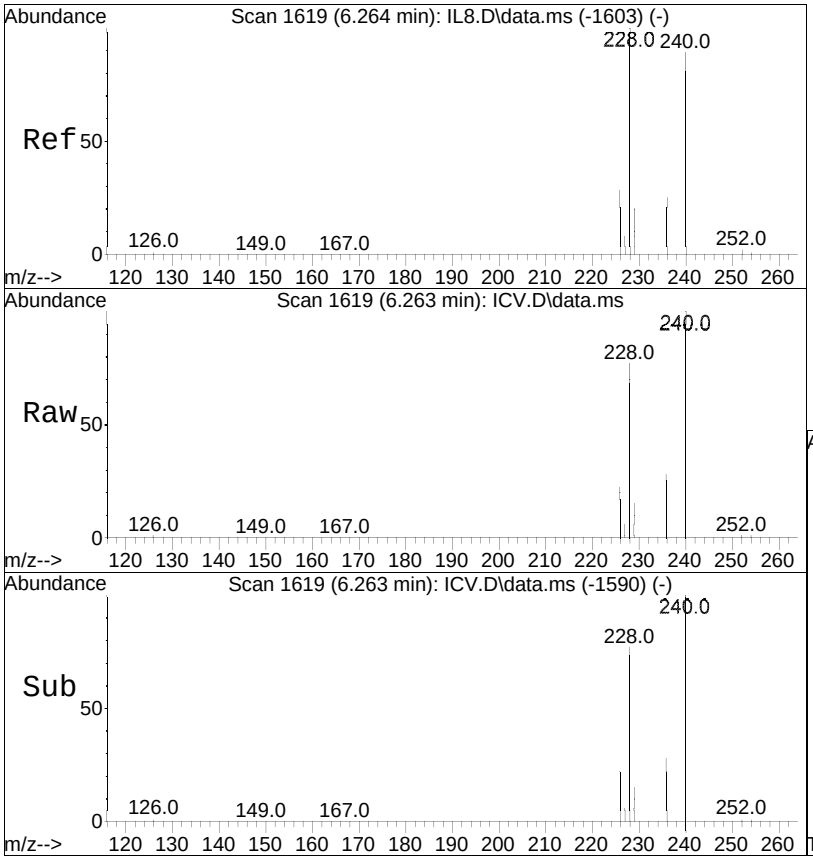


#29
Pyrene
Concen: 1005.22 ng/ml
RT: 5.550 min Scan# 1396
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:202 Resp: 562633

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8

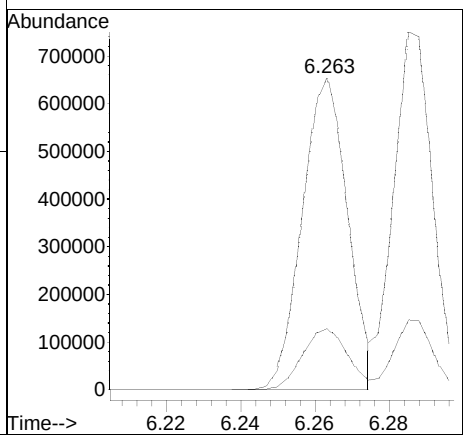


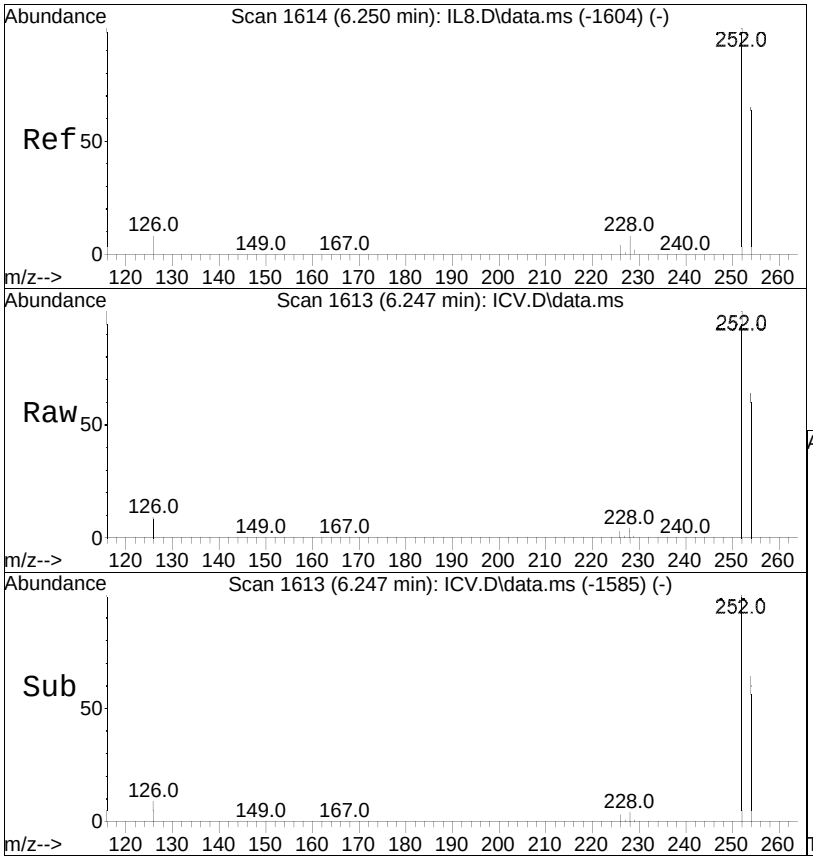


#32
Benzo[a]anthracene
Concen: 972.16 ng/ml
RT: 6.263 min Scan# 1619
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:228 Resp: 554053

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

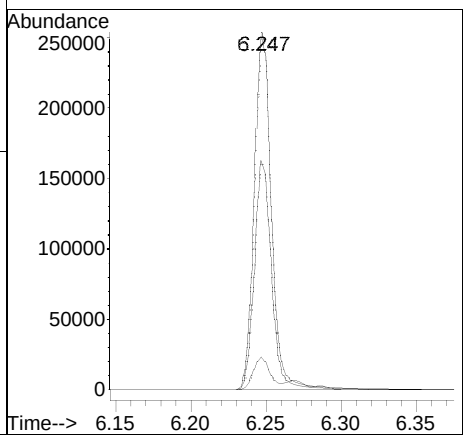


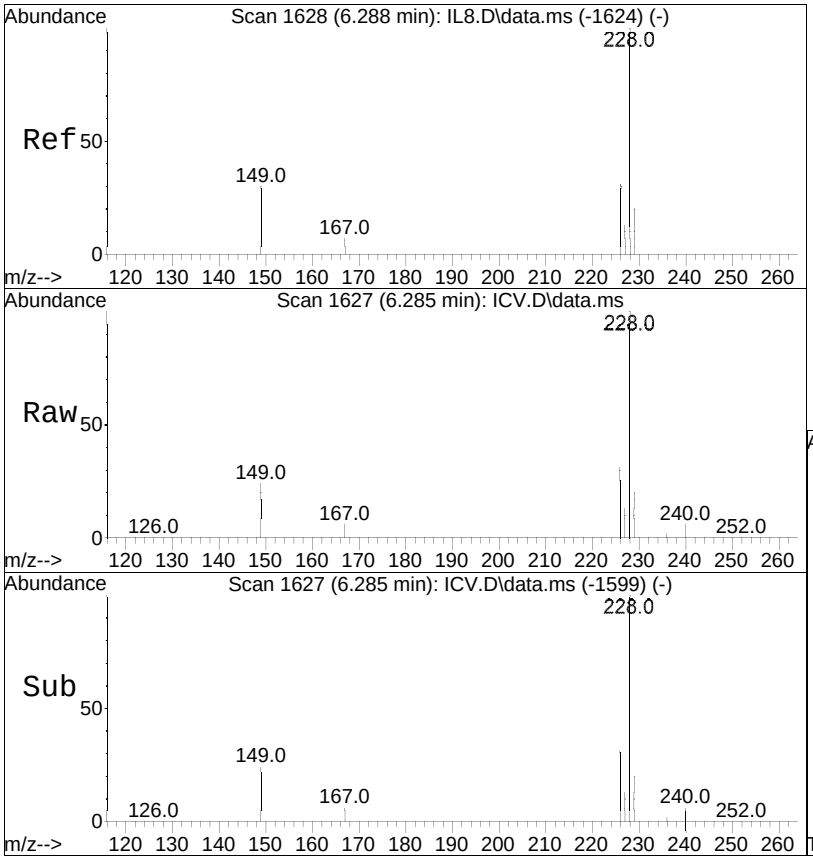


#33
3,3'-Dichlorobenzene
Concen: 920.48 ng/ml
RT: 6.247 min Scan# 1613
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:252 Resp: 197154

Ion	Ratio	Lower	Upper
252	100		
126	9.2	7.2	10.8
254	64.7	51.8	77.6

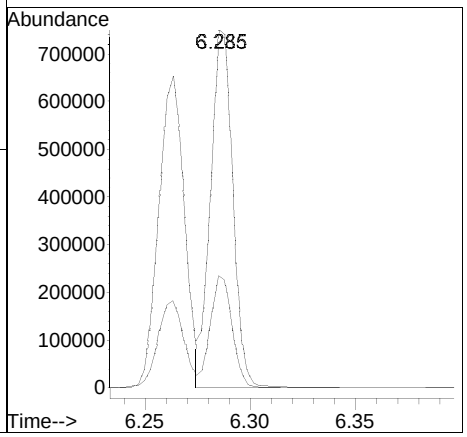


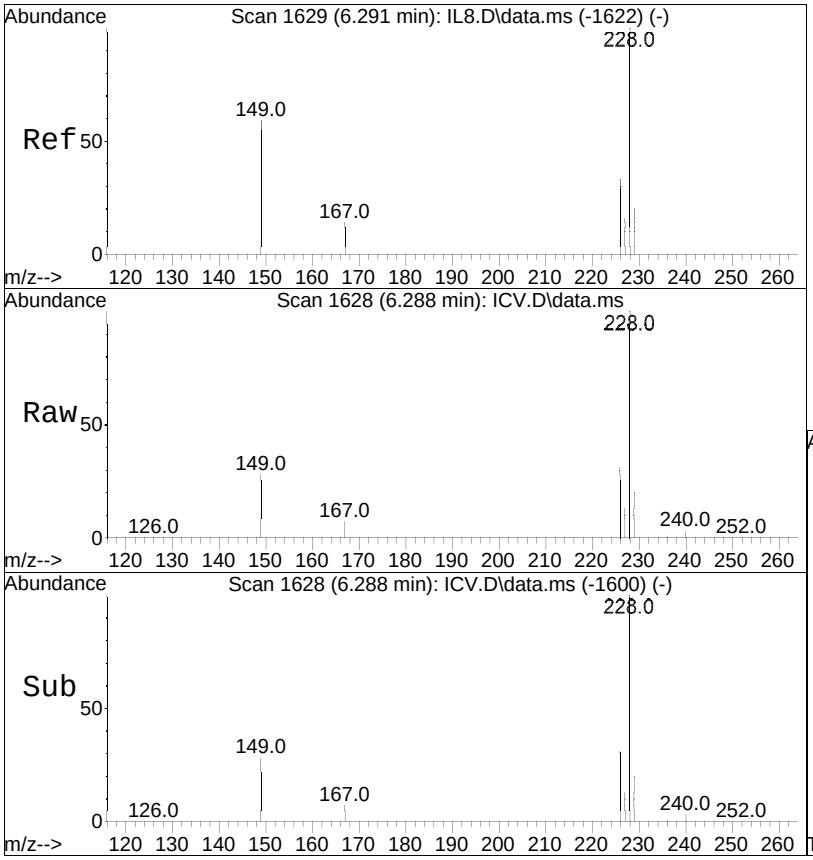


#34
Chrysene
Concen: 1002.97 ng/ml
RT: 6.285 min Scan# 1627
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:228 Resp: 548944

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.8	37.2

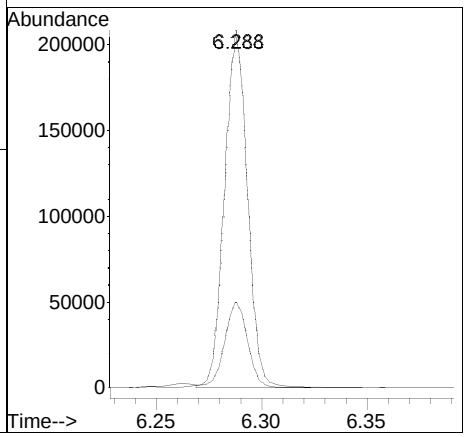


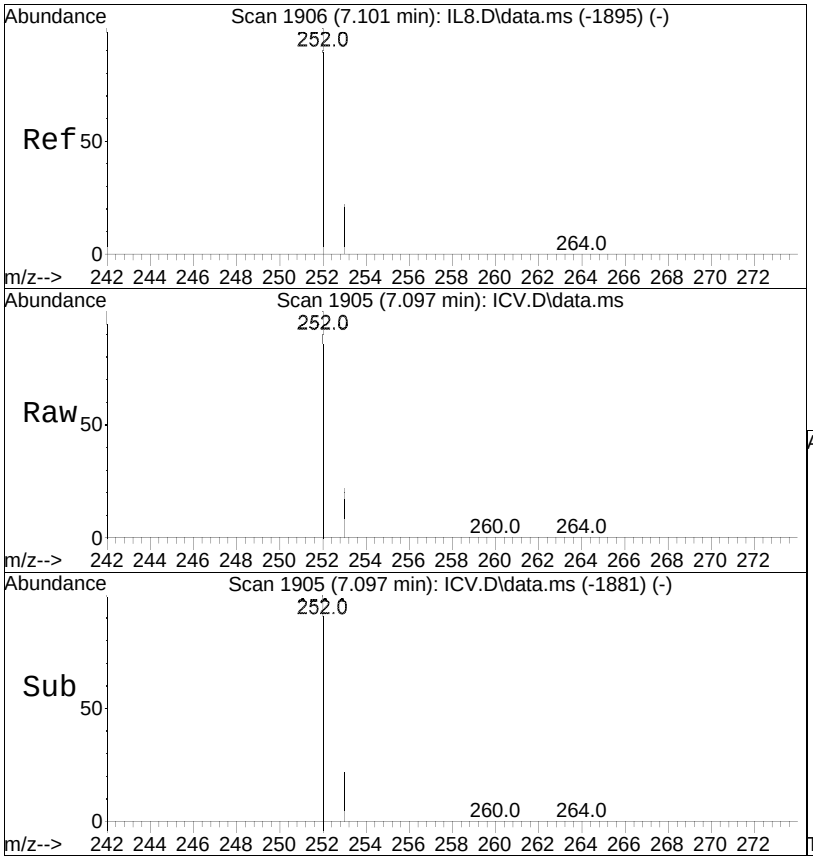


#35
Bis(2-ethylhexyl)phthalate
Concen: 823.94 ng/ml
RT: 6.288 min Scan# 1628
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:149 Resp: 154479

Ion	Ratio	Lower	Upper
149	100		
167	24.8	19.9	29.9

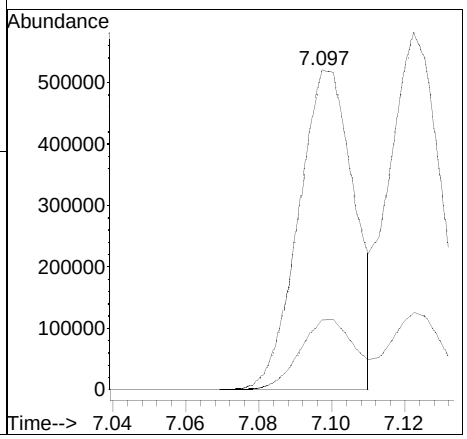


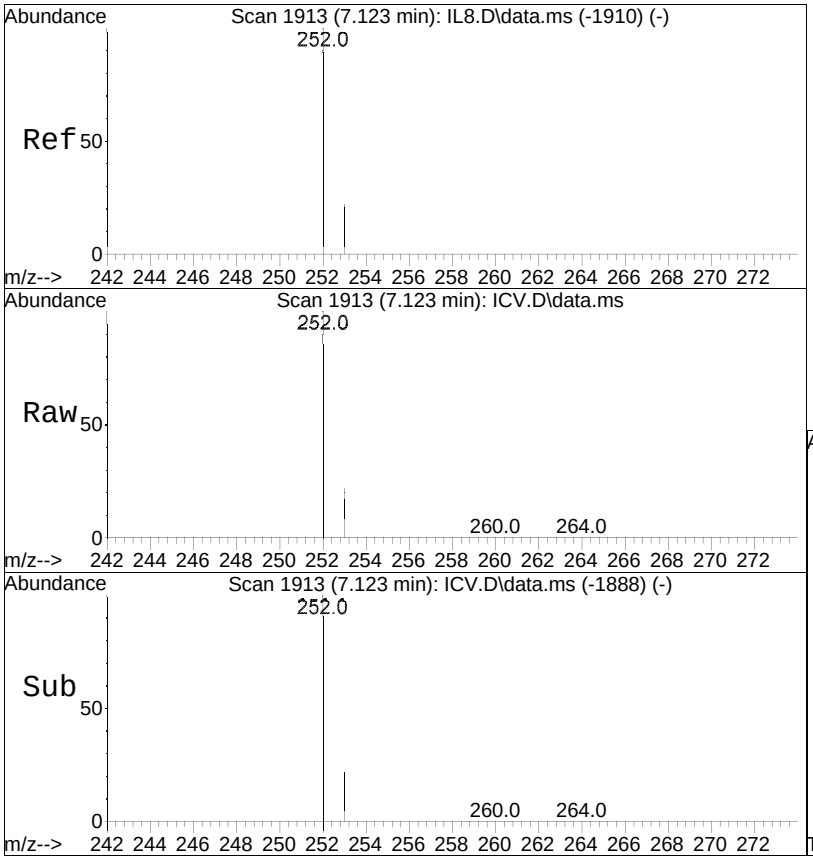


#37
Benzo[b]fluoranthene
Concen: 1049.12 ng/ml
RT: 7.097 min Scan# 1905
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:252 Resp: 556509

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

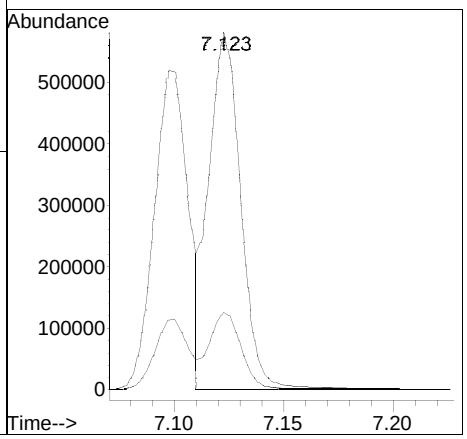


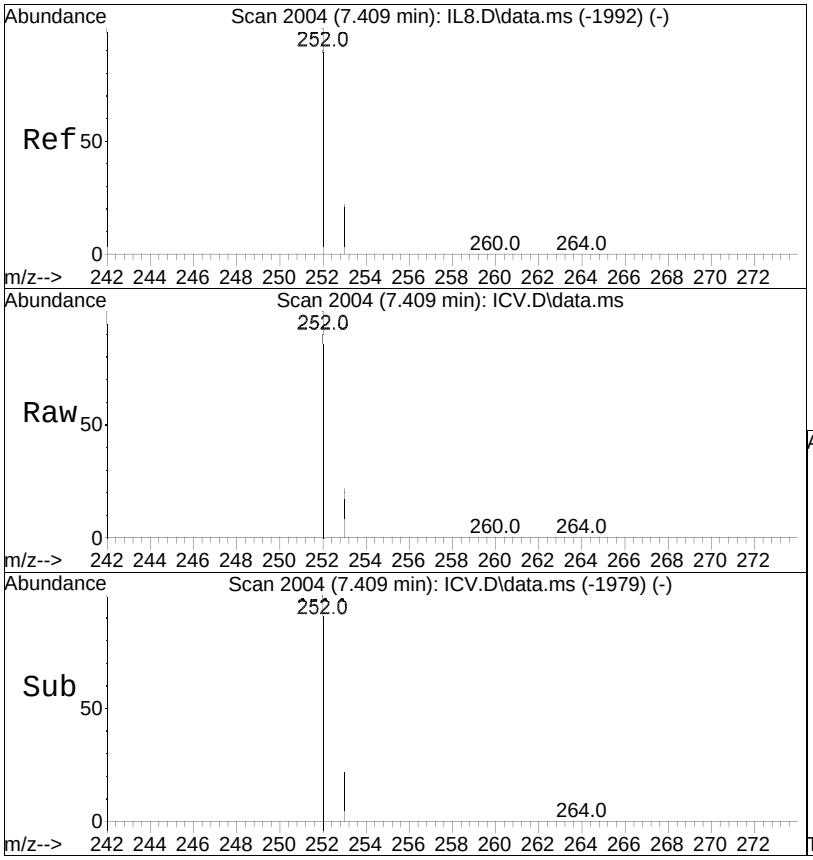


#38
Benzo[k]fluoranthene
Concen: 1122.29 ng/ml
RT: 7.123 min Scan# 1913
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:252 Resp: 583310

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

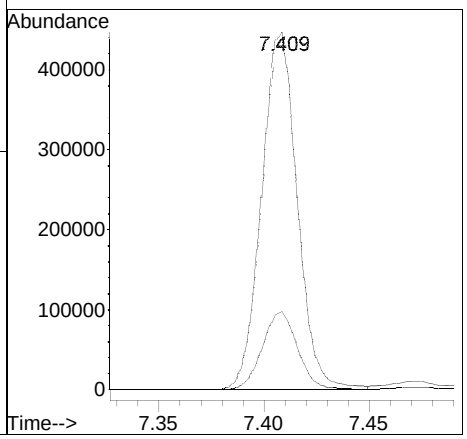


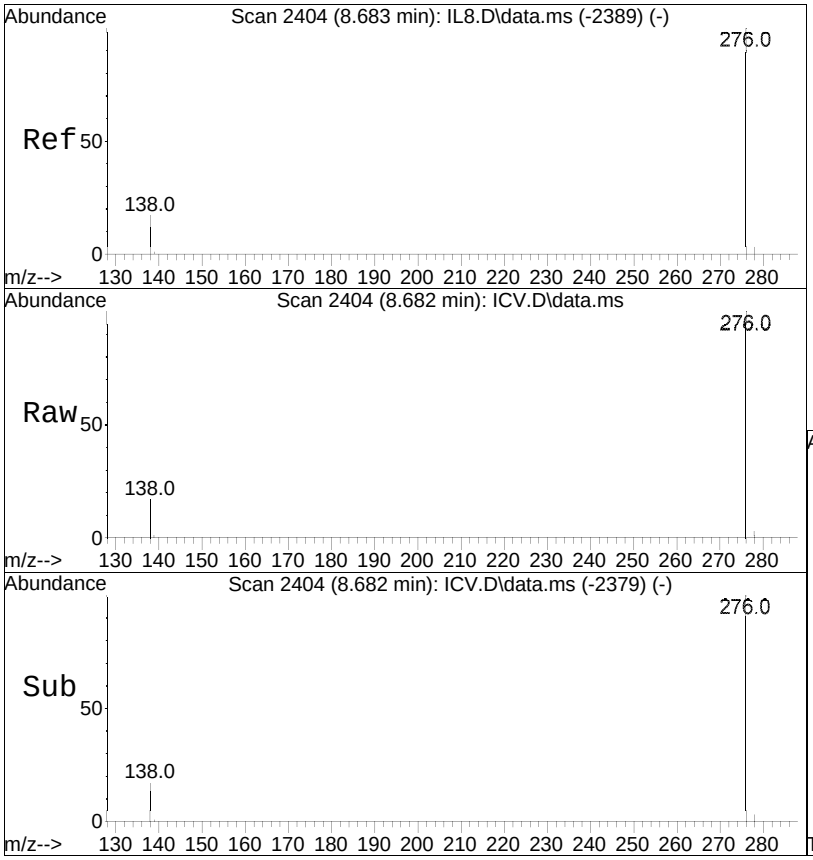


#39
Benzo[a]pyrene
Concen: 1122.32 ng/ml
RT: 7.409 min Scan# 2004
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:252 Resp: 517993

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

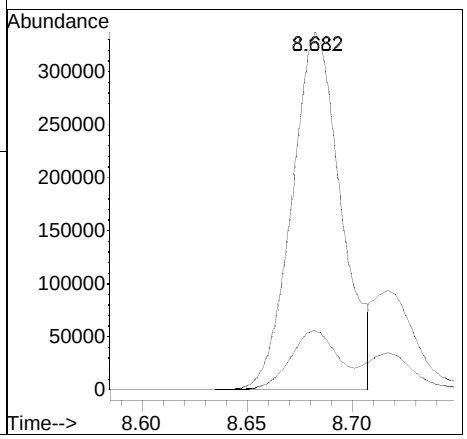


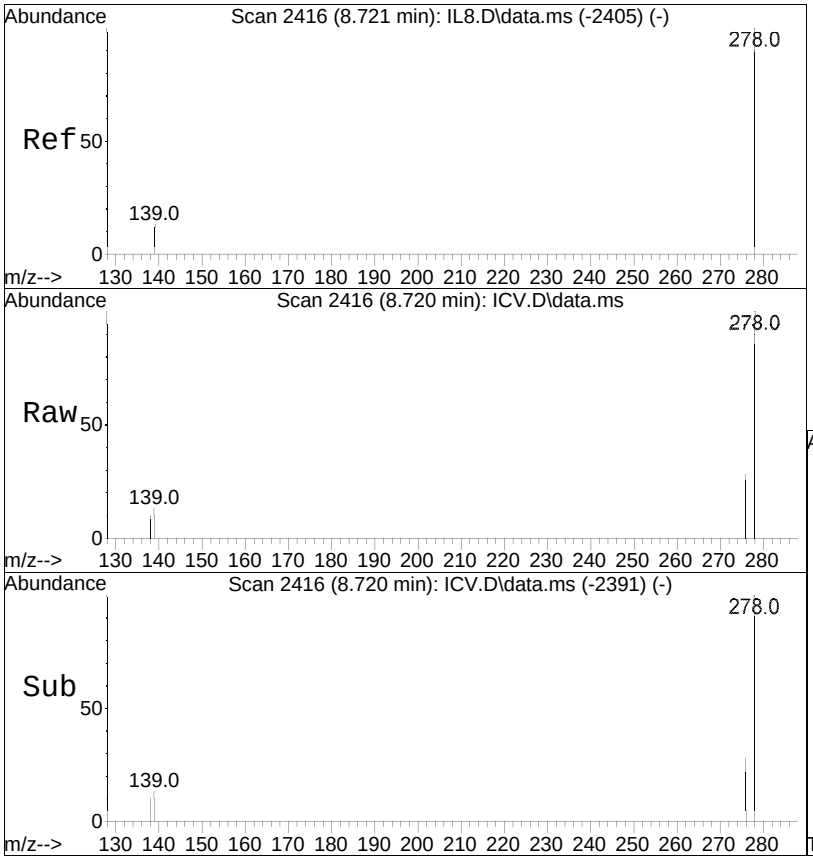


#40
Indeno[1,2,3-cd]pyrene
Concen: 1120.51 ng/ml
RT: 8.682 min Scan# 2404
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:276 Resp: 543147

Ion	Ratio	Lower	Upper
276	100		
138	16.2	13.1	19.7

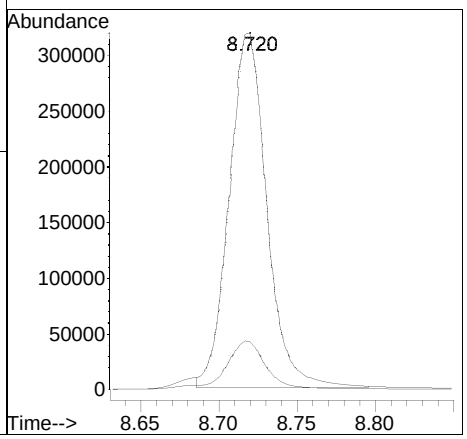


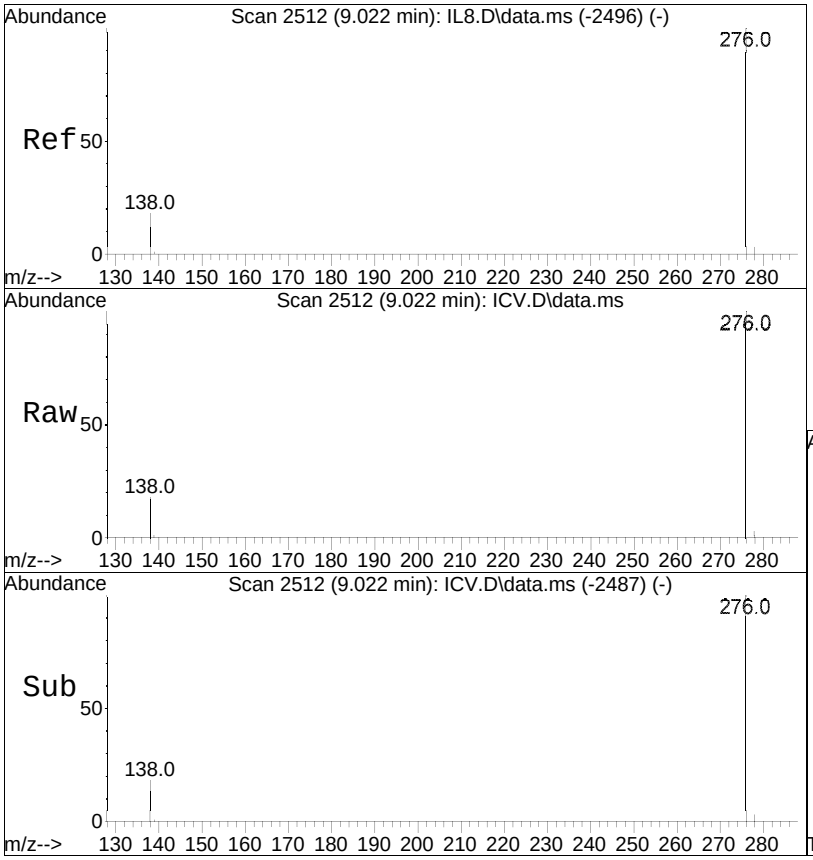


#41
Dibenzo[a,h]anthracene
Concen: 1000.28 ng/ml M6
RT: 8.720 min Scan# 2416
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:278 Resp: 530412

Ion	Ratio	Lower	Upper
278	100		
139	14.5	12.0	18.0

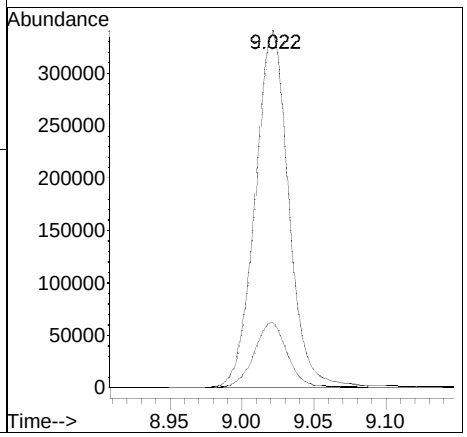




#42
Benzo[g,h,i]perylene
Concen: 1084.78 ng/ml
RT: 9.022 min Scan# 2512
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2024 09:25 pm

Tgt Ion:276 Resp: 544533

Ion	Ratio	Lower	Upper
276	100		
138	18.3	14.7	22.1

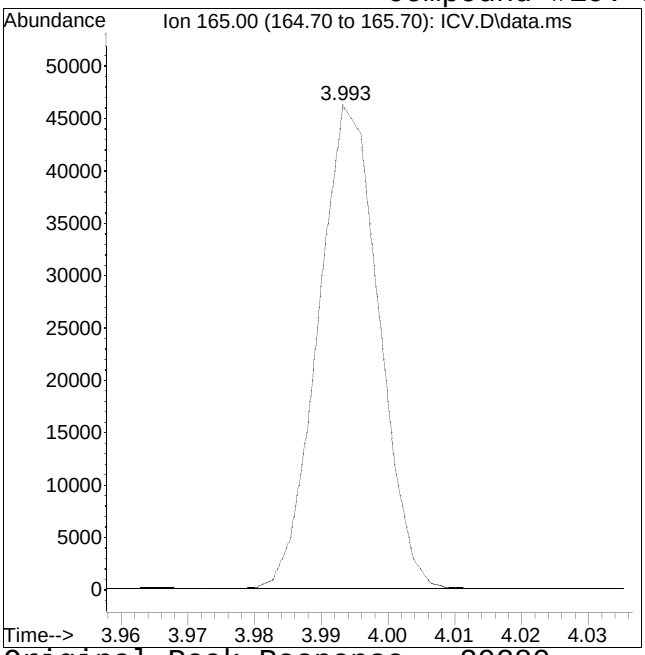


Manual Integration Report

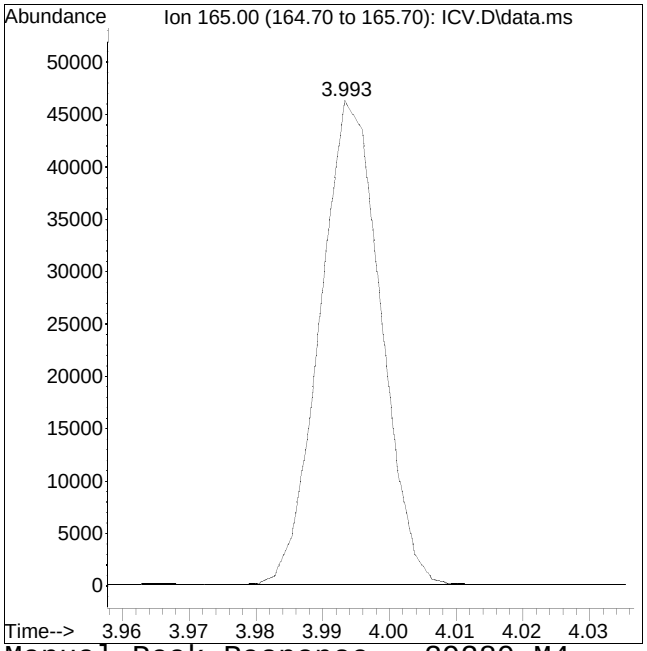
Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : ICV.D
Date Inj'd : 9/17/2024 9:25 pm
Sample : CQICV,32,, 1.000 Lot#10884

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 2:00 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 29280



Manual Peak Response = 29280 M4

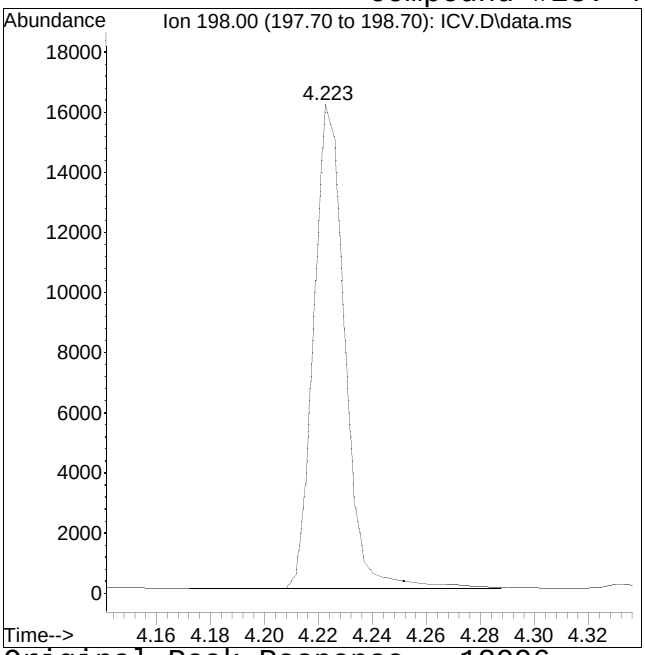
M4 = Poor automated baseline construction.

Manual Integration Report

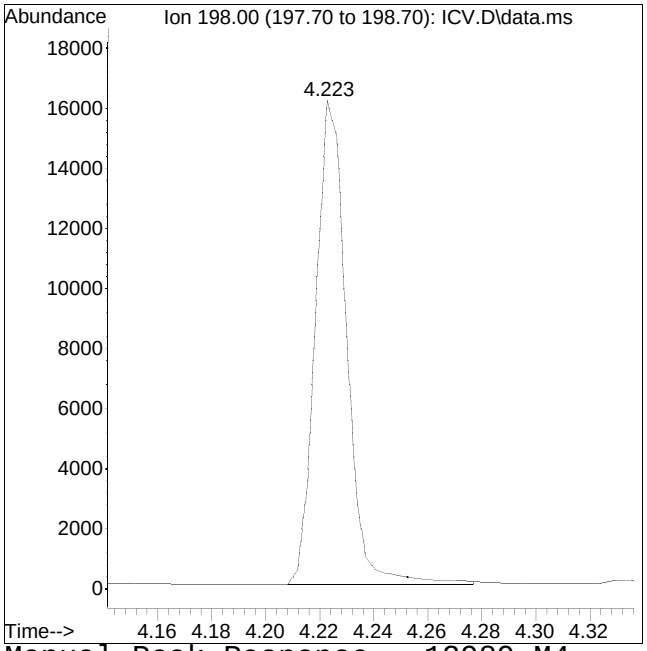
Data Path : I:\8270SIM\SV125\240917nRVQ
Data File : ICV.D
Date Inj'd : 9/17/2024 9:25 pm
Sample : CQICV,32,, 1.000 Lot#10884

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/19/2024 2:00 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 12996



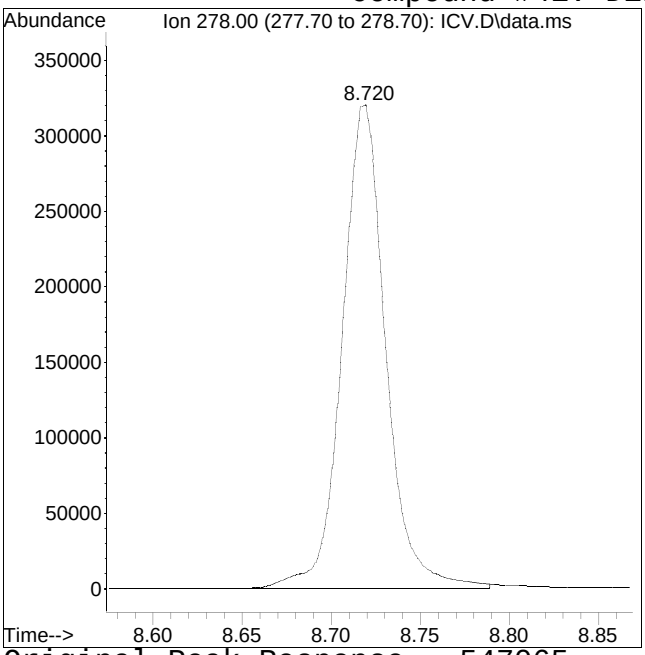
Manual Peak Response = 12989 M4

M4 = Poor automated baseline construction.

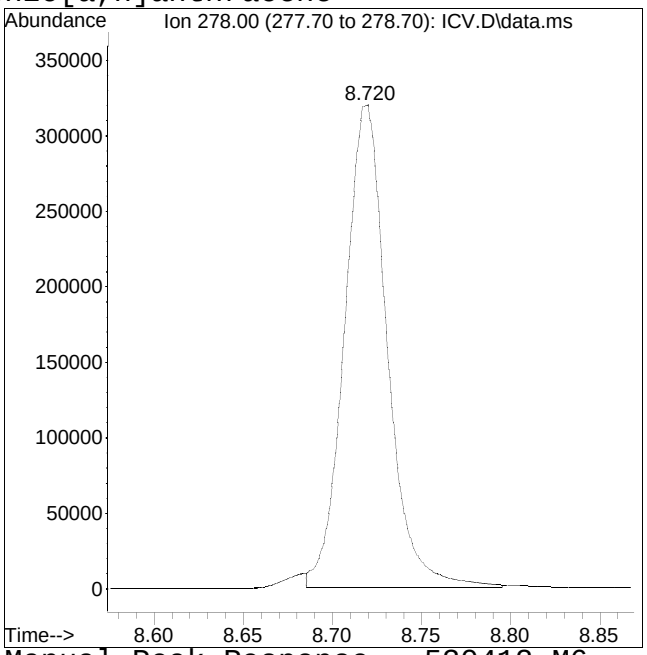
Manual Integration Report

Data Path : I:\8270SIM\SV125\240917nRVQMethod : SIM-RVT_240917n_sv125.M
Data File : ICV.D Operator : SV125:dv
Date Inj'd : 9/17/2024 9:25 pm Instrument : SV125
Sample : CQICV,32,, 1.000 Lot#10884Quant Date : 9/19/2024 2:00 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 547065



Manual Peak Response = 530412 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV125

Method Path : I:\8270SIM\SV125\240917nRVTical\
Method File : SIM-RVT_240917n_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Sep 19 13:55:09 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	Q	ng/ml	1000.0	925.660	-7.4	40.00	48.846	22.1
19 T	2,4-Dinitrotoluene	Q	ng/ml	1000.0	934.785	-6.5	40.00	49.381	23.5
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	939.941	-6.0	40.00	47.557	18.9
25 T	Pentachlorophenol	Q	ng/ml	1000.0	963.208	-3.7	10.00	14.428	44.3
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	1018.478	1.8	1.00	0.996	-0.4
33 T	3,3'-Dichlorobenzene	L	ng/ml	1000.0	927.716	-7.2	40.00	47.974	19.9
35 T	Bis(2-ethylhexyl)phthalate	Q	ng/ml	1000.0	910.465	-9.0	40.00	50.736	26.8
41 T	Dibenzo[a,h]anthracene	Q	ng/ml	1000.0	992.650	-0.7	1.00	1.453	45.3

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Quadratic	0.996416	0.019847	0.083842	-0.000499981
19 T	2,4-Dinitrotoluene	Quadratic	0.996416	0.038883	0.16871	-0.00110528
23 T	4,6-Dinitro-o-cresol	Quadratic	0.997511	0.006299	0.0341114	-0.000203654
25 T	Pentachlorophenol	Quadratic	0.995664	0.021295	0.0894112	-0.000174271
32 T	Benzo[a]anthracene	Linear	0.999177	0.000000	1.17431	0.00295257
33 T	3,3'-Dichlorobenzene	Linear	0.998349	0.000000	0.457867	-0.00275515
35 T	Bis(2-ethylhexyl)phthalate	Quadratic	0.995241	0.077851	0.388449	-0.0029192
41 T	Dibenzo[a,h]anthracene	Quadratic	0.999237	0.182829	0.890607	-0.00017077

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV125	**Calibration Date**	: 09/23/24 09:46		
Lab File ID	: CCV0923A	**Init. Calib. Date(s)**	: 09/17/24	09/17/24	
Sample No	: WG1975073-3	**Init. Calib. Times**	: 18:45	21:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	117	0
2-Fluorophenol	0.984	0.892	.05	9.3	20	109	0
Phenol-d6	1.214	1.127	.05	7.2	20	113	0
Bis(2-chloroethyl)ether	1.079	1.051	.05	2.6	20	118	0
n-nitrosodi-n-propylamine	0.736	0.726	.05	1.4	20	117	0
Hexachloroethane	0.437	0.431	.05	1.4	20	119	0
Nitrobenzene-d5	0.624	0.795	.05	-27.4*	20	141	0
Naphthalene-d8	1	1	.05	0	20	118	0
Naphthalene	1.065	0.984	.05	7.6	20	118	0
Hexachlorobutadiene	0.215	0.207	.05	3.7	20	118	0
2-Methylnaphthalene	0.682	0.679	.05	0.4	20	121	0
1-Methylnaphthalene	0.633	0.633	.05	0	20	121	0
2-Fluorobiphenyl	0.848	0.838	.05	1.2	20	121	0
2-Chloronaphthalene	0.723	0.734	.05	-1.5	20	122	0
2,6-Dinitrotoluene	1000	1319.084	.05	-31.9*	20	173	0
Acenaphthylene	1.049	1.103	.05	-5.1	20	123	0
Acenaphthene-d10	1	1	.05	0	20	123	0
Acenaphthene	1.22	1.185	.05	2.9	20	125	0
2,4-Dinitrotoluene	1000	1416.124	.05	-41.6*	20	193	0
Fluorene	1.337	1.364	.05	-2	20	128	0
2,4,6-Tribromophenol	0.174	0.174	.05	0	20	116	0
Phenanthrene-d10	1	1	.05	0	20	130	0
4,6-Dinitro-o-cresol	1000	1521.182	.05	-52.1*	20	219	0
Hexachlorobenzene	0.256	0.246	.05	3.9	20	132	0
Pentachlorophenol	1000	769.424	.05	23.1*	20	103	0
Phenanthrene	1.032	1.012	.05	1.9	20	134	0
Anthracene	1.024	1.016	.05	0.8	20	132	0
Fluoranthene	1.17	1.265	.05	-8.1	20	141	0
Pyrene	1.235	1.362	.05	-10.3	20	141	0
4-Terphenyl-d14	0.813	0.882	.05	-8.5	20	141	0
Chrysene-d12	1	1	.05	0	20	143	0
Benzo[a]anthracene	1000	1037.64	.05	-3.8	20	146	0
3,3'-Dichlorobenzene	1000	891.422	.05	10.9	20	137	0
Chrysene	1.139	1.18	.05	-3.6	20	147	0
Bis(2-ethylhexyl)phthalate	1000	1178.326	.05	-17.8	20	189	0
Perylene-d12	1	1	.05	0	20	144	0
Benzo[b]fluoranthene	0.936	1.077	.05	-15.1	20	146	0
Benzo[k]fluoranthene	0.917	1.042	.05	-13.6	20	150	0
Benzo[a]pyrene	0.814	0.949	.05	-16.6	20	147	0
Indeno[1,2,3-cd]pyrene	0.855	1.006	.05	-17.7	20	146	0
Dibenzo[a,h]anthracene	1000	1053.776	.05	-5.4	20	153	0
Benzo[g,h,i]perylene	0.886	1.006	.05	-13.5	20	147	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : ccv0923a.D
Acq On : 23 Sep 2024 09:46 am
Operator : SV125:rp
Sample : WG1975073-3,32,,CCV 10888 (0905)
Misc : WG1975073,,ical21503
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 23 10:08:56 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:49 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
2	s	2-Fluorophenol	0.984	0.892	9.3	109	0.00
3	s	Phenol-d6	1.214	1.127	7.2	113	0.00
4	T	Bis(2-chloroethyl)ether	1.079	1.051	2.6	118	0.00
5	T	n-nitrosodi-n-propylamine	0.736	0.726	1.4	117	0.00
6	t	Hexachloroethane	0.437	0.431	1.4	119	0.00
7	s	Nitrobenzene-d5	0.624	0.795	-27.4#	141	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	118	0.00
9	t	Naphthalene	1.065	0.984	7.6	118	0.00
10	t	Hexachlorobutadiene	0.215	0.207	3.7	118	0.00
11	t	2-Methylnaphthalene	0.682	0.679	0.4	121	0.00
12	t	1-Methylnaphthalene	0.633	0.633	0.0	121	0.00
13	s	2-Fluorobiphenyl	0.848	0.838	1.2	121	0.00
14	t	2-Chloronaphthalene	0.723	0.734	-1.5	122	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1319.084	-31.9#	173	0.00
16	t	Acenaphthylene	1.049	1.103	-5.1	123	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	123	0.00
18	t	Acenaphthene	1.220	1.185	2.9	125	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1416.124	-41.6#	193	0.00
20	t	Fluorene	1.337	1.364	-2.0	128	0.00
21	s	2,4,6-Tribromophenol	0.174	0.174	0.0	116	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1521.182	-52.1#	219	0.00
24	t	Hexachlorobenzene	0.256	0.246	3.9	132	0.00
25	t	Pentachlorophenol	*1000.000	769.424	23.1#	103	0.00
26	t	Phenanthrene	1.032	1.012	1.9	134	0.00
27	t	Anthracene	1.024	1.016	0.8	132	0.00
28	t	Fluoranthene	1.170	1.265	-8.1	141	0.00
29	t	Pyrene	1.235	1.362	-10.3	141	0.00
30	s	4-Terphenyl-d14	0.813	0.882	-8.5	141	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	143	0.00
32	t	Benzo[a]anthracene	*1000.000	1037.640	-3.8	146	0.00
33	t	3,3'-Dichlorobenzene	*1000.000	891.422	10.9	137	0.00
34	t	Chrysene	1.139	1.180	-3.6	147	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1178.326	-17.8	189	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : ccv0923a.D
Acq On : 23 Sep 2024 09:46 am
Operator : SV125:rp
Sample : WG1975073-3,32,,CCV 10888 (0905)
Misc : WG1975073,,ical21503
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 23 10:08:56 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:49 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	144	0.00
37	t	Benzo[b]fluoranthene	0.936	1.077	-15.1	146	0.00
38	t	Benzo[k]fluoranthene	0.917	1.042	-13.6	150	0.00
39	t	Benzo[a]pyrene	0.814	0.949	-16.6	147	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.855	1.006	-17.7	146	0.00
41	t	Dibenzo[a,h]anthracene	*1000.000	1053.776	-5.4	153	0.00
42	t	Benzo[g,h,i]perylene	0.886	1.006	-13.5	147	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : ccv0923a.D
Acq On : 23 Sep 2024 09:46 am
Operator : SV125:rp
Sample : WG1975073-3,32,,CCV 10888 (0905)
Misc : WG1975073,,ical21503
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 23 10:08:56 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:49 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.230	152	460069	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.898	136	1621592	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.881	164	1067942	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.724	188	2401860	4000.000	ng/ml	0.00
31) Chrysene-d12	6.283	240	2825989	4000.000	ng/ml	0.00
36) Perylene-d12	7.488	264	3363993	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.632	112	102634	906.575	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.33%			
3) Phenol-d6	2.039	99	129609	928.315	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.42%			
7) Nitrobenzene-d5	2.513	82	91452	1273.553	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 127.36%			
13) 2-Fluorobiphenyl	3.499	172	339680	988.566	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.86%			
21) 2,4,6-Tribromophenol	4.326	330	46454	1001.878	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.09%			
30) 4-Terphenyl-d14	5.641	244	529824	1085.483	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 108.55%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.094	93	120841	974.045	ng/ml	100
5) n-nitrosodi-n-propylamine	2.432	70	83514	986.433	ng/ml	99
6) Hexachloroethane	2.493	117	49521	986.169	ng/ml	98
9) Naphthalene	2.911	128	398884	923.551	ng/ml#	100
10) Hexachlorobutadiene	2.985	225	83936	961.928	ng/ml	100
11) 2-Methylnaphthalene	3.292	142	275324	995.307	ng/ml	100
12) 1-Methylnaphthalene	3.346	142	256463	999.491	ng/ml	100
14) 2-Chloronaphthalene	3.566	162	297478	1015.599	ng/ml	100
15) 2,6-Dinitrotoluene	3.760	165	47524	1319.084	ng/ml	98
16) Acenaphthylene	3.800	152	447259	1051.388	ng/ml	100
18) Acenaphthene	3.900	153	316448	971.692	ng/ml	100
19) 2,4-Dinitrotoluene	3.986	165	67811	1416.124	ng/ml#	78
20) Fluorene	4.189	166	364100	1019.861	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.218	198	32857	1521.182	ng/ml	96
24) Hexachlorobenzene	4.510	284	147553	959.986	ng/ml	100
25) Pentachlorophenol	4.621	266	42783	769.424	ng/ml	99
26) Phenanthrene	4.737	178	607618	980.642	ng/ml	100
27) Anthracene	4.765	178	610002	992.274	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : ccv0923a.D
Acq On : 23 Sep 2024 09:46 am
Operator : SV125:rp
Sample : WG1975073-3,32,,CCV 10888 (0905)
Misc : WG1975073,,ical21503
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 23 10:08:56 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:49 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.418	202	759377	1080.449	ng/ml	100
29) Pyrene	5.550	202	817676	1102.709	ng/ml	100
32) Benzo[a]anthracene	6.275	228	869221	1037.640	ng/ml	100
33) 3,3'-Dichlorobenzene	6.258	252	280573	891.422	ng/ml	99
34) Chrysene	6.299	228	833922	1035.941	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.299	149	334220	1178.326	ng/ml	99
37) Benzo[b]fluoranthene	7.111	252	906041	1151.032	ng/ml	100
38) Benzo[k]fluoranthene	7.136	252	876030	1135.826	ng/ml	100
39) Benzo[a]pyrene	7.419	252	797725	1164.758	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.692	276	846297	1176.547	ng/ml	100
41) Dibenzo[a,h]anthracene	8.727	278	831388M6	1053.776	ng/ml	
42) Benzo[g,h,i]perylene	9.028	276	846353	1136.211	ng/ml	100

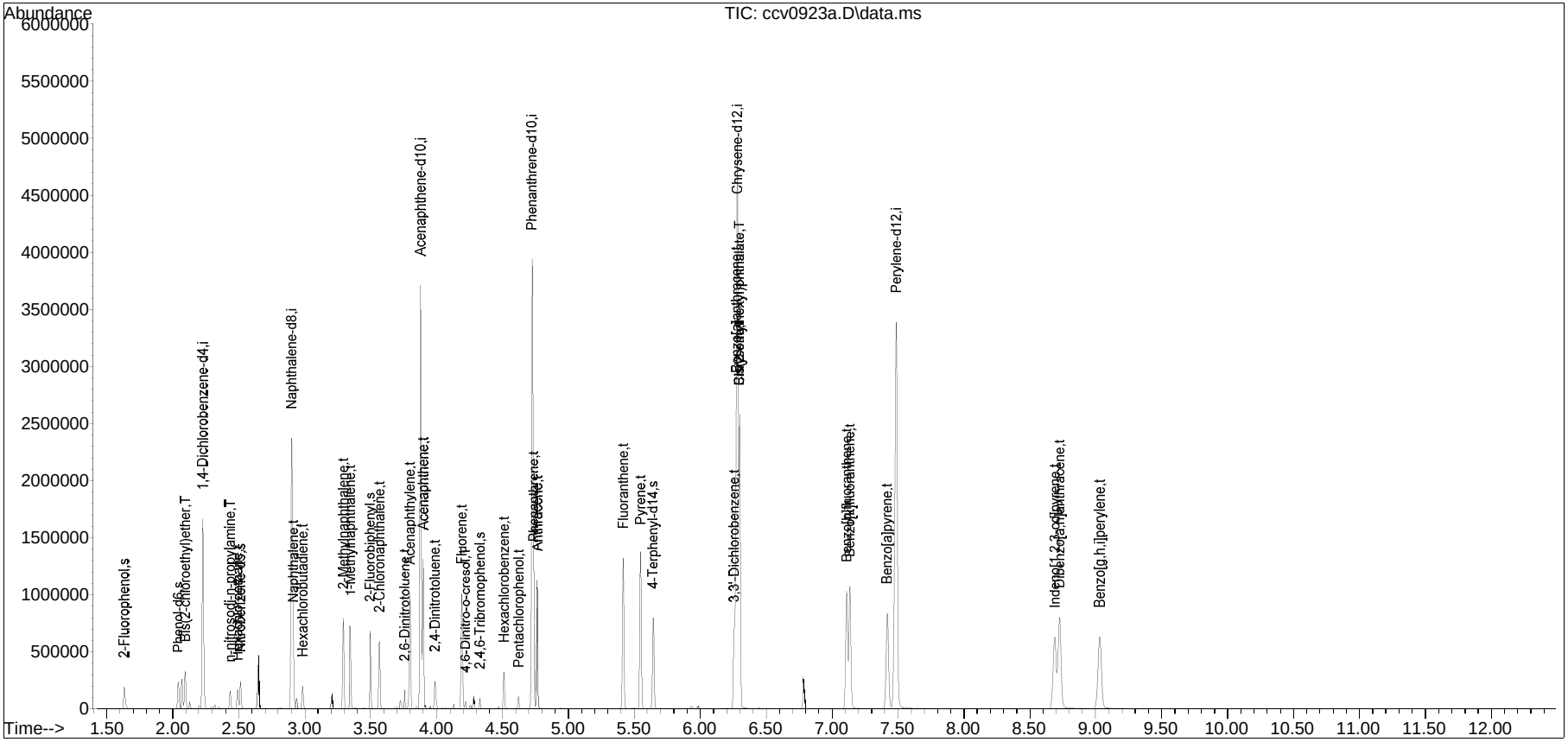
(#) = qualifier out of range (m) = manual integration (+) = signals summed

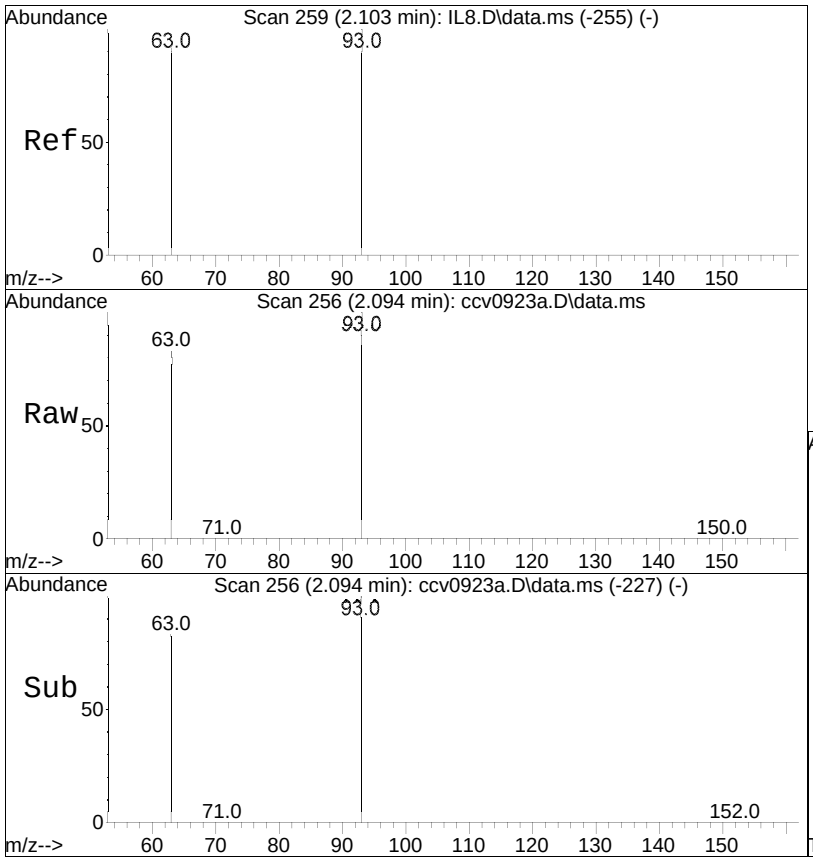
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : ccv0923a.D
Acq On : 23 Sep 2024 09:46 am
Operator : SV125:rp
Sample : WG1975073-3,32,,CCV 10888 (0905)
Misc : WG1975073,,ical21503
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 23 10:08:56 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:49 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

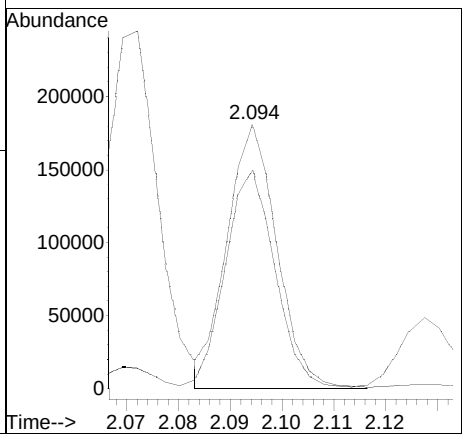


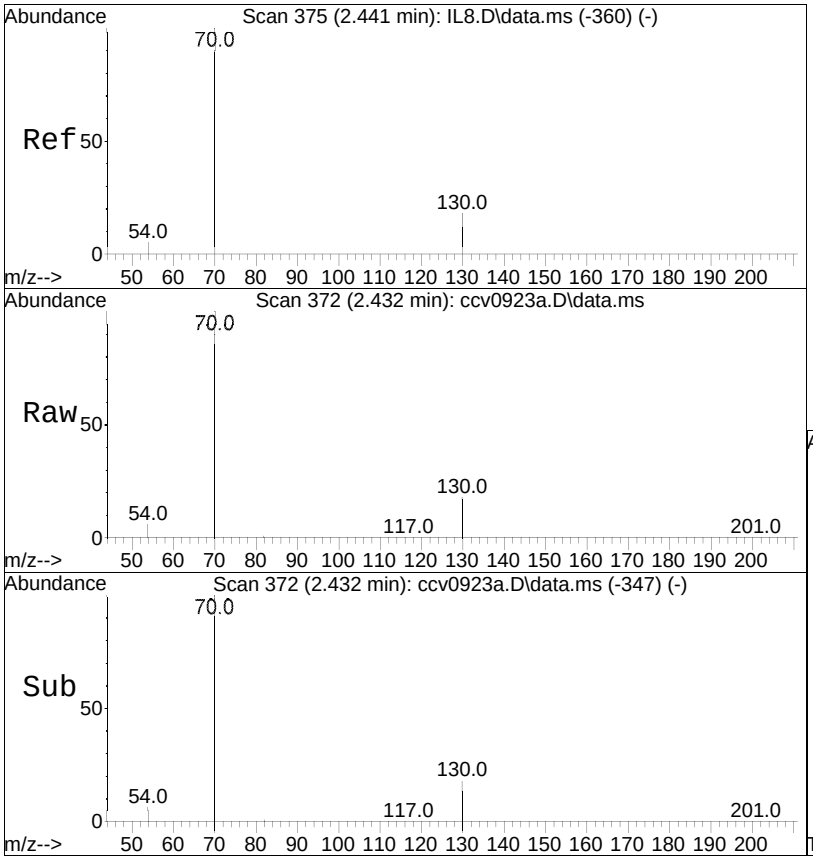


#4
Bis(2-chloroethyl)ether
Concen: 974.05 ng/ml
RT: 2.094 min Scan# 256
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion: 93 Resp: 120841

Ion	Ratio	Lower	Upper
93	100		
63	82.5	66.1	99.1

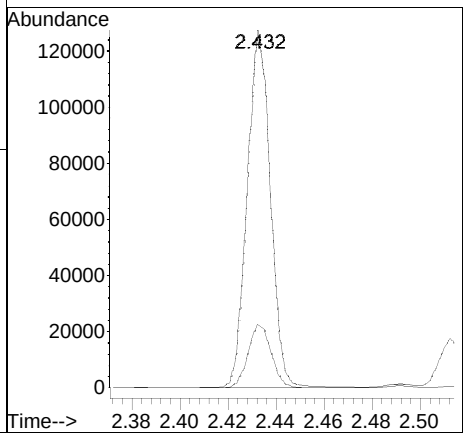


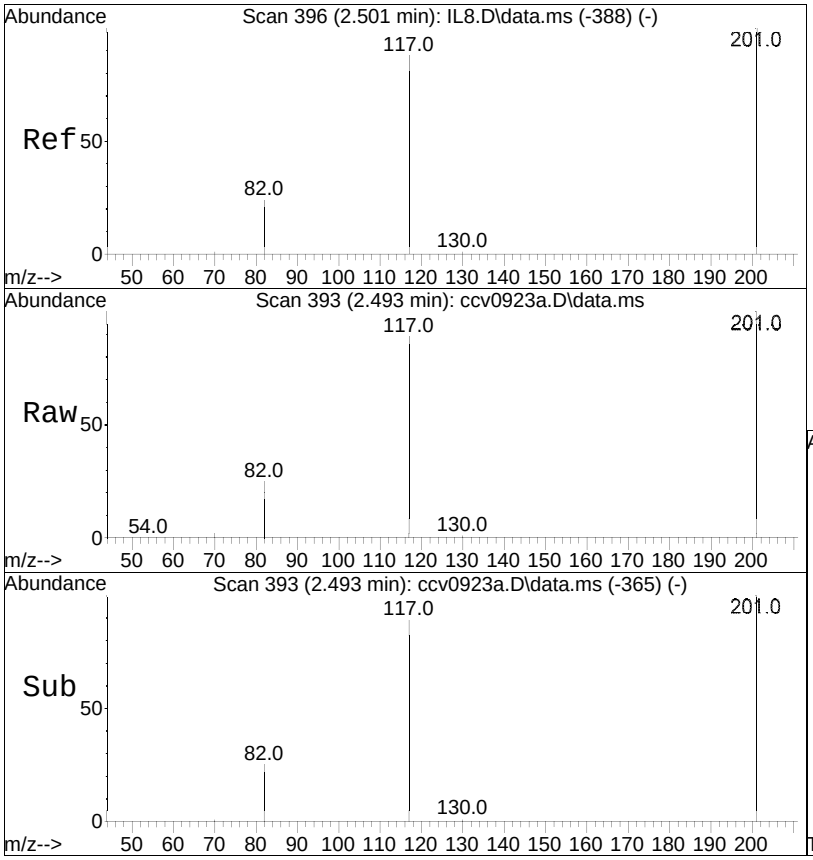


#5
n-nitrosodi-n-propylamine
Concen: 986.43 ng/ml
RT: 2.432 min Scan# 372
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion: 70 Resp: 83514

Ion	Ratio	Lower	Upper
70	100		
130	17.8	14.5	21.7

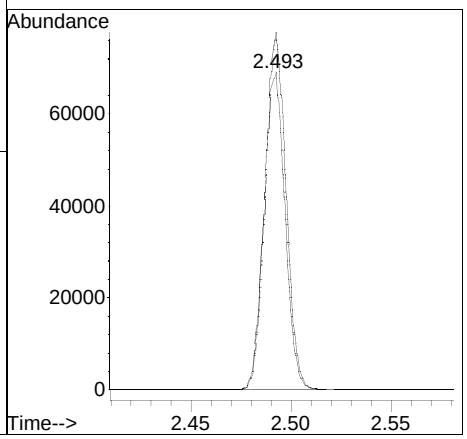


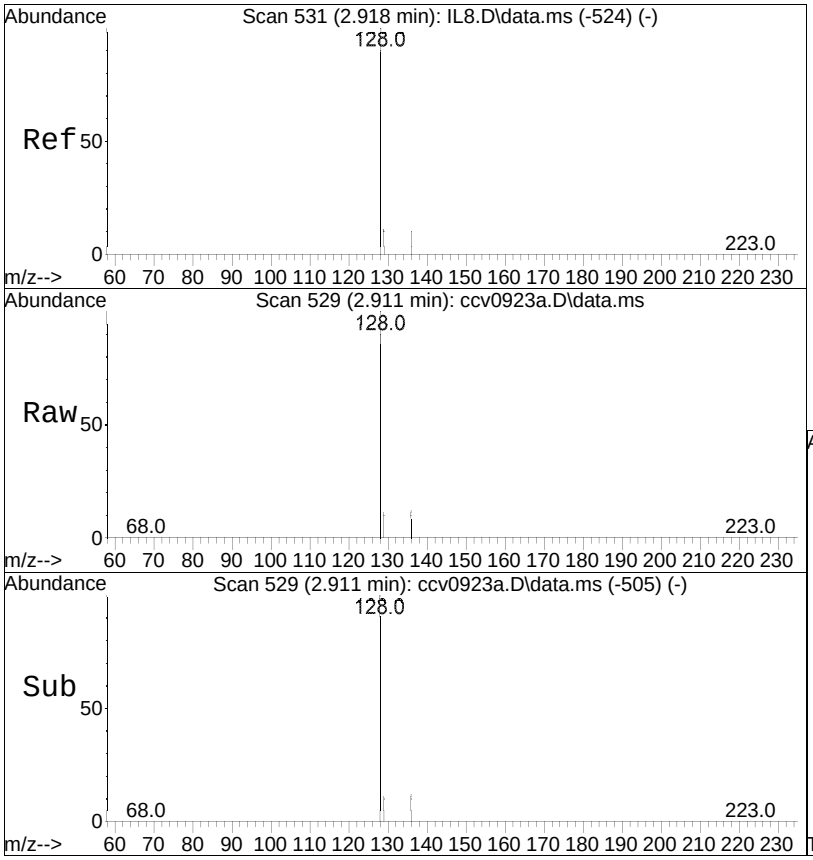


#6
Hexachloroethane
Concen: 986.17 ng/ml
RT: 2.493 min Scan# 393
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:117 Resp: 49521

Ion	Ratio	Lower	Upper
117	100		
201	110.5	89.9	134.9

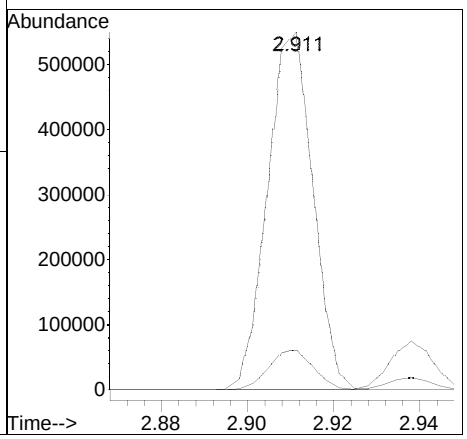


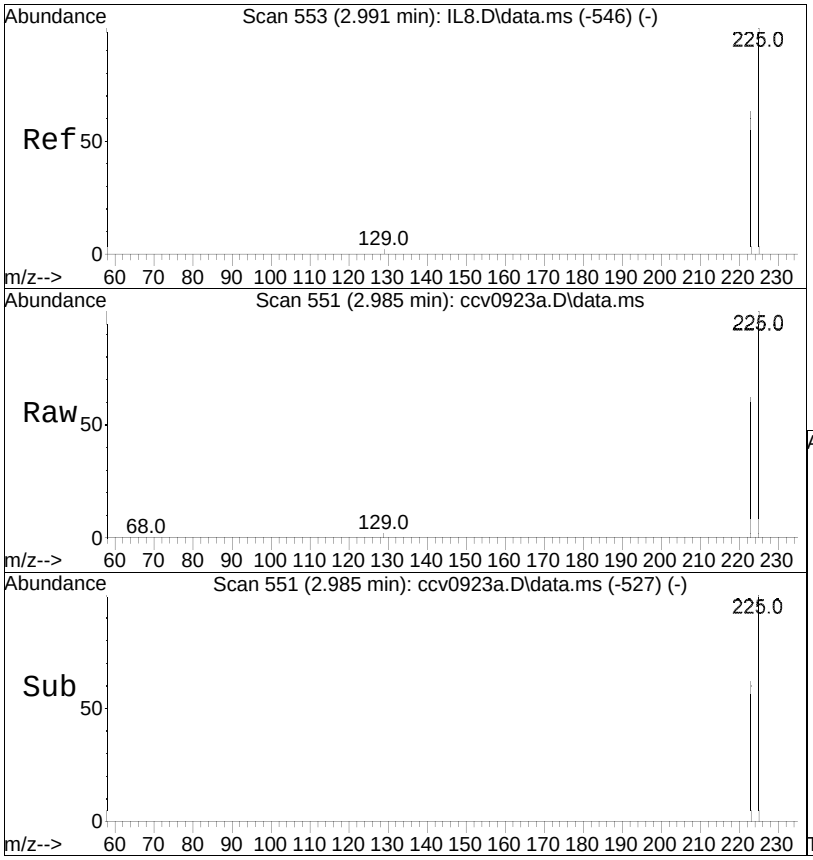


#9
Naphthalene
Concen: 923.55 ng/ml
RT: 2.911 min Scan# 529
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:128 Resp: 398884

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

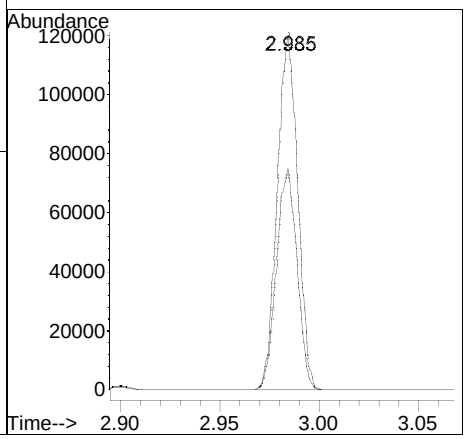


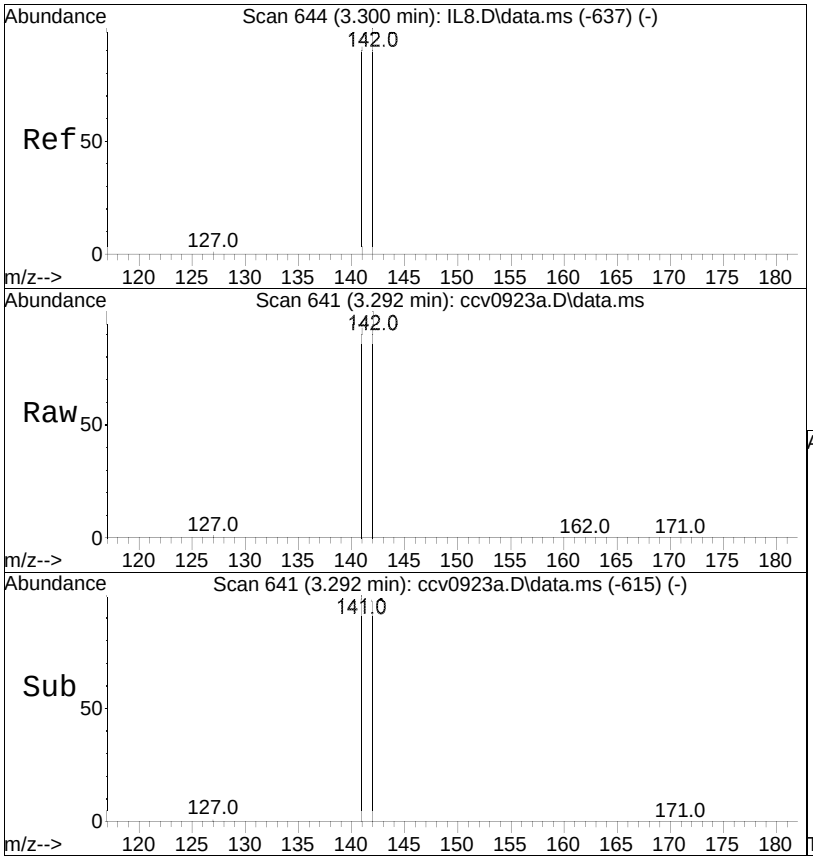


#10
Hexachlorobutadiene
Concen: 961.93 ng/ml
RT: 2.985 min Scan# 551
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:225 Resp: 83936

Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.9	74.9

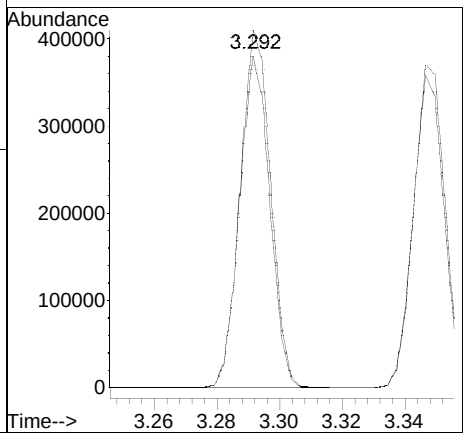


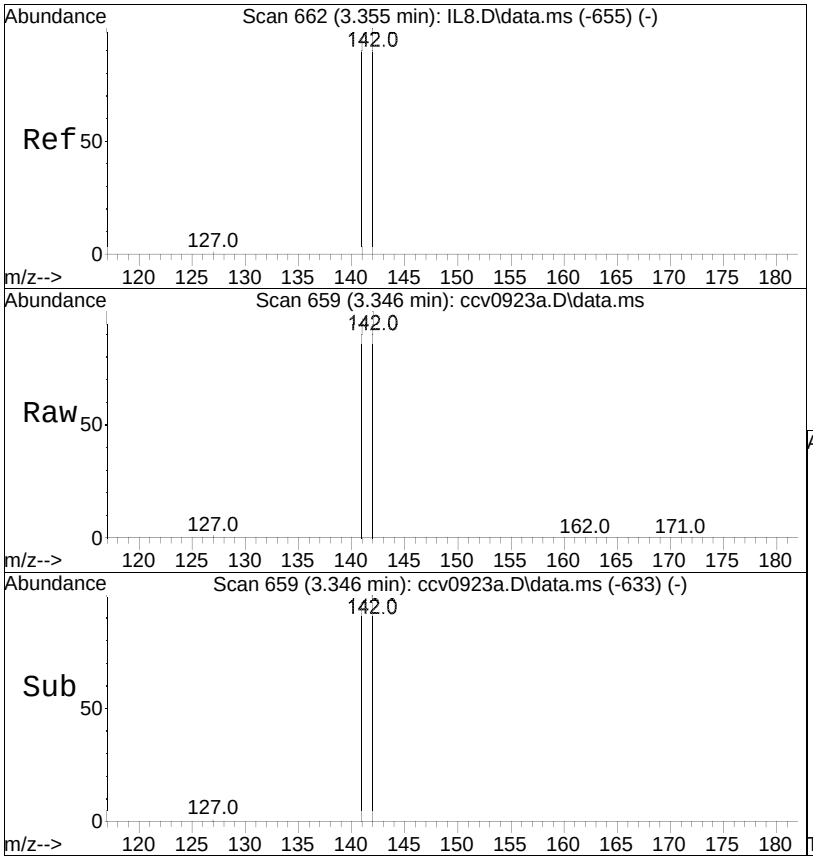


#11
2-Methylnaphthalene
Concen: 995.31 ng/ml
RT: 3.292 min Scan# 641
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:142 Resp: 275324

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.8	110.6

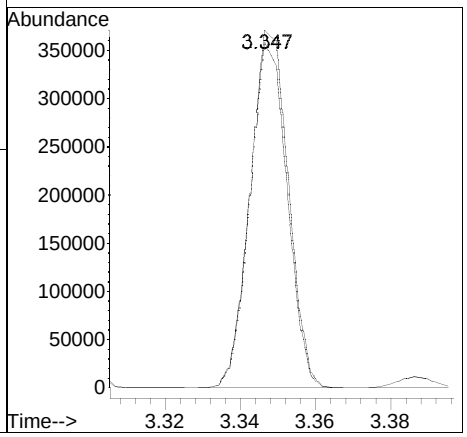


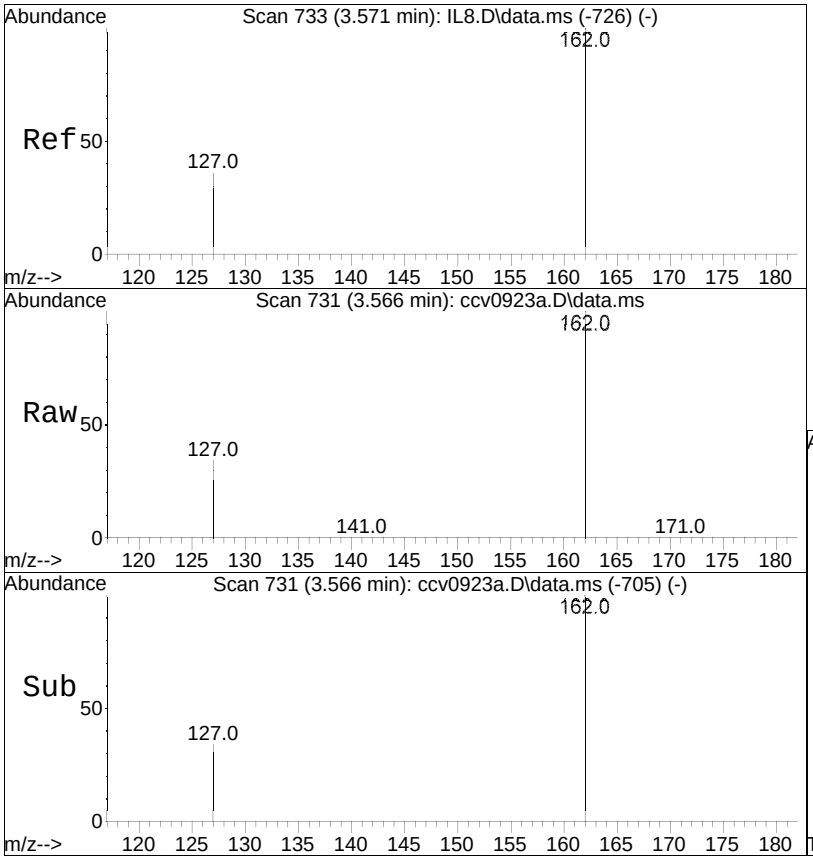


#12
1-Methylnaphthalene
Concen: 999.49 ng/ml
RT: 3.346 min Scan# 659
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:142 Resp: 256463

Ion	Ratio	Lower	Upper
142	100		
141	95.3	76.1	114.1

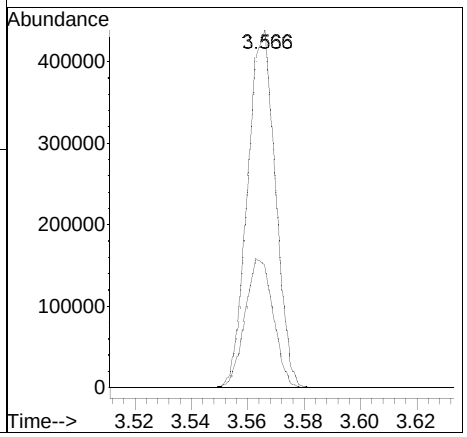


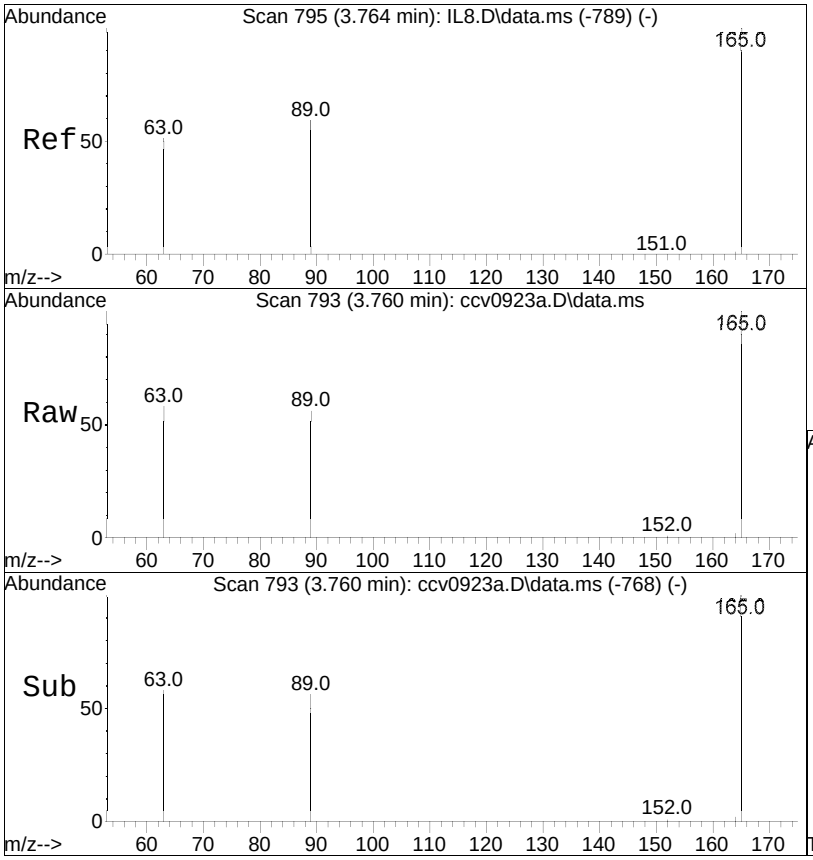


#14
2-Chloronaphthalene
Concen: 1015.60 ng/ml
RT: 3.566 min Scan# 731
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:162 Resp: 297478

Ion	Ratio	Lower	Upper
162	100		
127	36.6	29.4	44.0

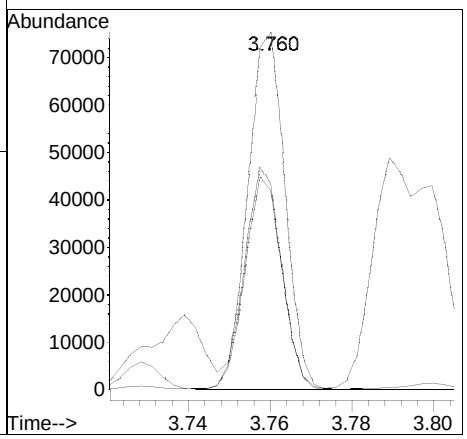


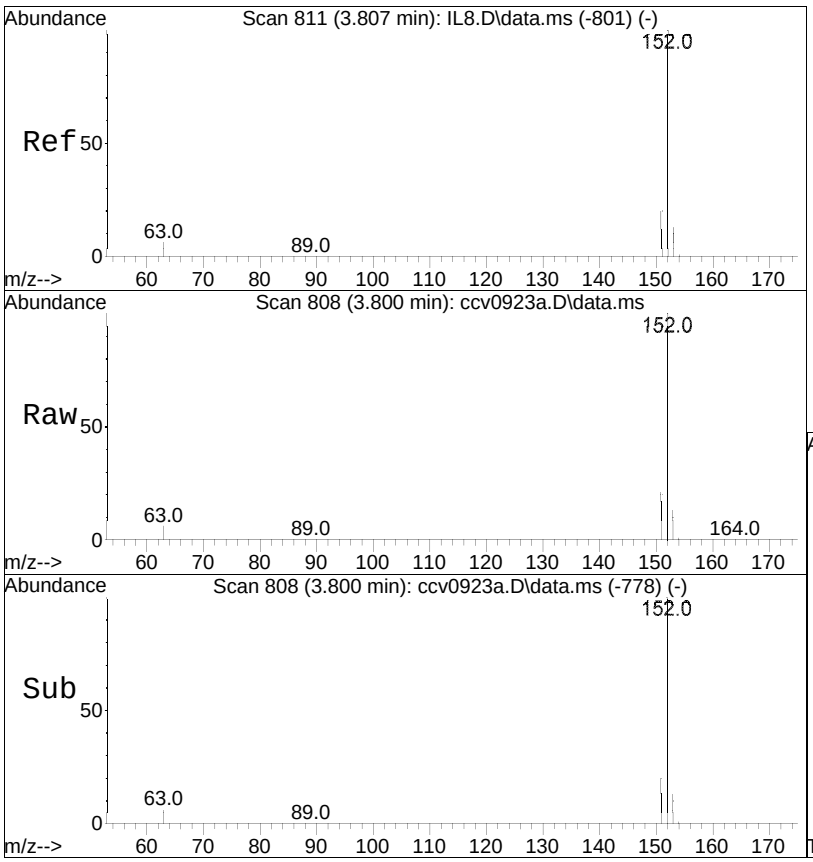


#15
2,6-Dinitrotoluene
Concen: 1319.08 ng/ml
RT: 3.760 min Scan# 793
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:165 Resp: 47524

Ion	Ratio	Lower	Upper
165	100		
89	59.0	48.5	72.7
63	60.9	49.5	74.3

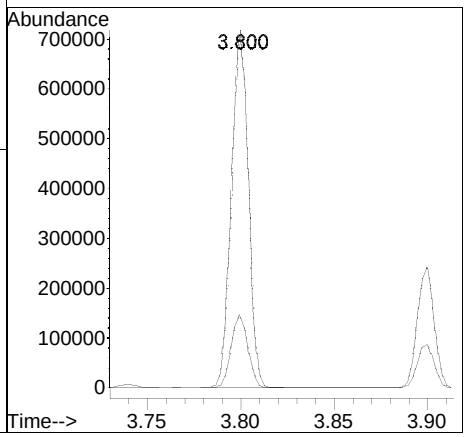


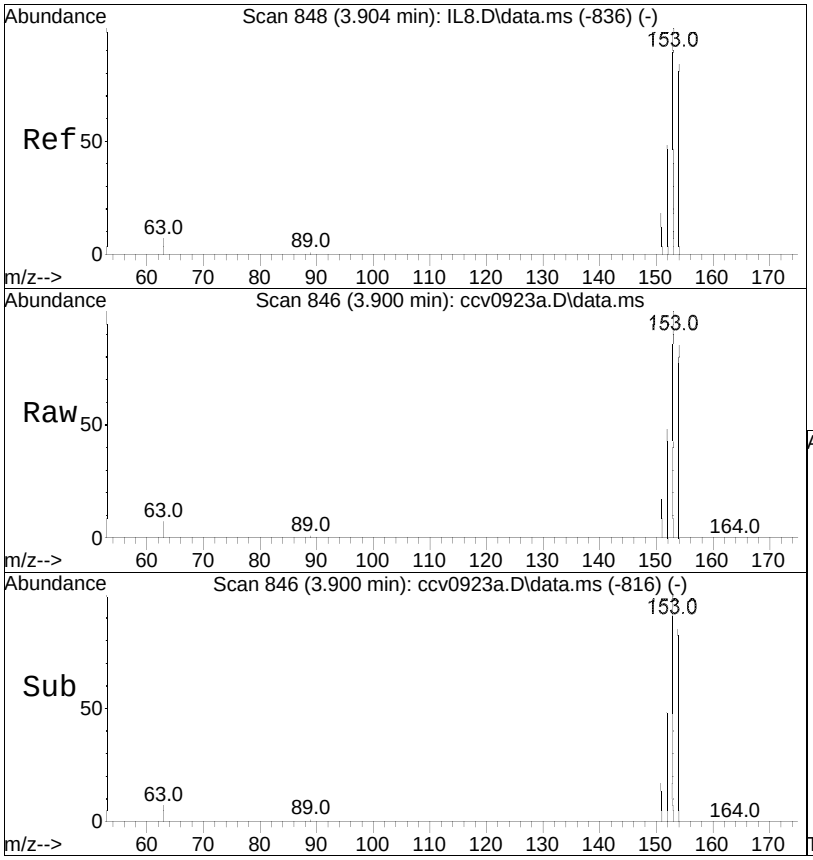


#16
Acenaphthylene
Concen: 1051.39 ng/ml
RT: 3.800 min Scan# 808
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:152 Resp: 447259

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4

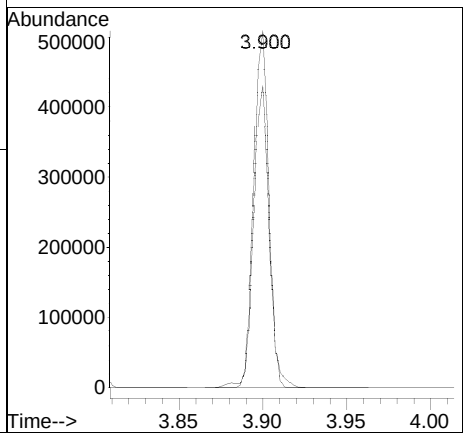


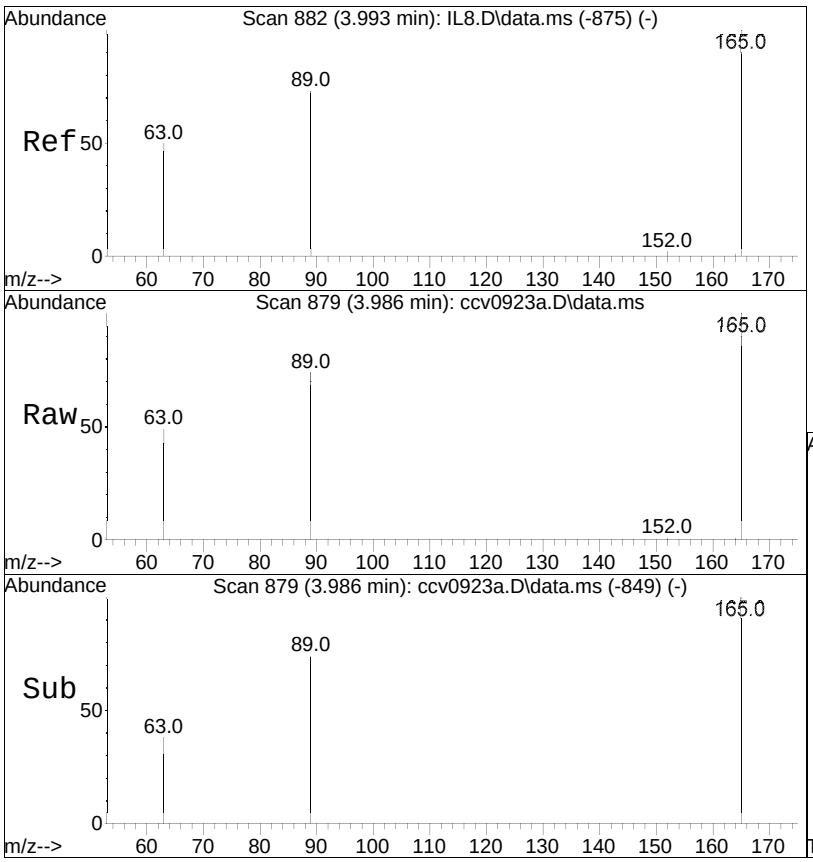


#18
Acenaphthene
Concen: 971.69 ng/ml
RT: 3.900 min Scan# 846
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:153 Resp: 316448

Ion	Ratio	Lower	Upper
153	100		
154	88.1	70.3	105.5

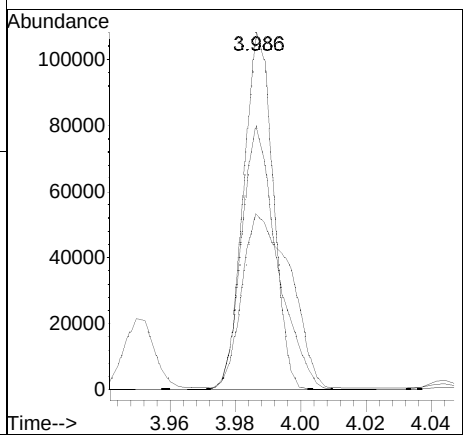


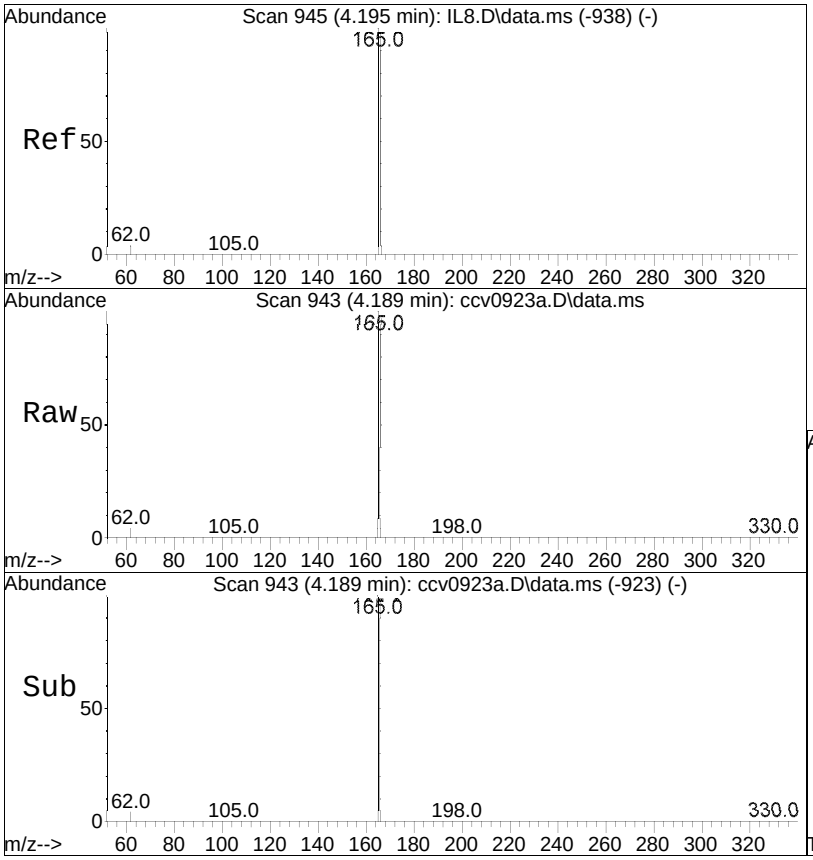


#19
2,4-Dinitrotoluene
Concen: 1416.12 ng/ml
RT: 3.986 min Scan# 879
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:165 Resp: 67811

Ion	Ratio	Lower	Upper
165	100		
89	88.8	64.2	96.2
63	79.0	40.1	60.1#

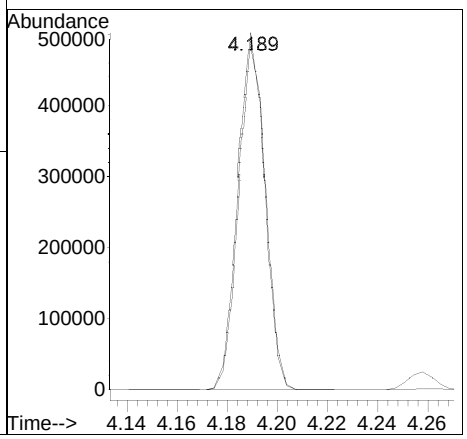


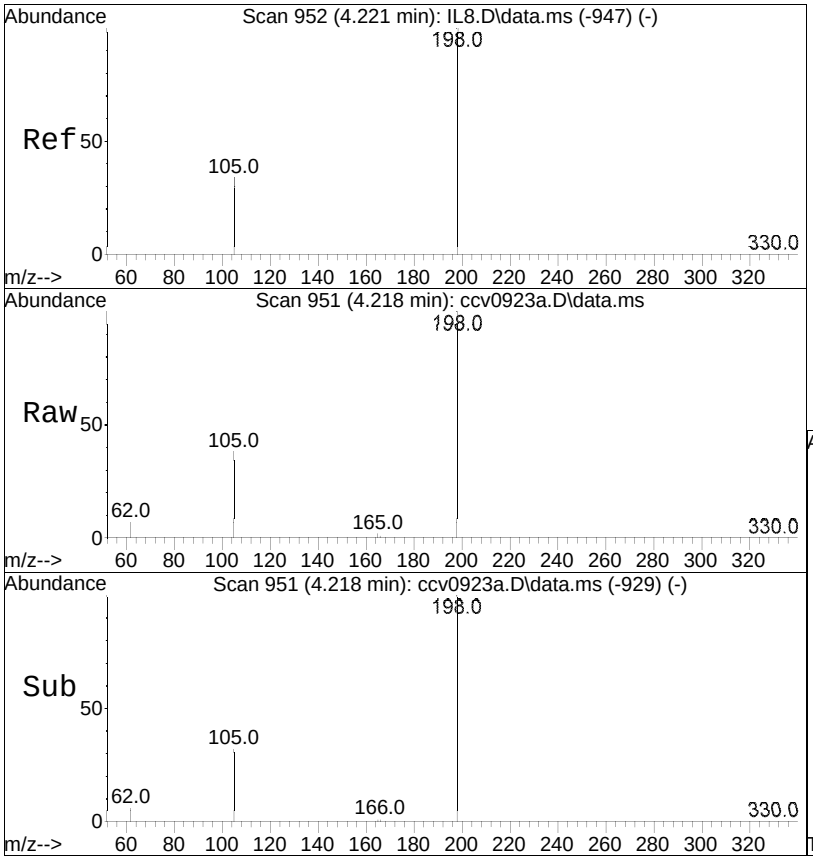


#20
Fluorene
Concen: 1019.86 ng/ml
RT: 4.189 min Scan# 943
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:166 Resp: 364100

Ion	Ratio	Lower	Upper
166	100		
165	102.6	82.0	123.0

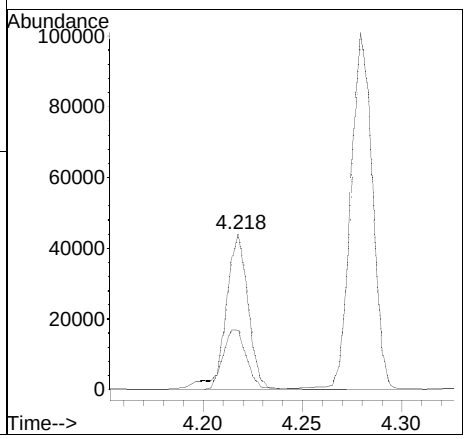


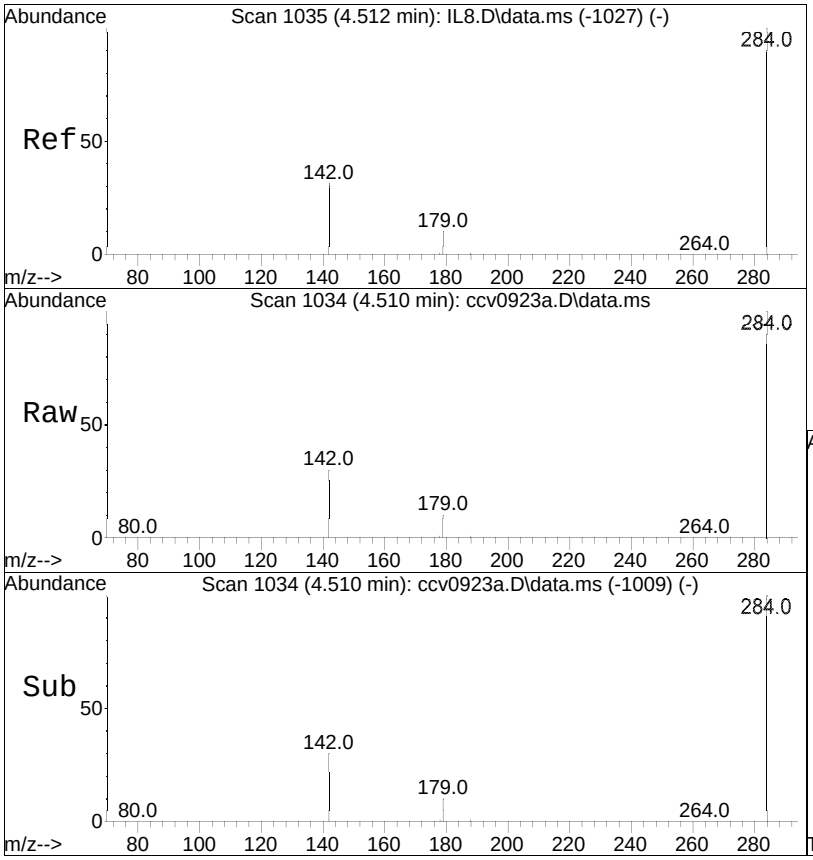


#23
4,6-Dinitro-o-cresol
Concen: 1521.18 ng/ml
RT: 4.218 min Scan# 951
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:198 Resp: 32857

Ion	Ratio	Lower	Upper
198	100		
105	46.6	39.5	59.3

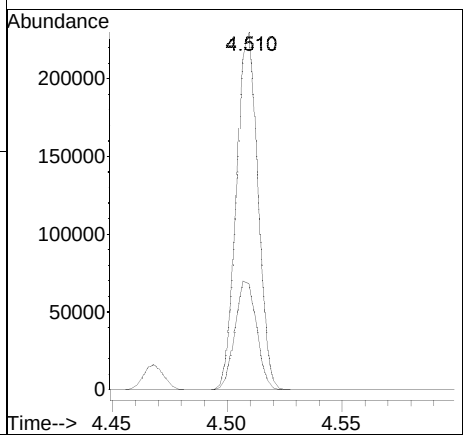


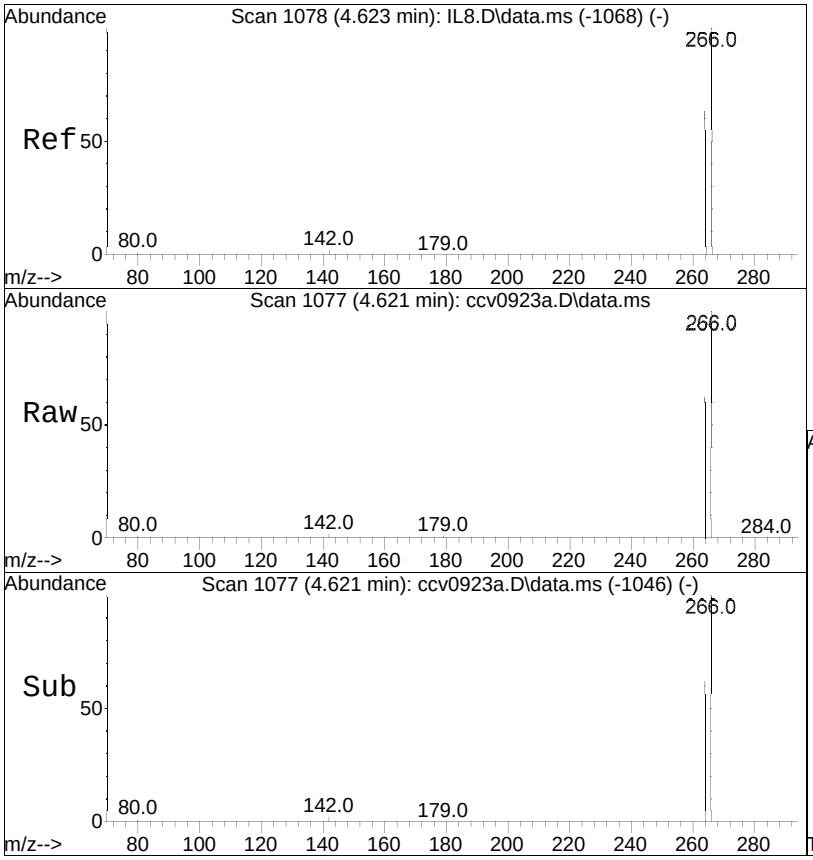


#24
Hexachlorobenzene
Concen: 959.99 ng/ml
RT: 4.510 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:284 Resp: 147553

Ion	Ratio	Lower	Upper
284	100		
142	30.8	24.4	36.6

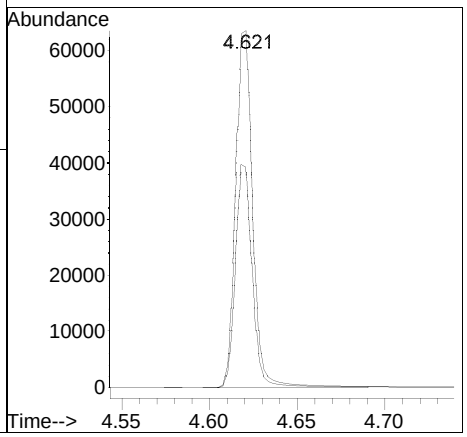


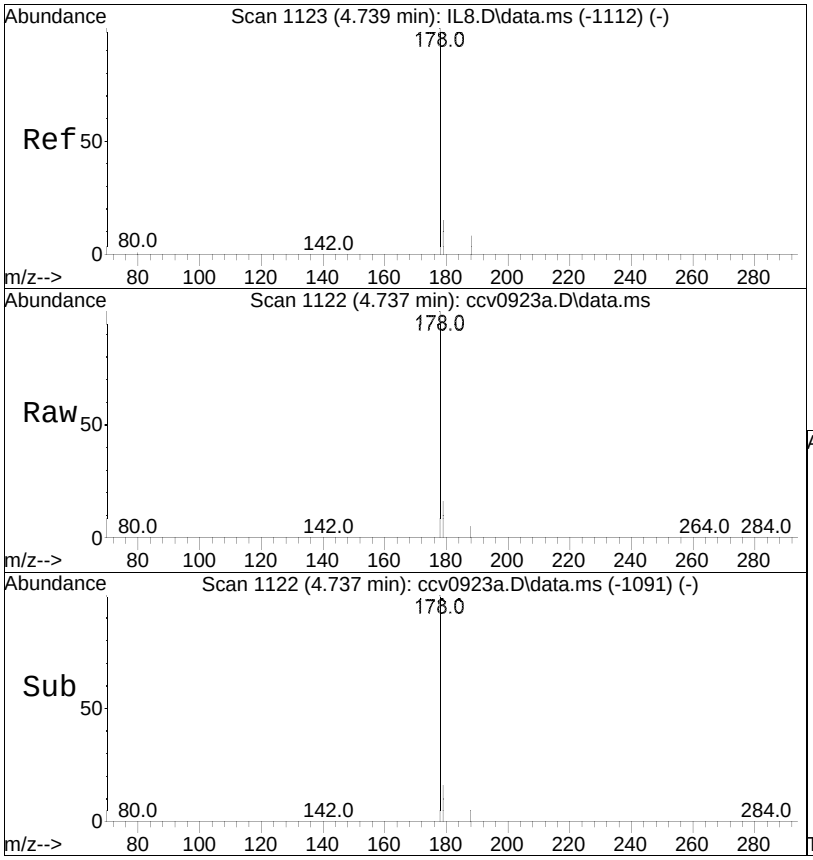


#25
Pentachlorophenol
Concen: 769.42 ng/ml
RT: 4.621 min Scan# 1077
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:266 Resp: 42783

Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.4	75.6

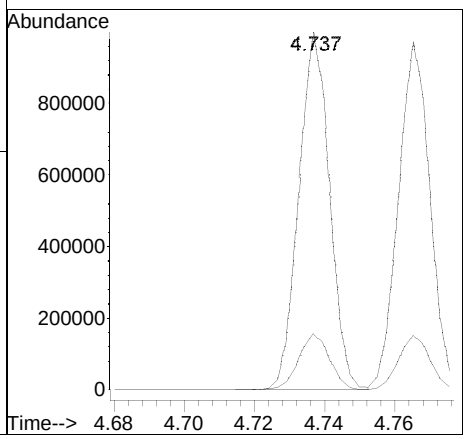


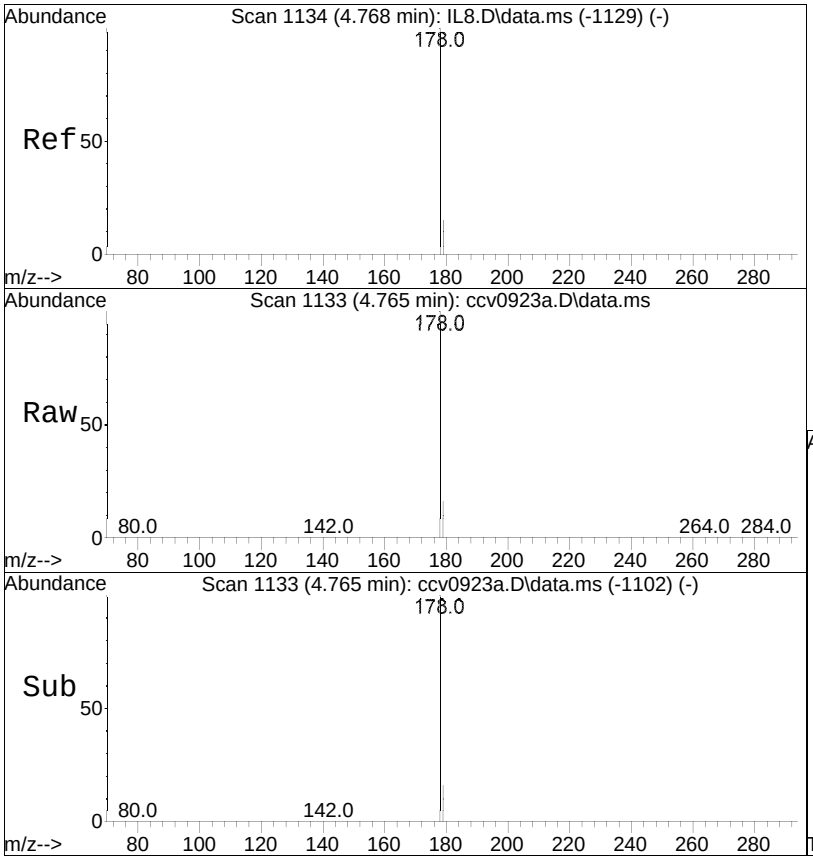


#26
Phenanthrene
Concen: 980.64 ng/ml
RT: 4.737 min Scan# 1122
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:178 Resp: 607618

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.6	18.8

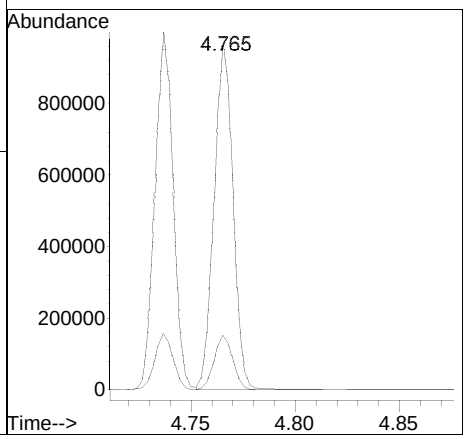


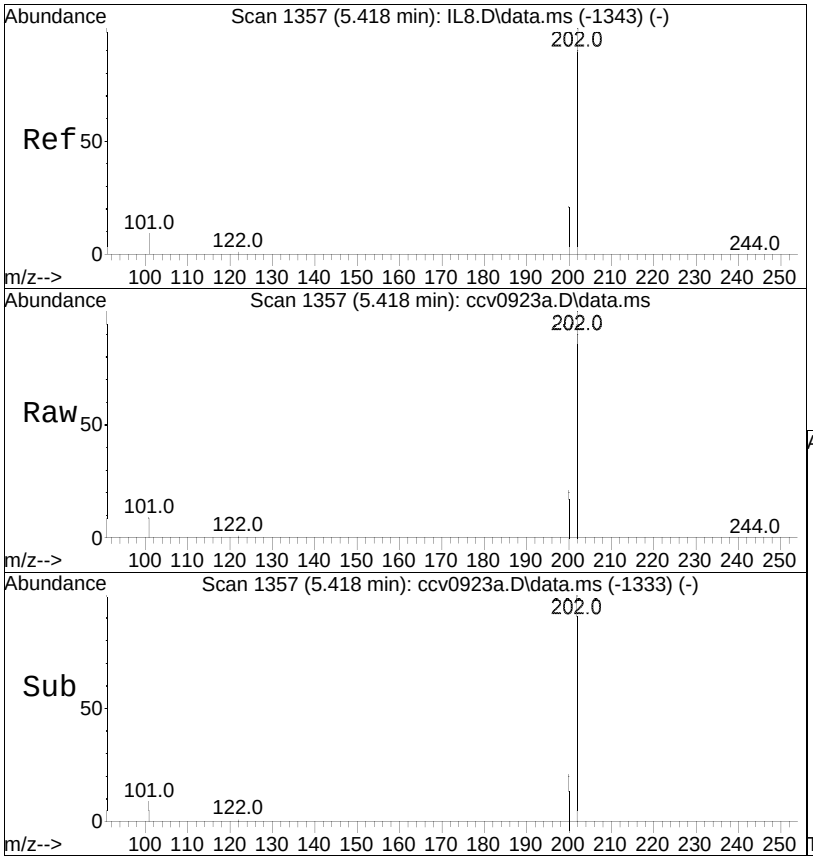


#27
Anthracene
Concen: 992.27 ng/ml
RT: 4.765 min Scan# 1133
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:178 Resp: 610002

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

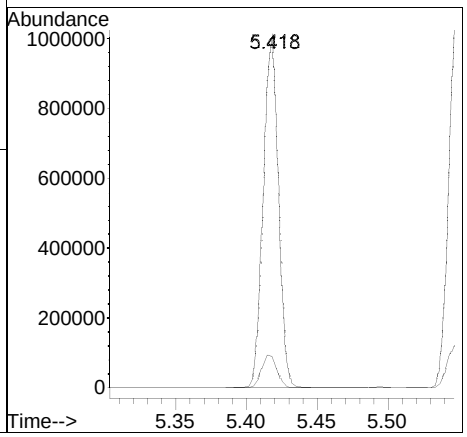


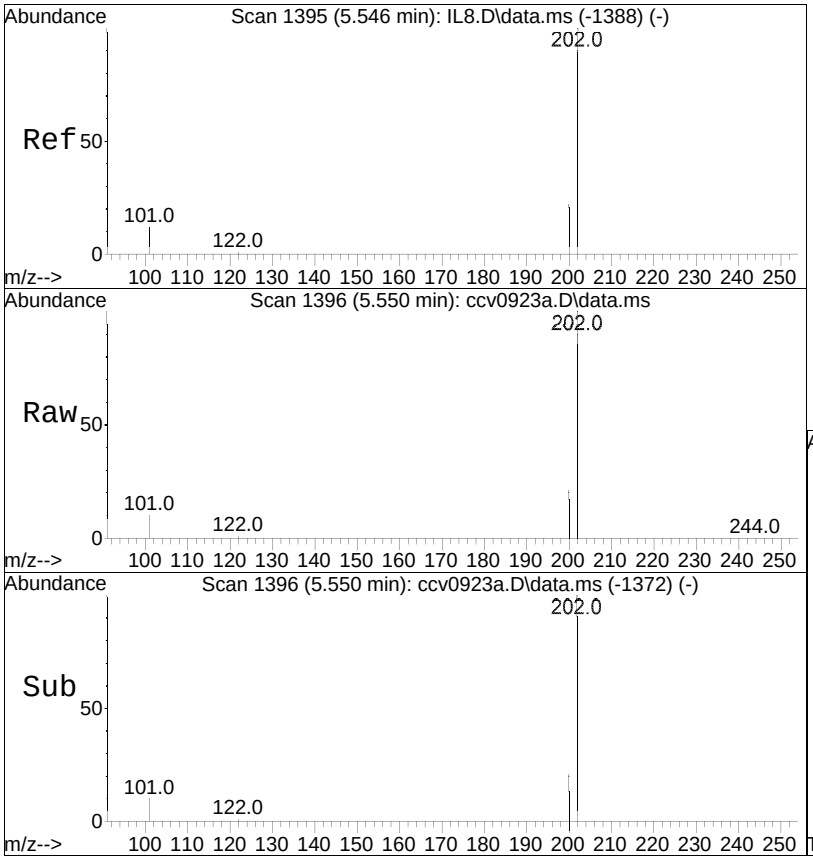


#28
Fluoranthene
Concen: 1080.45 ng/ml
RT: 5.418 min Scan# 1357
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:202 Resp: 759377

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.6	11.4

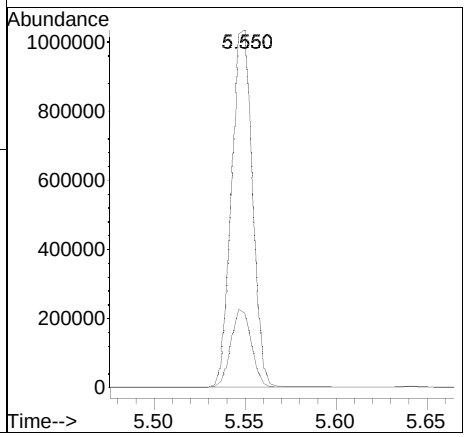


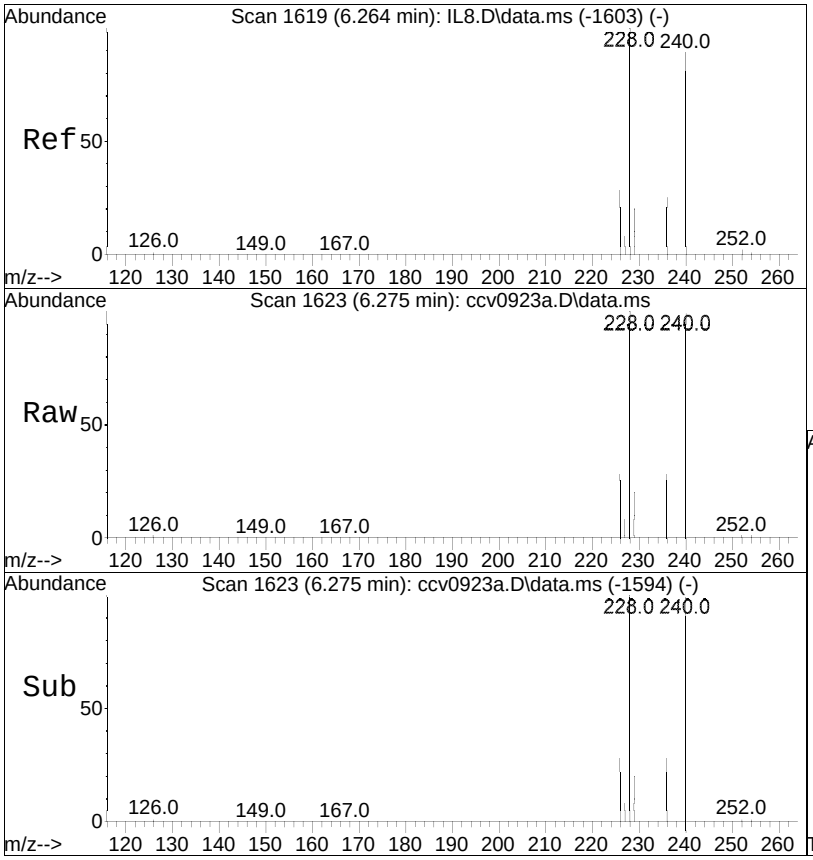


#29
Pyrene
Concen: 1102.71 ng/ml
RT: 5.550 min Scan# 1396
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:202 Resp: 817676

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8

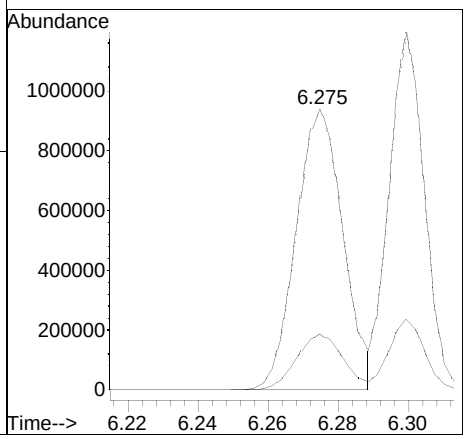


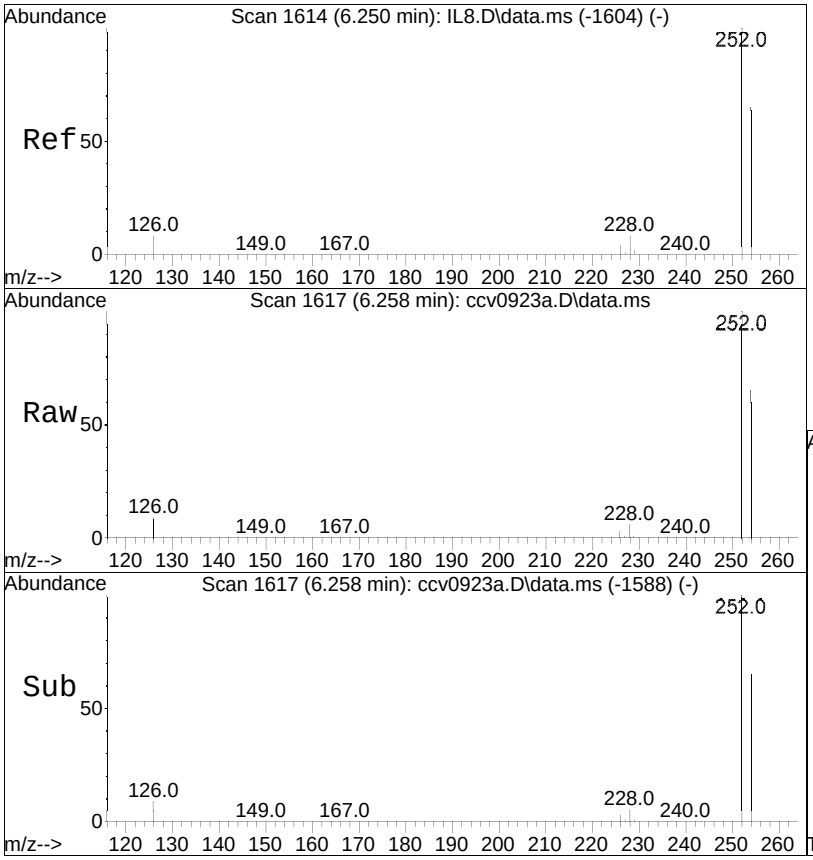


#32
Benzo[a]anthracene
Concen: 1037.64 ng/ml
RT: 6.275 min Scan# 1623
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:228 Resp: 869221

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.8	23.6

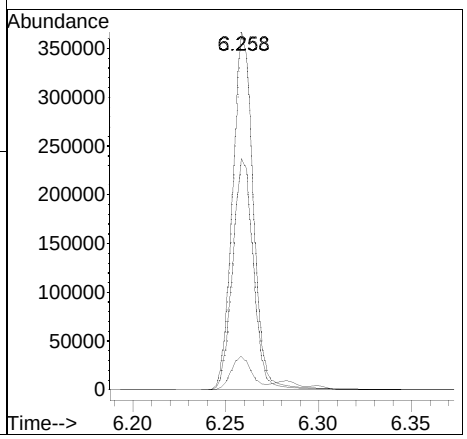


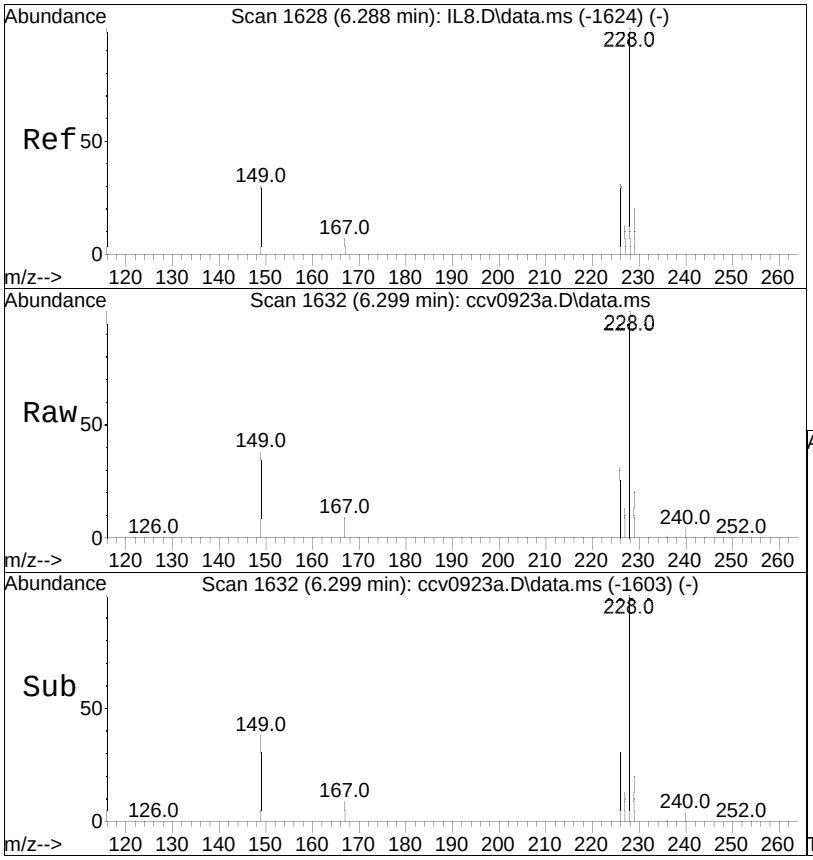


#33
3,3'-Dichlorobenzene
Concen: 891.42 ng/ml
RT: 6.258 min Scan# 1617
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:252 Resp: 280573

Ion	Ratio	Lower	Upper
252	100		
126	9.4	7.2	10.8
254	65.1	51.8	77.6

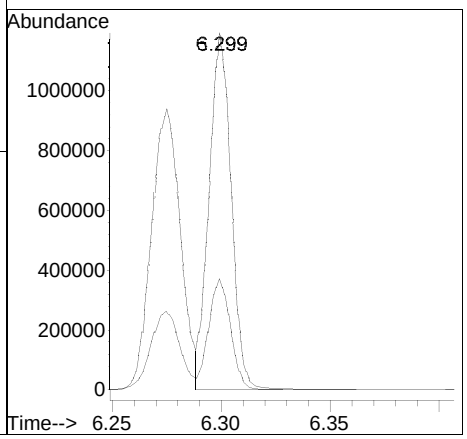


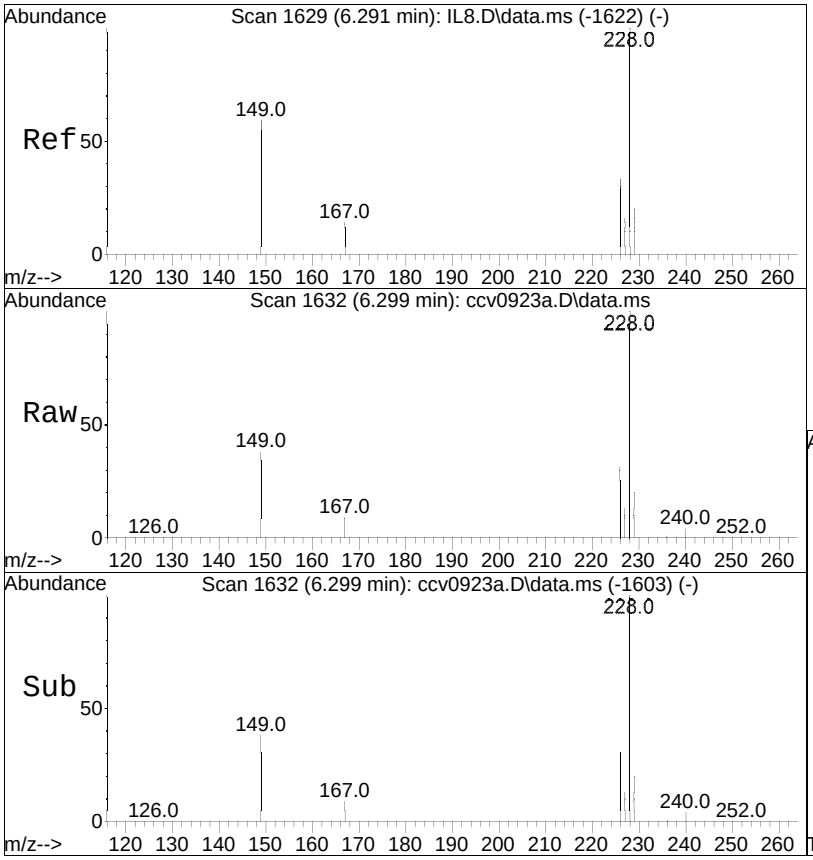


#34
Chrysene
Concen: 1035.94 ng/ml
RT: 6.299 min Scan# 1632
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:228 Resp: 833922

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.8	37.2

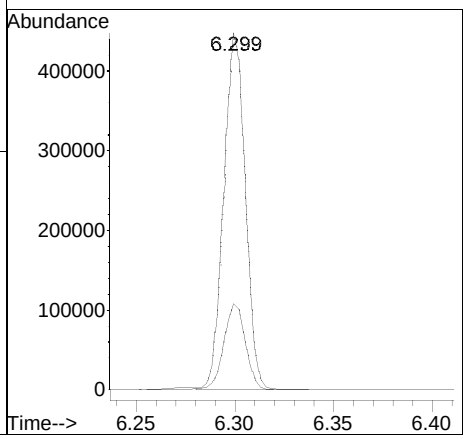


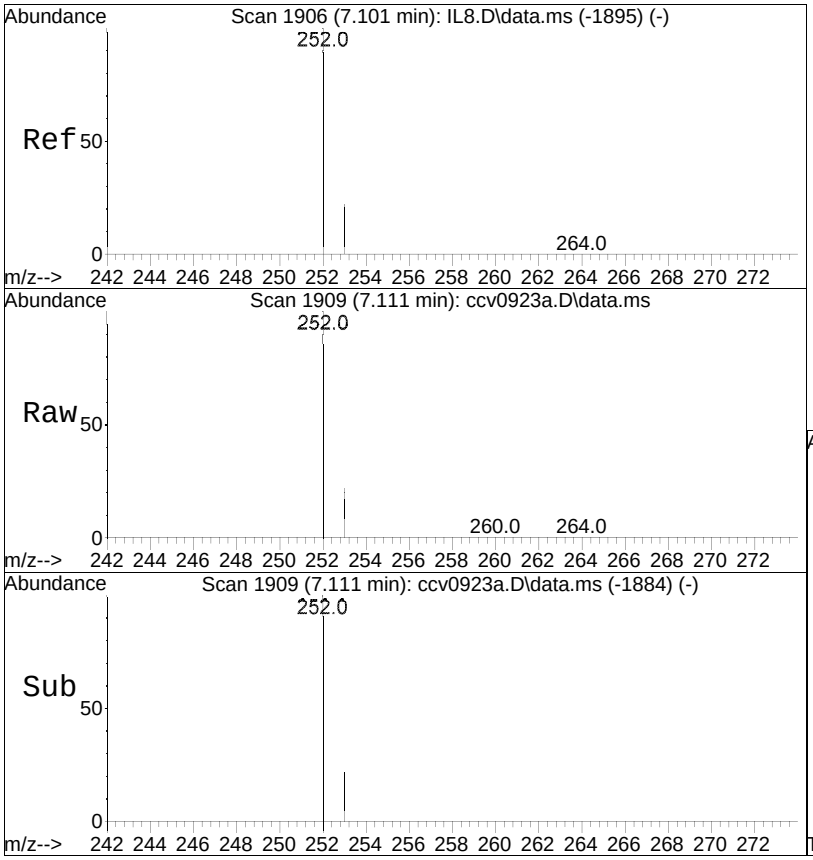


#35
Bis(2-ethylhexyl)phthalate
Concen: 1178.33 ng/ml
RT: 6.299 min Scan# 1632
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:149 Resp: 334220

Ion	Ratio	Lower	Upper
149	100		
167	24.6	19.9	29.9

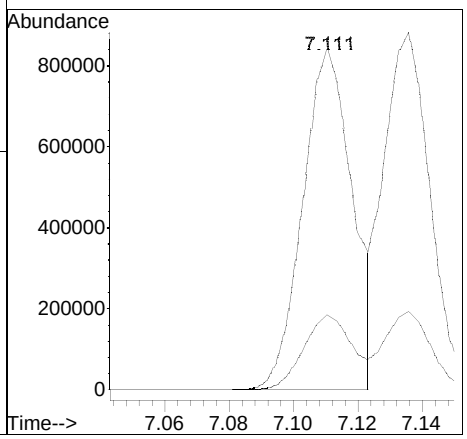


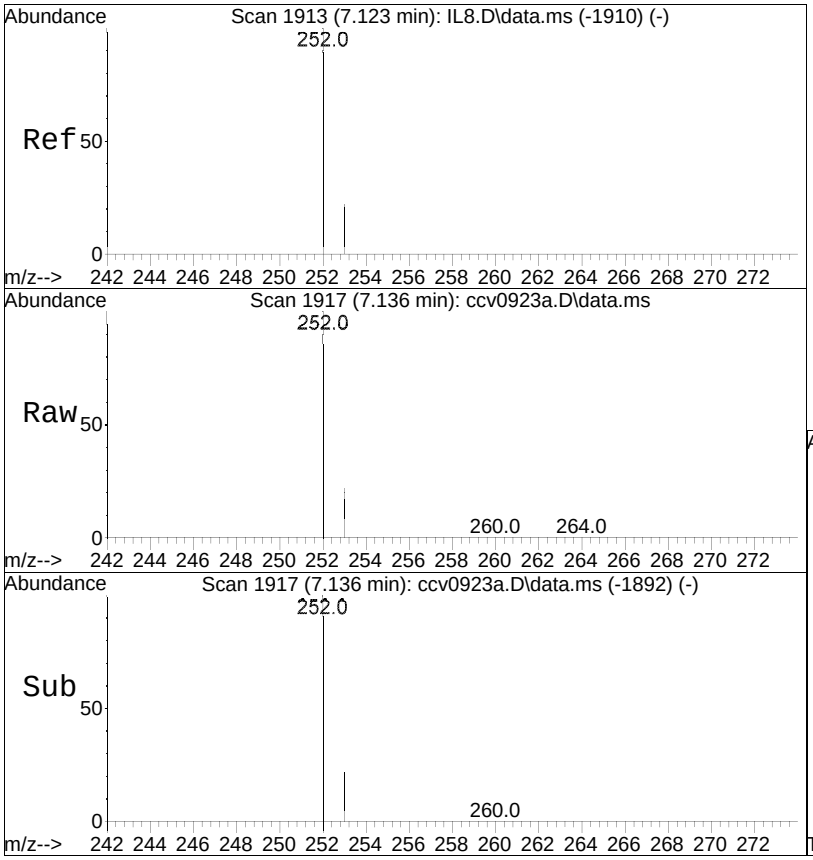


#37
Benzo[b]fluoranthene
Concen: 1151.03 ng/ml
RT: 7.111 min Scan# 1909
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:252 Resp: 906041

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

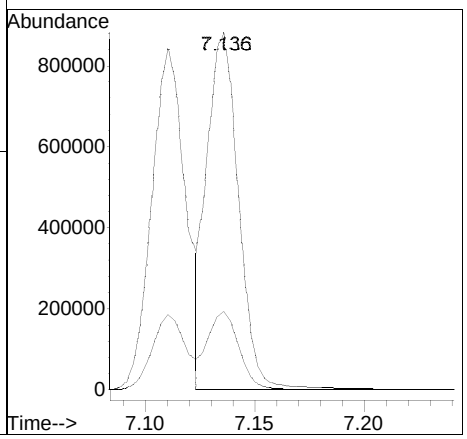


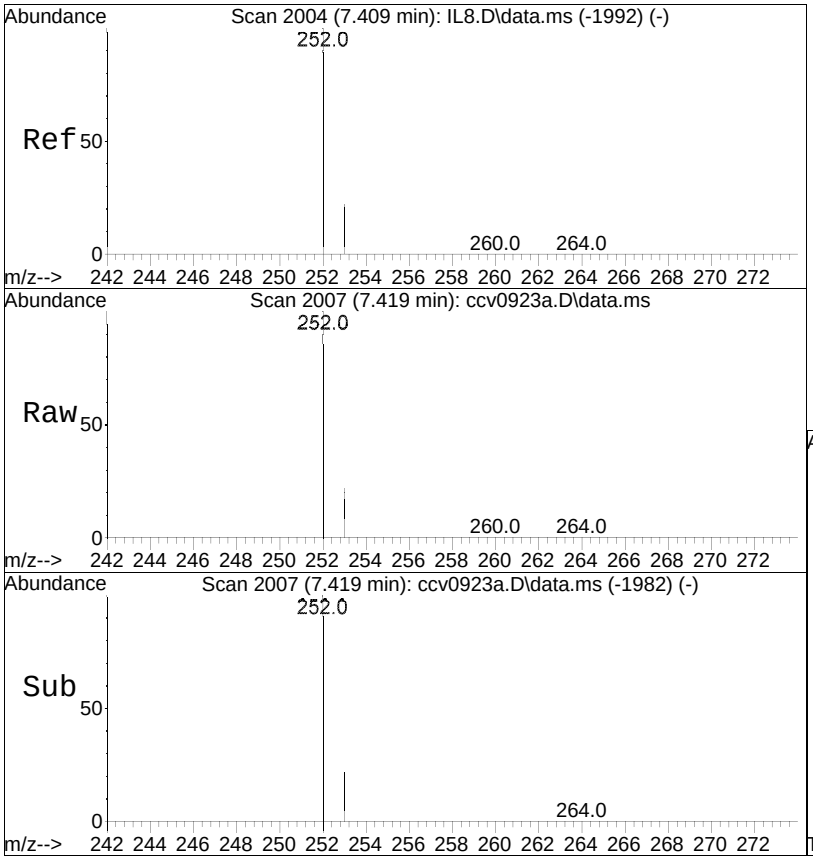


#38
Benzo[k]fluoranthene
Concen: 1135.83 ng/ml
RT: 7.136 min Scan# 1917
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:252 Resp: 876030

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

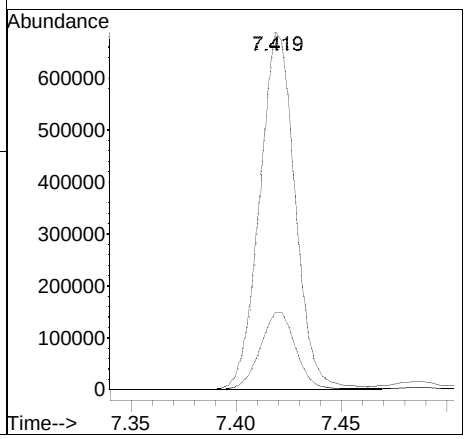


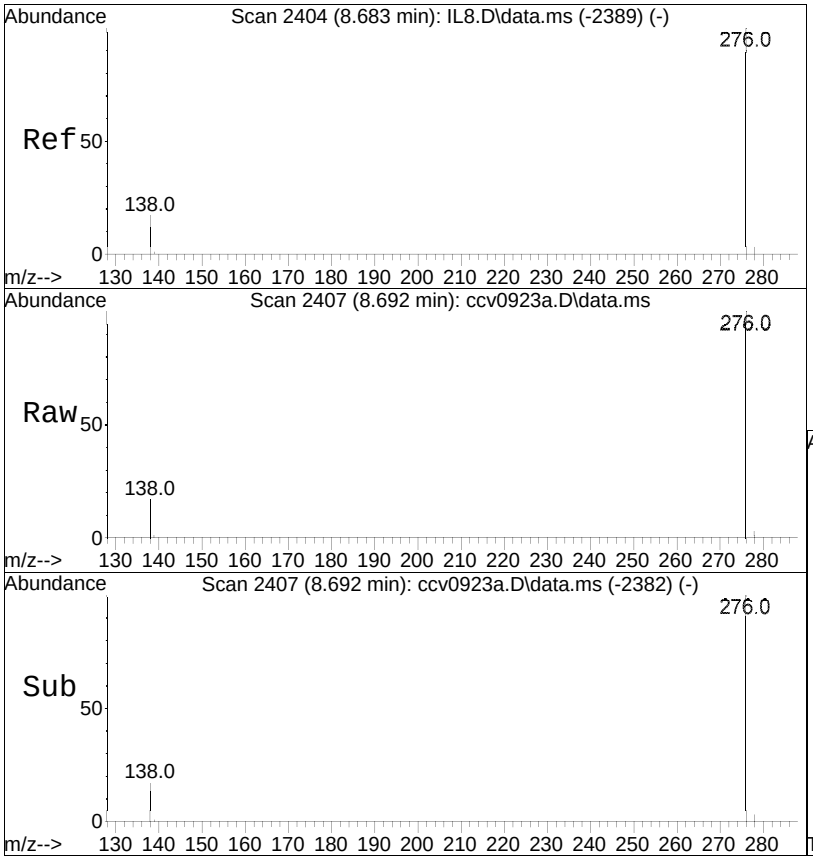


#39
Benzo[a]pyrene
Concen: 1164.76 ng/ml
RT: 7.419 min Scan# 2007
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:252 Resp: 797725

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

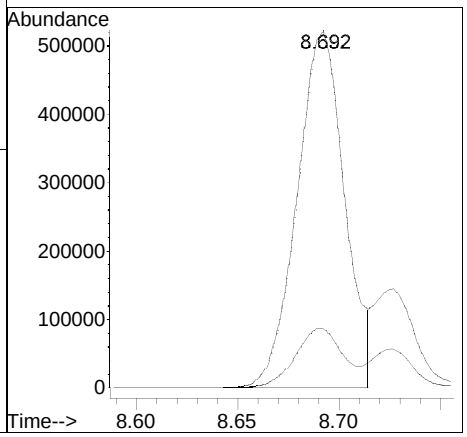


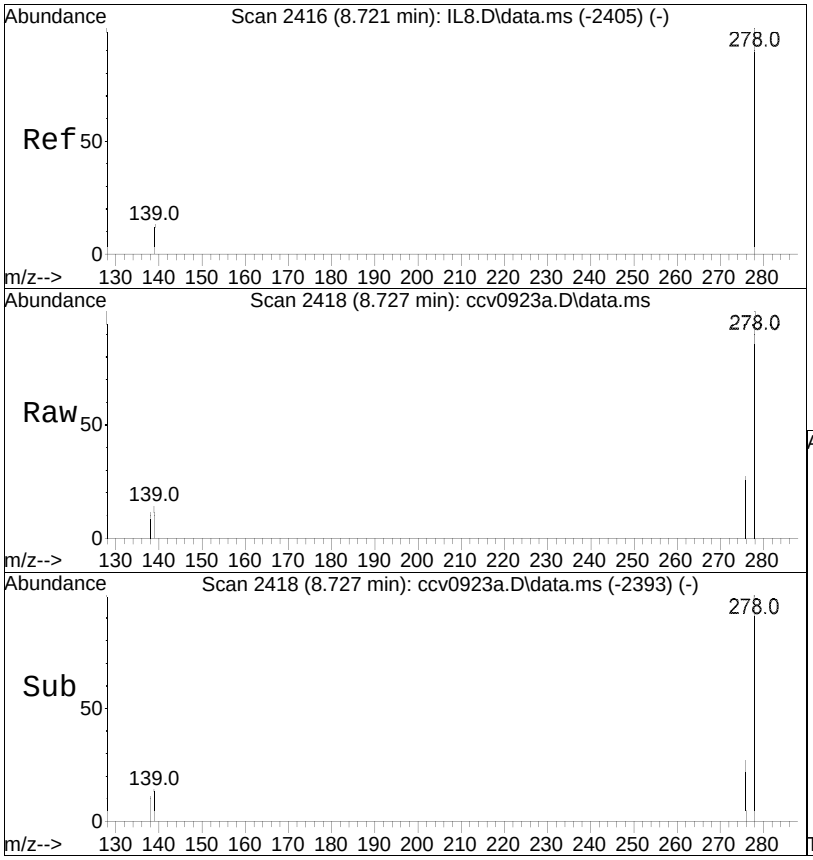


#40
Indeno[1,2,3-cd]pyrene
Concen: 1176.55 ng/ml
RT: 8.692 min Scan# 2407
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:276 Resp: 846297

Ion	Ratio	Lower	Upper
276	100		
138	16.3	13.1	19.7

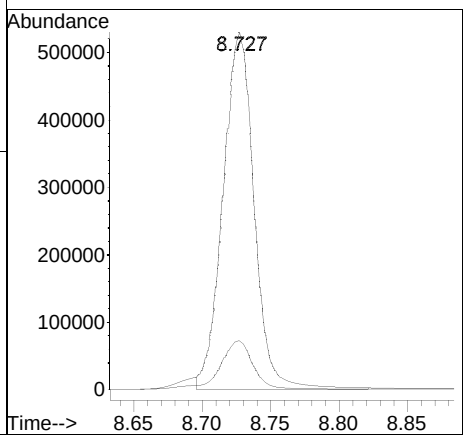


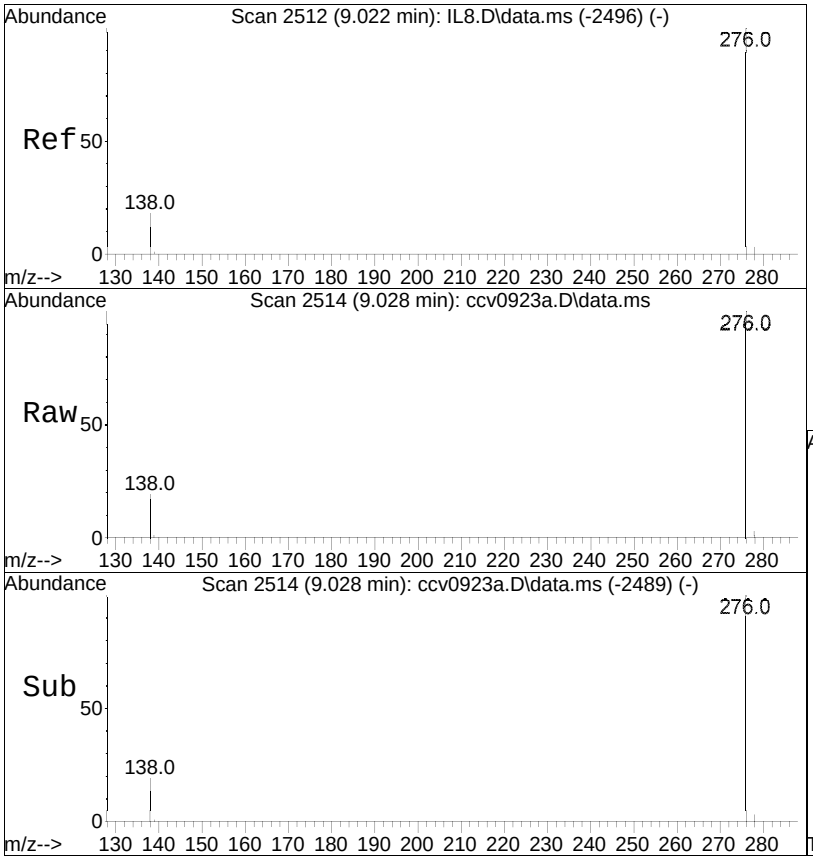


#41
Dibenzo[a,h]anthracene
Concen: 1053.78 ng/ml M6
RT: 8.727 min Scan# 2418
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:278 Resp: 831388

Ion	Ratio	Lower	Upper
278	100		
139	14.4	12.0	18.0

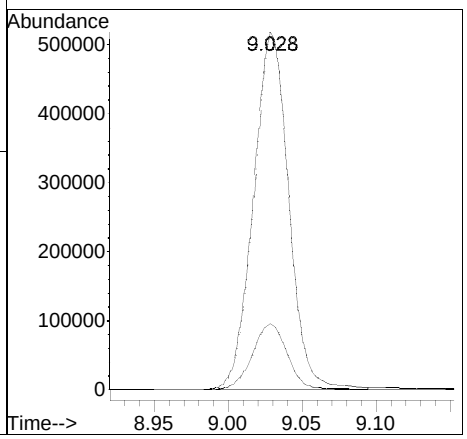




#42
Benzo[g,h,i]perylene
Concen: 1136.21 ng/ml
RT: 9.028 min Scan# 2514
Delta R.T. 0.000 min
Lab File: ccv0923a.D
Acq: 23 Sep 2024 09:46 am

Tgt Ion:276 Resp: 846353

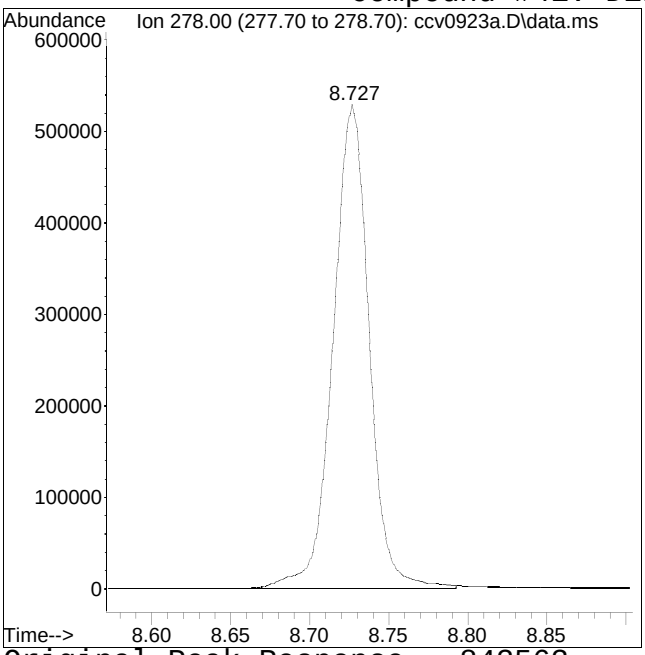
Ion	Ratio	Lower	Upper
276	100		
138	18.5	14.7	22.1



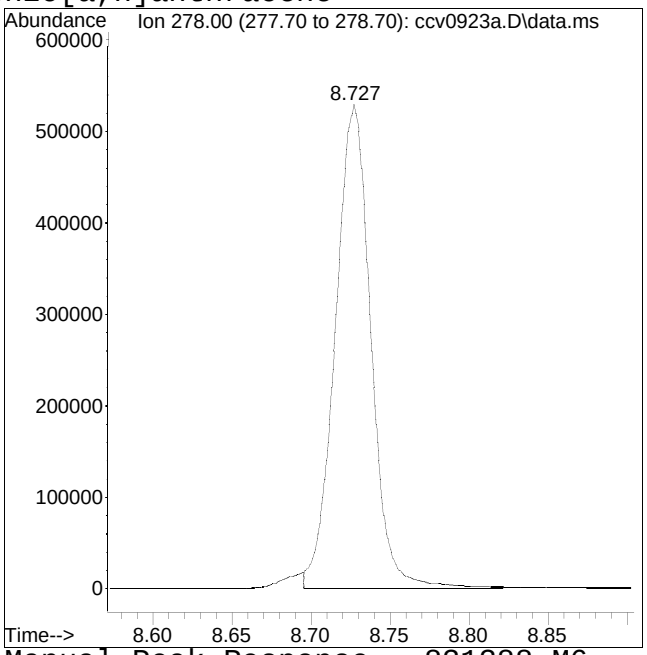
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : ccv0923a.D Operator : SV125:rp
Date Inj'd : 9/23/2024 9:46 am Instrument : SV125
Sample : WG1975073-3,32,,CCV 10888 Quant Date : 9/23/2024 10:10 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 843563



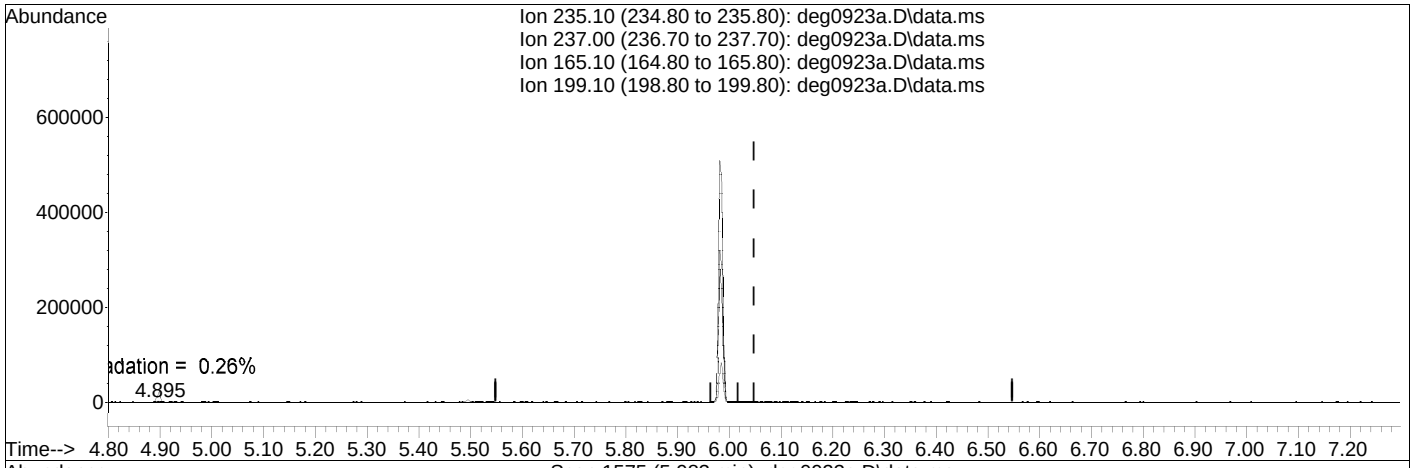
Manual Peak Response = 831388 M6

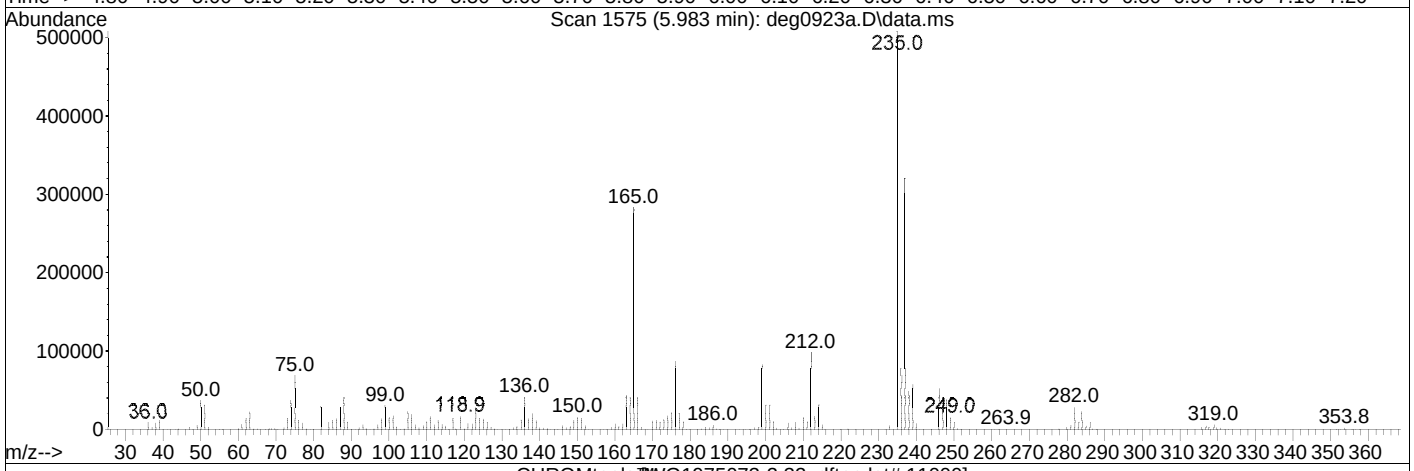
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : deg0923a.D
Acq On : 23 Sep 2024 09:26 am
Operator : SV125:rp
Sample : WG1975073-2,32,,dftpp lot# 11000
Misc : WG1975073,,ical21503
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 23 09:46:00 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:





CHROMtools [WG1975073-2,32,,dftpp lot# 11000]

(6) ddt (T)

5.983min (-0.065) 44.43

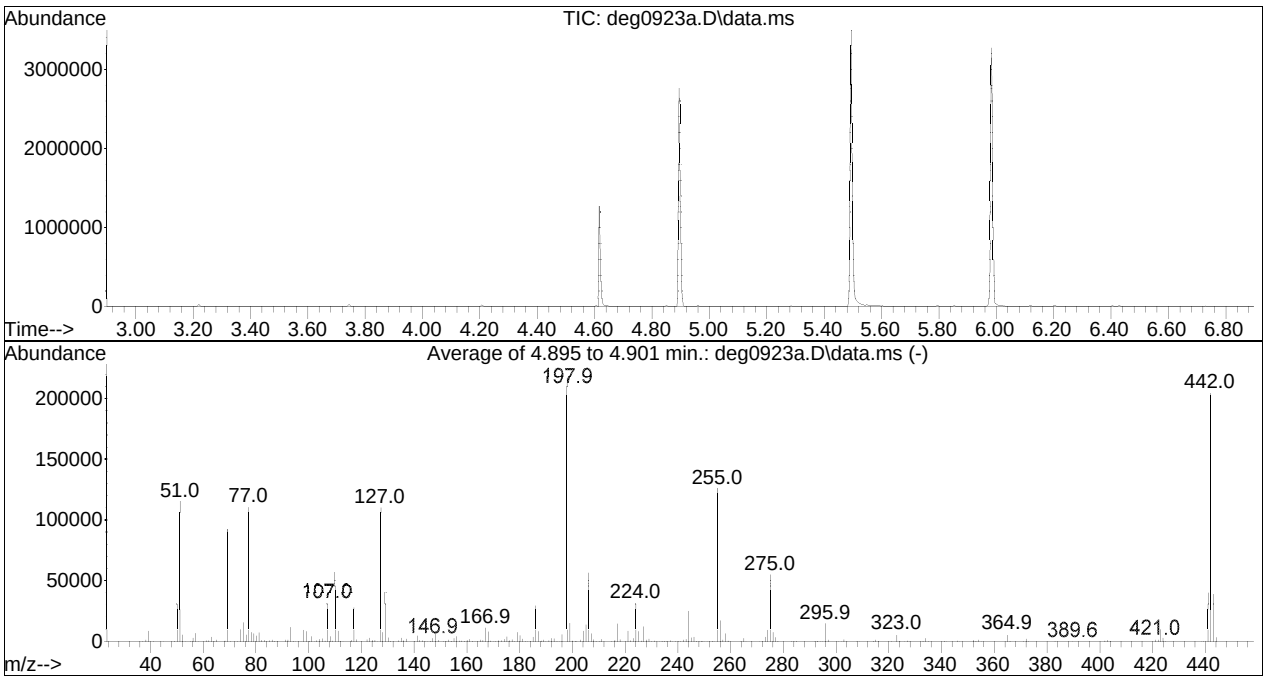
response 270815

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.78
165.10	53.30	52.21
199.10	17.10	15.86

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : deg0923a.D
Acq On : 23 Sep 2024 09:26 am
Operator : SV125:rp
Sample : WG1975073-1,32,,dftpp lot# 11000
Misc : WG1975073,,ical21503
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Sep 23 10:09:47 2024



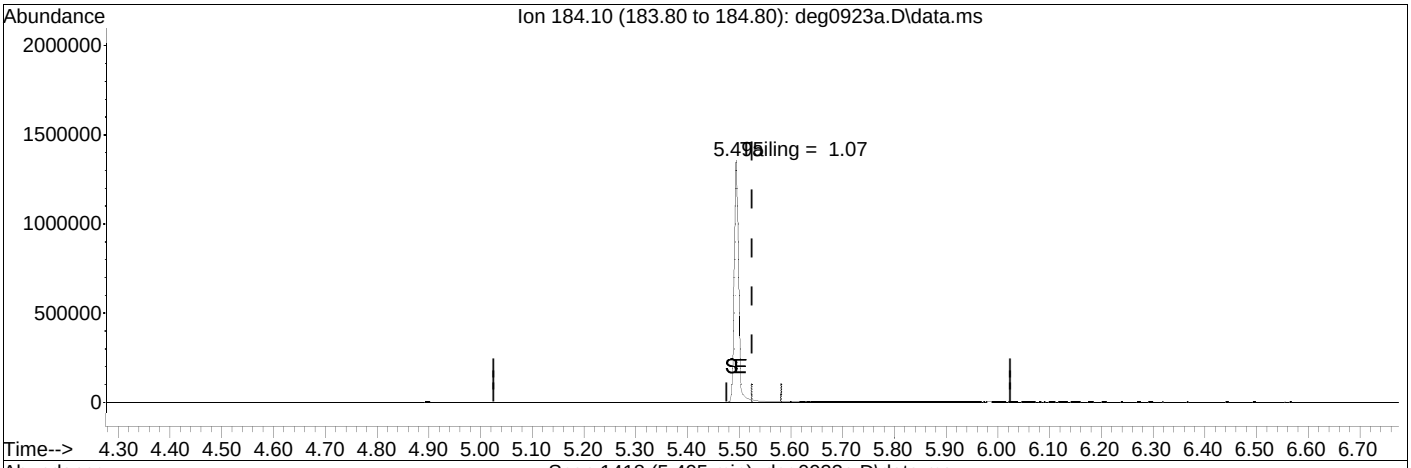
Spectrum Information: Average of 4.895 to 4.901 min.

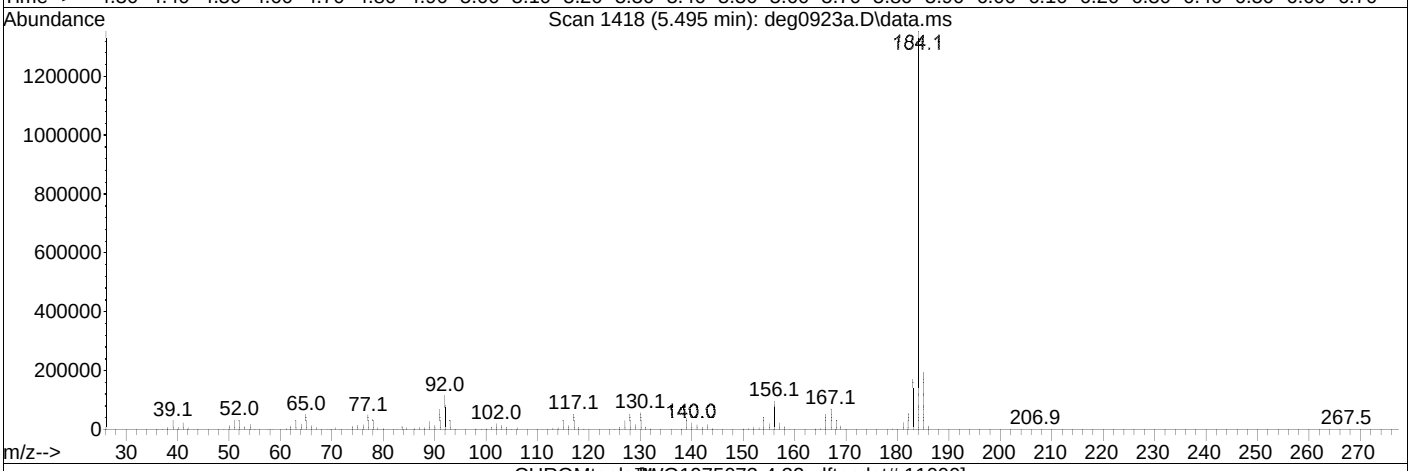
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.9	114939	PASS
68	69	0.00	2	1.2	1100	PASS
69	69	100	100	100.0	92131	PASS
70	69	0.00	2	0.5	456	PASS
127	198	10	80	50.7	110115	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	217216	PASS
199	198	5	9	6.9	14993	PASS
275	198	10	60	25.2	54763	PASS
365	198	1	100	2.5	5525	PASS
441	442	0.01	24	19.2	39333	PASS
442	198	50	100	94.2	204544	PASS
443	442	15	24	18.9	38579	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : deg0923a.D
Acq On : 23 Sep 2024 09:26 am
Operator : SV125:rp
Sample : WG1975073-4,32,,dftpp lot# 11000
Misc : WG1975073,,ical21503
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 23 09:46:00 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:





CHROMtools [WG1975073-4,32,,dftpp lot# 11000]

(3) benzidine (T)

5.495min (-0.030) 71.89

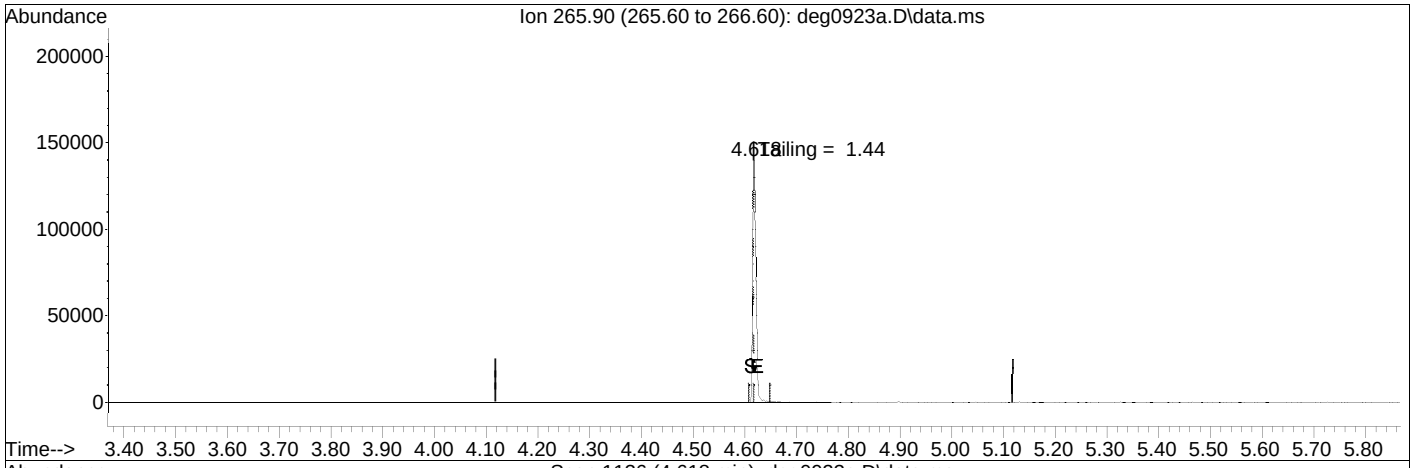
response 731894

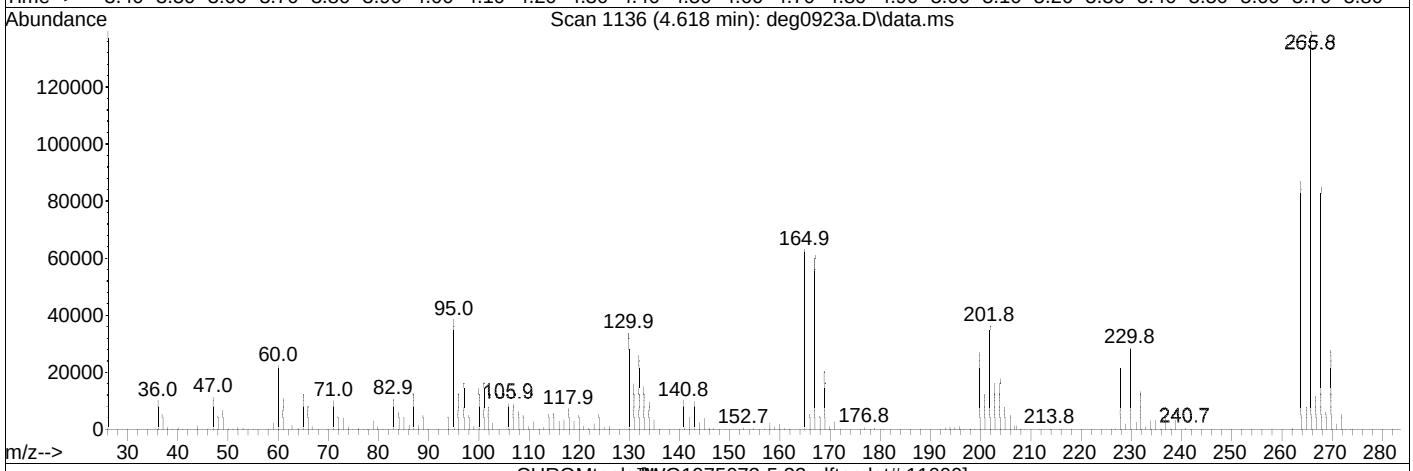
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : deg0923a.D
Acq On : 23 Sep 2024 09:26 am
Operator : SV125:rp
Sample : WG1975073-5,32,,dftpp lot# 11000
Misc : WG1975073,,ical21503
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 23 09:46:00 2024
Quant Method : I:\8270SIM\SV125\240923aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 17 18:39:22 2024
Response via : Continuing Cal File:





CHROMtools [WG1975073-5,32,,dftpp lot# 11000]

(1) pentachlorophenol (T)

4.618min (+ 0.000) 27.24

response 57224

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-1.D
Acq On : 23 Sep 2024 02:23 pm
Operator : SV125:rp
Sample : WG1974887-1,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 19:07:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	356893	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 77.57%			
8) Naphthalene-d8	2.905	136	1223962	4000.000	ng/ml	0.00
Standard Area 1 = 1621592			Recovery = 75.48%			
17) Acenaphthene-d10	3.884	164	711429	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 66.62%			
22) Phenanthrene-d10	4.724	188	1473442	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 61.35%			
31) Chrysene-d12	6.264	240	1576970	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 55.80%			
36) Perylene-d12	7.460	264	1767560	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 52.54%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	62606	712.875	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.64%			
3) Phenol-d6	2.050	99	58548	540.577	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.03%			
7) Nitrobenzene-d5	2.521	82	65311	1172.452	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 117.25%			
13) 2-Fluorobiphenyl	3.505	172	208117	802.448	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.24%			
21) 2,4,6-Tribromophenol	4.330	330	31354	1015.081	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.75%			
30) 4-Terphenyl-d14	5.634	244	270667	903.944	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.39%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.510	284	94M1	0.997	ng/ml	

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-1.D
Acq On : 23 Sep 2024 02:23 pm
Operator : SV125:rp
Sample : WG1974887-1,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 19:07:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

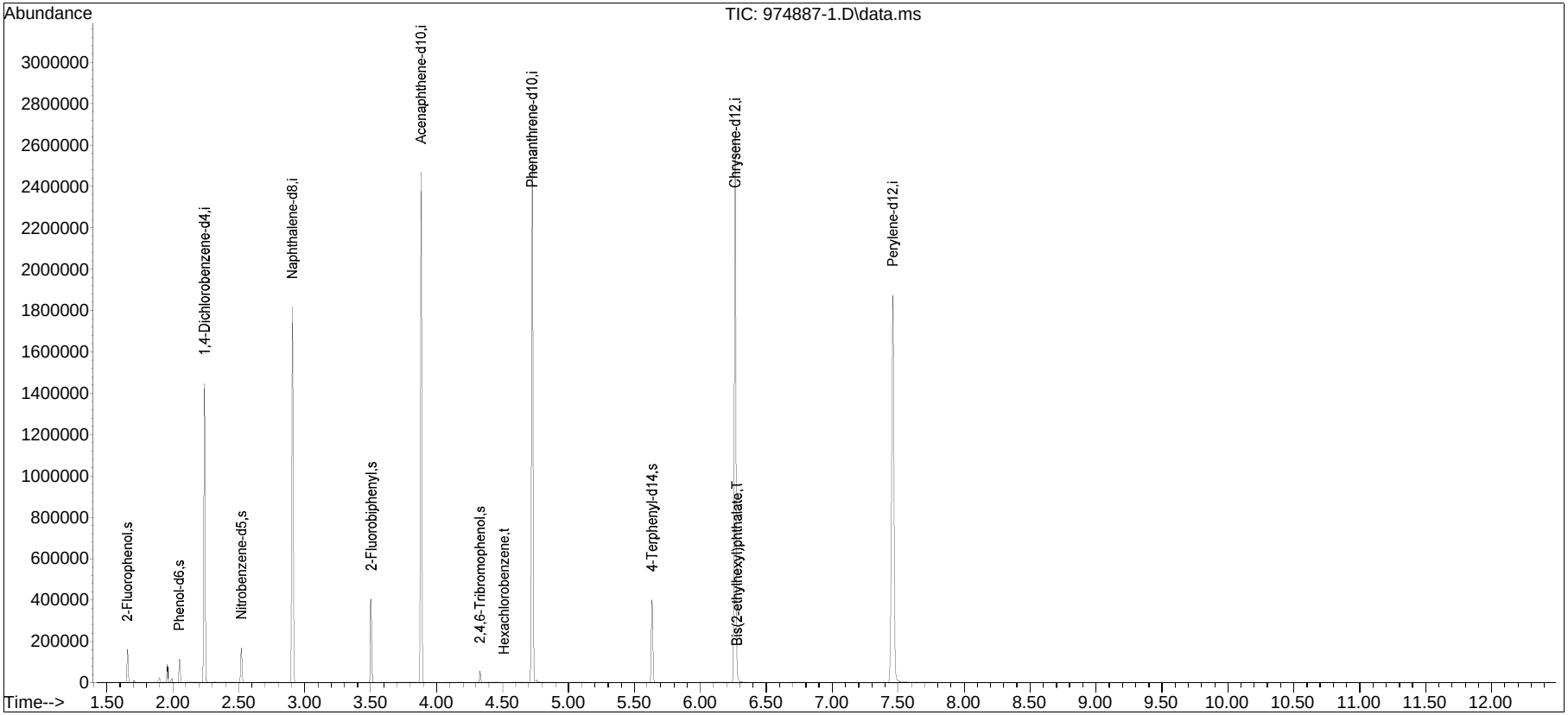
(#) = qualifier out of range (m) = manual integration (+) = signals summed

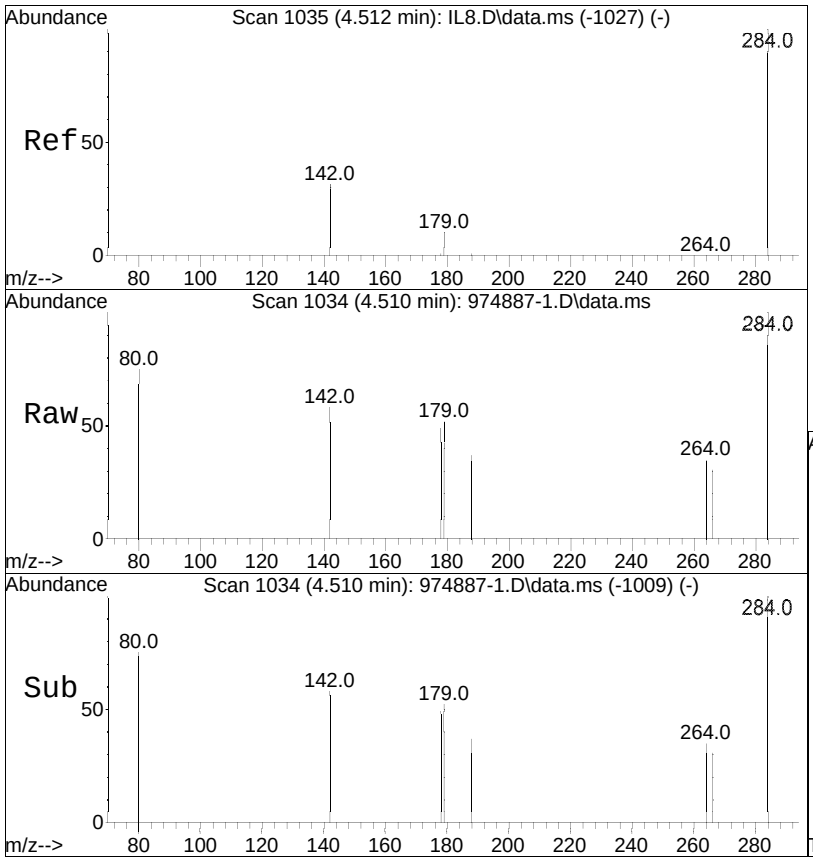
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-1.D
Acq On : 23 Sep 2024 02:23 pm
Operator : SV125:rp
Sample : WG1974887-1,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 19:07:19 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

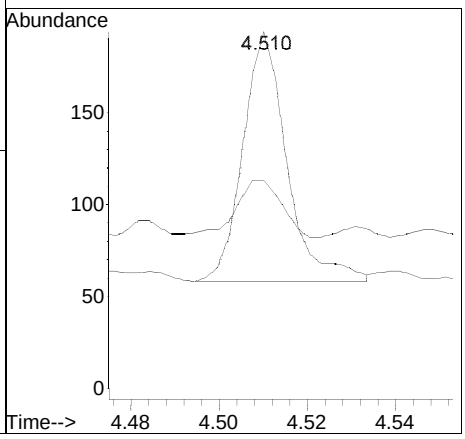




#24
Hexachlorobenzene
Concen: 1.00 ng/ml M1
RT: 4.510 min Scan# 1034
Delta R.T. 0.000 min
Lab File: 974887-1.D
Acq: 23 Sep 2024 02:23 pm

Tgt Ion:284 Resp: 94

Ion	Ratio	Lower	Upper
284	100		
142	23.4	24.4	36.6#

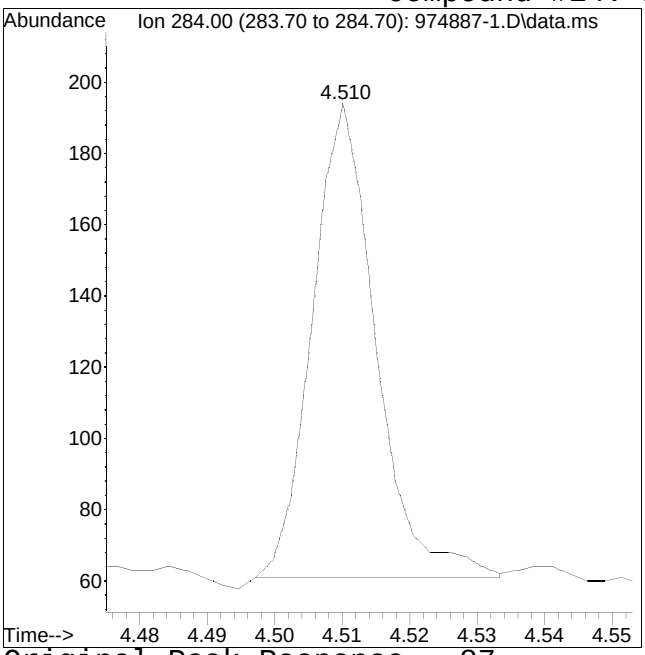


Manual Integration Report

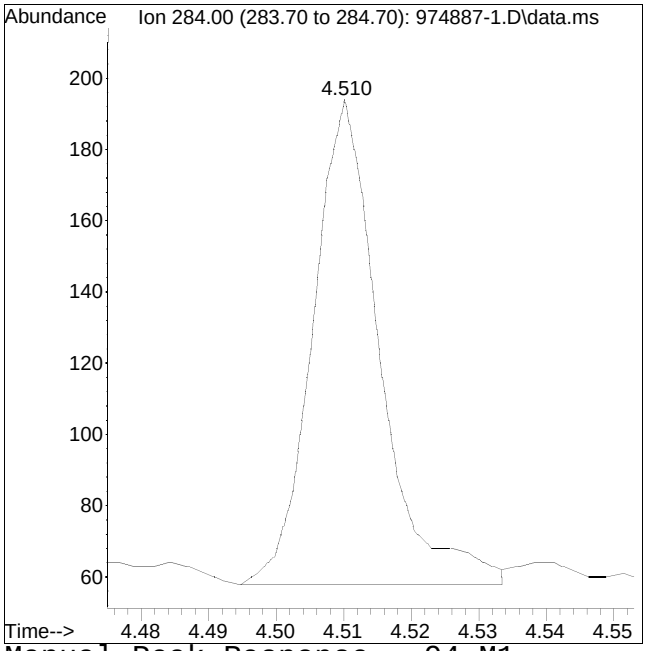
Data Path : I:\8270SIM\SV125\240923aRVQ
Data File : 974887-1.D
Date Inj'd : 9/23/2024 2:23 pm
Sample : WG1974887-1,32,,kmh

Method : SIM-RVT_240917n_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 9/23/2024 2:37 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 87



Manual Peak Response = 94 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-2.D
Acq On : 23 Sep 2024 01:51 pm
Operator : SV125:rp
Sample : WG1974887-2,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 19:09:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.241	152	387834	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 84.30%			
8) Naphthalene-d8	2.904	136	1386986	4000.000	ng/ml	# 0.00
Standard Area 1 = 1621592			Recovery = 85.53%			
17) Acenaphthene-d10	3.886	164	806236	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 75.49%			
22) Phenanthrene-d10	4.725	188	1695870	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 70.61%			
31) Chrysene-d12	6.263	240	1775037	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 62.81%			
36) Perylene-d12	7.460	264	2014156	4000.000	ng/ml	-0.03
Standard Area 1 = 3363993			Recovery = 59.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	105804	1108.643	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.43%			
3) Phenol-d6	2.053	99	95752	813.552	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.68%			
7) Nitrobenzene-d5	2.521	82	64859	1071.448	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.14%			
13) 2-Fluorobiphenyl	3.504	172	220481	750.199	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.02%			
21) 2,4,6-Tribromophenol	4.331	330	65269	1864.594	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 93.23%			
30) 4-Terphenyl-d14	5.634	244	299264	868.363	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.84%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	165867	1585.995	ng/ml	99
6) Hexachloroethane	2.501	117	68530	1618.899	ng/ml	98
9) Naphthalene	2.914	128	556254	1505.765	ng/ml#	98
10) Hexachlorobutadiene	2.991	225	113670	1523.035	ng/ml	100
11) 2-Methylnaphthalene	3.297	142	377383	1595.015	ng/ml	100
14) 2-Chloronaphthalene	3.568	162	395961	1580.482	ng/ml	94
16) Acenaphthylene	3.804	152	592355	1628.004	ng/ml	100
18) Acenaphthene	3.901	153	413230	1680.751	ng/ml	99
20) Fluorene	4.194	166	467243	1733.598	ng/ml	100
24) Hexachlorobenzene	4.511	284	184163	1696.972	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-2.D
Acq On : 23 Sep 2024 01:51 pm
Operator : SV125:rp
Sample : WG1974887-2,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 19:09:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.622	266	79196	1885.343	ng/ml	100
26) Phenanthrene	4.738	178	756758	1729.784	ng/ml	100
27) Anthracene	4.766	178	769179	1772.079	ng/ml	100
28) Fluoranthene	5.415	202	923987	1861.949	ng/ml	100
29) Pyrene	5.543	202	974810	1861.892	ng/ml	100
32) Benzo[a]anthracene	6.257	228	988630	1887.096	ng/ml	100
34) Chrysene	6.279	228	940090	1859.268	ng/ml	100
37) Benzo[b]fluoranthene	7.089	252	1037617	2201.602	ng/ml	100
38) Benzo[k]fluoranthene	7.114	252	972326	2105.555	ng/ml	100
39) Benzo[a]pyrene	7.397	252	909229	2217.266	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.671	276	960908	2231.158	ng/ml	100
41) Dibenzo[a,h]anthracene	8.706	278	912009M6	1857.382	ng/ml	
42) Benzo[g,h,i]perylene	9.010	276	918474	2059.378	ng/ml	99

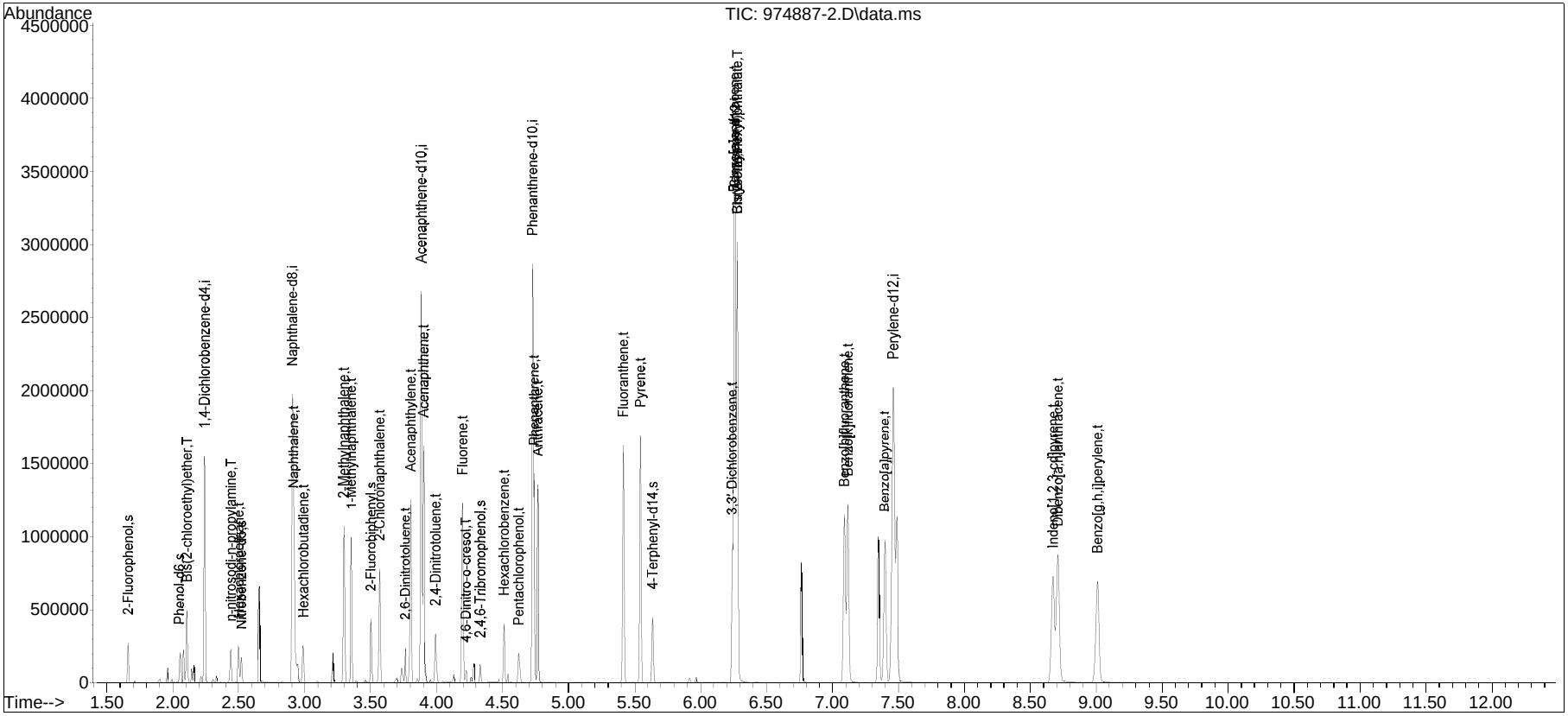
(#) = qualifier out of range (m) = manual integration (+) = signals summed

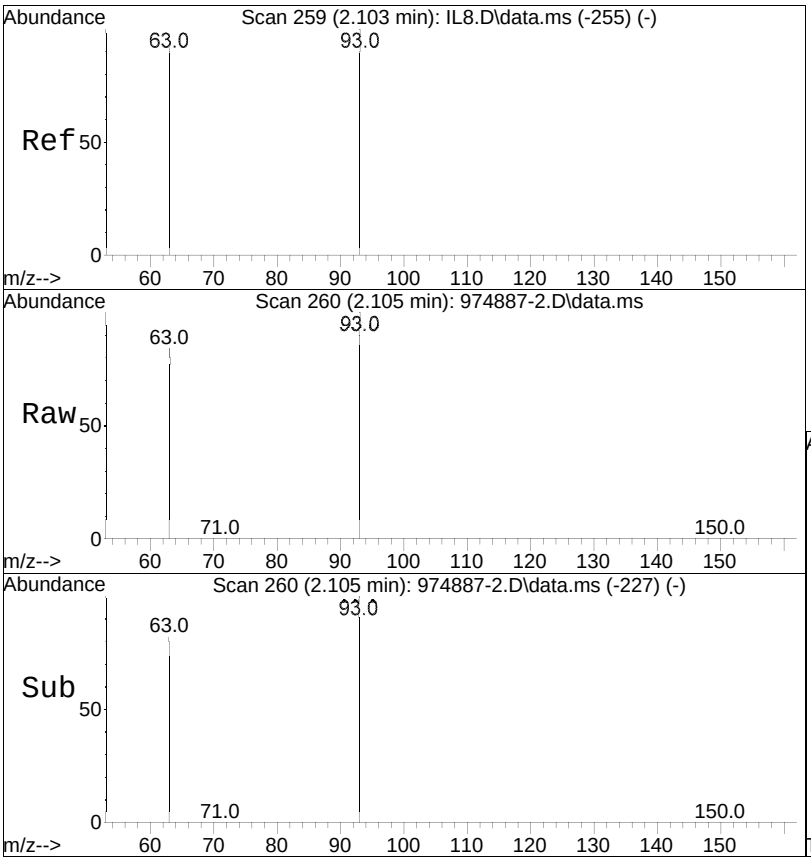
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-2.D
Acq On : 23 Sep 2024 01:51 pm
Operator : SV125:rp
Sample : WG1974887-2,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 19:09:56 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

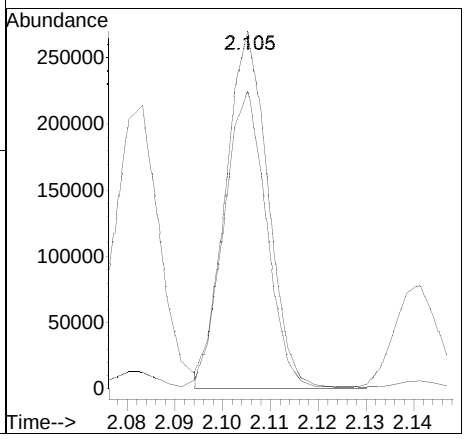


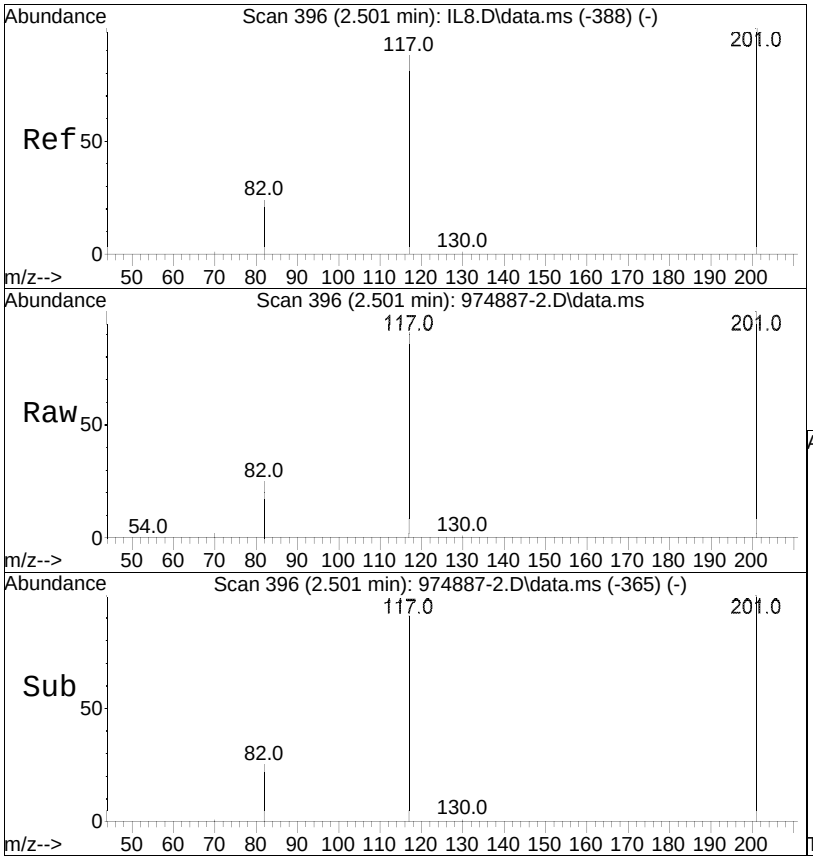


#4
Bis(2-chloroethyl)ether
Concen: 1586.00 ng/ml
RT: 2.105 min Scan# 260
Delta R.T. 0.011 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion: 93 Resp: 165867

Ion	Ratio	Lower	Upper
93	100		
63	83.6	66.1	99.1

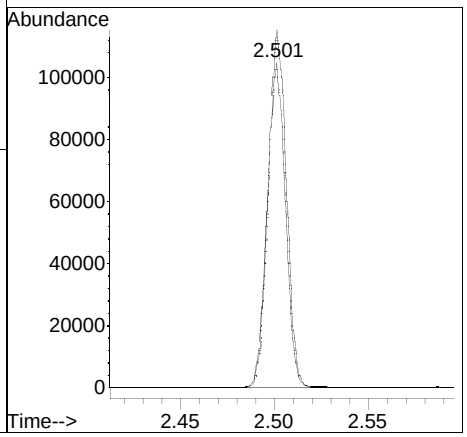


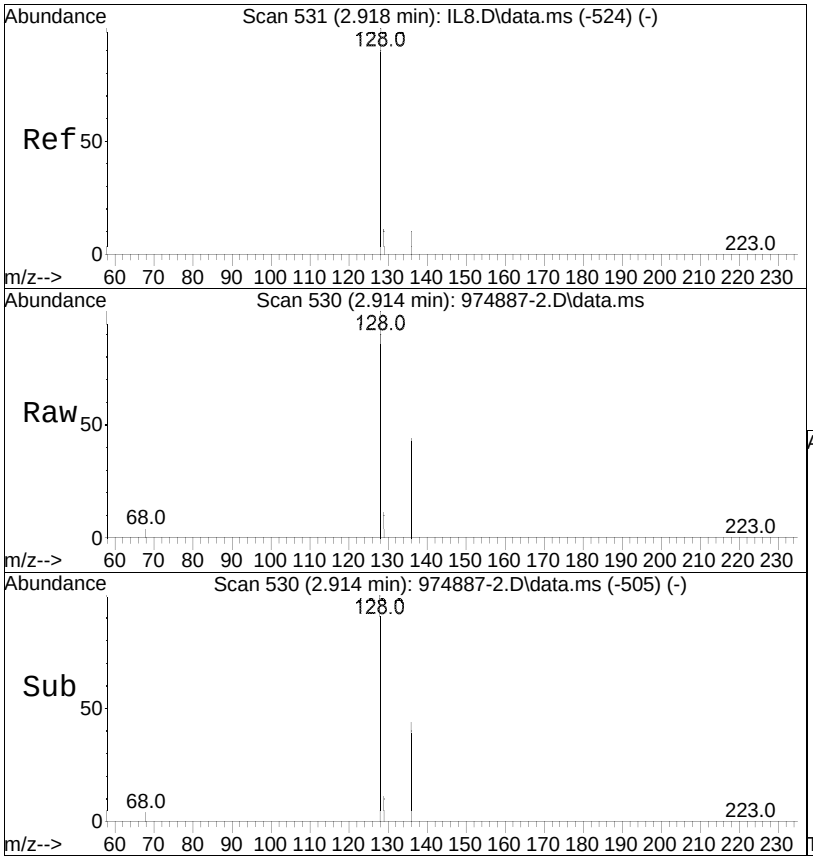


#6
Hexachloroethane
Concen: 1618.90 ng/ml
RT: 2.501 min Scan# 396
Delta R.T. 0.009 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:117 Resp: 68530

Ion	Ratio	Lower	Upper
117	100		
201	109.9	89.9	134.9

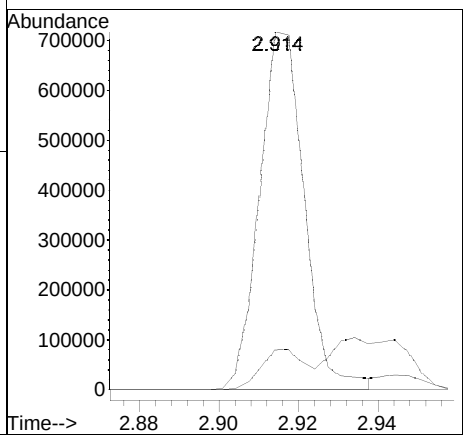


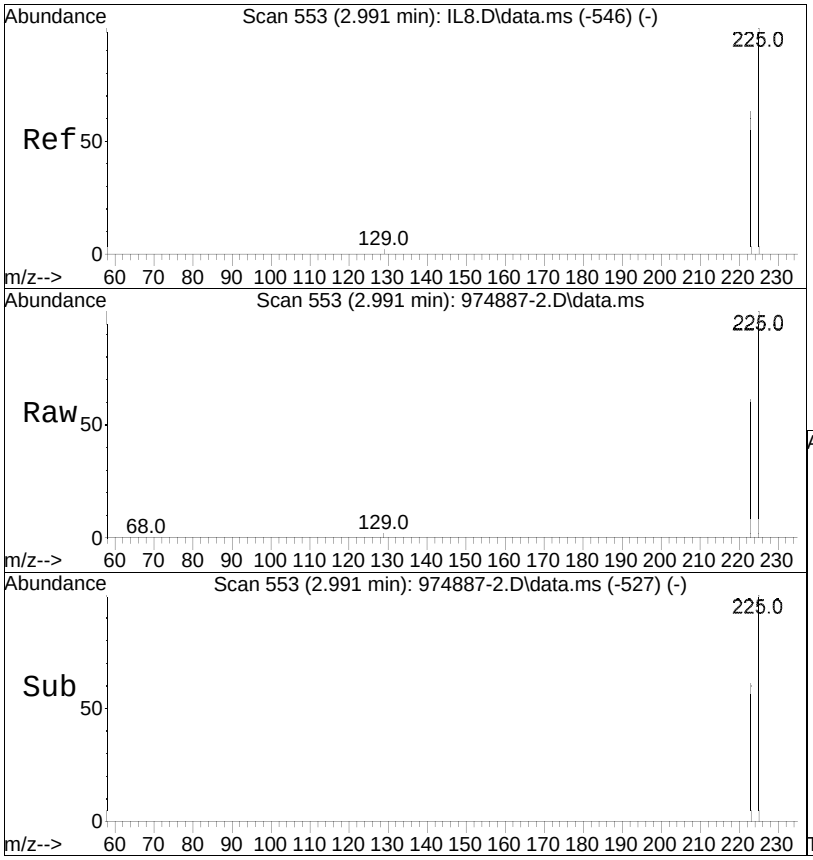


#9
Naphthalene
Concen: 1505.76 ng/ml
RT: 2.914 min Scan# 530
Delta R.T. 0.003 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:128 Resp: 556254

Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	0.0	0.0	0.0

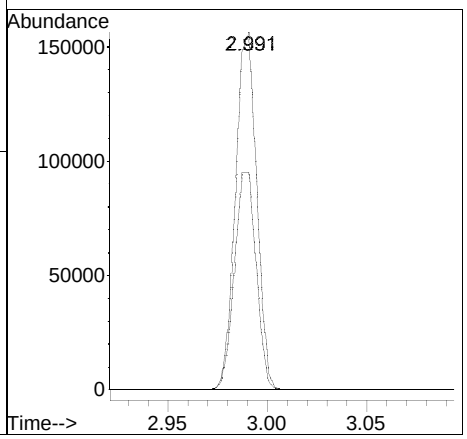


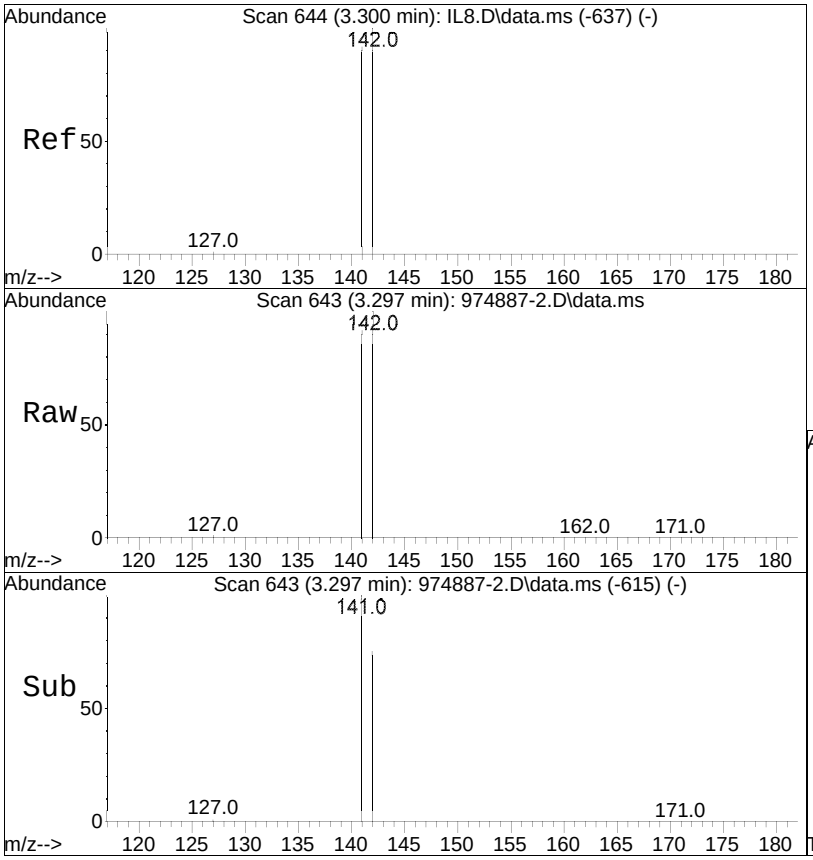


#10
Hexachlorobutadiene
Concen: 1523.03 ng/ml
RT: 2.991 min Scan# 553
Delta R.T. 0.006 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:225 Resp: 113670

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.9	74.9

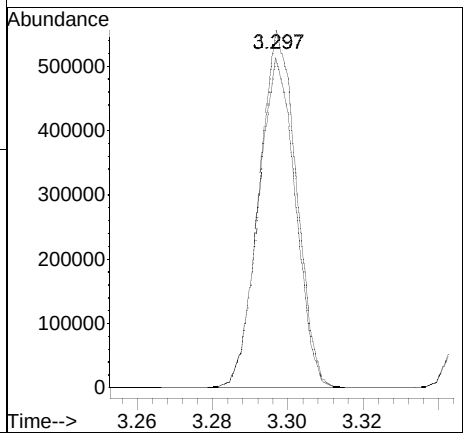


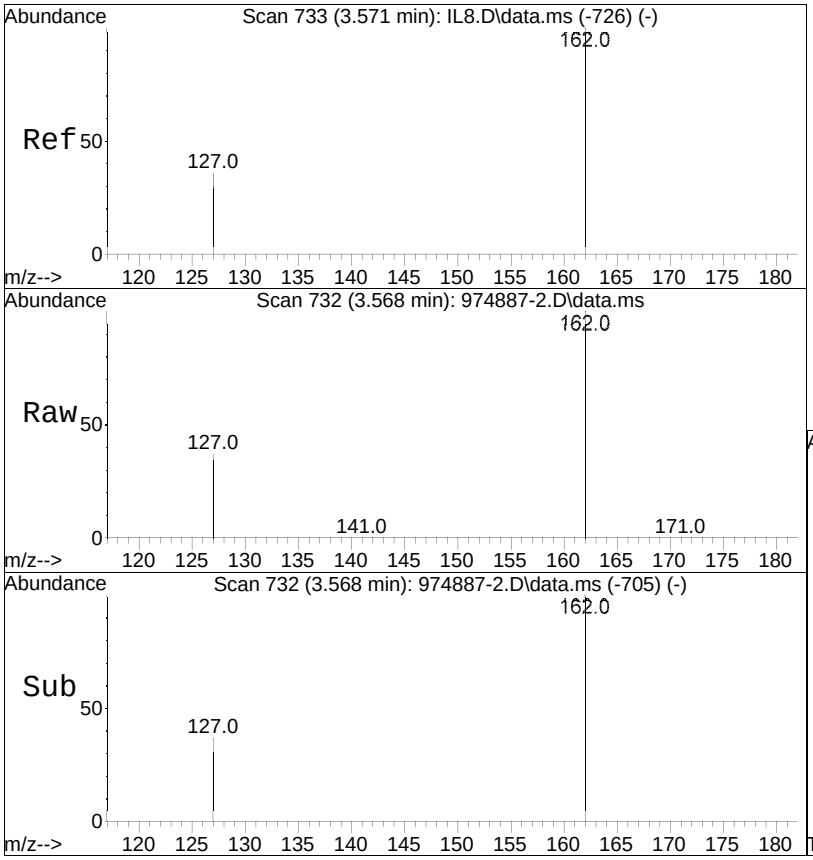


#11
2-Methylnaphthalene
Concen: 1595.01 ng/ml
RT: 3.297 min Scan# 643
Delta R.T. 0.005 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:142 Resp: 377383

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.8	110.6

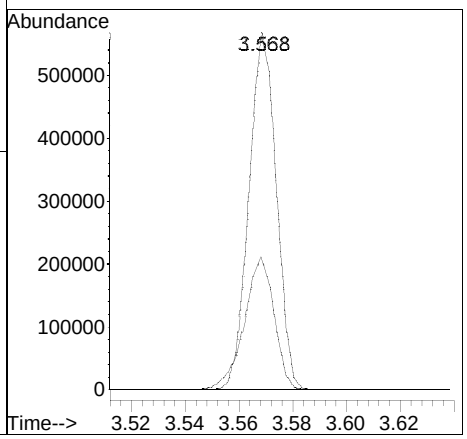


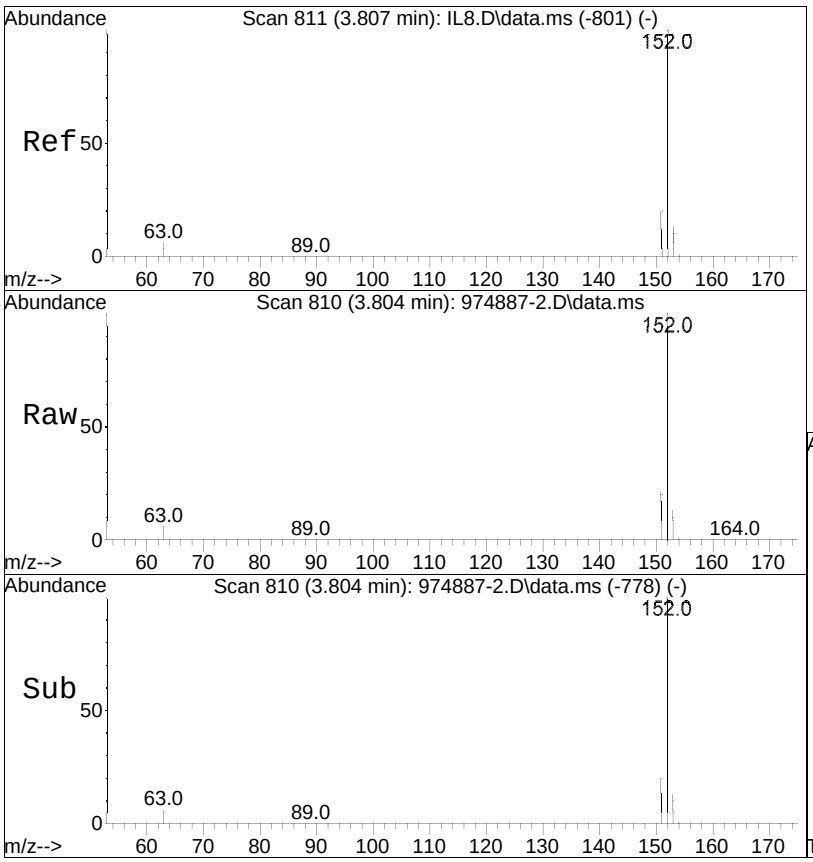


#14
2-Chloronaphthalene
Concen: 1580.48 ng/ml
RT: 3.568 min Scan# 732
Delta R.T. 0.002 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:162 Resp: 395961

Ion	Ratio	Lower	Upper
162	100		
127	40.5	29.4	44.0

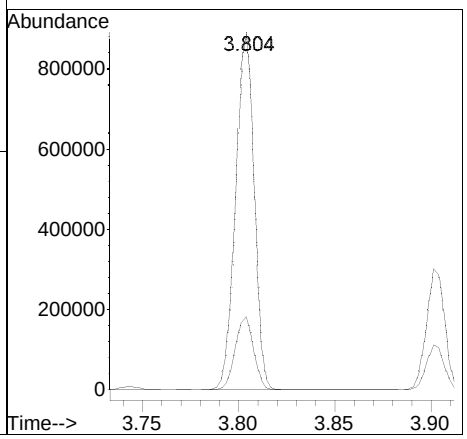


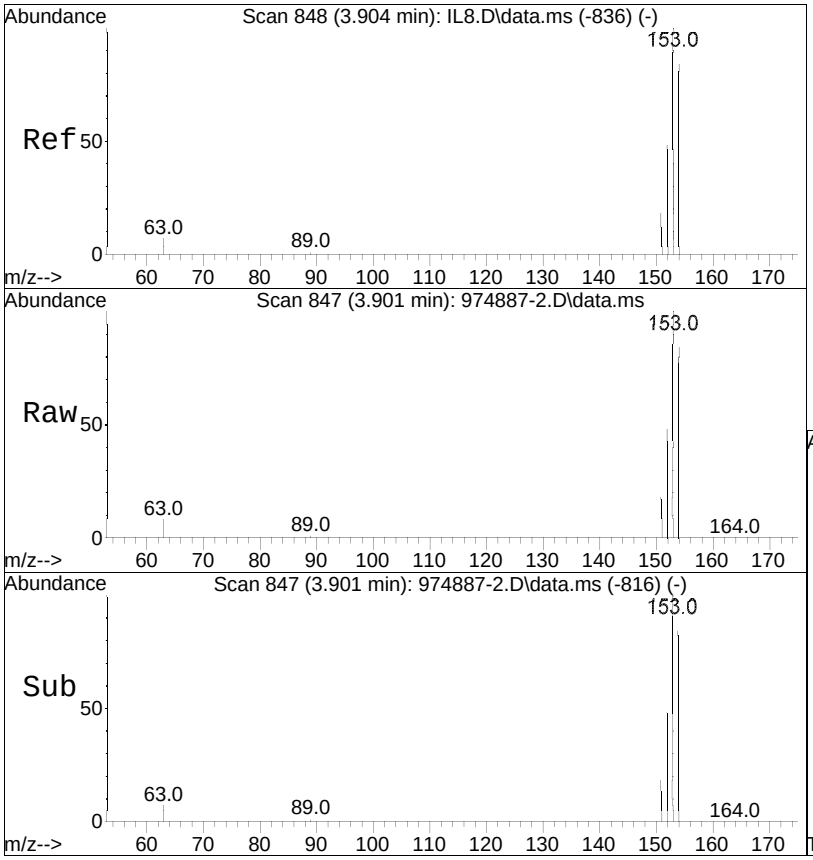


#16
Acenaphthylene
Concen: 1628.00 ng/ml
RT: 3.804 min Scan# 810
Delta R.T. 0.005 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:152 Resp: 592355

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4

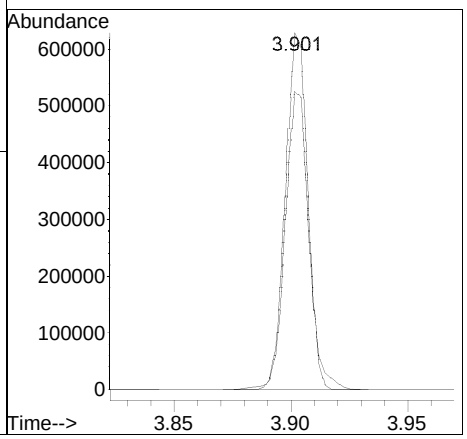


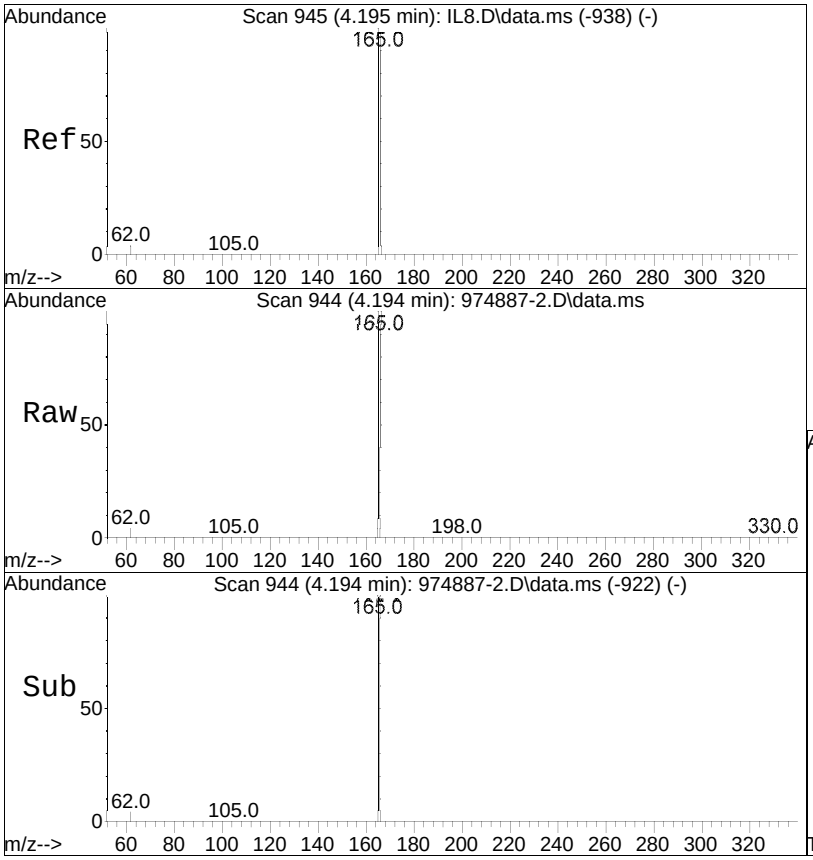


#18
Acenaphthene
Concen: 1680.75 ng/ml
RT: 3.901 min Scan# 847
Delta R.T. 0.002 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:153 Resp: 413230

Ion	Ratio	Lower	Upper
153	100		
154	88.5	70.3	105.5

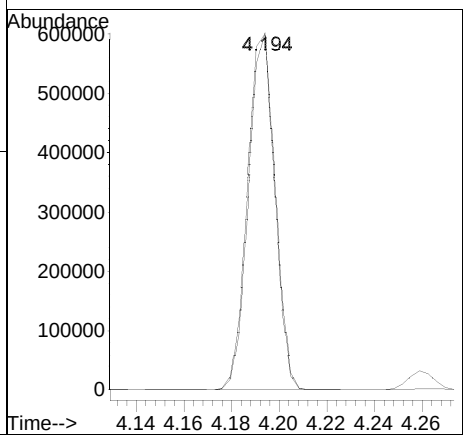


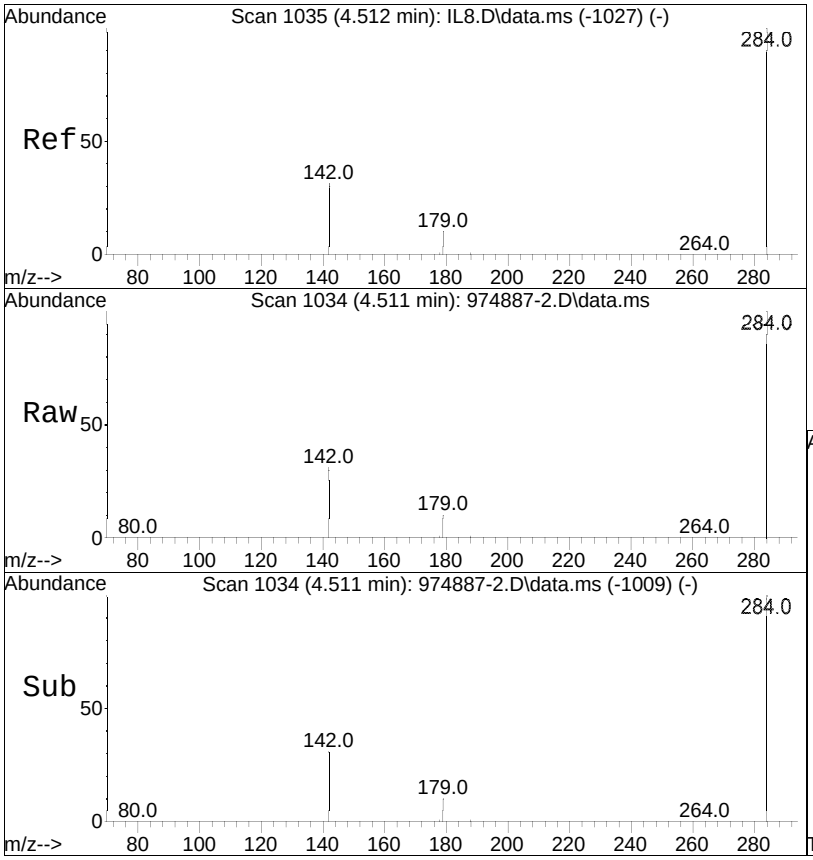


#20
Fluorene
Concen: 1733.60 ng/ml
RT: 4.194 min Scan# 944
Delta R.T. 0.005 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:166 Resp: 467243

Ion	Ratio	Lower	Upper
166	100		
165	102.1	82.0	123.0

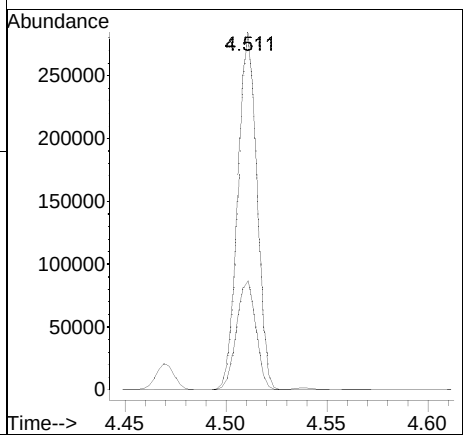


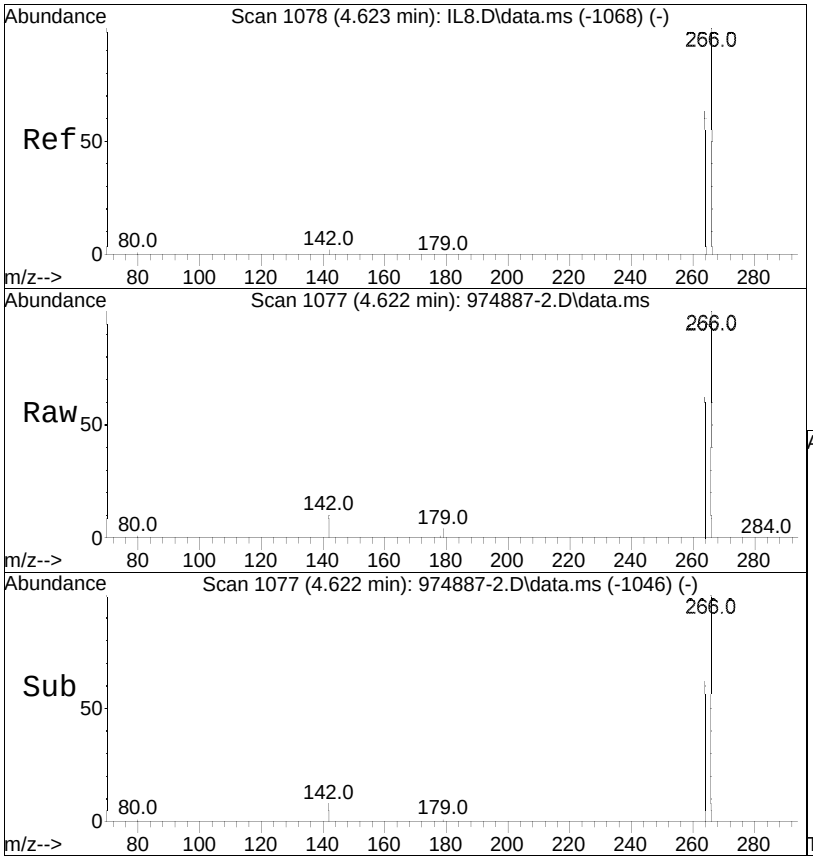


#24
Hexachlorobenzene
Concen: 1696.97 ng/ml
RT: 4.511 min Scan# 1034
Delta R.T. 0.001 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:284 Resp: 184163

Ion	Ratio	Lower	Upper
284	100		
142	31.1	24.4	36.6

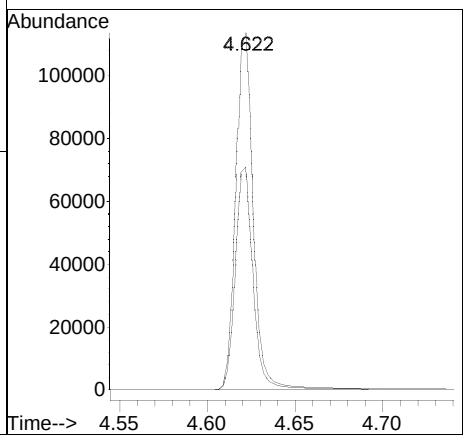


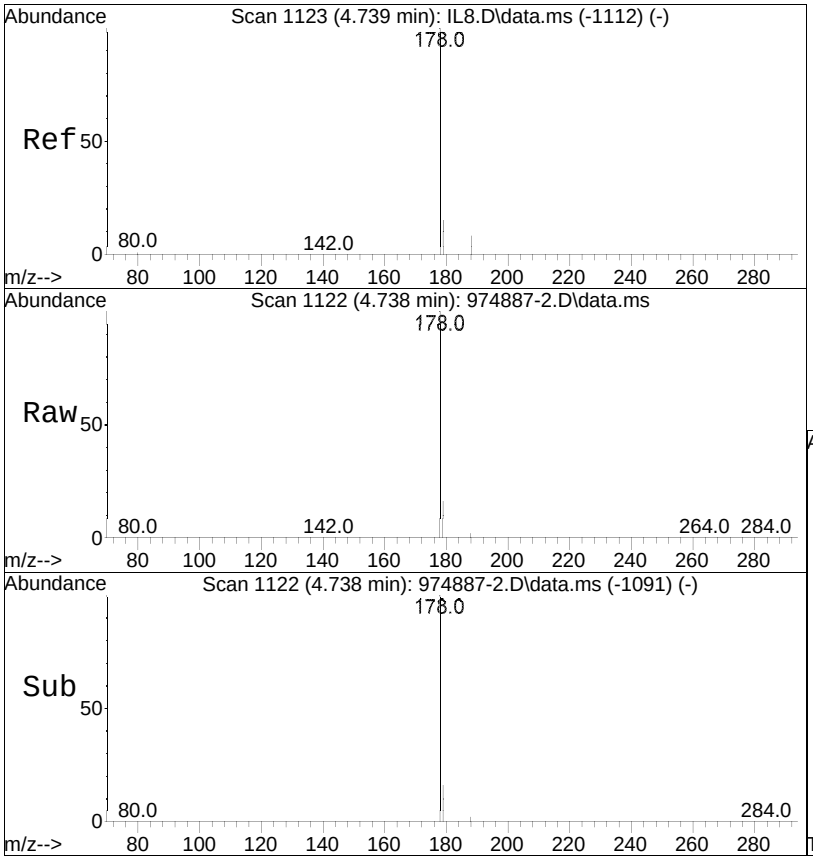


#25
Pentachlorophenol
Concen: 1885.34 ng/ml
RT: 4.622 min Scan# 1077
Delta R.T. 0.001 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:266 Resp: 79196

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.4	75.6

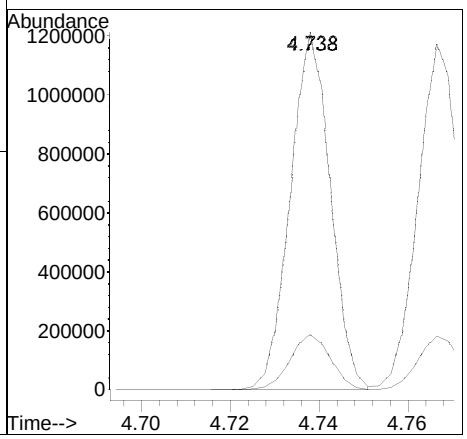


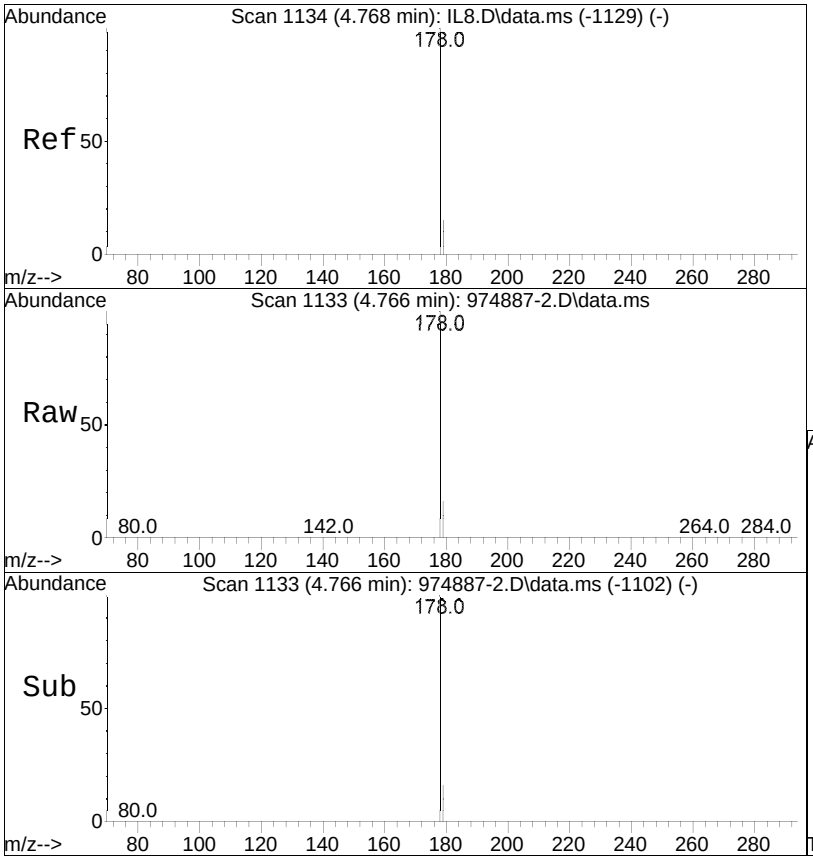


#26
Phenanthrene
Concen: 1729.78 ng/ml
RT: 4.738 min Scan# 1122
Delta R.T. 0.001 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:178 Resp: 756758

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

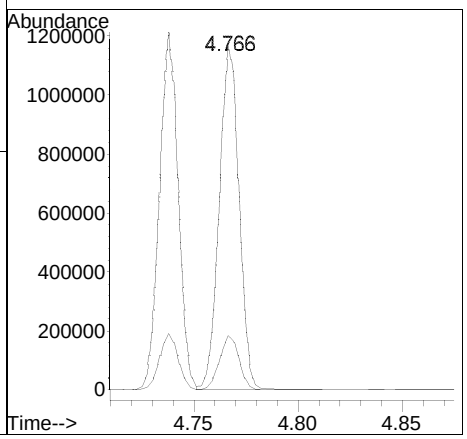


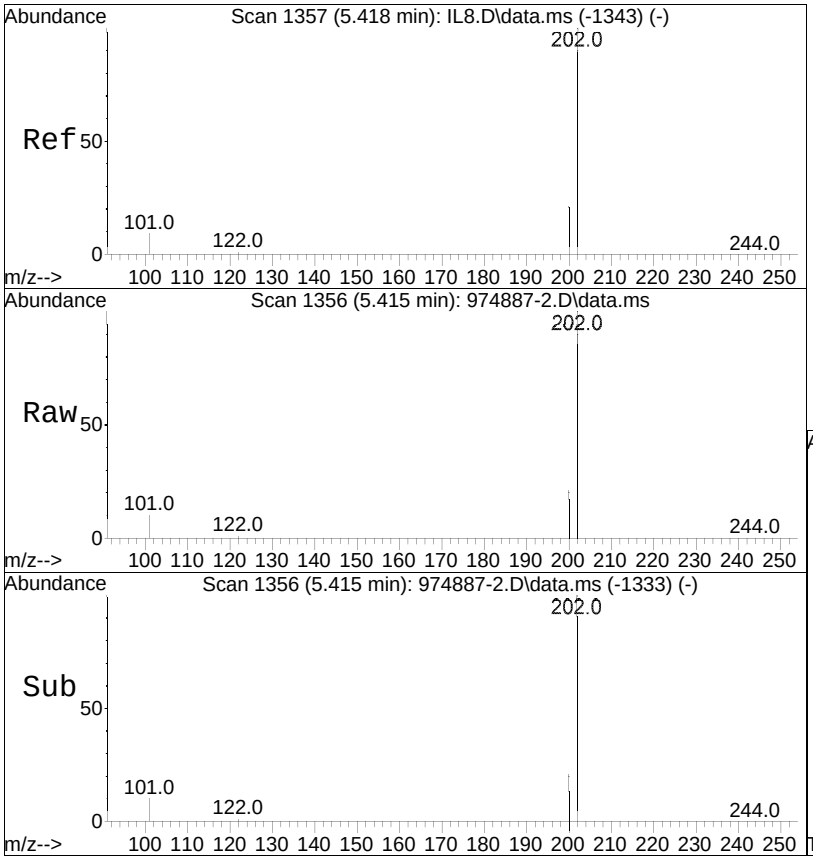


#27
Anthracene
Concen: 1772.08 ng/ml
RT: 4.766 min Scan# 1133
Delta R.T. 0.001 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:178 Resp: 769179

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

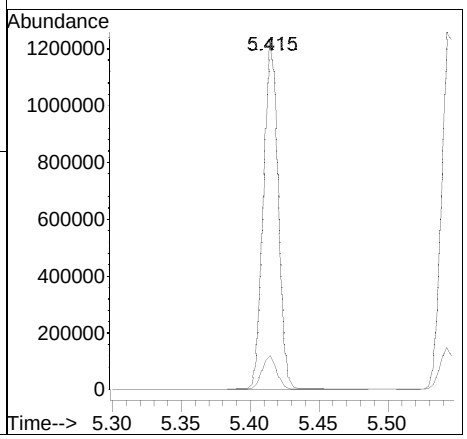


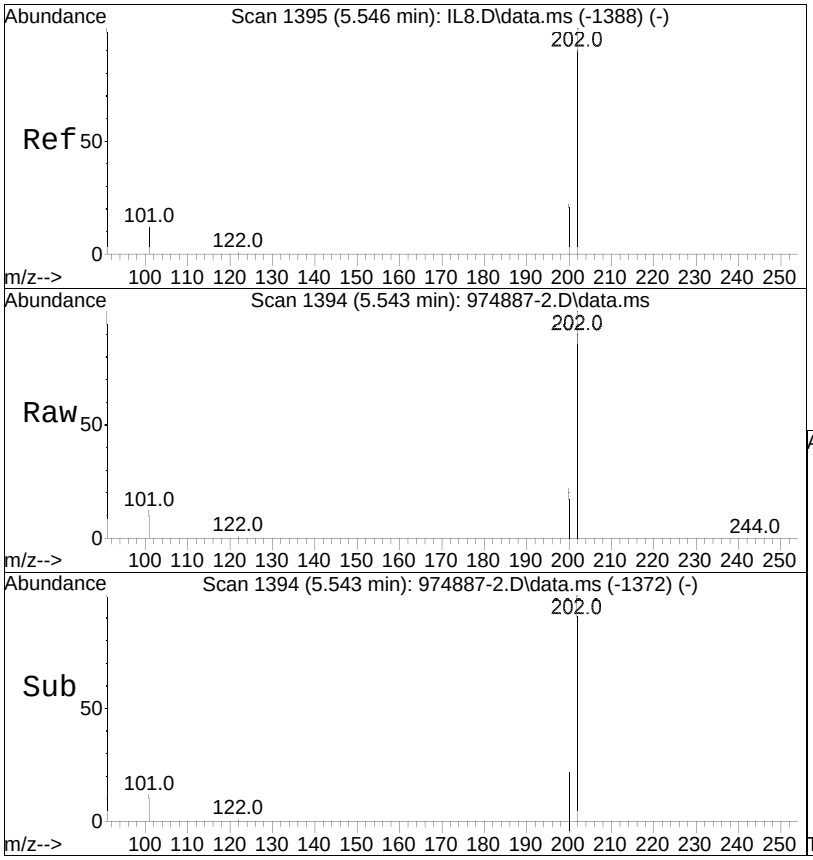


#28
Fluoranthene
Concen: 1861.95 ng/ml
RT: 5.415 min Scan# 1356
Delta R.T. -0.004 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:202 Resp: 923987

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.6	11.4

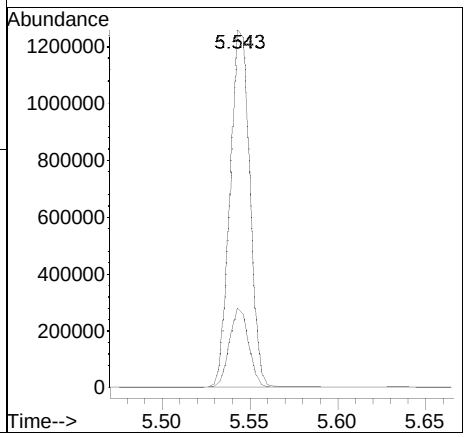


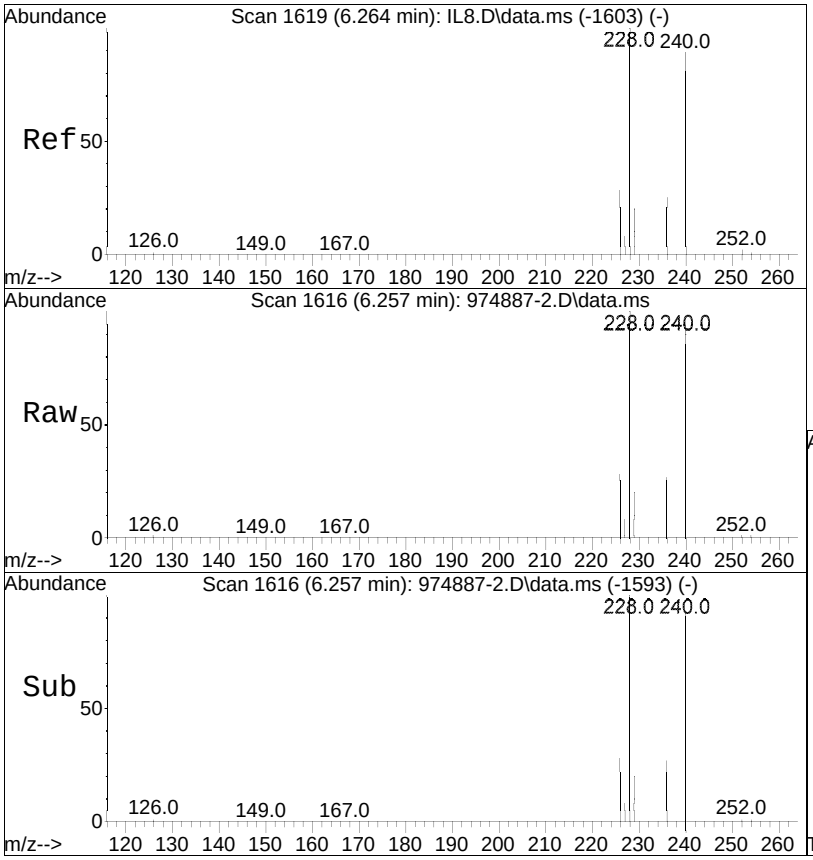


#29
Pyrene
Concen: 1861.89 ng/ml
RT: 5.543 min Scan# 1394
Delta R.T. -0.007 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:202 Resp: 974810

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8

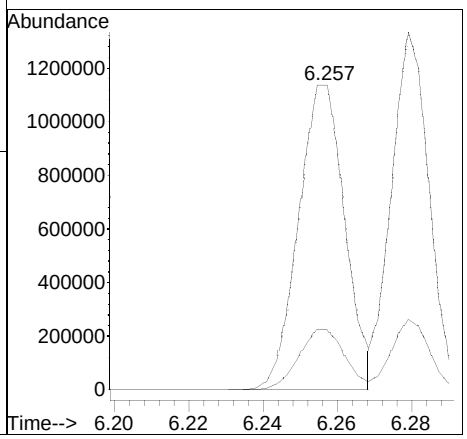


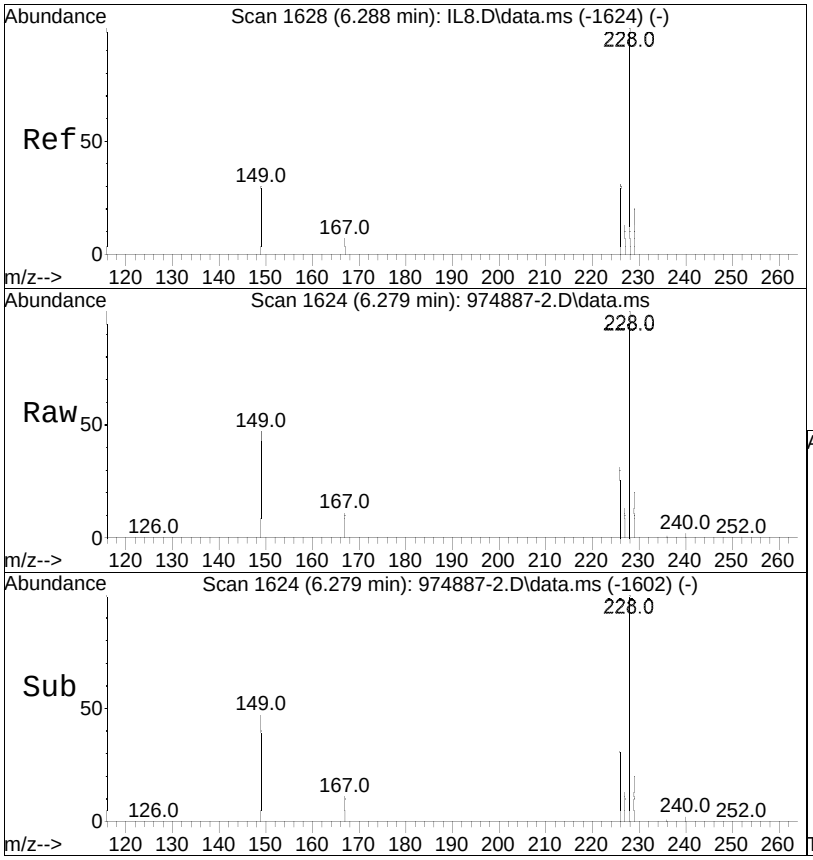


#32
Benzo[a]anthracene
Concen: 1887.10 ng/ml
RT: 6.257 min Scan# 1616
Delta R.T. -0.018 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:228 Resp: 988630

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

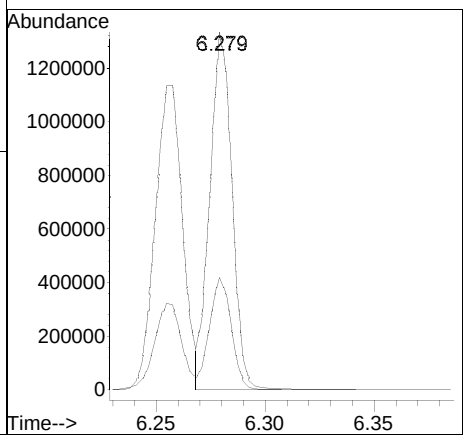


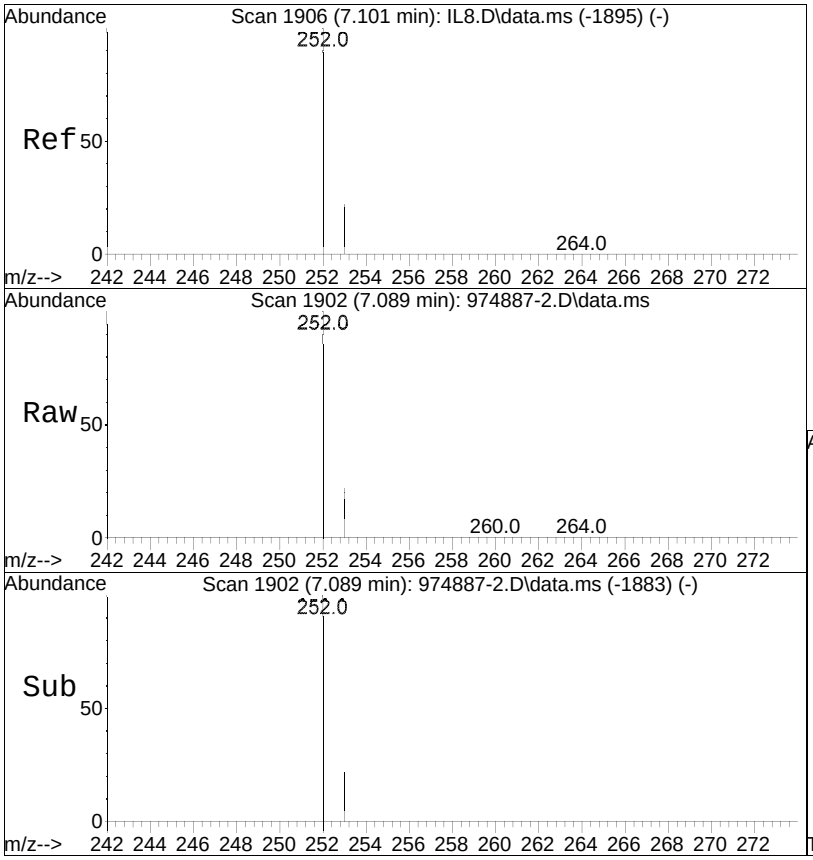


#34
Chrysene
Concen: 1859.27 ng/ml
RT: 6.279 min Scan# 1624
Delta R.T. -0.020 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:228 Resp: 940090

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.8	37.2

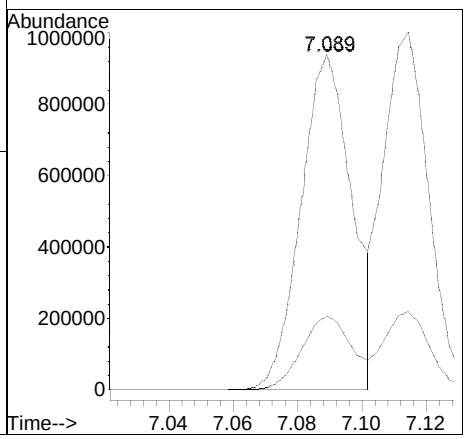


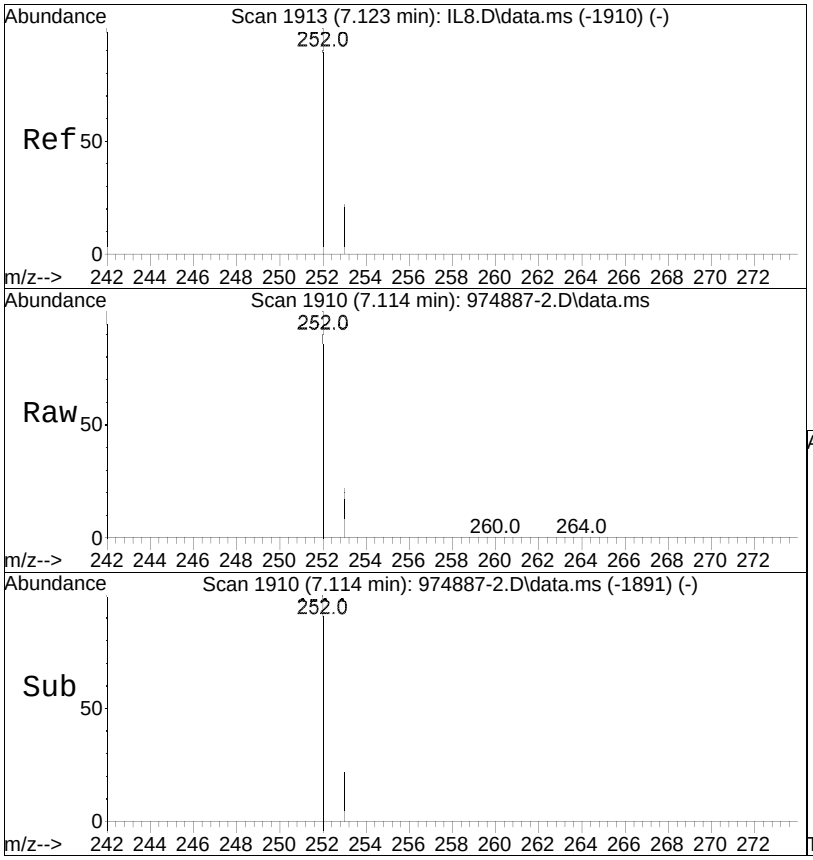


#37
Benzo[b]fluoranthene
Concen: 2201.60 ng/ml
RT: 7.089 min Scan# 1902
Delta R.T. -0.021 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:252 Resp: 1037617

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

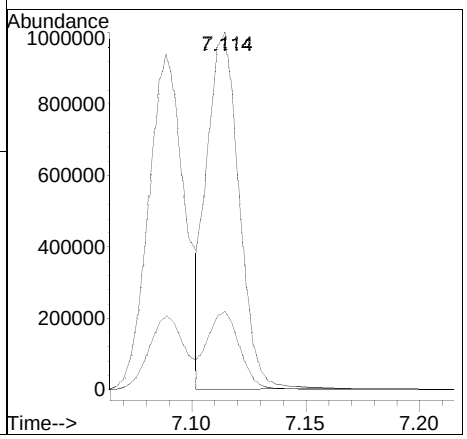


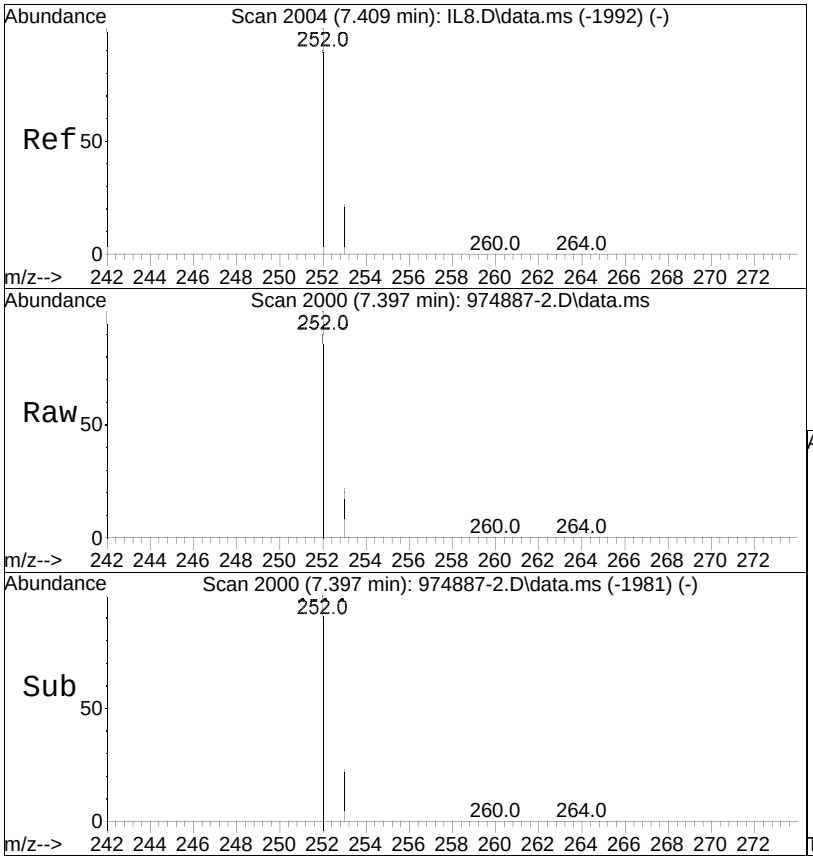


#38
Benzo[k]fluoranthene
Concen: 2105.56 ng/ml
RT: 7.114 min Scan# 1910
Delta R.T. -0.021 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:252 Resp: 972326

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3

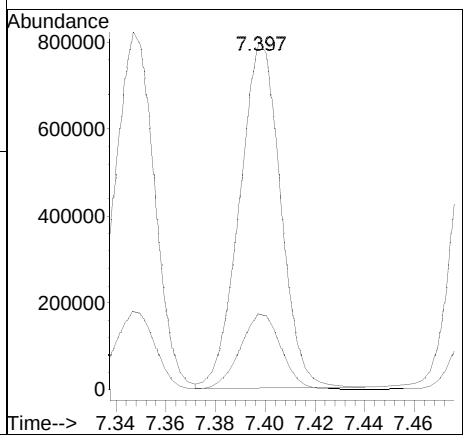


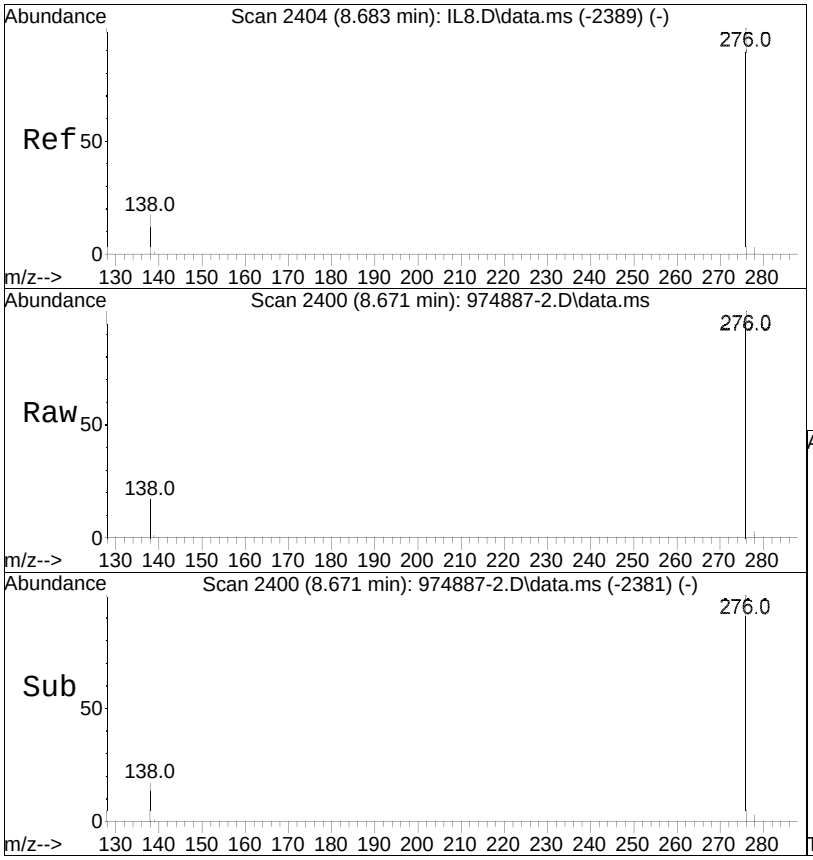


#39
Benzo[a]pyrene
Concen: 2217.27 ng/ml
RT: 7.397 min Scan# 2000
Delta R.T. -0.021 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:252 Resp: 909229

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

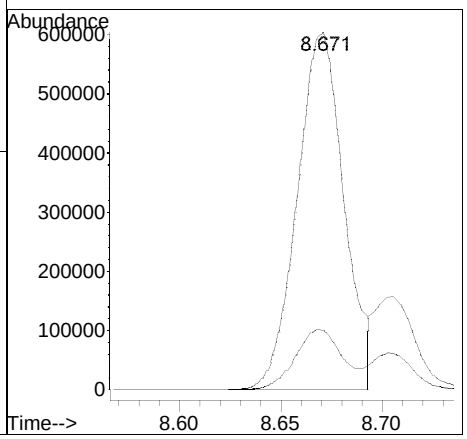


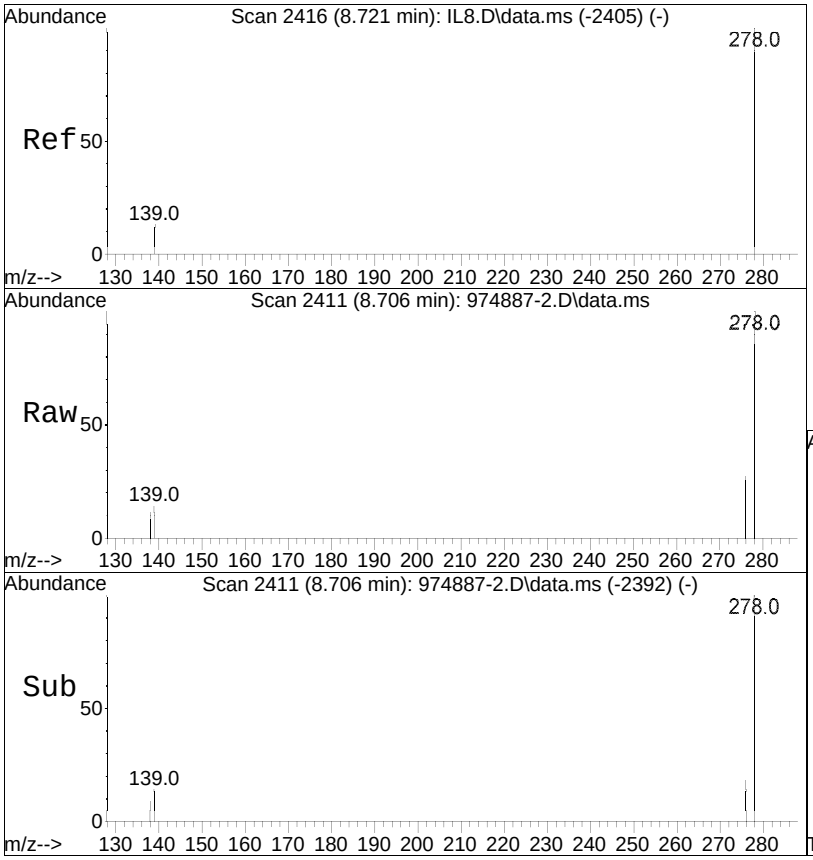


#40
Indeno[1,2,3-cd]pyrene
Concen: 2231.16 ng/ml
RT: 8.671 min Scan# 2400
Delta R.T. -0.021 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:276 Resp: 960908

Ion	Ratio	Lower	Upper
276	100		
138	16.6	13.1	19.7

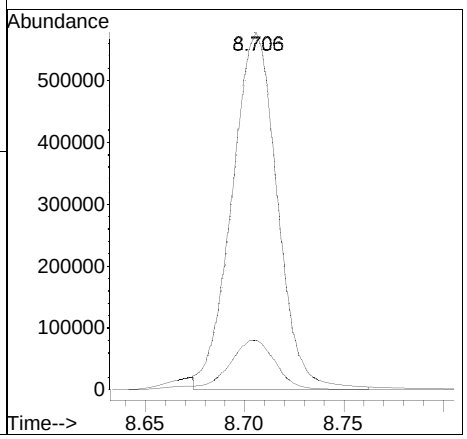


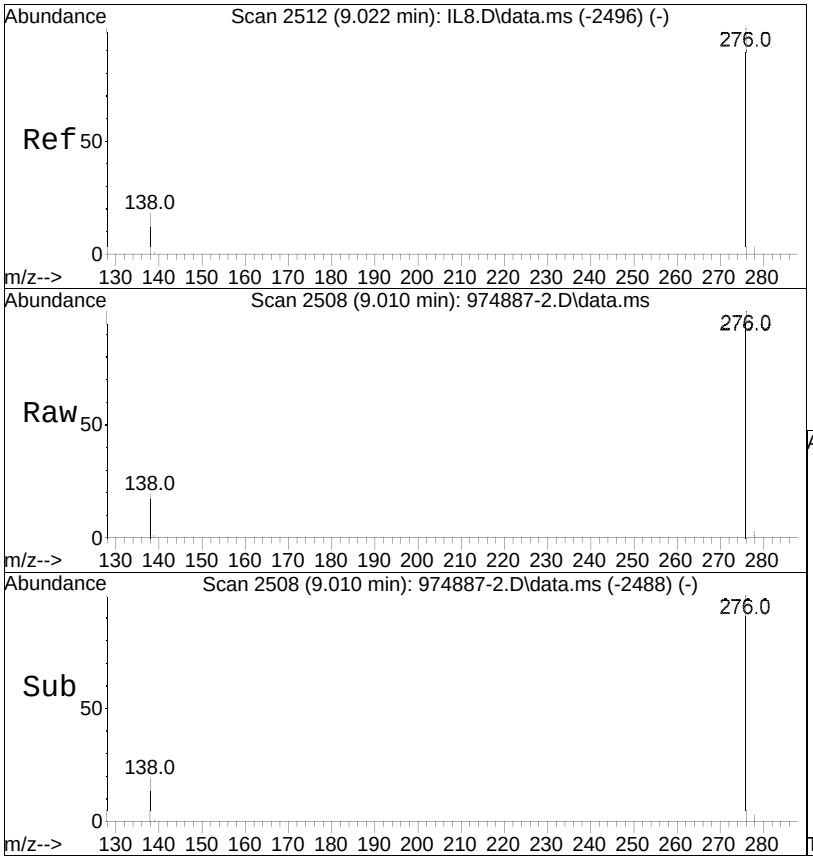


#41
Dibenzo[a,h]anthracene
Concen: 1857.38 ng/ml M6
RT: 8.706 min Scan# 2411
Delta R.T. -0.021 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:278 Resp: 912009

Ion	Ratio	Lower	Upper
278	100		
139	14.8	12.0	18.0

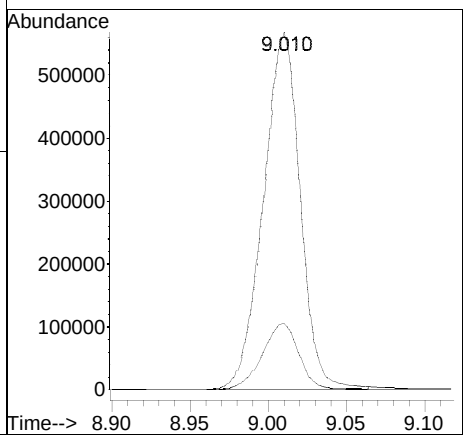




#42
Benzo[g,h,i]perylene
Concen: 2059.38 ng/ml
RT: 9.010 min Scan# 2508
Delta R.T. -0.018 min
Lab File: 974887-2.D
Acq: 23 Sep 2024 01:51 pm

Tgt Ion:276 Resp: 918474

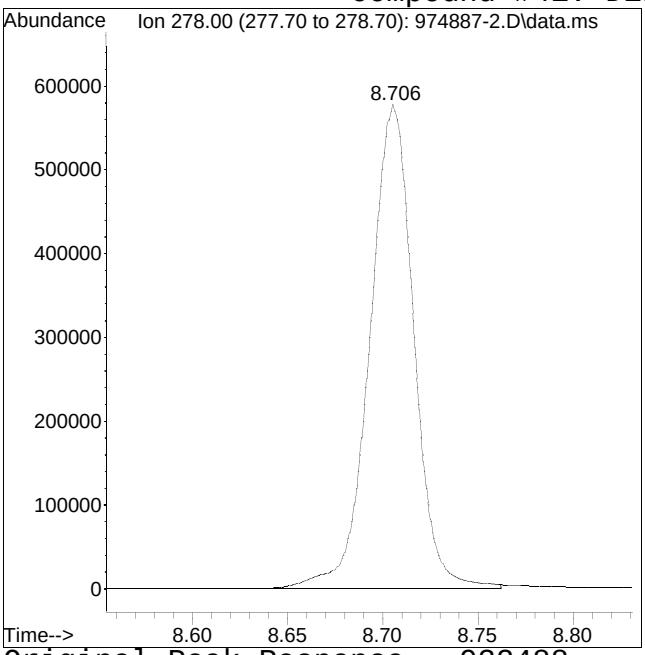
Ion	Ratio	Lower	Upper
276	100		
138	18.7	14.7	22.1



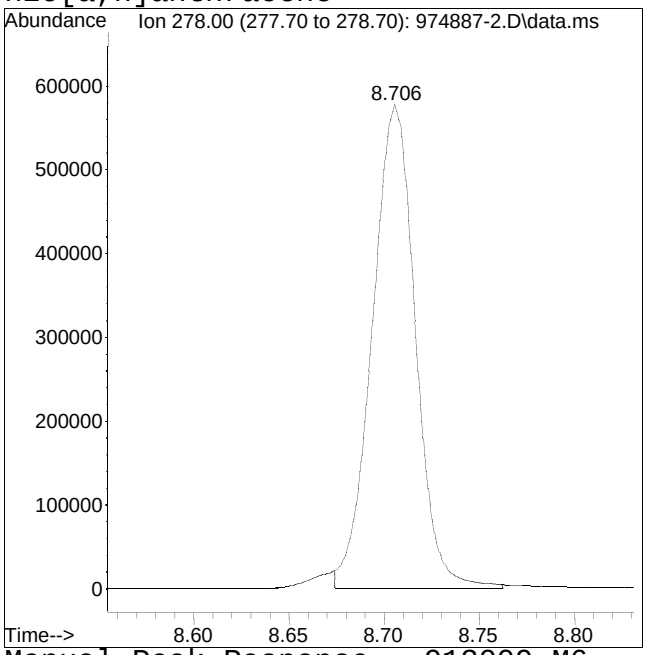
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 974887-2.D Operator : SV125:rp
Date Inj'd : 9/23/2024 1:51 pm Instrument : SV125
Sample : WG1974887-2,32,,kmh Quant Date : 9/23/2024 2:05 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 932488



Manual Peak Response = 912009 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-3.D
Acq On : 23 Sep 2024 02:07 pm
Operator : SV125:rp
Sample : WG1974887-3,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.244	152	397225	4000.000	ng/ml	0.01
Standard Area 1 = 460069			Recovery = 86.34%			
8) Naphthalene-d8	2.905	136	1424376	4000.000	ng/ml	# 0.00
Standard Area 1 = 1621592			Recovery = 87.84%			
17) Acenaphthene-d10	3.885	164	831869	4000.000	ng/ml	0.00
Standard Area 1 = 1067942			Recovery = 77.89%			
22) Phenanthrene-d10	4.726	188	1753832	4000.000	ng/ml	0.00
Standard Area 1 = 2401860			Recovery = 73.02%			
31) Chrysene-d12	6.264	240	1810651	4000.000	ng/ml	-0.02
Standard Area 1 = 2825989			Recovery = 64.07%			
36) Perylene-d12	7.463	264	2006233	4000.000	ng/ml	-0.02
Standard Area 1 = 3363993			Recovery = 59.64%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	73383	750.748	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.54%			
3) Phenol-d6	2.053	99	76779	636.926	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.85%			
7) Nitrobenzene-d5	2.521	82	66596	1074.133	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.41%			
13) 2-Fluorobiphenyl	3.505	172	221520	733.948	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 73.39%			
21) 2,4,6-Tribromophenol	4.328	330	46563	1289.215	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 64.46%			
30) 4-Terphenyl-d14	5.635	244	312339	876.350	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.64%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.105	93	167465	1563.418	ng/ml	99
6) Hexachloroethane	2.501	117	68301	1575.344	ng/ml	98
9) Naphthalene	2.915	128	556193	1466.078	ng/ml#	97
10) Hexachlorobutadiene	2.988	225	113552	1481.515	ng/ml	100
11) 2-Methylnaphthalene	3.298	142	381027	1568.142	ng/ml	100
14) 2-Chloronaphthalene	3.569	162	400709	1557.448	ng/ml	93
16) Acenaphthylene	3.803	152	602835	1613.315	ng/ml	99
18) Acenaphthene	3.903	153	420289	1656.788	ng/ml	98
20) Fluorene	4.191	166	478283	1719.879	ng/ml	100
24) Hexachlorobenzene	4.511	284	190754	1699.614	ng/ml	99

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-3.D
Acq On : 23 Sep 2024 02:07 pm
Operator : SV125:rp
Sample : WG1974887-3,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV125\240923aRVT\ccv0923a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.620	266	39950	970.740	ng/ml	99
26) Phenanthrene	4.739	178	780367	1724.798	ng/ml	100
27) Anthracene	4.767	178	794671	1770.303	ng/ml	100
28) Fluoranthene	5.415	202	950126	1851.346	ng/ml	99
29) Pyrene	5.543	202	1009637	1864.681	ng/ml	100
32) Benzo[a]anthracene	6.256	228	1028909	1925.555	ng/ml	100
34) Chrysene	6.280	228	945398	1832.989	ng/ml	98
37) Benzo[b]fluoranthene	7.089	252	1045938	2228.021	ng/ml	100
38) Benzo[k]fluoranthene	7.114	252	968401	2105.337	ng/ml	100
39) Benzo[a]pyrene	7.397	252	903598	2212.236	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.671	276	946339	2206.008	ng/ml	100
41) Dibenzo[a,h]anthracene	8.705	278	895472M6	1833.008	ng/ml	
42) Benzo[g,h,i]perylene	9.010	276	901155	2028.526	ng/ml	99

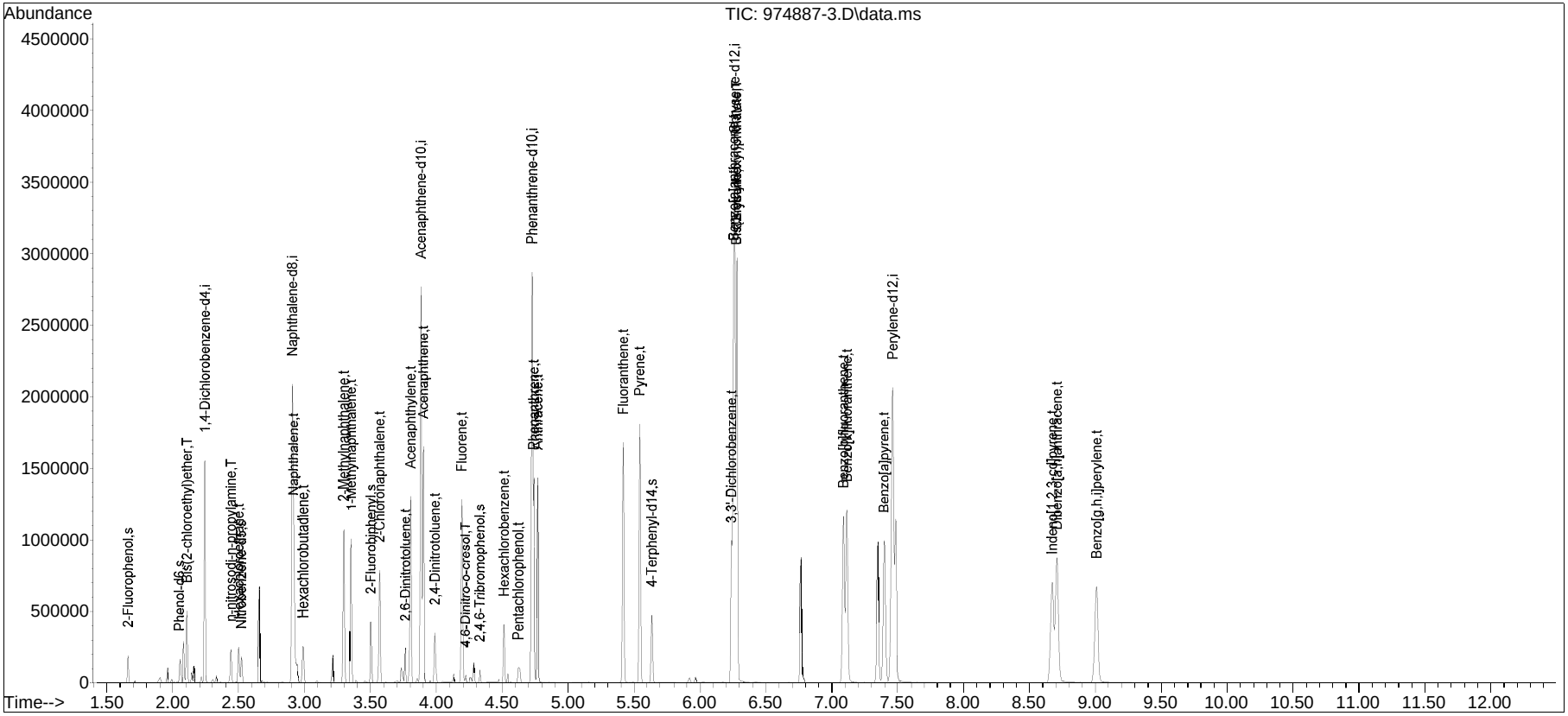
(#) = qualifier out of range (m) = manual integration (+) = signals summed

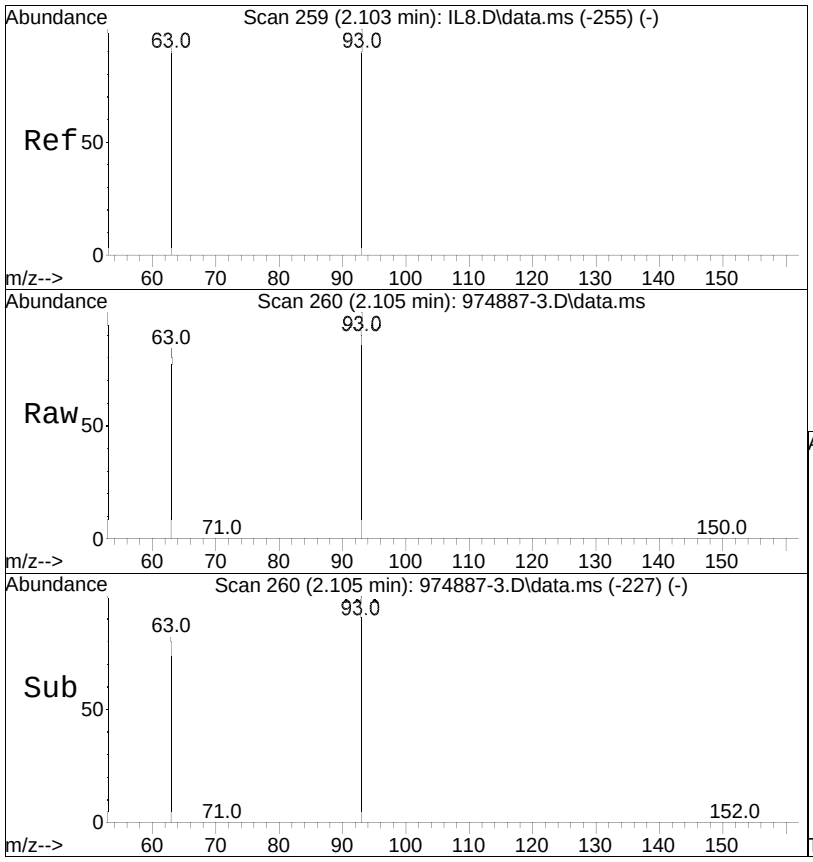
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240923aRVT\
Data File : 974887-3.D
Acq On : 23 Sep 2024 02:07 pm
Operator : SV125:rp
Sample : WG1974887-3,32,,kmh
Misc : WG1975073,WG1974887,ical21503
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270sim\SV125\240923aRVT\SIM-RVT_240917n_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 23 10:09:47 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0923a.D•

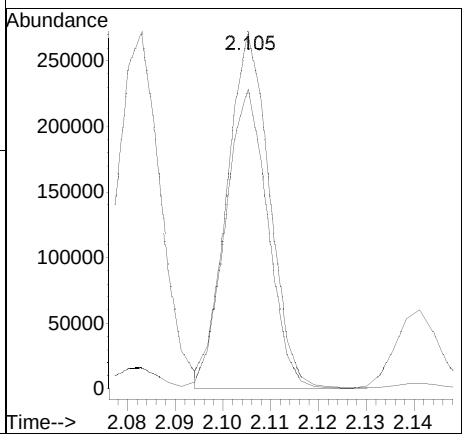


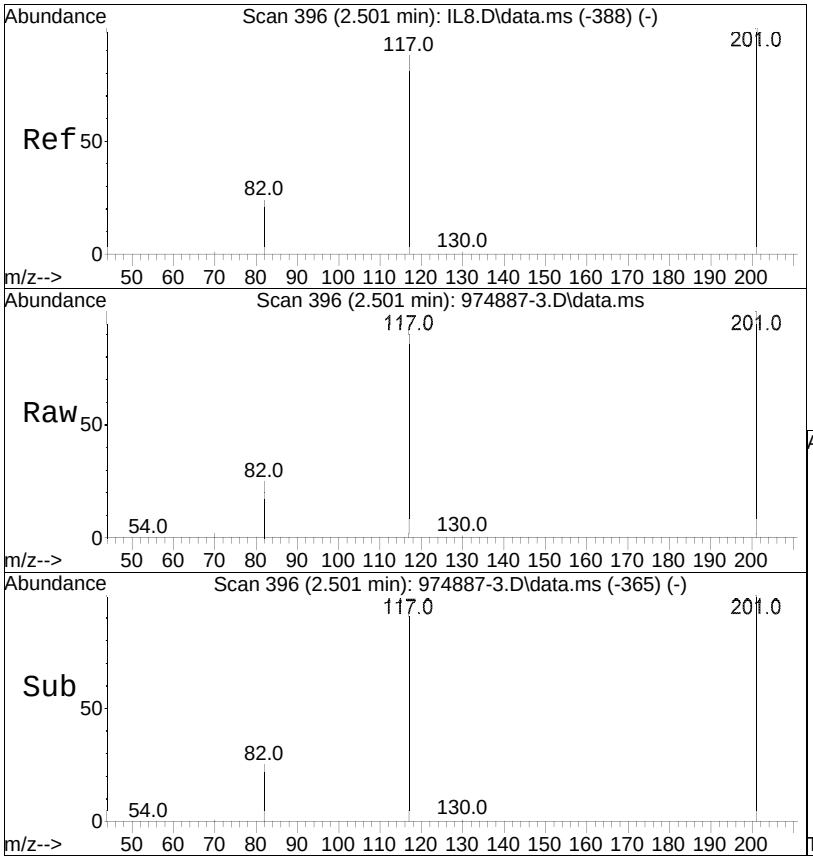


#4
Bis(2-chloroethyl)ether
Concen: 1563.42 ng/ml
RT: 2.105 min Scan# 260
Delta R.T. 0.011 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion: 93 Resp: 167465

Ion	Ratio	Lower	Upper
93	100		
63	83.3	66.1	99.1

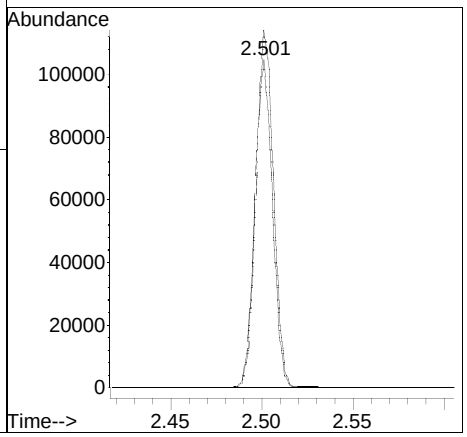


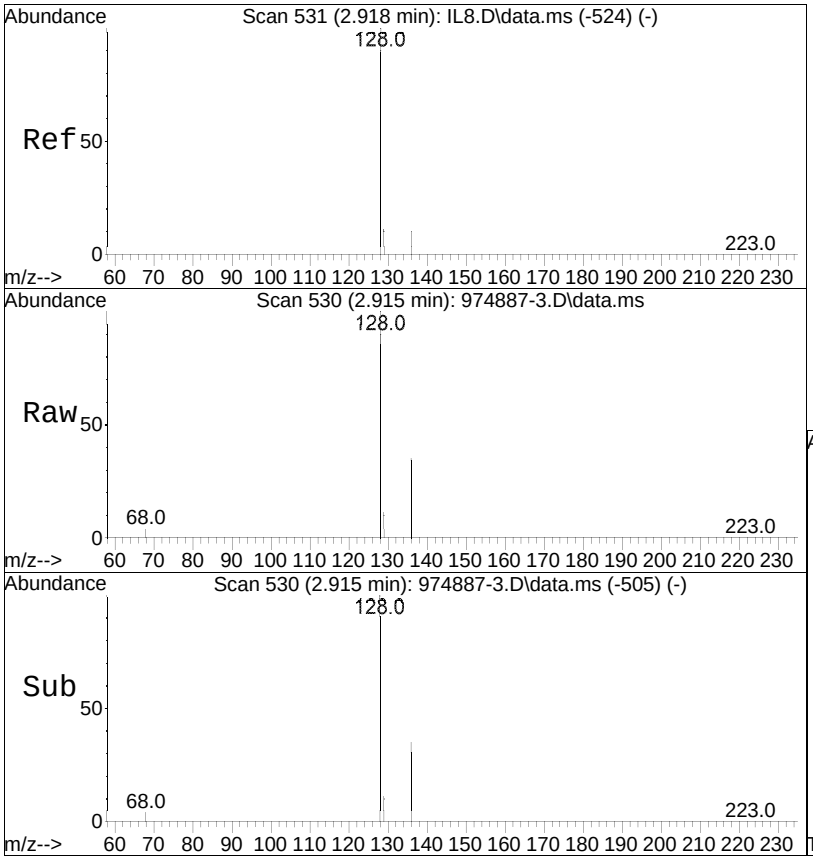


#6
Hexachloroethane
Concen: 1575.34 ng/ml
RT: 2.501 min Scan# 396
Delta R.T. 0.008 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:117 Resp: 68301

Ion	Ratio	Lower	Upper
117	100		
201	110.1	89.9	134.9

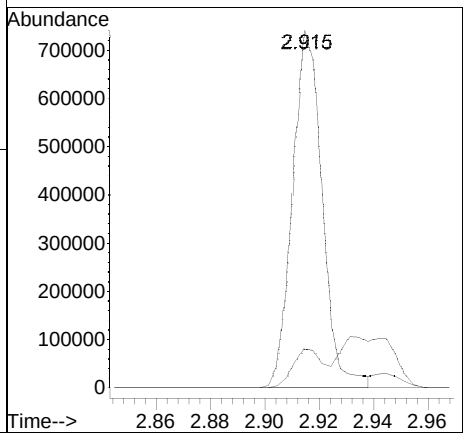


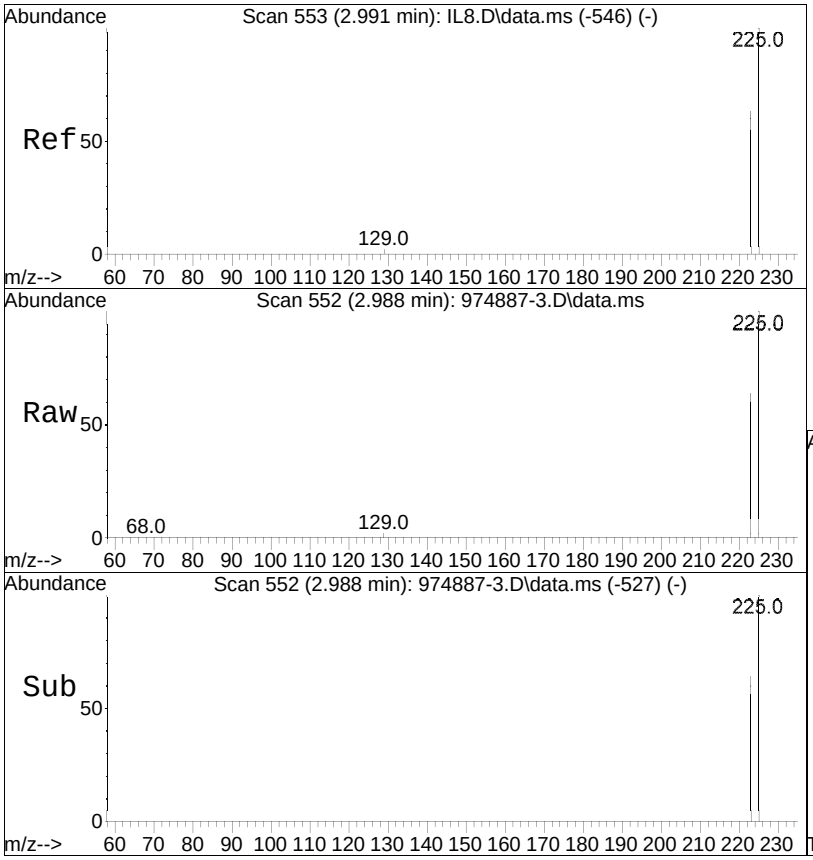


#9
Naphthalene
Concen: 1466.08 ng/ml
RT: 2.915 min Scan# 530
Delta R.T. 0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:128 Resp: 556193

Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.8	13.2
127	0.0	0.0	0.0

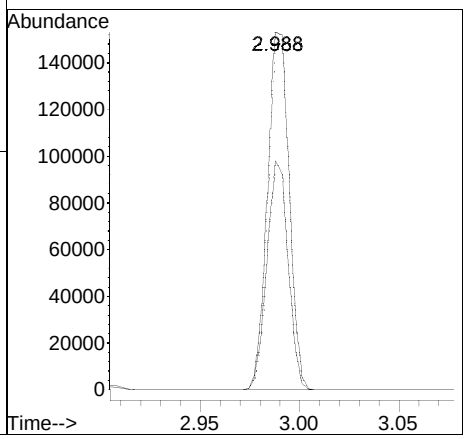


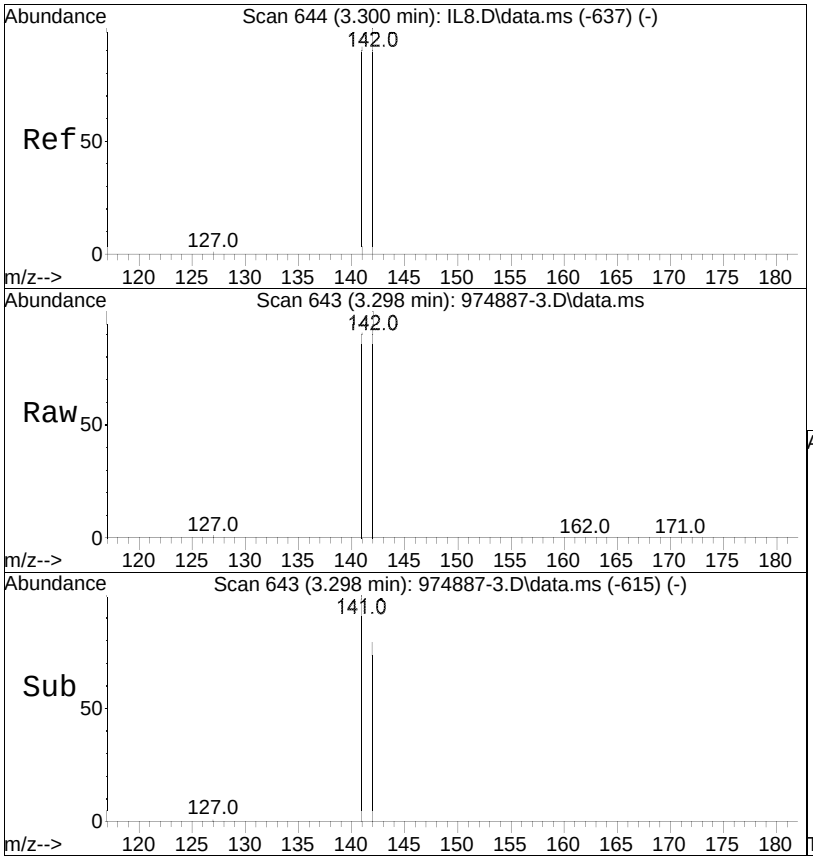


#10
Hexachlorobutadiene
Concen: 1481.52 ng/ml
RT: 2.988 min Scan# 552
Delta R.T. 0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:225 Resp: 113552

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.9	74.9

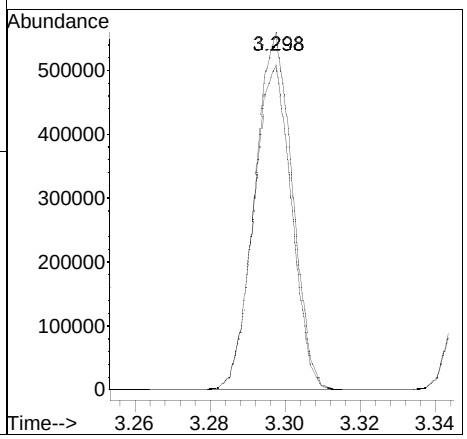


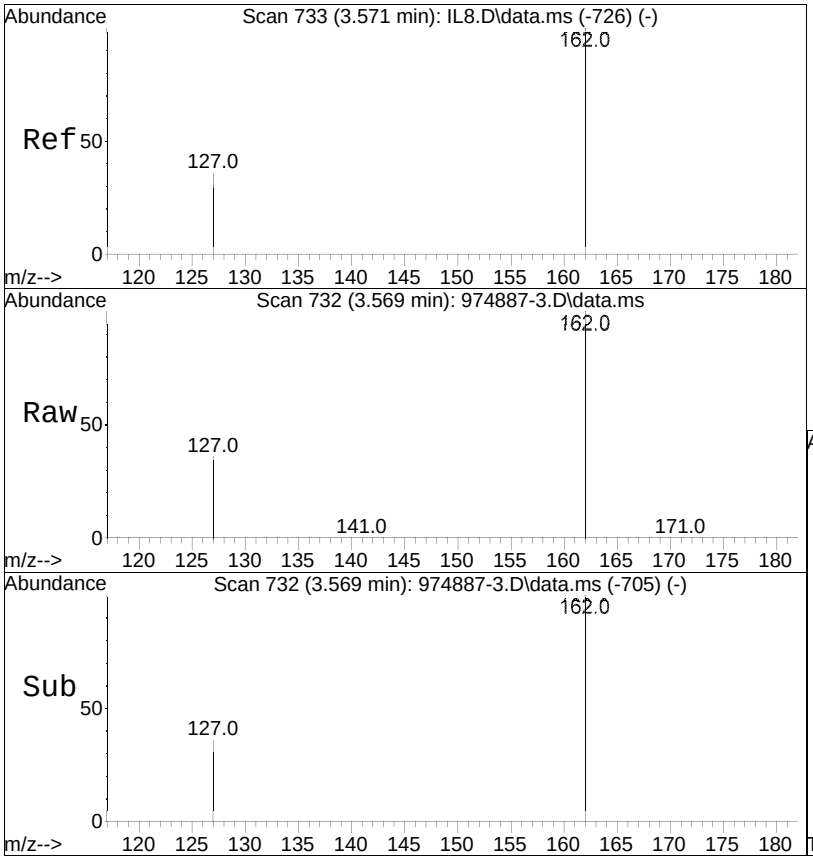


#11
2-Methylnaphthalene
Concen: 1568.14 ng/ml
RT: 3.298 min Scan# 643
Delta R.T. 0.006 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:142 Resp: 381027

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.8	110.6

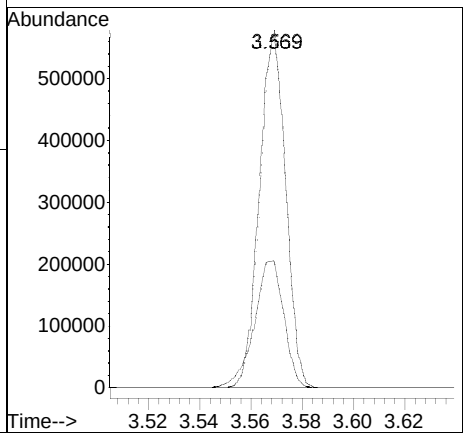


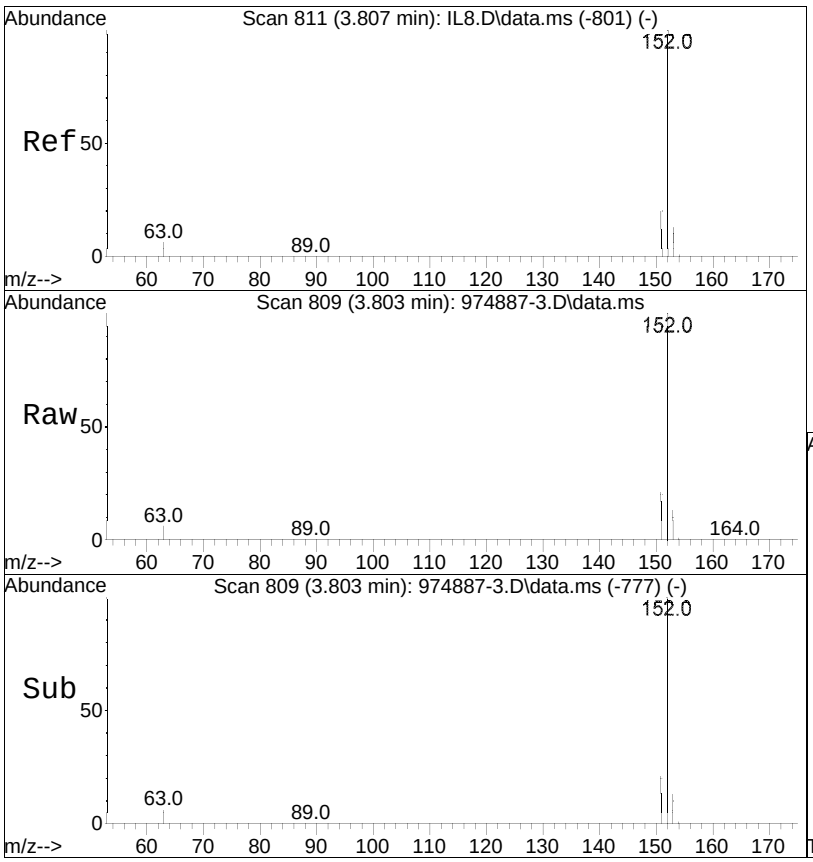


#14
2-Chloronaphthalene
Concen: 1557.45 ng/ml
RT: 3.569 min Scan# 732
Delta R.T. 0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:162 Resp: 400709

Ion	Ratio	Lower	Upper
162	100		
127	40.6	29.4	44.0

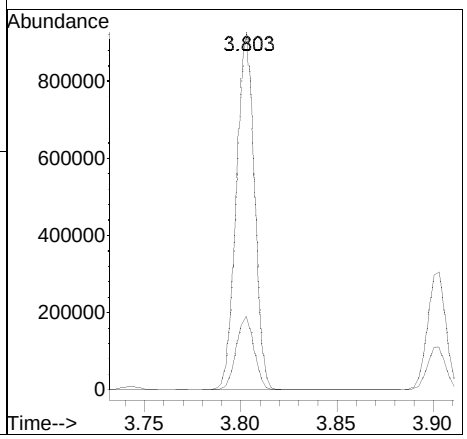


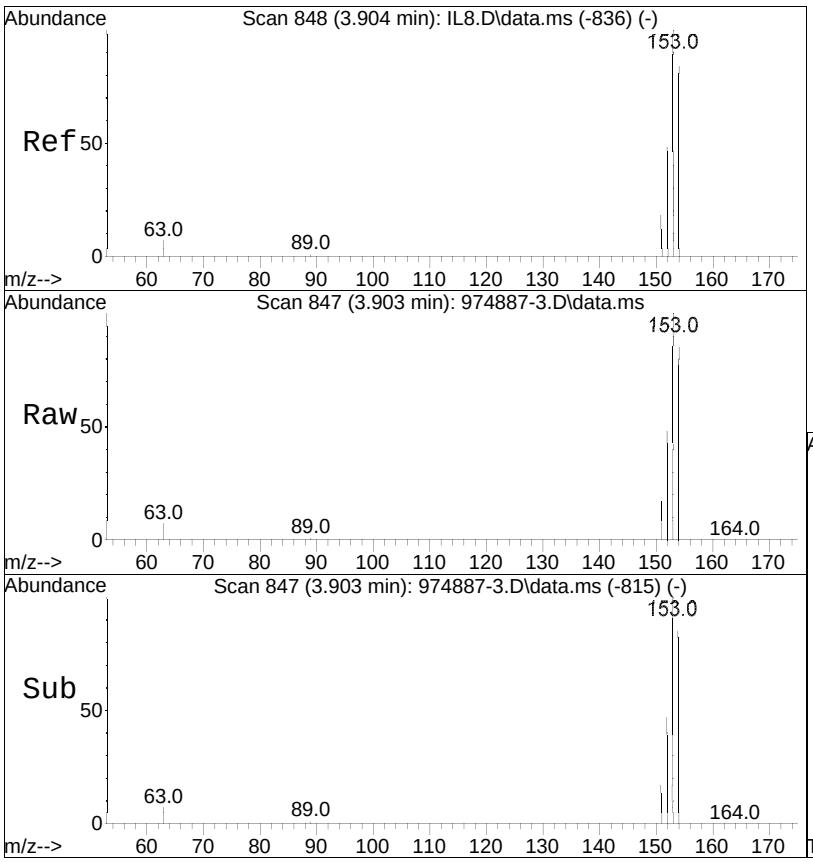


#16
Acenaphthylene
Concen: 1613.32 ng/ml
RT: 3.803 min Scan# 809
Delta R.T. 0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:152 Resp: 602835

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4

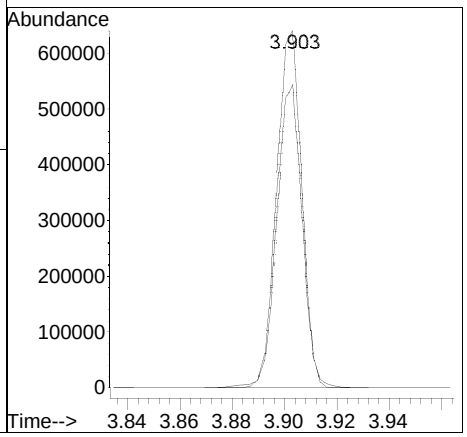


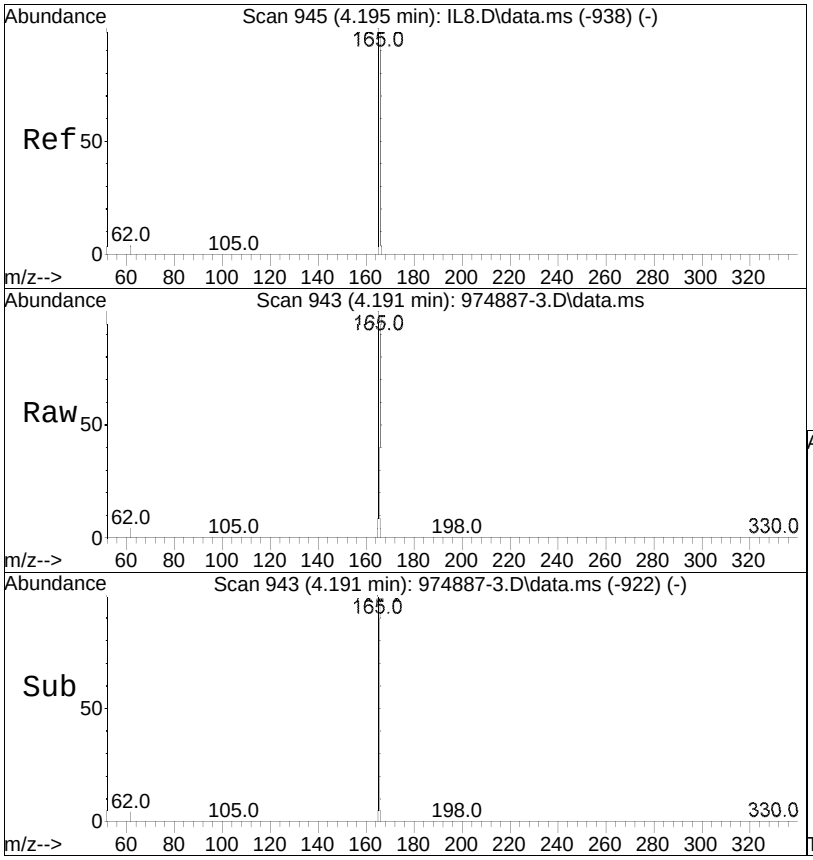


#18
Acenaphthene
Concen: 1656.79 ng/ml
RT: 3.903 min Scan# 847
Delta R.T. 0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:153 Resp: 420289

Ion	Ratio	Lower	Upper
153	100		
154	86.2	70.3	105.5

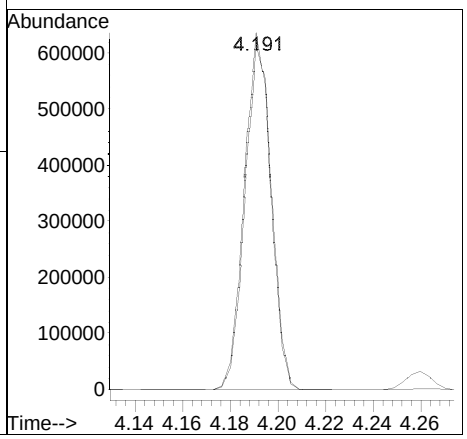


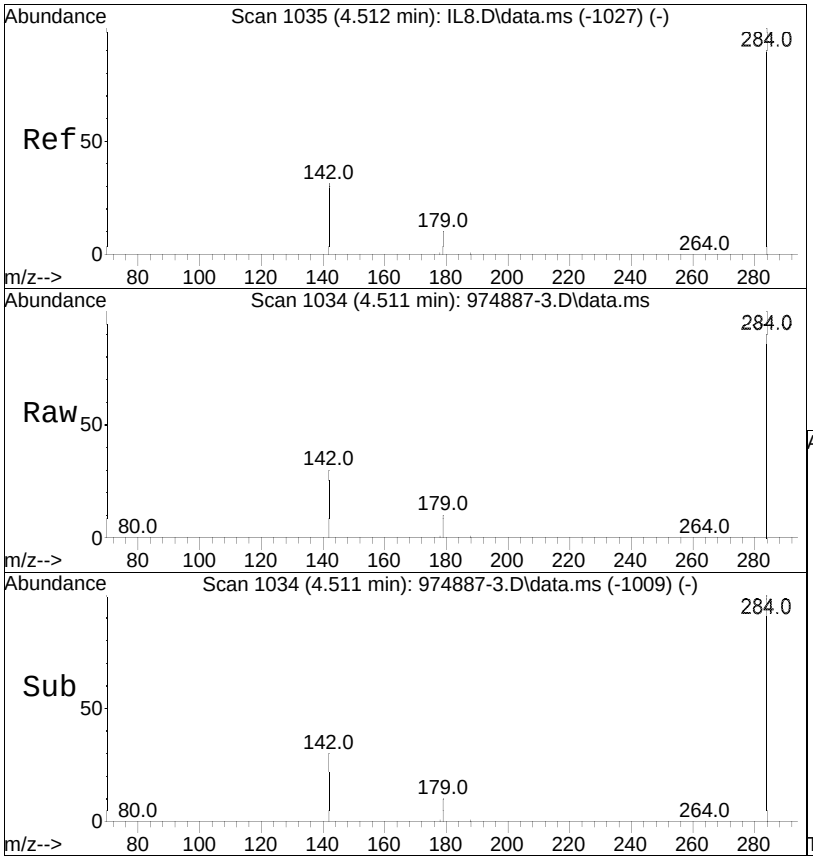


#20
Fluorene
Concen: 1719.88 ng/ml
RT: 4.191 min Scan# 943
Delta R.T. 0.002 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:166 Resp: 478283

Ion	Ratio	Lower	Upper
166	100		
165	102.4	82.0	123.0

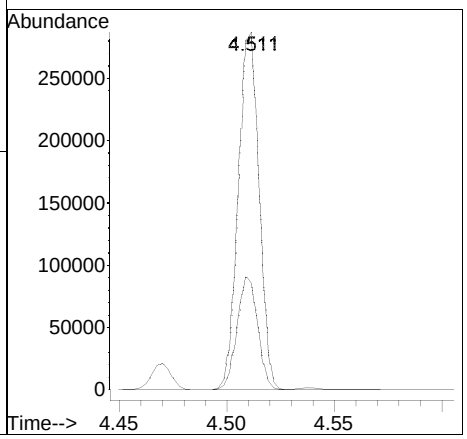


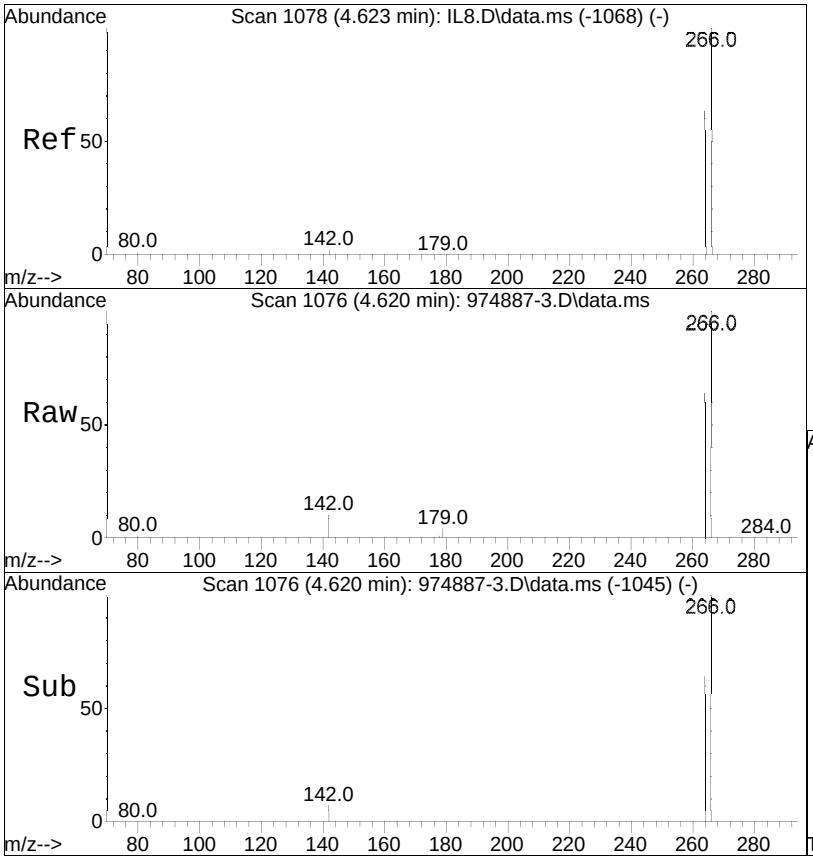


#24
Hexachlorobenzene
Concen: 1699.61 ng/ml
RT: 4.511 min Scan# 1034
Delta R.T. 0.002 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:284 Resp: 190754

Ion	Ratio	Lower	Upper
284	100		
142	31.3	24.4	36.6

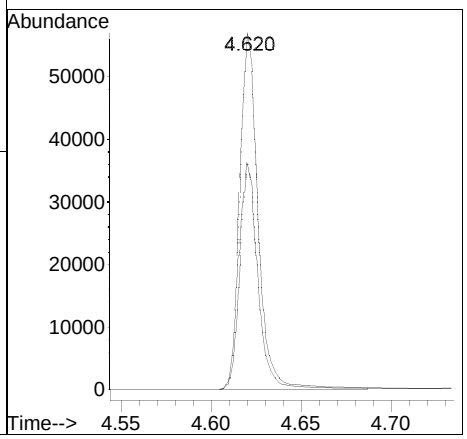


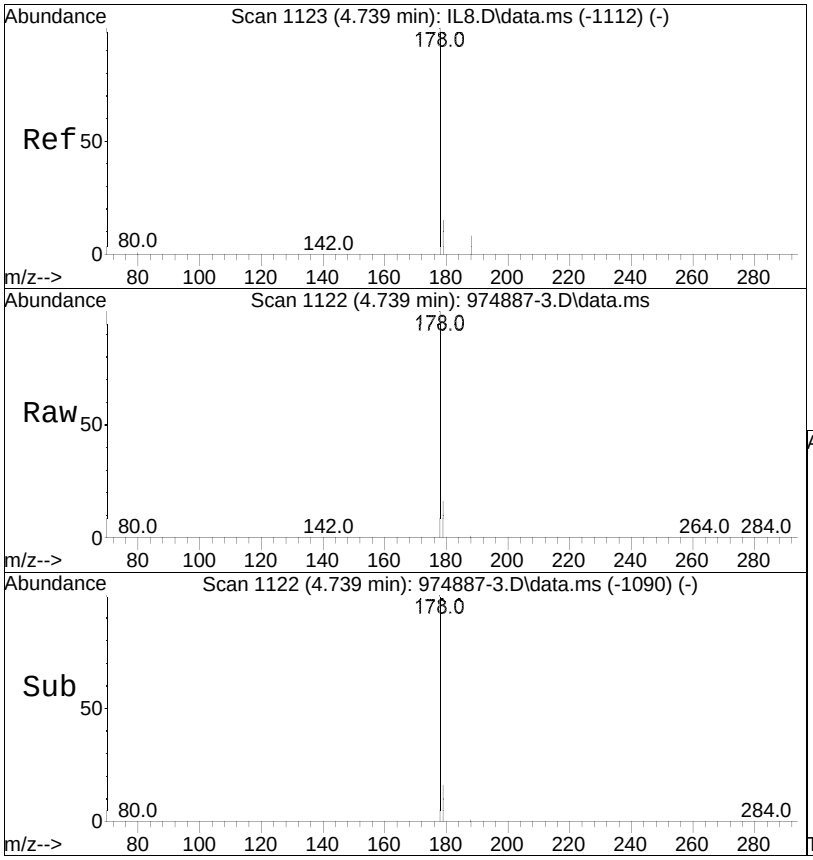


#25
Pentachlorophenol
Concen: 970.74 ng/ml
RT: 4.620 min Scan# 1076
Delta R.T. -0.001 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:266 Resp: 39950

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.4	75.6

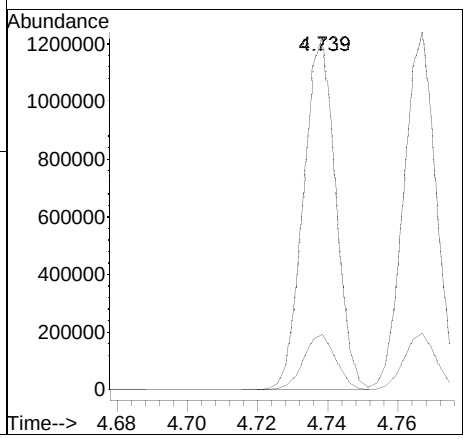


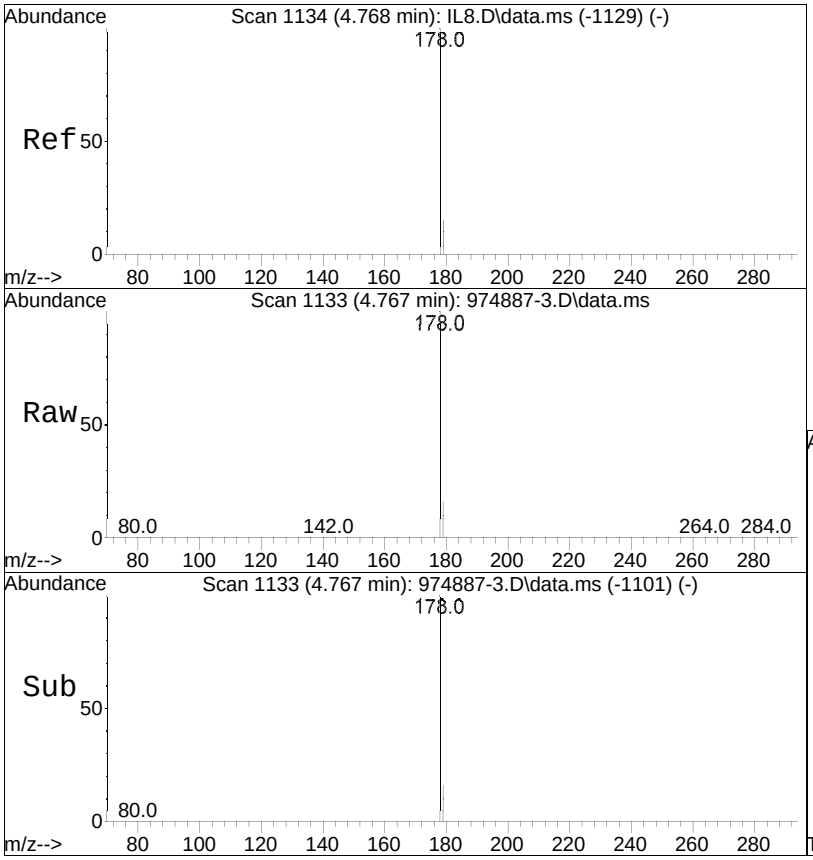


#26
Phenanthrene
Concen: 1724.80 ng/ml
RT: 4.739 min Scan# 1122
Delta R.T. 0.002 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:178 Resp: 780367

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

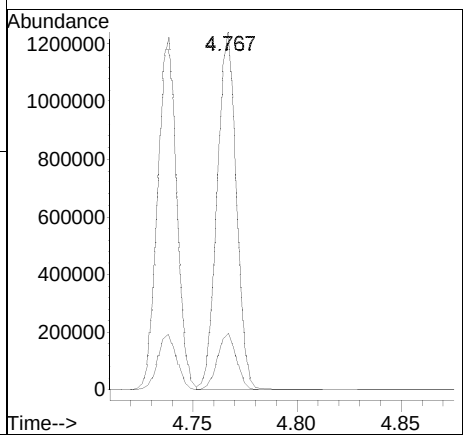


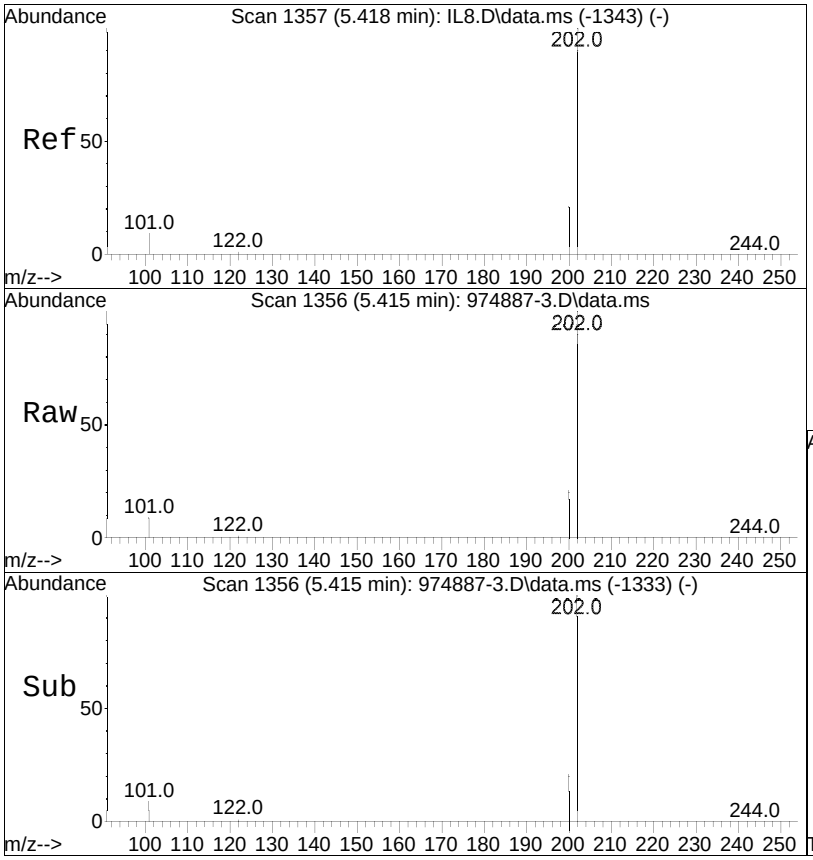


#27
Anthracene
Concen: 1770.30 ng/ml
RT: 4.767 min Scan# 1133
Delta R.T. 0.002 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:178 Resp: 794671

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

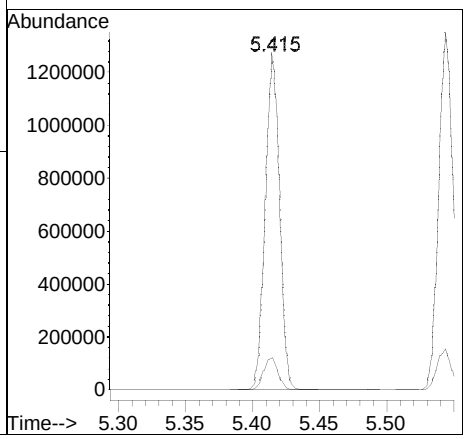


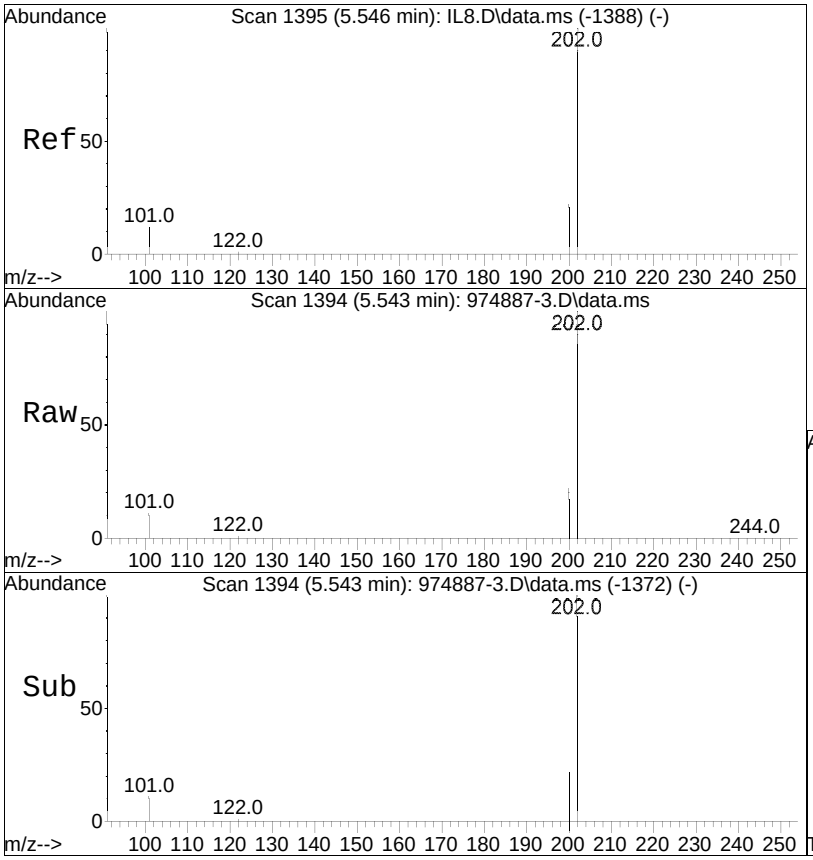


#28
Fluoranthene
Concen: 1851.35 ng/ml
RT: 5.415 min Scan# 1356
Delta R.T. -0.003 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:202 Resp: 950126

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.6	11.4

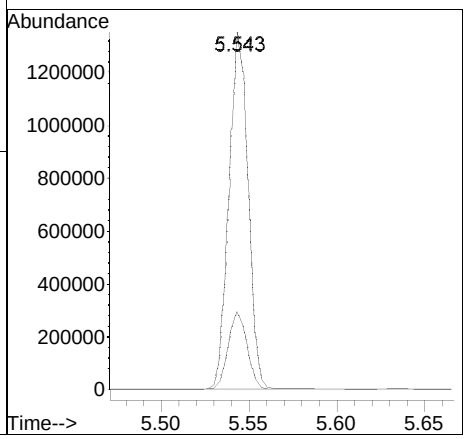


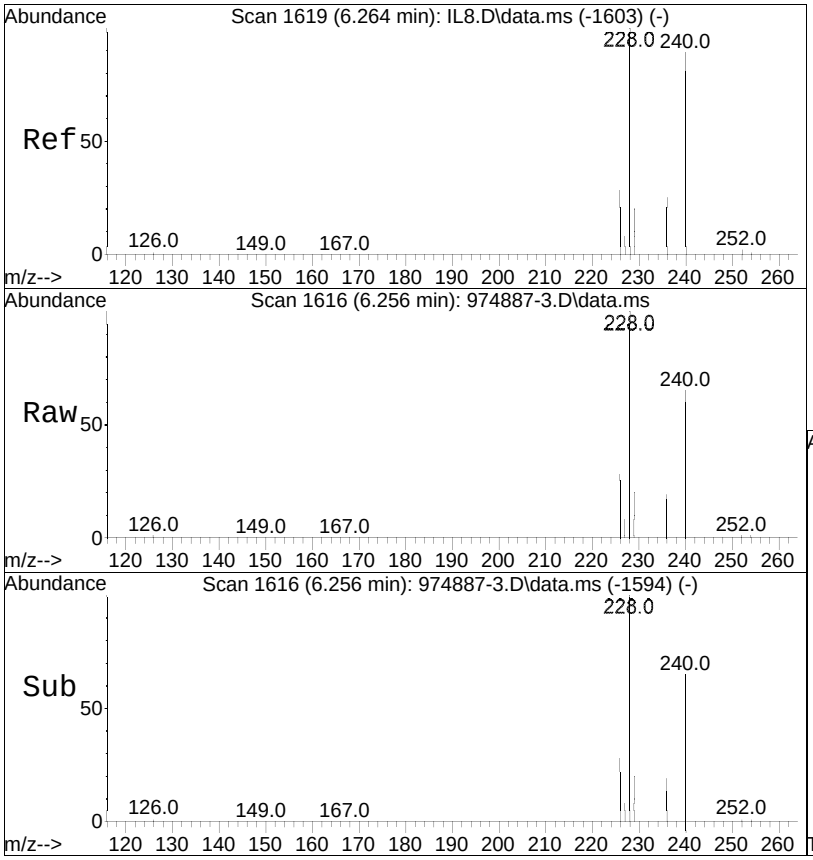


#29
Pyrene
Concen: 1864.68 ng/ml
RT: 5.543 min Scan# 1394
Delta R.T. -0.007 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:202 Resp: 1009637

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8

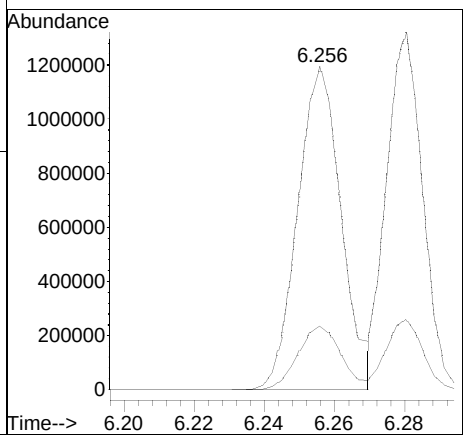


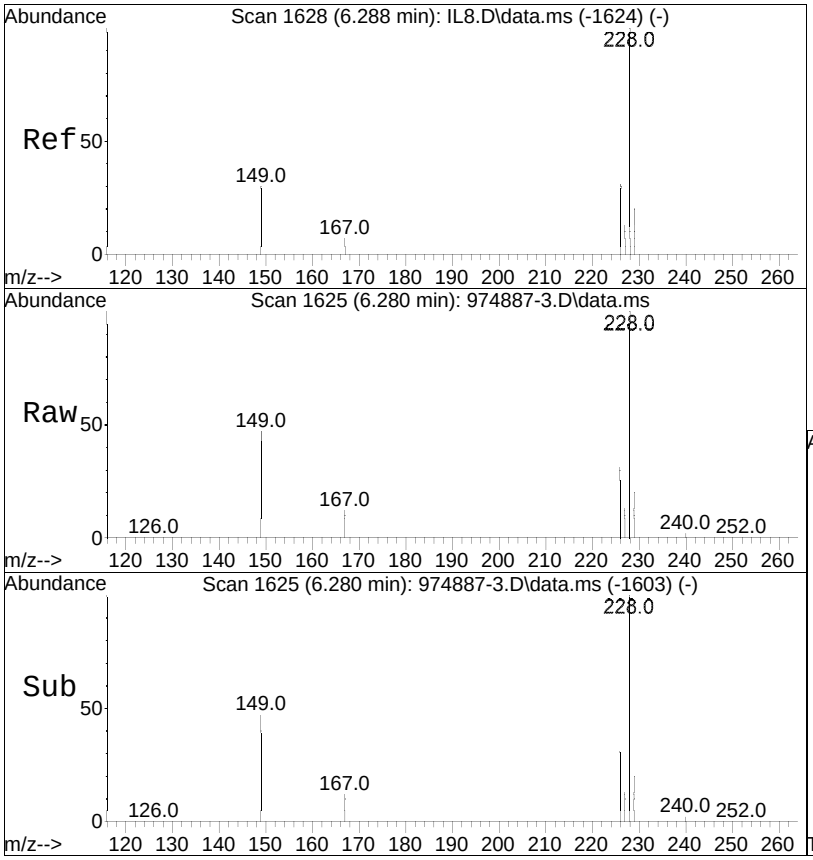


#32
Benzo[a]anthracene
Concen: 1925.55 ng/ml
RT: 6.256 min Scan# 1616
Delta R.T. -0.019 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:228 Resp: 1028909

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

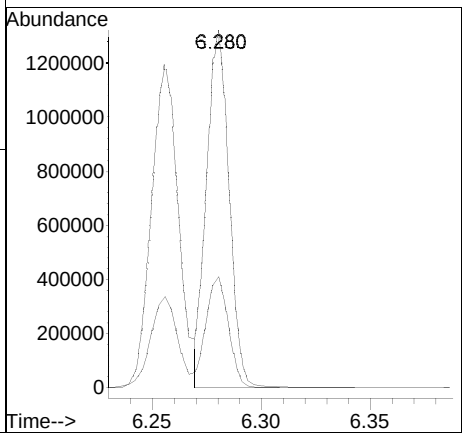


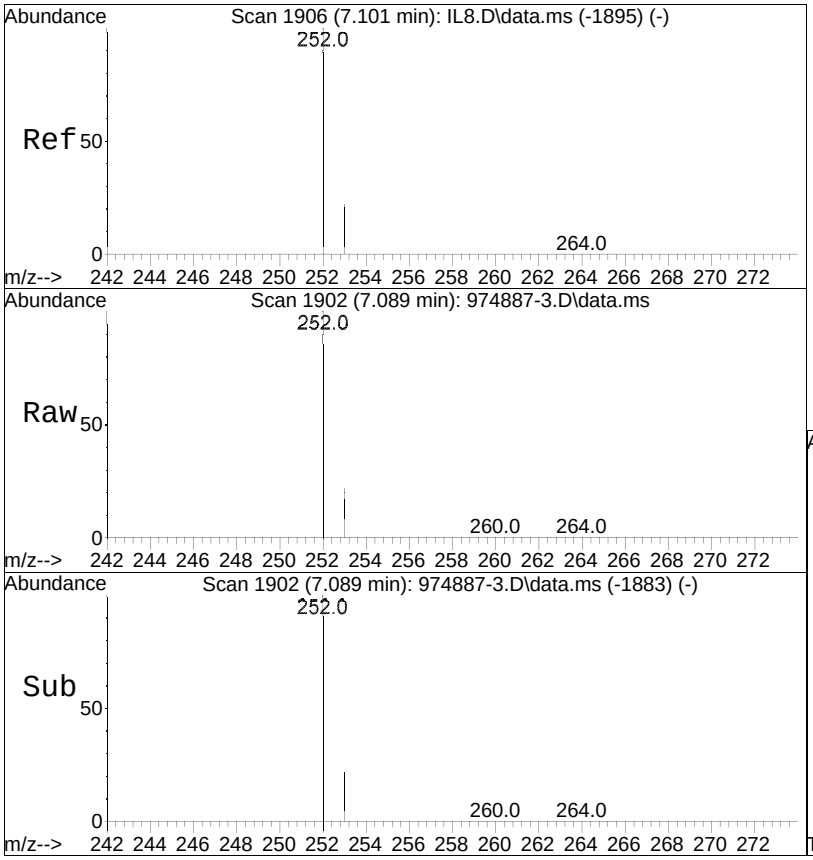


#34
Chrysene
Concen: 1832.99 ng/ml
RT: 6.280 min Scan# 1625
Delta R.T. -0.019 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:228 Resp: 945398

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.8	37.2

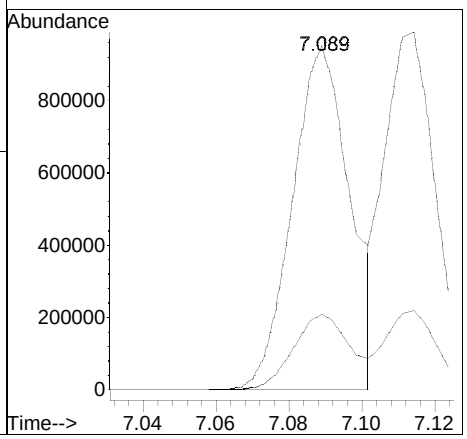


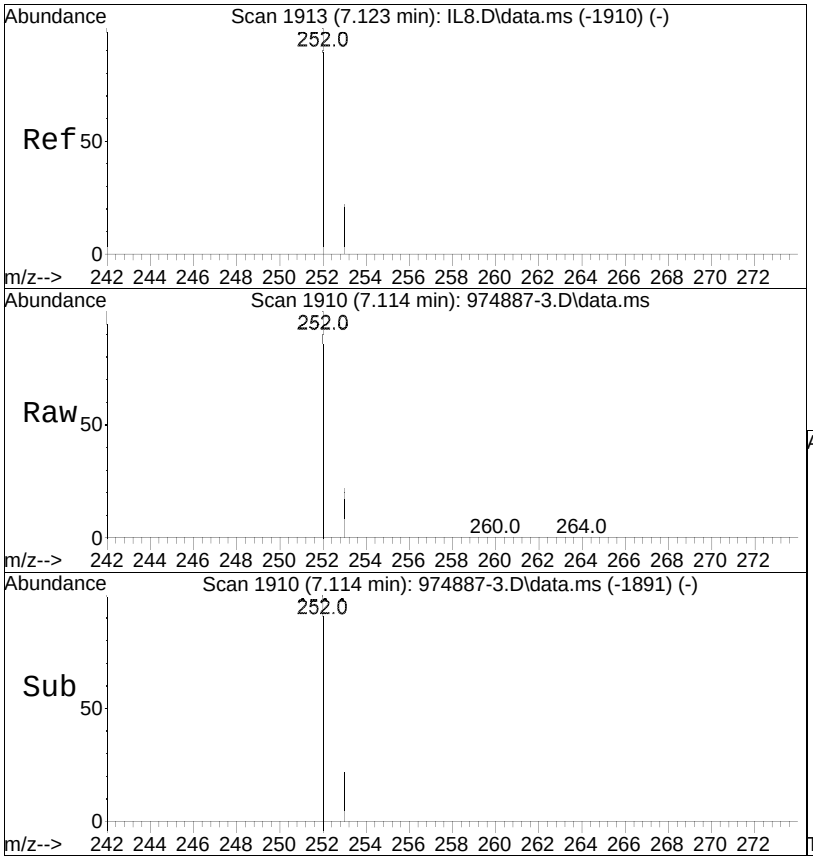


#37
Benzo[b]fluoranthene
Concen: 2228.02 ng/ml
RT: 7.089 min Scan# 1902
Delta R.T. -0.021 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:252 Resp: 1045938

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

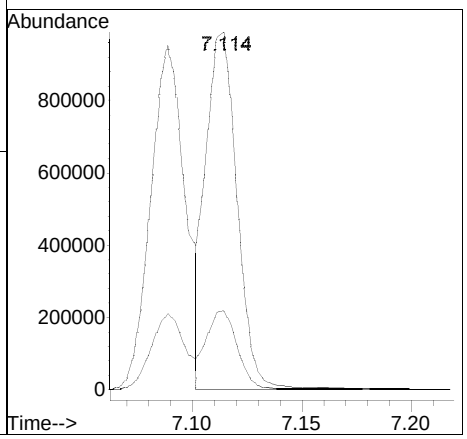


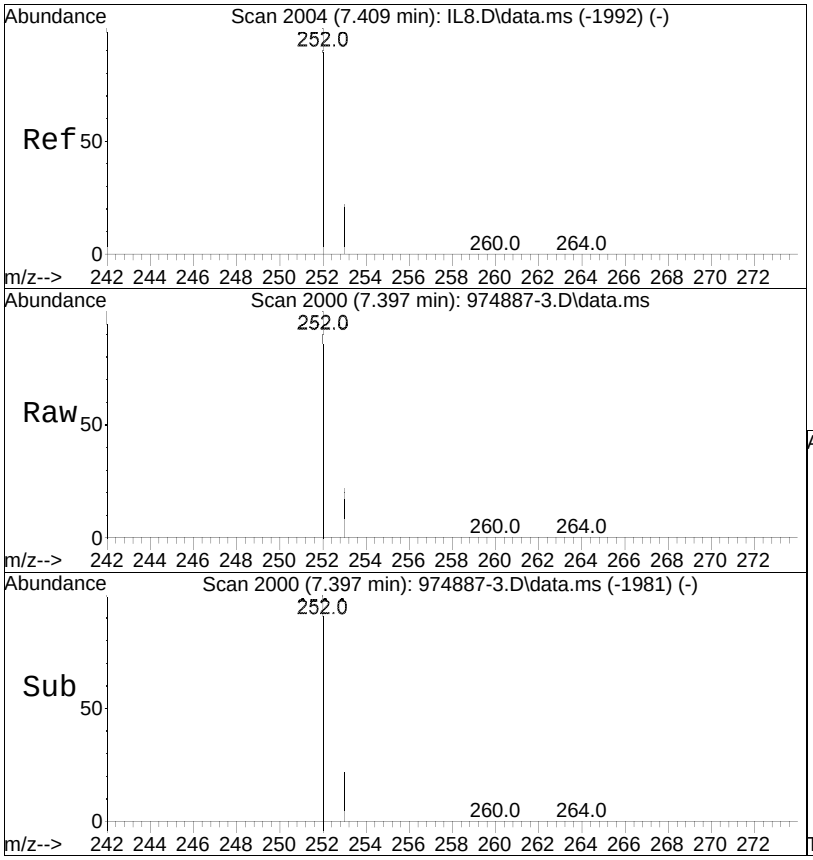


#38
Benzo[k]fluoranthene
Concen: 2105.34 ng/ml
RT: 7.114 min Scan# 1910
Delta R.T. -0.021 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:252 Resp: 968401

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3

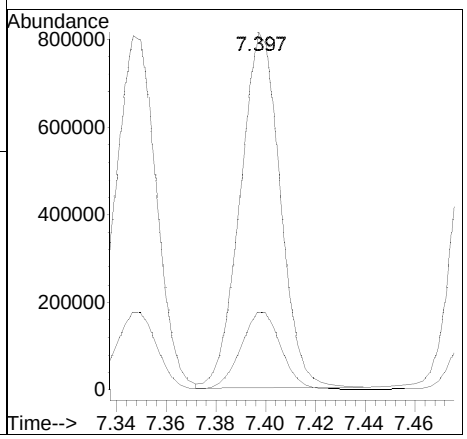


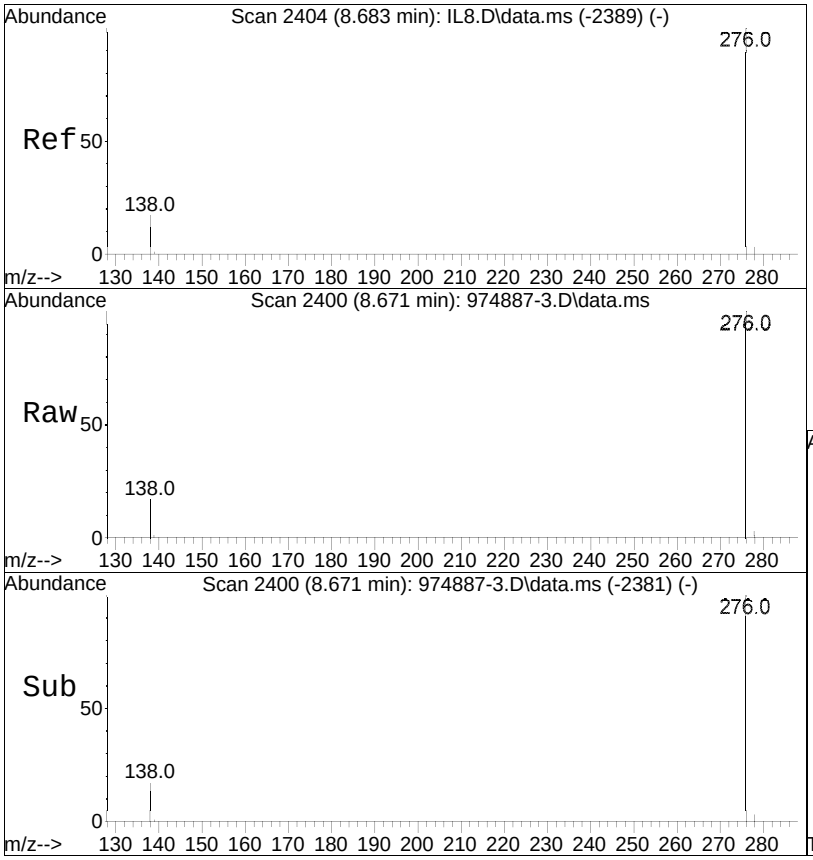


#39
Benzo[a]pyrene
Concen: 2212.24 ng/ml
RT: 7.397 min Scan# 2000
Delta R.T. -0.021 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:252 Resp: 903598

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

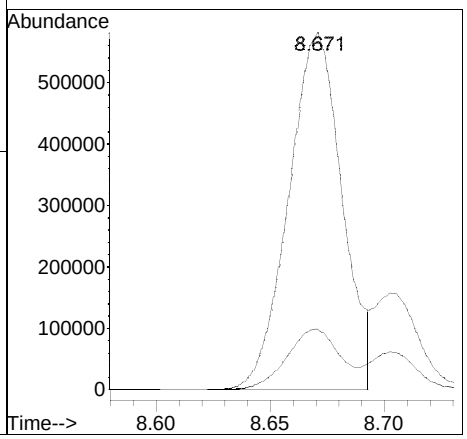


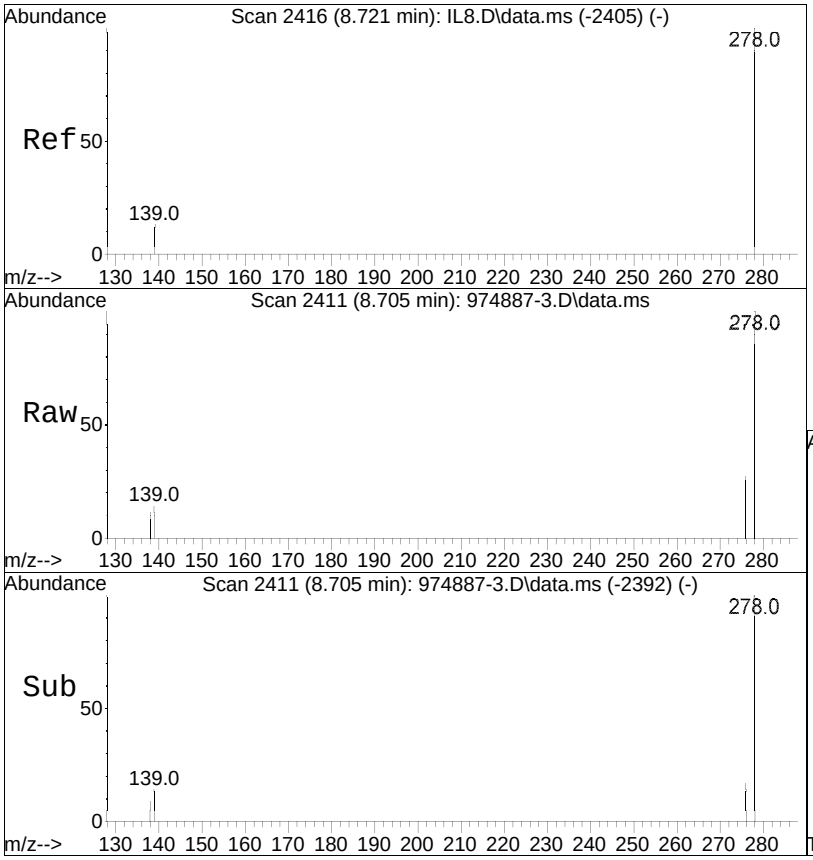


#40
Indeno[1,2,3-cd]pyrene
Concen: 2206.01 ng/ml
RT: 8.671 min Scan# 2400
Delta R.T. -0.021 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:276 Resp: 946339

Ion	Ratio	Lower	Upper
276	100		
138	16.6	13.1	19.7

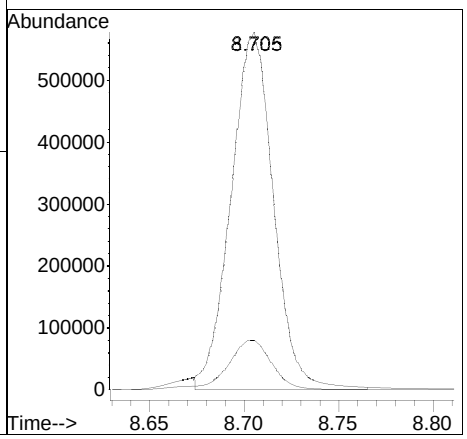


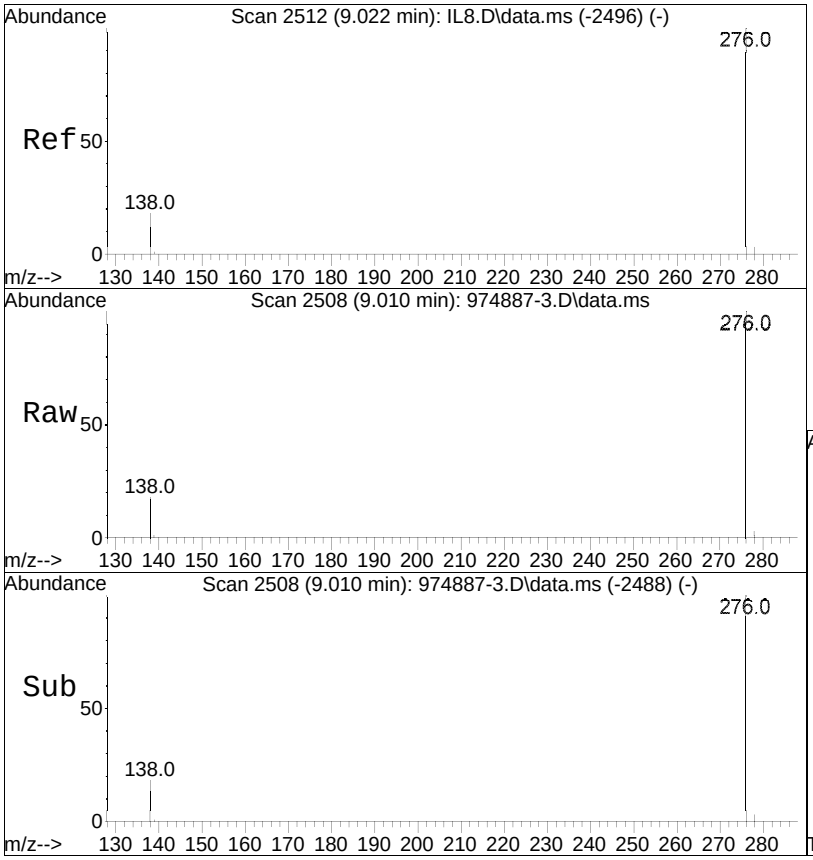


#41
Dibenzo[a,h]anthracene
Concen: 1833.01 ng/ml M6
RT: 8.705 min Scan# 2411
Delta R.T. -0.021 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:278 Resp: 895472

Ion	Ratio	Lower	Upper
278	100		
139	14.8	12.0	18.0

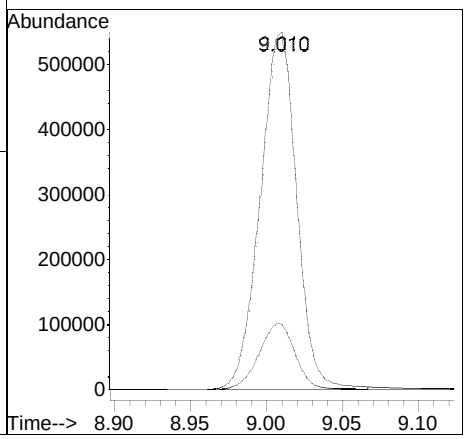




#42
Benzo[g,h,i]perylene
Concen: 2028.53 ng/ml
RT: 9.010 min Scan# 2508
Delta R.T. -0.018 min
Lab File: 974887-3.D
Acq: 23 Sep 2024 02:07 pm

Tgt Ion:276 Resp: 901155

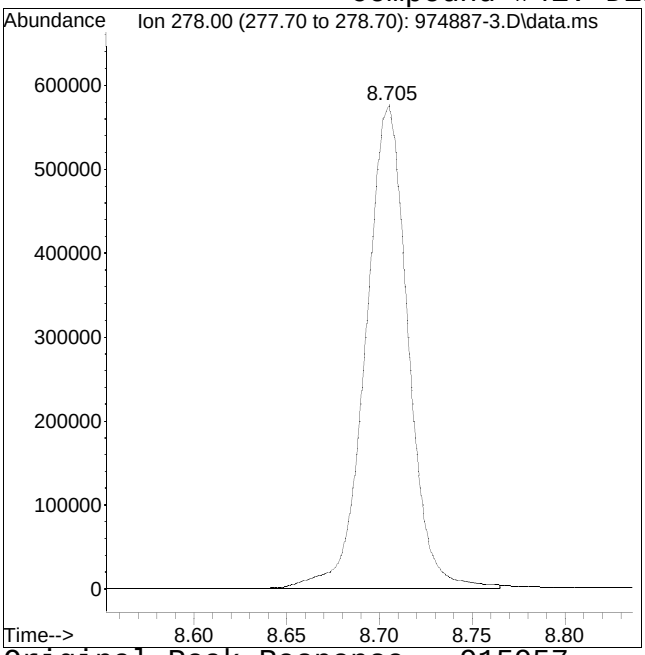
Ion	Ratio	Lower	Upper
276	100		
138	18.7	14.7	22.1



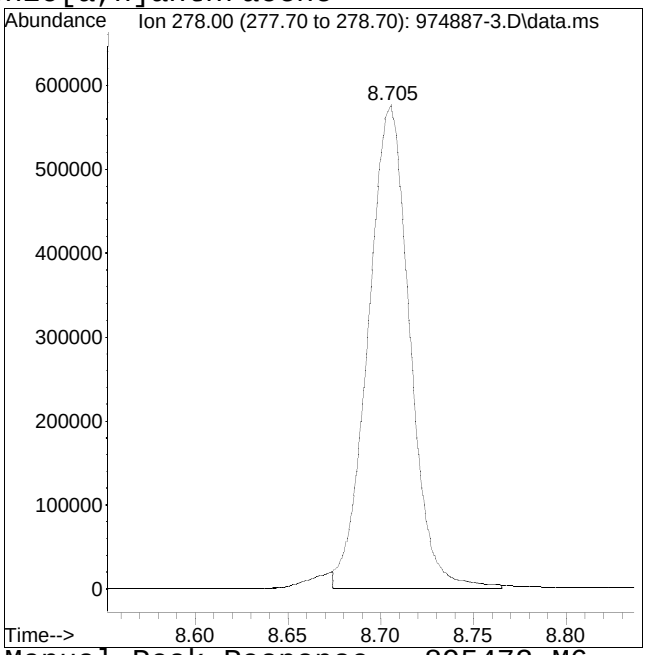
Manual Integration Report

Data Path : I:\8270SIM\SV125\240923aRVQMethod : SIM-RVT_240917n_sv125.M
Data File : 974887-3.D Operator : SV125:rp
Date Inj'd : 9/23/2024 2:07 pm Instrument : SV125
Sample : WG1974887-3,32,,kmh Quant Date : 9/23/2024 2:21 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 915957



Manual Peak Response = 895472 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 02:16 pm

Work Group: WG1974887 for Department: 2 Organic Preparation

Created: 23-SEP-24 Due: Operator: ARP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453342-01	MP-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-02	MP-1D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-03	MW-13D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-04	MW-13S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-05	MW-10D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-06	MW-10S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-07	MW-6D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-08	PZ-6	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453342-10	EQUIPMENT BLANK	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
WG1974887-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1974887-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1974887-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1974887-3 WG1974887-2

Analysis log File

Total Files Reported in Log : 14
Log Generated From Directory: I:\8270SIM\SV125\240917nRVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune.D	DFTPP(100ml)			9/17/2024 5:19 pm
2	Tunea.D	DFTPP(100ml)	TUNE #11000	WG1973864,,ical	9/17/2024 6:19 pm
3	IL10.D	fast-SIM-LVI	IL10,32,,5000.0 ng/ml #	WG1973864,,ical	9/17/2024 6:45 pm
4	IL9.D	fast-SIM-LVI	IL9,32,,2500.0 ng/ml #1	WG1973864,,ical	9/17/2024 7:01 pm
5	IL8.D	fast-SIM-LVI	IL8,32,,1000.0 ng/ml #1	WG1973864,,ical	9/17/2024 7:17 pm
6	IL7.D	fast-SIM-LVI	IL7,32,,500.0 ng/ml #10	WG1973864,,ical	9/17/2024 7:33 pm
7	IL6.D	fast-SIM-LVI	IL6,32,,100.0 ng/ml #10	WG1973864,,ical	9/17/2024 7:49 pm
8	IL5.D	fast-SIM-LVI	IL5,32,,40.0 ng/ml #108	WG1973864,,ical	9/17/2024 8:05 pm
9	IL4.D	fast-SIM-LVI	IL4,32,,10.0 ng/ml #108	WG1973864,,ical	9/17/2024 8:21 pm
10	IL3.D	fast-SIM-LVI	IL3,32,,5.0 ng/ml #1089	WG1973864,,ical	9/17/2024 8:37 pm
11	IL2.D	fast-SIM-LVI	IL2,32,,2.0 ng/ml #1090	WG1973864,,ical	9/17/2024 8:53 pm
12	IL1.D	fast-SIM-LVI	IL1,32,,1.0 ng/ml #1089	WG1973864,,ical	9/17/2024 9:09 pm
13	ICV.D	fast-SIM-LVI	CQICV,32,, 1.000 Lot#10	WG1973864,,ical	9/17/2024 9:25 pm
14	insblk.D	fast-SIM-LVI			9/17/2024 9:41 pm

Dep.: GCMS
Inst: SV125
Date: **09/23/24**
Run:

Method
GC: SIM RVT

Seq: WG1975073
ICAL: 21503

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0923a	wg-1,32,,dftpp lot# 11000				09/24 RAP
49	ccv0923a	wg-3,32,,CCV 10888 (0905)	PCP low			09/24 RAP
50	blank0923a	instument blank				
1	53887-01	L2453887-01,32,,R3C,kmh	RR - low IS			
2	53436-01	L2453436-01,32,,kmh	RX - MB hit			09/24 RAP
3	53436-02	L2453436-02,32,,kmh				09/24 RAP
4	53436-03	L2453436-03,32,,kmh				09/24 RAP
5	53436-04	L2453436-04,32,,kmh				09/24 RAP
6	53436-05	L2453436-05,32,,kmh				09/24 RAP
7	53436-06	L2453436-06,32,,kmh				09/24 RAP
8	53436-07	L2453436-07,32,,kmh				09/24 RAP
9	53436-08	L2453436-08,32,,kmh				09/24 RAP
10	53436-09	L2453436-09,32,,kmh				09/24 RAP
11	53436-10	L2453436-10,32,,kmh				09/24 RAP
12	53429-06	L2453429-06,32,,kmh	RX - FB hit over RL			09/24 RAP
13	974887-2	WG1974887-2,32,,kmh				09/24 RAP
14	974887-3	WG1974887-3,32,,kmh				09/24 RAP
15	974887-1	WG1974887-1,32,,kmh				09/24 RAP
16	53342-01	L2453342-01,32,,kmh				09/24 RAP
17	53342-02	L2453342-02,32,,kmh				09/24 RAP
18	53342-03	L2453342-03,32,,kmh				09/24 RAP
19	53342-04	L2453342-04,32,,kmh				ljg 9/25
20	53342-05	L2453342-05,32,,kmh				ljg 9/25
21	53342-06	L2453342-06,32,,kmh				ljg 9/25
22	53342-07	L2453342-07,32,,kmh				ljg 9/25
23	53342-08	L2453342-08,32,,kmh				ljg 9/25
24	53342-10	L2453342-10,32,,kmh				ljg 9/25
25	53125-07	L2453125-07,32,,kmh				
26	53125-08	L2453125-08,32,,kmh				
27	53125-09	L2453125-09,32,,kmh				
28	53125-10	L2453125-10,32,,kmh				
29	974755-2	WG1974755-2,32,,kmh	RR - compounds high			09/24 RAP
30	974755-3	WG1974755-3,32,,kmh	RR - compounds high			09/24 RAP
31	974755-1	WG1974755-1,32,,kmh	RV - hit over RL			09/24 RAP
32	974755-4	WG1974755-4,32,,kmh				
33	974755-5	WG1974755-5,32,,kmh				
34	53108-04	L2453108-04,32,,kmh				
35	53124-05	L2453124-05,32,,kmh				09/24 RAP
36	974591-2	WG1974591-2,32,,kmh				
37	974591-3	WG1974591-3,32,,kmh				
38	974591-1	WG1974591-1,32,,kmh				
39	53333-01	L2453333-01,32,,kmh				
40	53397-01	L2453397-01,32,,kmh			kmh	09/24 RAP
					Sv-DV	

ORGANIC ELN REPORT

Workgroup: WG1974887

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ049
Surrogate Type: ABN **Lot #:** 11001-AS[03/11/25]
Spike Type: ABN-SIM **Lot #:** 10948-AG[02/03/25]; 10949-AF
Spike Verify by: ARP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A072424
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453342-01 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-02 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-03 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-04 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-05 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-06 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K

COMMENTS REQUEST MS/MSD; NOT ENOUGH CONTAINERS PROVIDED

Reported: 25-SEP-24 02:16 PM

ORGANIC ELN REPORT

Workgroup: WG1974887

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453342-07 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-08 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
L2453342-10 SAMP	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
WG1974887-1 BLANK	09/23/24 02:47 **WG1974885**	Amanda Patterson	100	<2, >12	.1		09/23/24 06:07	Alaina Ohara-Cruz	1	K
WG1974887-2 LCS	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1	.1	09/23/24 06:07	Alaina Ohara-Cruz	1	K
WG1974887-3 LCSD	09/23/24 02:47	Amanda Patterson	100	<2, >12	.1	.1	09/23/24 06:07	Alaina Ohara-Cruz	1	K

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-10S (L2453342-06)	51	--	--	--	--	--	0
PZ-6 (L2453342-08)	46	--	--	--	--	--	0
DUP_091724 (L2453342-09)	45	--	--	--	--	--	0
EQUIPMENT BLANK (L2453342-10)	47	--	--	--	--	--	0
WG1974401-1BLANK	44	--	--	--	--	--	0
WG1974401-2LCS	47	--	--	--	--	--	0
WG1974401-3LCSD	45	--	--	--	--	--	0
MW-10SMS	44	--	--	--	--	--	0
MW-10SMSD	43	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-14-DIOXANESIM-PPB

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974401-2 **Analysis Date** : 09/27/24 09:33	**File ID**	: F509272404
LCSD Sample ID	: WG1974401-3 **Analysis Date** : 09/27/24 10:02	**File ID**	: F509272405

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ug/l)**	**Found (ug/l)**	**%R**	**True (ug/l)**	**Found (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	5	5.38	108	5	5.43	108	0	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453342-06	**Analysis Date**	: 09/27/24 13:33
Matrix Spike	: WG1974401-4	**MS Analysis Date**	: 09/27/24 15:47
Matrix Spike Dup	: WG1974401-5	**MSD Analysis Date**	: 09/27/24 16:16

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	ND	5	5.50	110	5	5.49	110	0	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974401-1	**Lab File ID**	: F509272403
Instrument ID	: PAH5	**Extraction Date**	: 09/20/24
Matrix	: WATER	**Analysis Date**	: 09/27/24 09:06
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1974401-2LCS	WG1974401-2	09/27/24 09:33
WG1974401-3LCSD	WG1974401-3	09/27/24 10:02
MW-10S	L2453342-06	09/27/24 13:33
MW-10SMS	WG1974401-4	09/27/24 15:47
MW-10SMSD	WG1974401-5	09/27/24 16:16
PZ-6	L2453342-08	09/27/24 16:46
DUP_091724	L2453342-09	09/28/24 09:09
EQUIPMENT BLANK	L2453342-10	09/28/24 09:36

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 07/17/24 15:18
Tune Standard	: R1854170-1	**Tune File ID**	: F507172401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	30.5
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	29.1
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	93.4
443	15.0 - 24.0% of mass 442	17.6 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1854170-2	F507172402	07/17/24 15:53
STD 50	R1854170-3	F507172403	07/17/24 16:24
STD 100	R1854170-4	F507172404	07/17/24 16:46
STD 500	R1854170-5	F507172405	07/17/24 17:07
STD 1000	R1854170-6	F507172406	07/17/24 17:29
STD 5000	R1854170-7	F507172407	07/17/24 17:50
STD 10000	R1854170-8	F507172408	07/17/24 18:11
ICV QUANT REPORT	R1854170-9	F507172409	07/17/24 18:33

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/27/24 07:45
Tune Standard	: WG1976601-1	**Tune File ID**	: F509272401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.9
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	26.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	76.4
443	15.0 - 24.0% of mass 442	14.3 (18.7)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976601-2CCAL	WG1976601-2	F509272402	09/27/24 08:31
WG1974401-1BLANK	WG1974401-1	F509272403	09/27/24 09:06
WG1974401-2LCS	WG1974401-2	F509272404	09/27/24 09:33
WG1974401-3LCSD	WG1974401-3	F509272405	09/27/24 10:02
MW-10S	L2453342-06	F509272412	09/27/24 13:33
WG1974401-4MS	WG1974401-4	F509272413	09/27/24 15:47
WG1974401-5MSD	WG1974401-5	F509272414	09/27/24 16:16
PZ-6	L2453342-08	F509272415	09/27/24 16:46

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/28/24 07:56
Tune Standard	: WG1976601-3	**Tune File ID**	: F509272417_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	31.7
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	46.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	28.3
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	89.7
443	15.0 - 24.0% of mass 442	16.7 (18.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976601-4CCAL	WG1976601-4	F509272418	09/28/24 08:41
DUP_091724	L2453342-09	F509272419	09/28/24 09:09
EQUIPMENT BLANK	L2453342-10	F509272420	09/28/24 09:36

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/28/24 13:41
Tune Standard	: WG1976601-5	**Tune File ID**	: F509272429_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	29.4
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	15.8
442	Base Peak, or >50% of mass 198	99.3
443	15.0 - 24.0% of mass 442	18.6 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976601-6CCAL	WG1976601-6	F509272430	09/28/24 14:31

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/28/24 22:37
Tune Standard	: WG1976601-7	**Tune File ID**	: F509272448_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32.8
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	28.7
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	97.5
443	15.0 - 24.0% of mass 442	18.6 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976601-8CCAL	WG1976601-8	F509272449	09/28/24 23:21

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/29/24 03:18
Tune Standard	: WG1976601-9	**Tune File ID**	: F509272458_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.8
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	28.5
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.1
442	Base Peak, or >50% of mass 198	92.9
443	15.0 - 24.0% of mass 442	17.9 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/27/24 08:31:00
Sample No	: WG1976601-2	**Lab File ID**	: F509272402

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1976601-2	30433	7.64				
Upper Limit	60866	8.14				
Lower Limit	15217	7.14				
Sample ID						
WG1974401-1 BLANK	30120	7.64				
WG1974401-2 LCS	27777	7.64				
WG1974401-3 LCSD	27339	7.64				
MW-10S	24509	7.64				
MW-10S MS	27339	7.65				
MW-10S MSD	27122	7.65				
PZ-6	26129	7.64				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 09/28/24 08:41:00
Sample No	: WG1976601-4	**Lab File ID**	: F509272418

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1976601-4	31100	7.64				
Upper Limit	62200	8.14				
Lower Limit	15550	7.14				
Sample ID						
DUP_091724	29591	7.64				
EQUIPMENT BLANK	27251	7.64				
WG1976601-6 CCAL	28323	7.65				
WG1976601-8 CCAL	31551	7.63				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 13:33
Sample Matrix	: WATER	**Date Extracted**	: 09/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F509272412	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 16:46
Sample Matrix	: WATER	**Date Extracted**	: 09/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F509272415	**Analyst**	: GRS
Sample Amount	: 260 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.144	0.0326	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-09	**Date Collected**	: 09/17/24 12:00
Client ID	: DUP_091724	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 09:09
Sample Matrix	: WATER	**Date Extracted**	: 09/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F509272419	**Analyst**	: GRS
Sample Amount	: 260 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.144	0.0326	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 09:36
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F509272420	**Analyst**	: GRS
Sample Amount	: 230 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.163	0.0368	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974401-1	**Date Collected**	: NA
Client ID	: WG1974401-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 09:06
Sample Matrix	: WATER	**Date Extracted**	: 09/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F509272403	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272412.D
Acq On : 27 Sep 2024 1:33 pm
Operator : PAH5:GRS
Sample : L2453342-06,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 08:21:13 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.042	64	3171	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.641	152	24509	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.042	64	3171	254.419	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 50.88%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

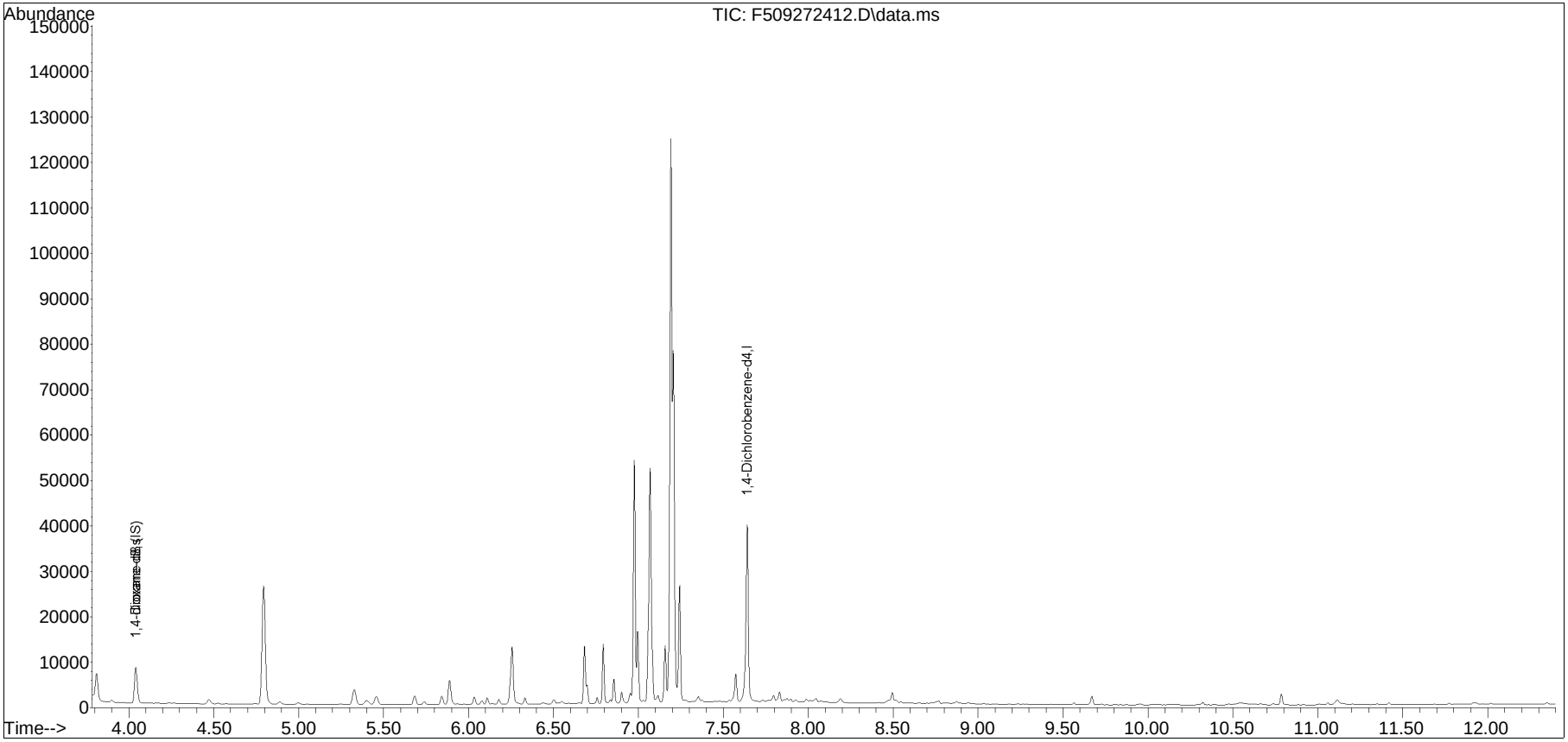
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272412.D
Acq On : 27 Sep 2024 1:33 pm
Operator : PAH5:GRS
Sample : L2453342-06,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 08:21:13 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272412.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 1:33 pm	Instrument	: PAH 5
Sample	: L2453342-06,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272415.D
Acq On : 27 Sep 2024 4:46 pm
Operator : PAH5:GRS
Sample : L2453342-08,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 08:21:30 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.044	64	3026	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.644	152	26129	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.044	64	3026	227.732	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 45.55%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

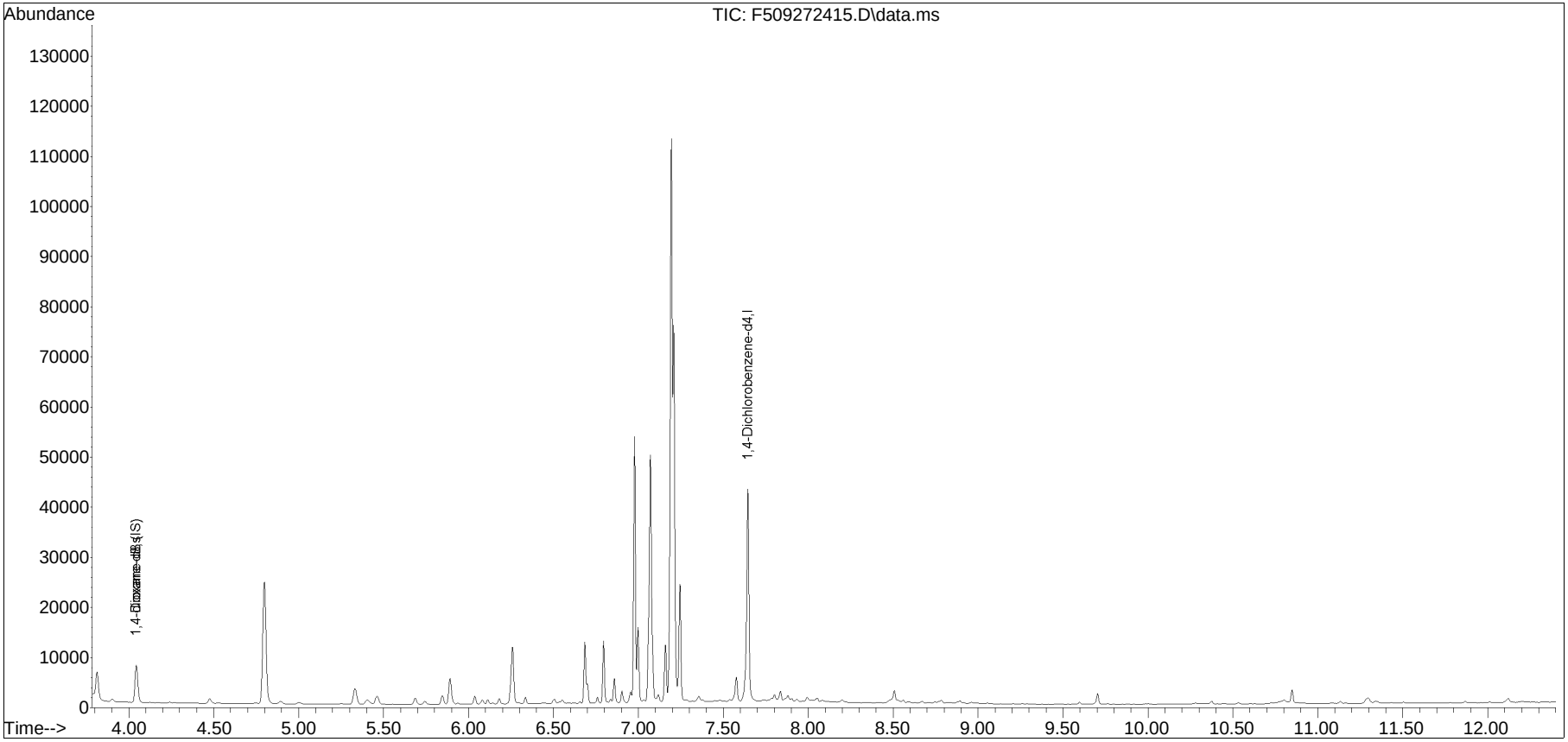
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272415.D
Acq On : 27 Sep 2024 4:46 pm
Operator : PAH5:GRS
Sample : L2453342-08,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 08:21:30 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272415.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 4:46 pm	Instrument	: PAH 5
Sample	: L2453342-08,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272419.D
Acq On : 28 Sep 2024 9:09 am
Operator : PAH5:GRS
Sample : L2453342-09
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 30 08:22:54 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.064	64	3371	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.636	152	29591	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.064	64	3371	224.015	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 44.80%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

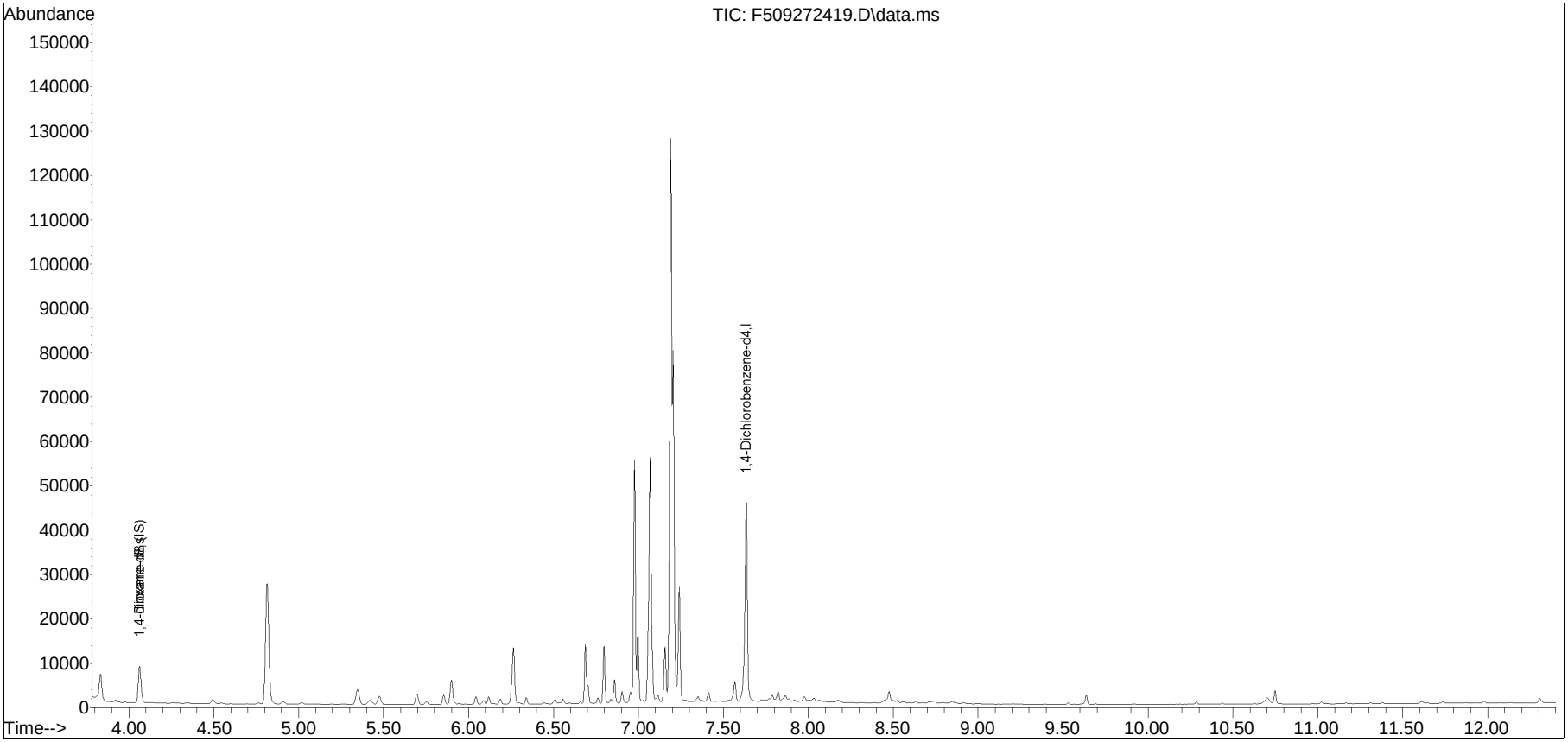
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272419.D
Acq On : 28 Sep 2024 9:09 am
Operator : PAH5:GRS
Sample : L2453342-09
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 30 08:22:54 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272419.D	Operator	: PAH5:GRS
Date Inj'd	: 9/28/2024 9:09 am	Instrument	: PAH 5
Sample	: L2453342-09	Quant Date	: 9/30/2024 7:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272420.D
Acq On : 28 Sep 2024 9:36 am
Operator : PAH5:GRS
Sample : L2453342-10
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 30 08:22:59 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.058	64	3288	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.639	152	27251	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.058	64	3288	237.262	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 47.45%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

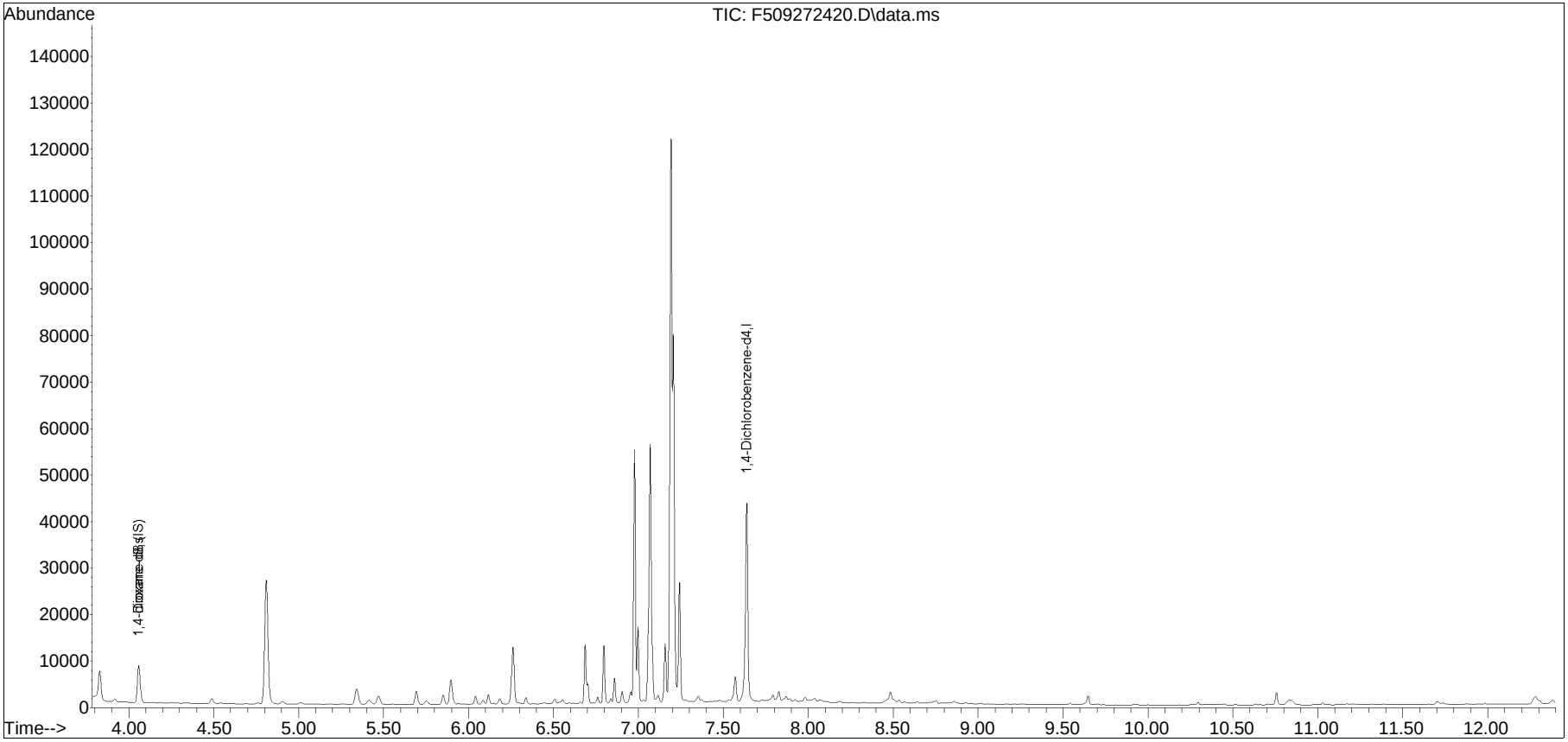
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272420.D
Acq On : 28 Sep 2024 9:36 am
Operator : PAH5:GRS
Sample : L2453342-10
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 30 08:22:59 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272420.D	Operator	: PAH5:GRS
Date Inj'd	: 9/28/2024 9:36 am	Instrument	: PAH 5
Sample	: L2453342-10	Quant Date	: 9/30/2024 7:44 am

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PAH5**	**Ical Ref**	**: ICAL21302**
Calibration dates	**: 07/17/24 15:53 07/17/24 18:11**		

Calibration Files
10 =F507172402.D 50 =F507172403.D 100 =F507172404.D 500 =F507172405.D 1000=F507172406.D
5000=F507172407.D 1e04=F507172408.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.910	1.754	1.785	1.781	1.838	1.751	1.753	1.796	3.27
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.258	0.261	0.256	0.255	0.251	0.250	0.249	0.254	1.87

Response Factor Report PAH 5

Method Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Method File : 14DIOX0717PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Thu Jul 18 08:20:01 2024
Response Via : Initial Calibration

Calibration Files
10 =F507172402.D 50 =F507172403.D 100 =F507172404.D 500 =F507172405.D 1000=F507172406.D
5000=F507172407.D 1e04=F507172408.D

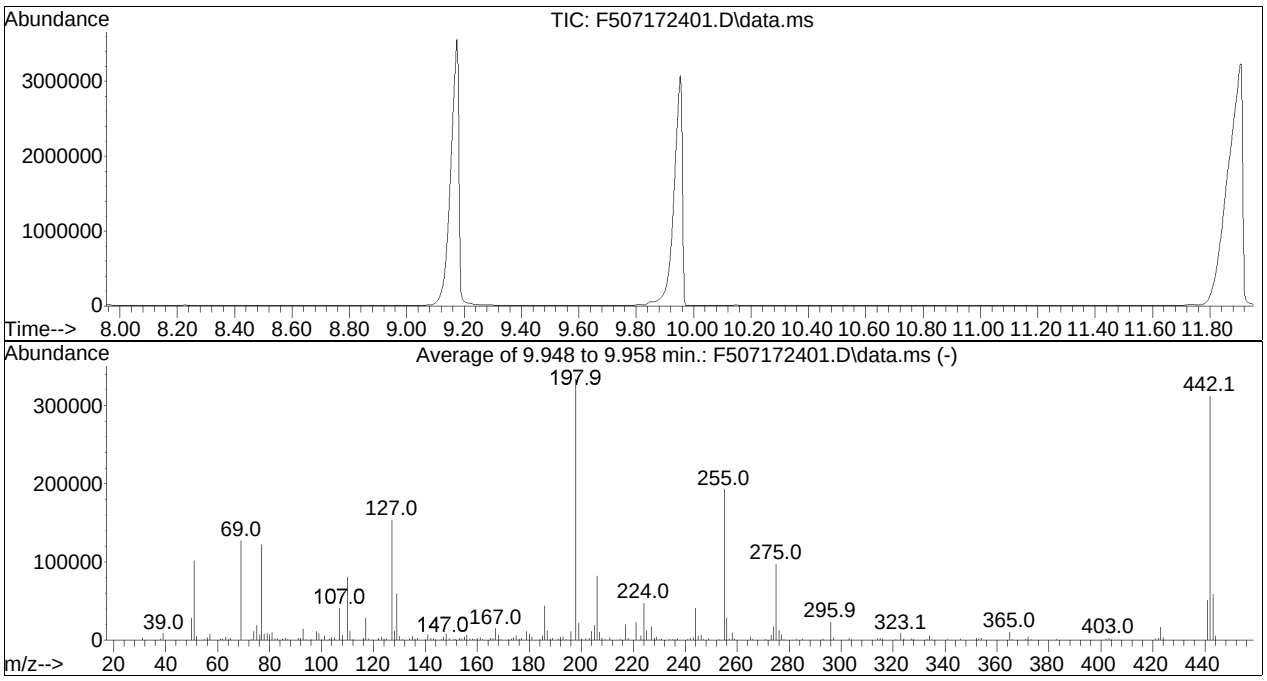
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.910	1.754	1.785	1.781	1.838	1.751	1.753	1.796	3.27
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.258	0.261	0.256	0.255	0.251	0.250	0.249	0.254	1.87

(#) = Out of Range

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172401.D
Acq On : 17 Jul 2024 3:18 pm
Operator : PAH5:CSP
Sample : T507172401
Misc : WG1948411,MSBU36
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Thu Jul 18 08:20:01 2024



Spectrum Information: Average of 9.948 to 9.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.5	101797	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	676	PASS
127	198	10	80	46.1	153843	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	334022	PASS
199	198	5	9	6.7	22394	PASS
275	198	10	60	29.1	97156	PASS
365	198	1	100	3.2	10753	PASS
441	442	0.01	24	16.3	50778	PASS
442	198	50	100	93.4	311864	PASS
443	442	15	24	18.9	58884	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172402.D
Acq On : 17 Jul 2024 3:53 pm
Operator : PAH5:CSP
Sample : I507172401
Misc : WG1948411,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:20:32 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.439	64	6834	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.873	152	26478	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.439	64	6834	507.538	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.51%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.494	88	261M4	10.633	ng/mL	

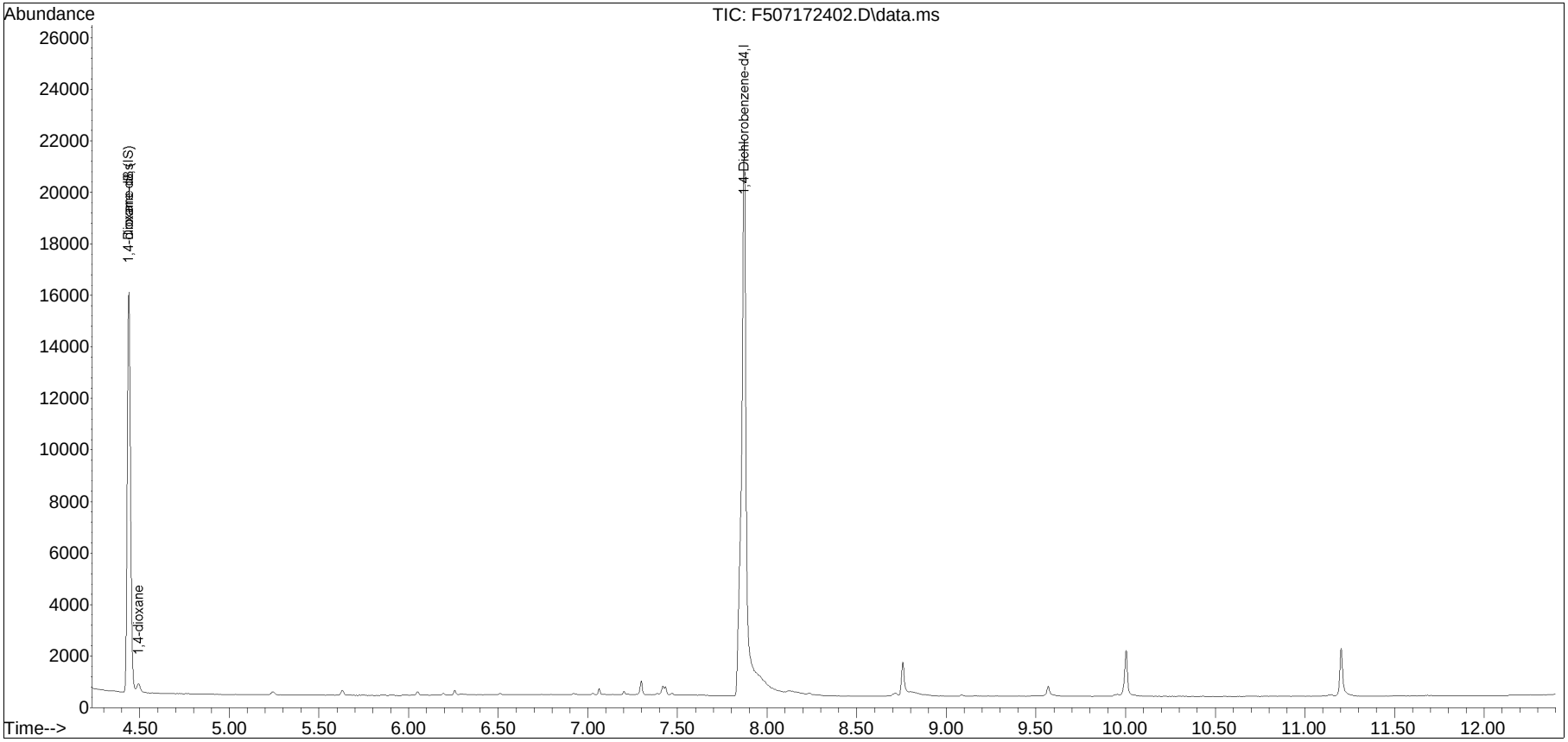
(#) = qualifier out of range (m) = manual integration (+) = signals summed

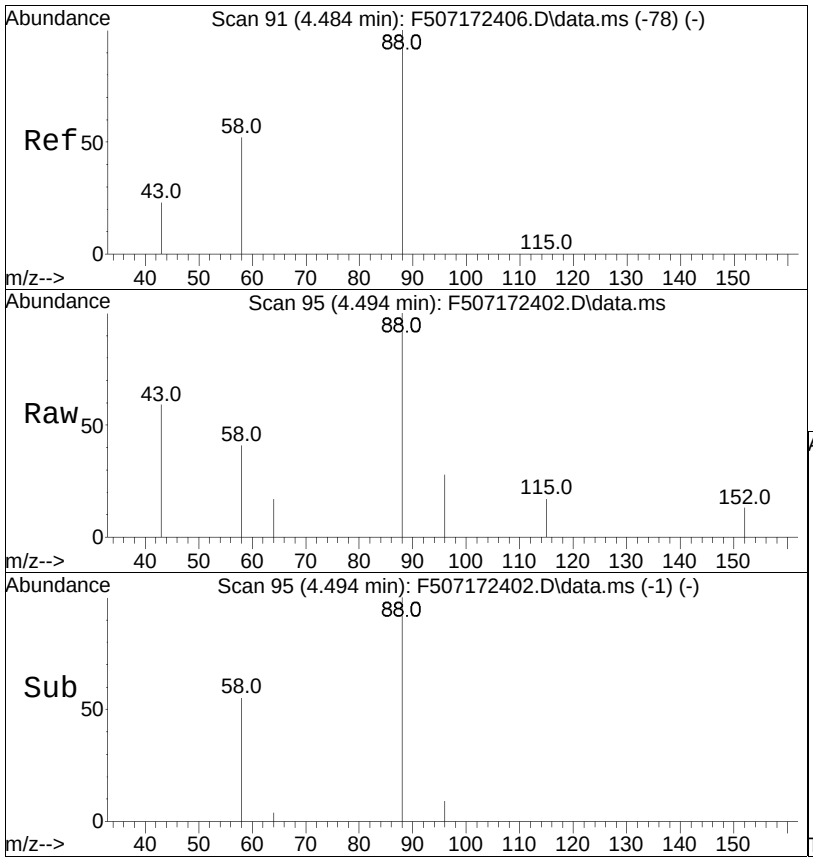
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172402.D
Acq On : 17 Jul 2024 3:53 pm
Operator : PAH5:CSP
Sample : I507172401
Misc : WG1948411,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:20:32 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

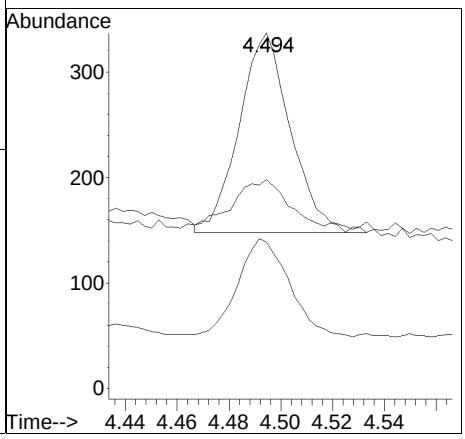




#2
1,4-dioxane
Concen: 10.63 ng/mL M4
RT: 4.494 min Scan# 95
Delta R.T. 0.011 min
Lab File: F507172402.D
Acq: 17 Jul 2024 3:53 pm

Tgt Ion: 88 Resp: 261

Ion	Ratio	Lower	Upper
88	100		
58	49.4	41.5	62.3
43	0.0	19.0	28.6#

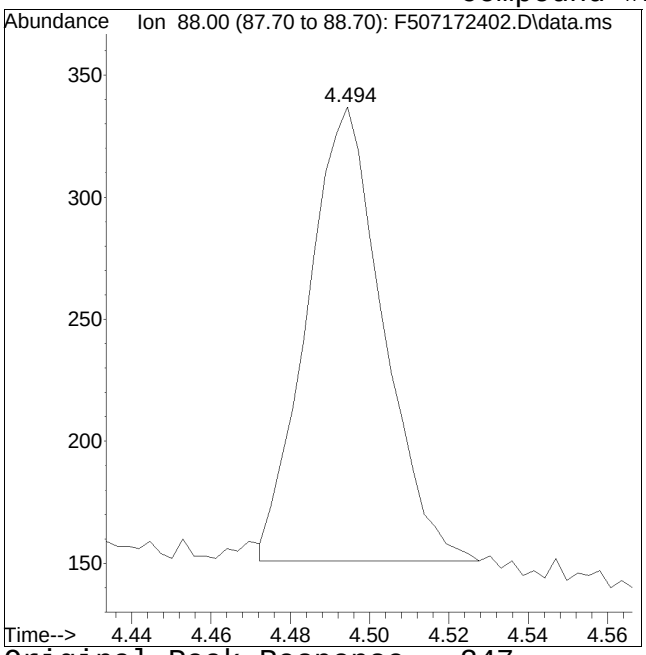


Manual Integration/Negative Proof Report

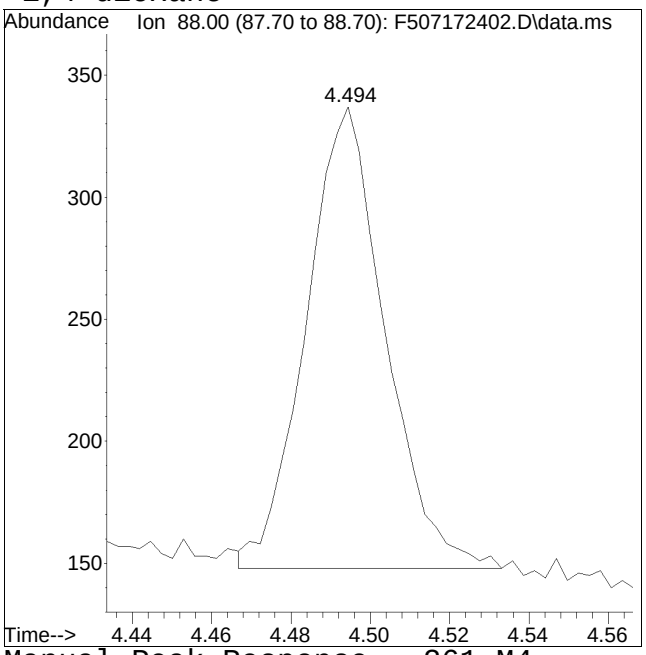
Data Path : O:\Organics\DATA\PAH5\2024\
Data File : F507172402.D
Date Inj'd : 7/17/2024 3:53 pm
Sample : I507172401

QMethod : 14DIOX0717PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 7/18/2024 8:20 am

Compound #2: 1,4-dioxane



Original Peak Response = 247



Manual Peak Response = 261 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172403.D
Acq On : 17 Jul 2024 4:24 pm
Operator : PAH5:CSP
Sample : I507172402
Misc : WG1948411,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 08:20:35 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.431	64	6960	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.879	152	26623	500.000	ng/mL	0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.431	64	6960	514.080	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.486	88	1221	48.843	ng/mL	99

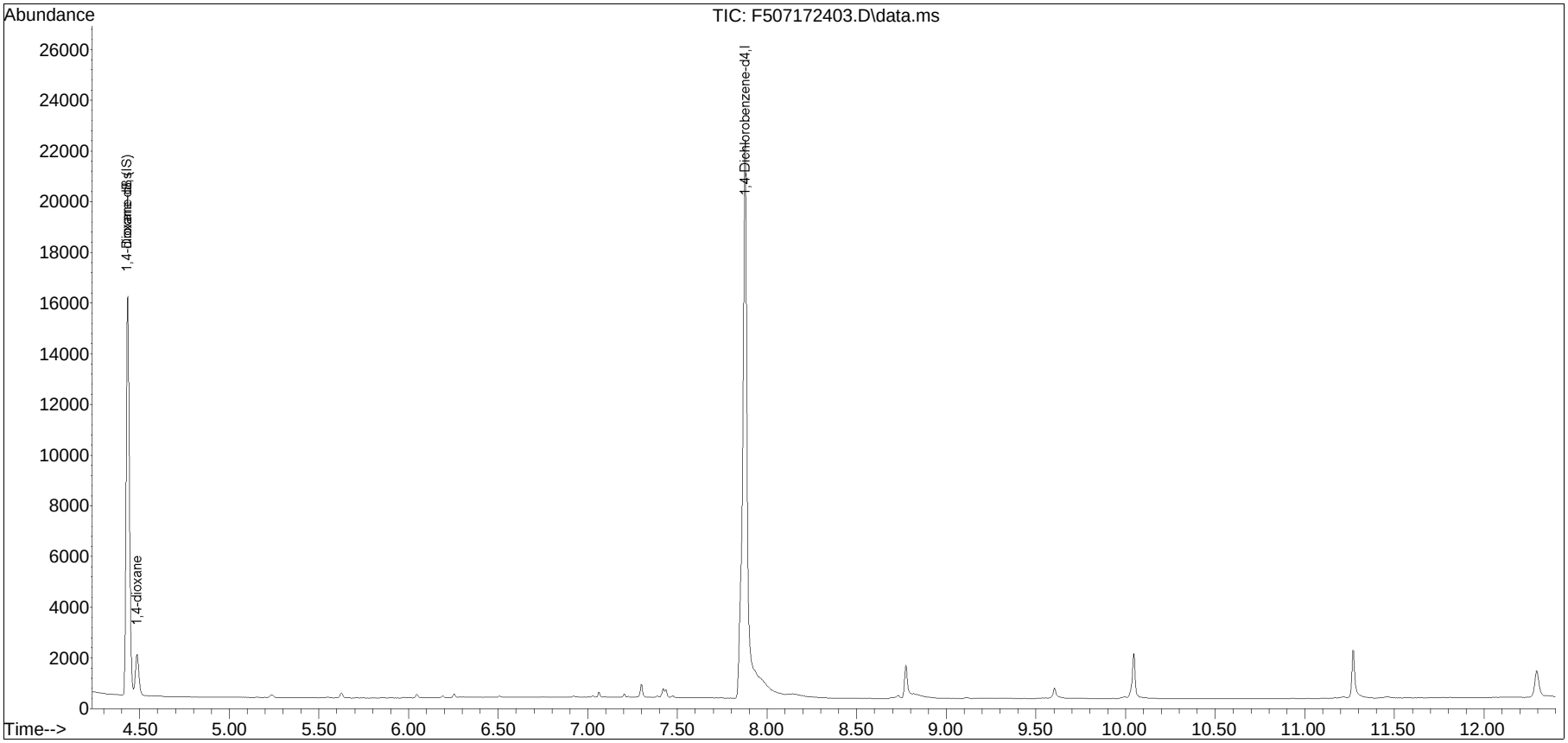
(#) = qualifier out of range (m) = manual integration (+) = signals summed

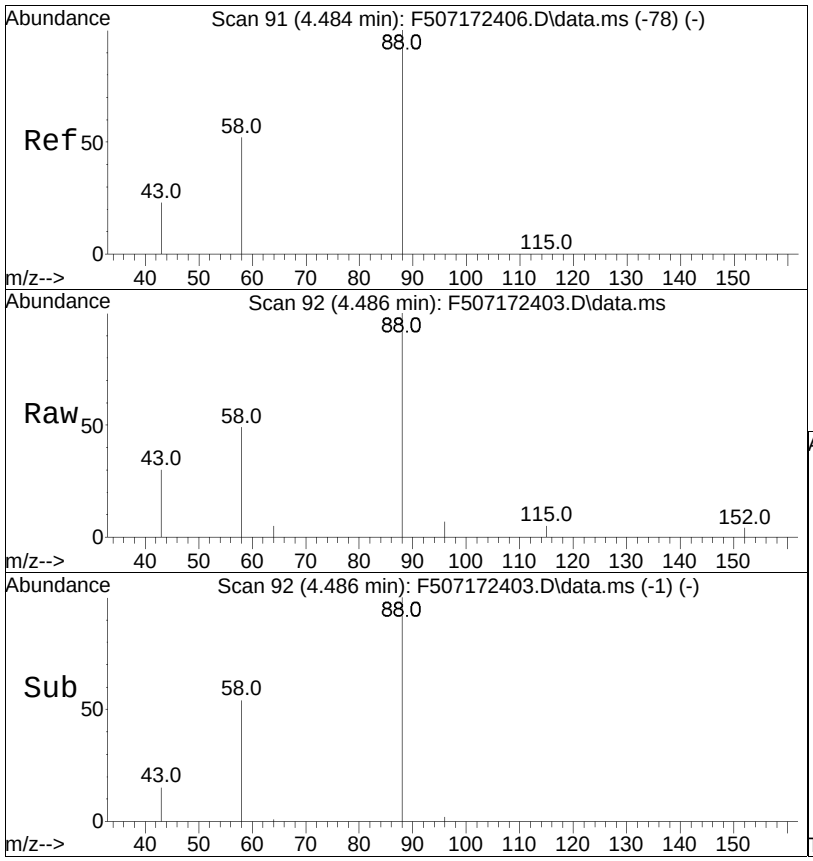
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172403.D
Acq On : 17 Jul 2024 4:24 pm
Operator : PAH5:CSP
Sample : I507172402
Misc : WG1948411,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 08:20:35 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

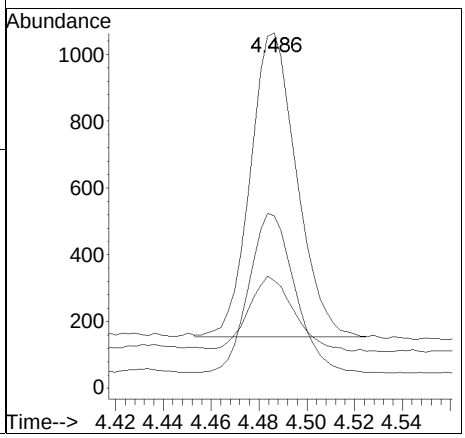




#2
1,4-dioxane
Concen: 48.84 ng/mL
RT: 4.486 min Scan# 92
Delta R.T. 0.003 min
Lab File: F507172403.D
Acq: 17 Jul 2024 4:24 pm

Tgt Ion: 88 Resp: 1221

Ion	Ratio	Lower	Upper
88	100		
58	52.3	41.5	62.3
43	24.3	19.0	28.6



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F507172403.D	Operator	: PAH5:CSP
Date Inj'd	: 7/17/2024 4:24 pm	Instrument	: PAH 5
Sample	: I507172402	Quant Date	: 7/18/2024 8:20 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172404.D
Acq On : 17 Jul 2024 4:46 pm
Operator : PAH5:CSP
Sample : I507172403
Misc : WG1948411,MSBU56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 08:20:38 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.436	64	6873	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.876	152	26805M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.436	64	6873	504.207	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.489	88	2453	99.367	ng/mL	99

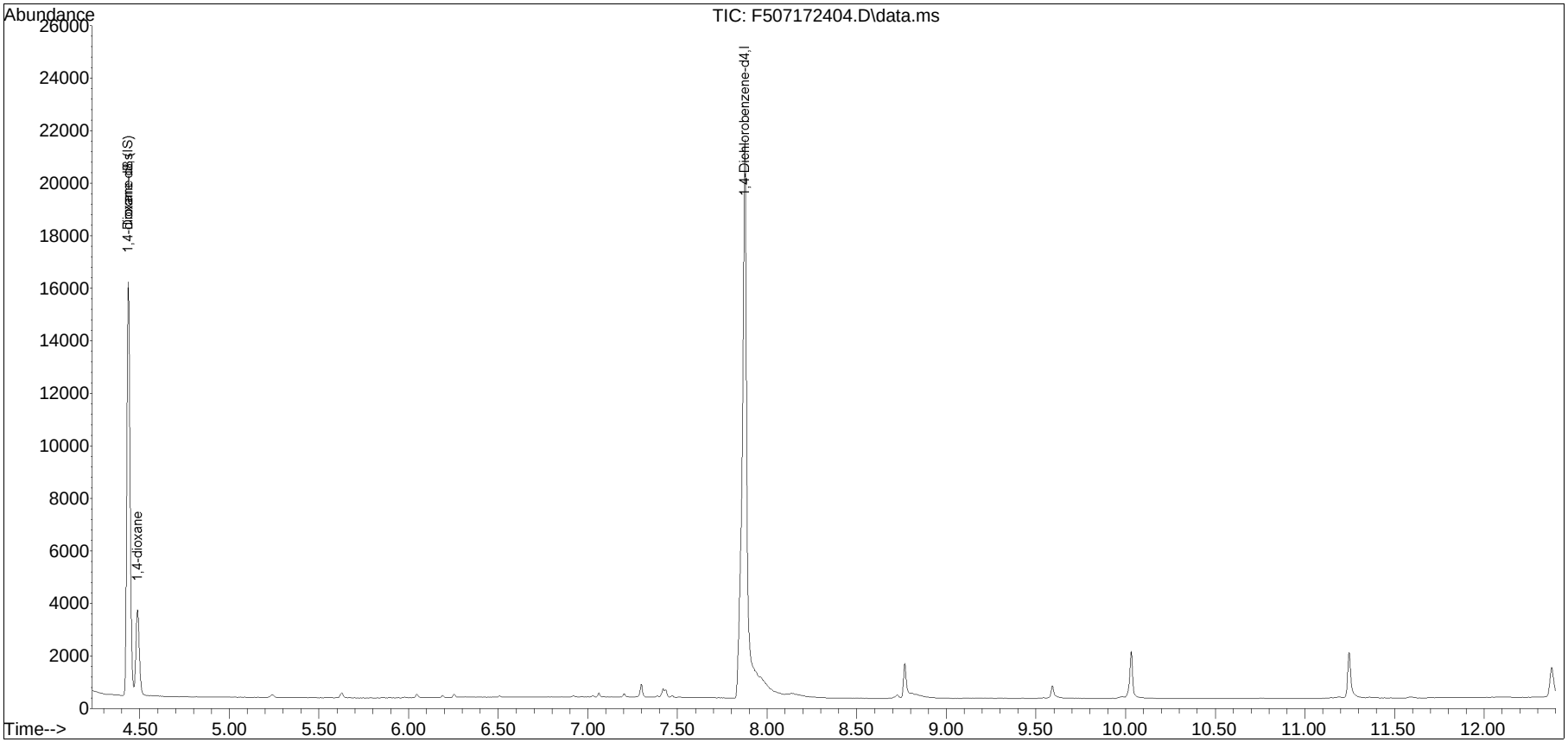
(#) = qualifier out of range (m) = manual integration (+) = signals summed

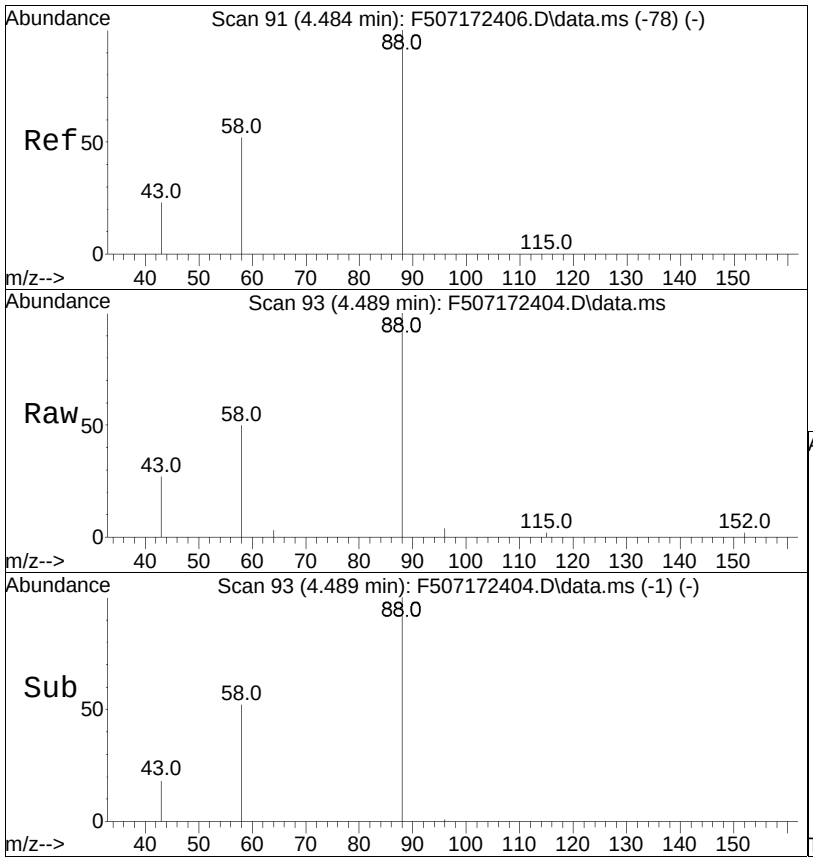
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172404.D
Acq On : 17 Jul 2024 4:46 pm
Operator : PAH5:CSP
Sample : I507172403
Misc : WG1948411,MSBU56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 08:20:38 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

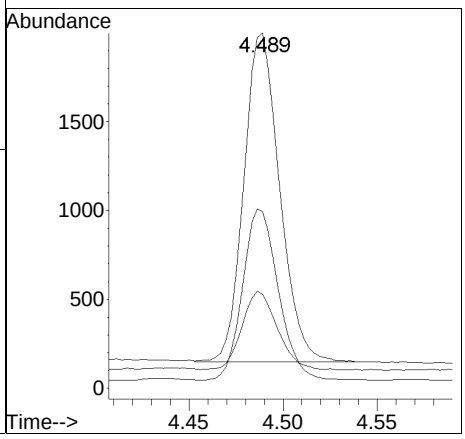




#2
1,4-dioxane
Concen: 99.37 ng/mL
RT: 4.489 min Scan# 93
Delta R.T. 0.005 min
Lab File: F507172404.D
Acq: 17 Jul 2024 4:46 pm

Tgt Ion: 88 Resp: 2453

Ion	Ratio	Lower	Upper
88	100		
58	51.7	41.5	62.3
43	23.2	19.0	28.6

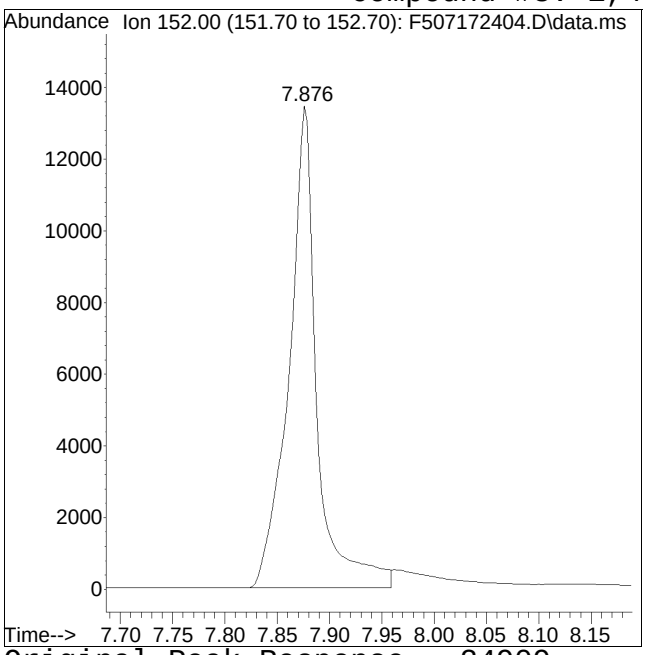


Manual Integration/Negative Proof Report

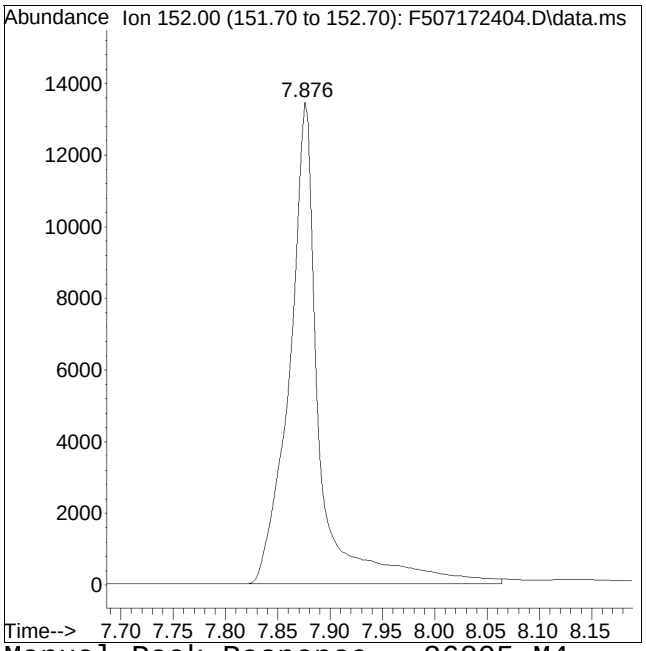
Data Path : O:\Organics\DATA\PAH5\2024\
Data File : F507172404.D
Date Inj'd : 7/17/2024 4:46 pm
Sample : I507172403

QMethod : 14DIOX0717PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 7/18/2024 8:20 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 24909



Manual Peak Response = 26805 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172405.D
Acq On : 17 Jul 2024 5:07 pm
Operator : PAH5:CSP
Sample : I507172404
Misc : WG1948411,MSBU57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 08:20:40 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.434	64	6707	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.870	152	26326	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.434	64	6707	500.982	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.20%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.484	88	11942	495.726	ng/mL	100

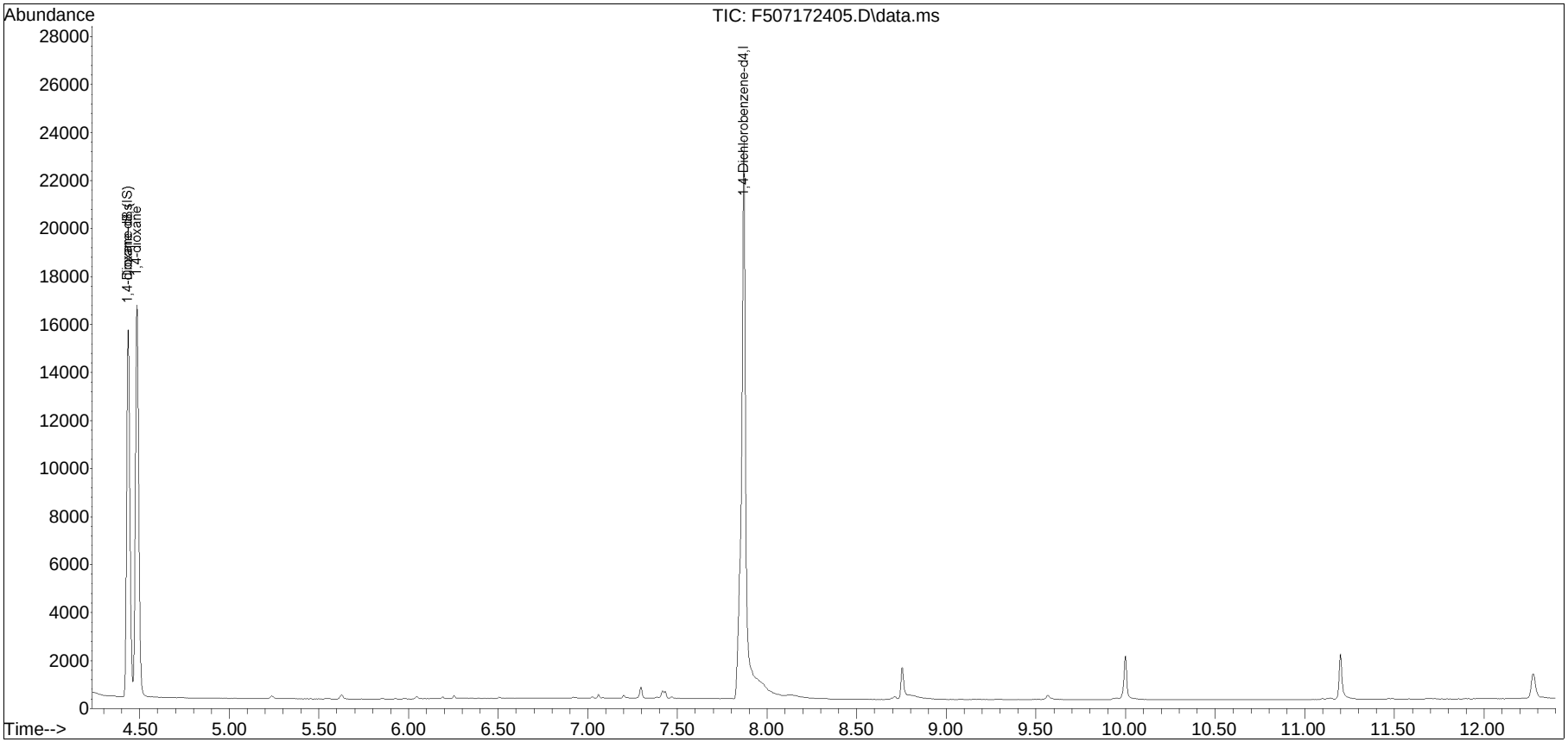
(#) = qualifier out of range (m) = manual integration (+) = signals summed

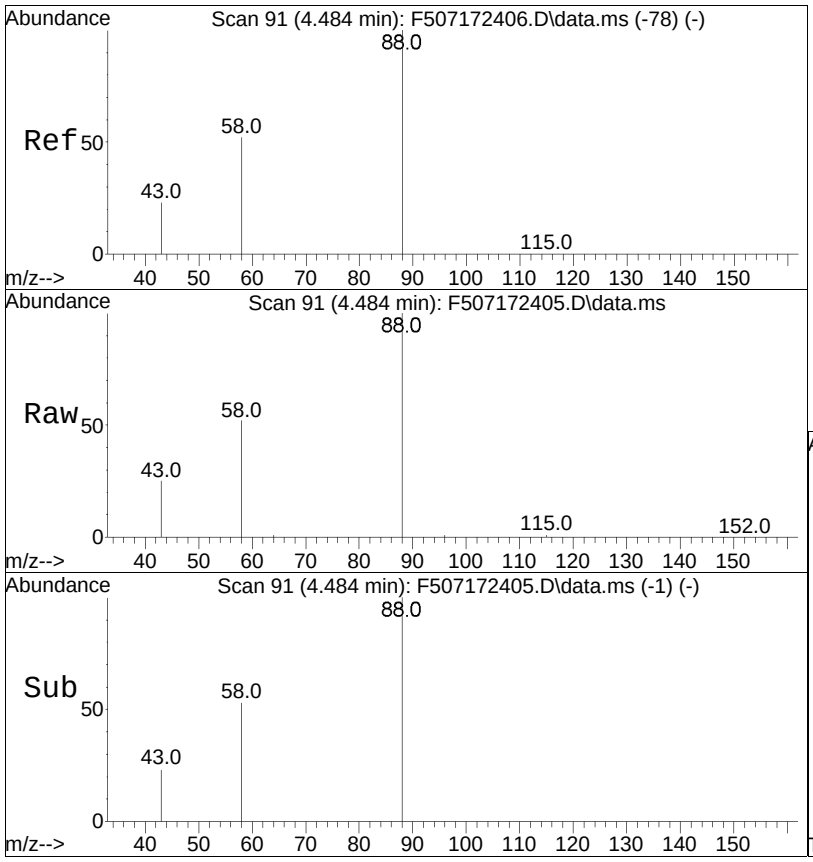
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172405.D
Acq On : 17 Jul 2024 5:07 pm
Operator : PAH5:CSP
Sample : I507172404
Misc : WG1948411,MSBU57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 08:20:40 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

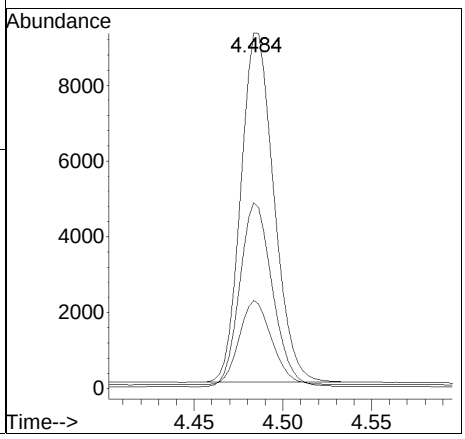




#2
1,4-dioxane
Concen: 495.73 ng/mL
RT: 4.484 min Scan# 91
Delta R.T. 0.000 min
Lab File: F507172405.D
Acq: 17 Jul 2024 5:07 pm

Tgt Ion: 88 Resp: 11942

Ion	Ratio	Lower	Upper
88	100		
58	52.1	41.5	62.3
43	23.6	19.0	28.6



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F507172405.D	Operator	: PAH5:CSP
Date Inj'd	: 7/17/2024 5:07 pm	Instrument	: PAH 5
Sample	: I507172404	Quant Date	: 7/18/2024 8:20 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172406.D
Acq On : 17 Jul 2024 5:29 pm
Operator : PAH5:CSP
Sample : I507172405
Misc : WG1948411,MSBU37
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 08:20:43 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.434	64	6647	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.868	152	26484	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.434	64	6647	493.538	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.71%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.484	88	24437	1023.564	ng/mL	100

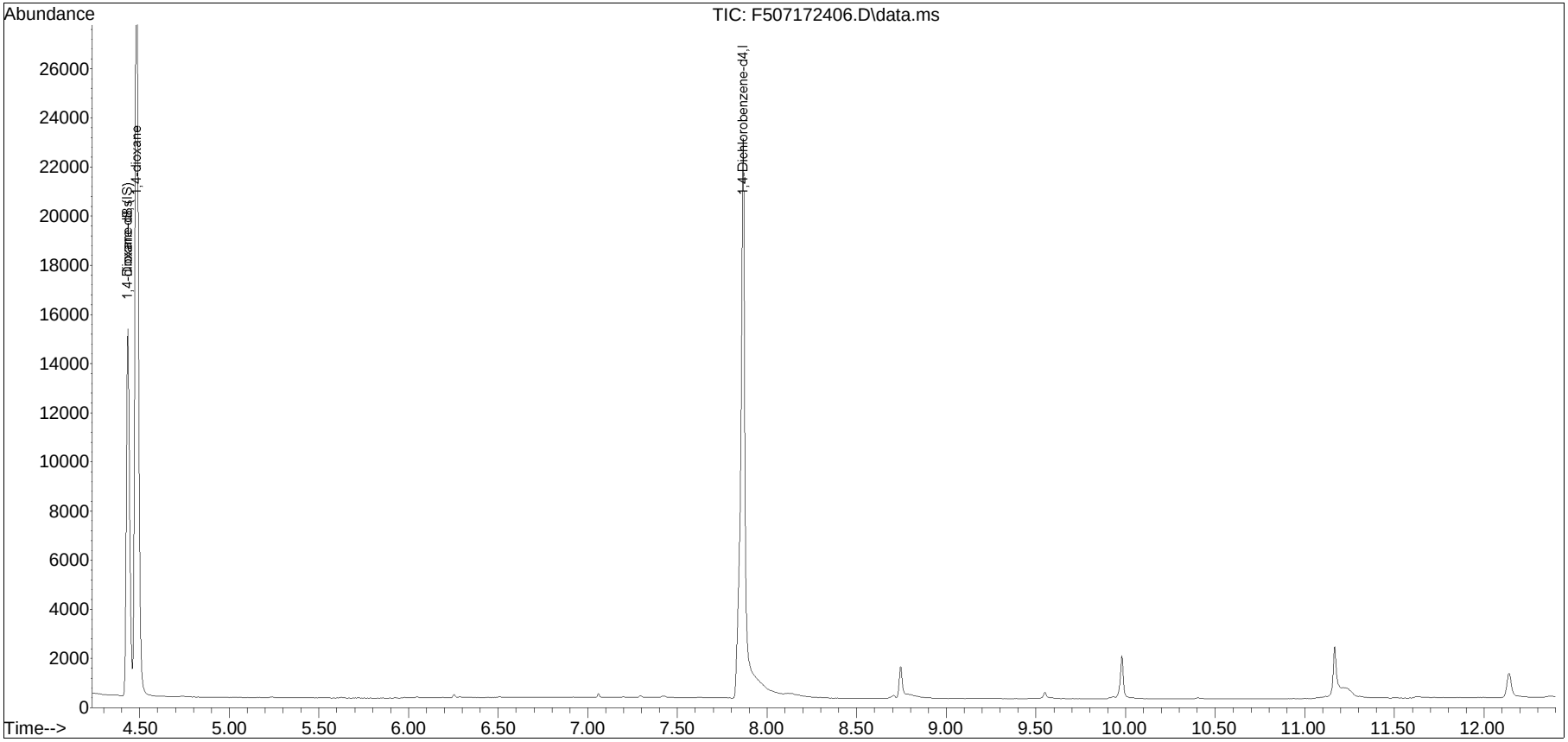
(#) = qualifier out of range (m) = manual integration (+) = signals summed

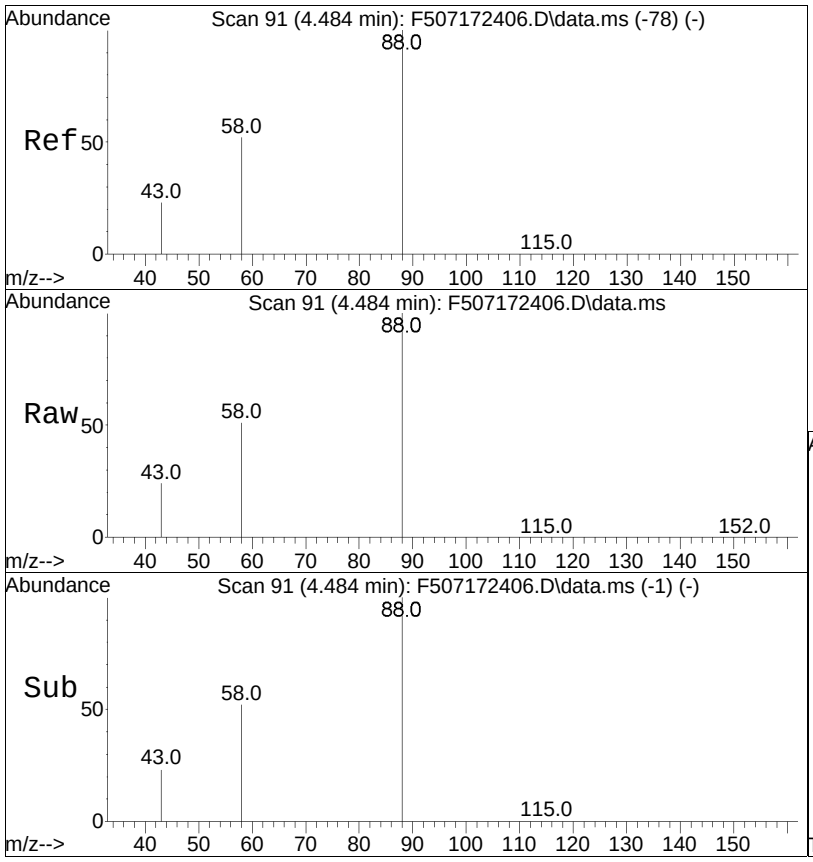
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172406.D
Acq On : 17 Jul 2024 5:29 pm
Operator : PAH5:CSP
Sample : I507172405
Misc : WG1948411,MSBU37
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 08:20:43 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

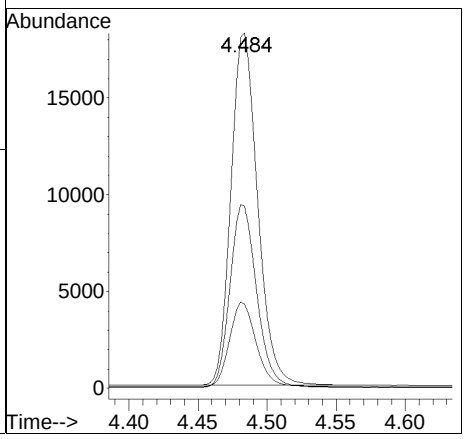




#2
1,4-dioxane
Concen: 1023.56 ng/mL
RT: 4.484 min Scan# 91
Delta R.T. 0.000 min
Lab File: F507172406.D
Acq: 17 Jul 2024 5:29 pm

Tgt Ion: 88 Resp: 24437

Ion	Ratio	Lower	Upper
88	100		
58	51.9	41.5	62.3
43	23.8	19.0	28.6



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F507172406.D	Operator	: PAH5:CSP
Date Inj'd	: 7/17/2024 5:29 pm	Instrument	: PAH 5
Sample	: I507172405	Quant Date	: 7/18/2024 8:20 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172407.D
Acq On : 17 Jul 2024 5:50 pm
Operator : PAH5:CSP
Sample : I507172406
Misc : WG1948411,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 08:20:46 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.431	64	6552	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.865	152	26260M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.431	64	6552	490.634	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.13%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.481	88	114722	4874.900	ng/mL	100

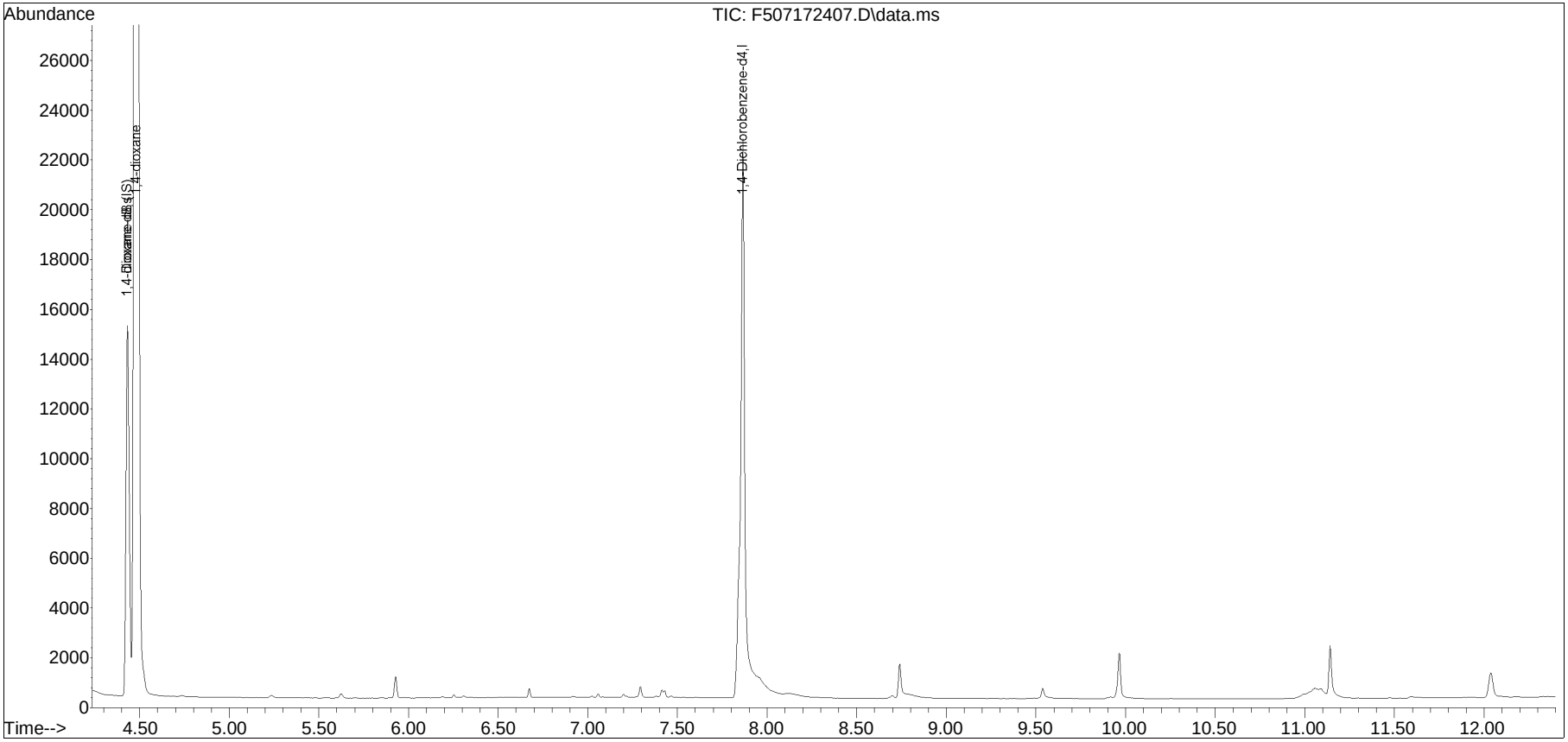
(#) = qualifier out of range (m) = manual integration (+) = signals summed

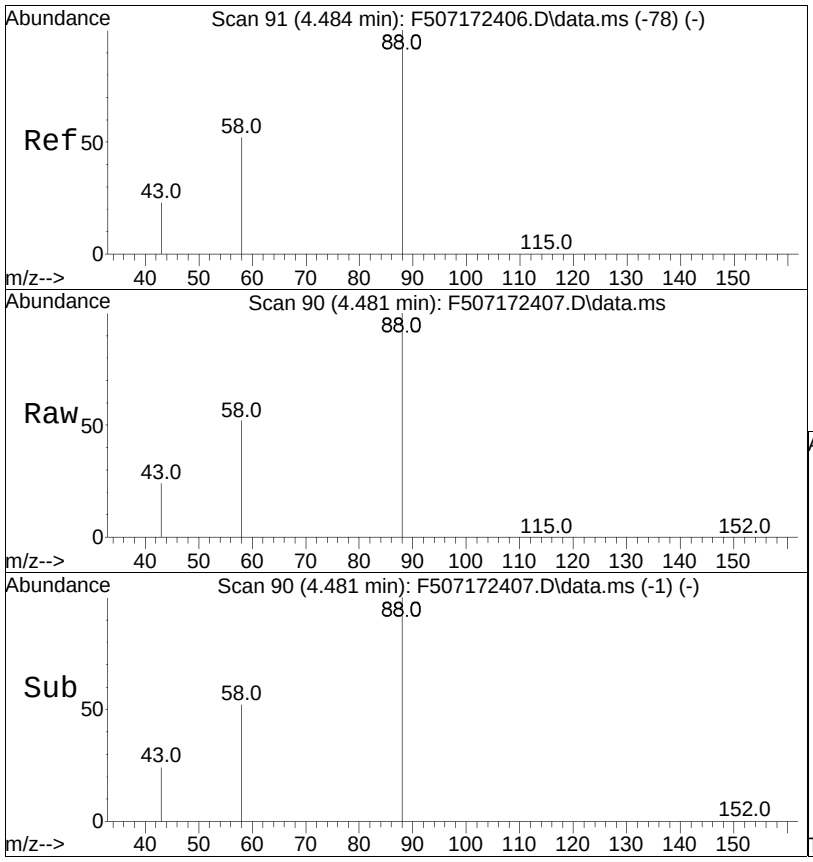
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172407.D
Acq On : 17 Jul 2024 5:50 pm
Operator : PAH5:CSP
Sample : I507172406
Misc : WG1948411,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 08:20:46 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

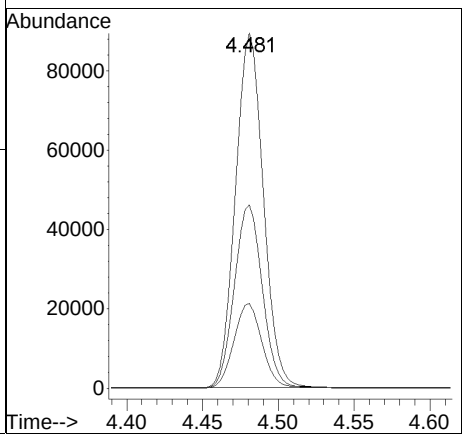




#2
1,4-dioxane
Concen: 4874.90 ng/mL
RT: 4.481 min Scan# 90
Delta R.T. -0.003 min
Lab File: F507172407.D
Acq: 17 Jul 2024 5:50 pm

Tgt Ion: 88 Resp: 114722

Ion	Ratio	Lower	Upper
88	100		
58	52.1	41.5	62.3
43	23.9	19.0	28.6

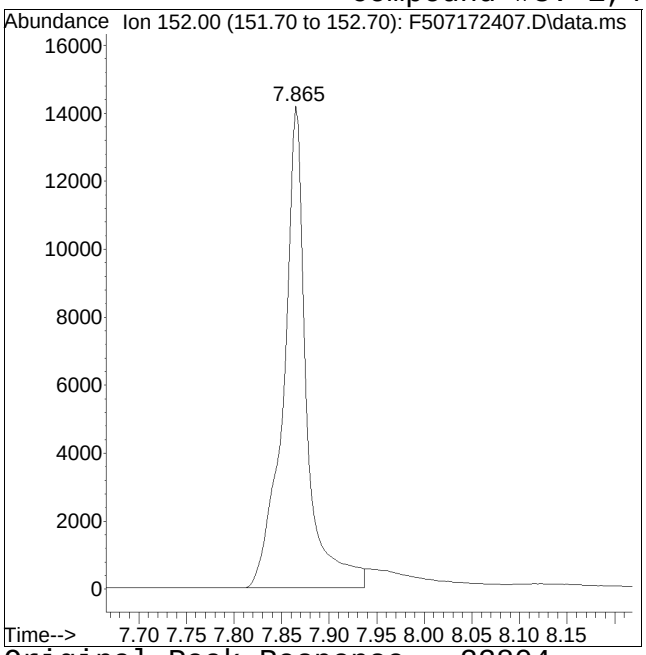


Manual Integration/Negative Proof Report

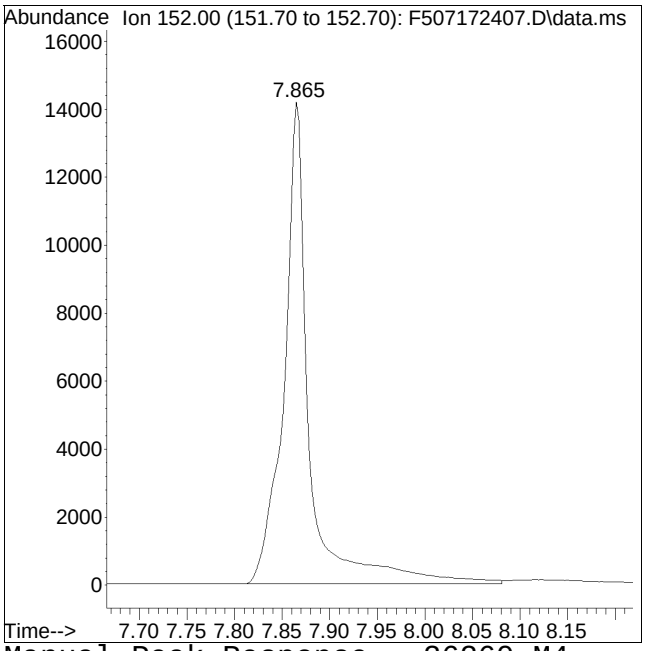
Data Path : O:\Organics\DATA\PAH5\2024\
Data File : F507172407.D
Date Inj'd : 7/17/2024 5:50 pm
Sample : I507172406

QMethod : 14DIOX0717PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 7/18/2024 8:20 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 23804



Manual Peak Response = 26260 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172408.D
Acq On : 17 Jul 2024 6:11 pm
Operator : PAH5:CSP
Sample : I507172407
Misc : WG1948411,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 08:20:49 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.434	64	6520	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.859	152	26218M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.434	64	6520	489.020	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.80%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.486	88	228602	9761.697	ng/mL	99

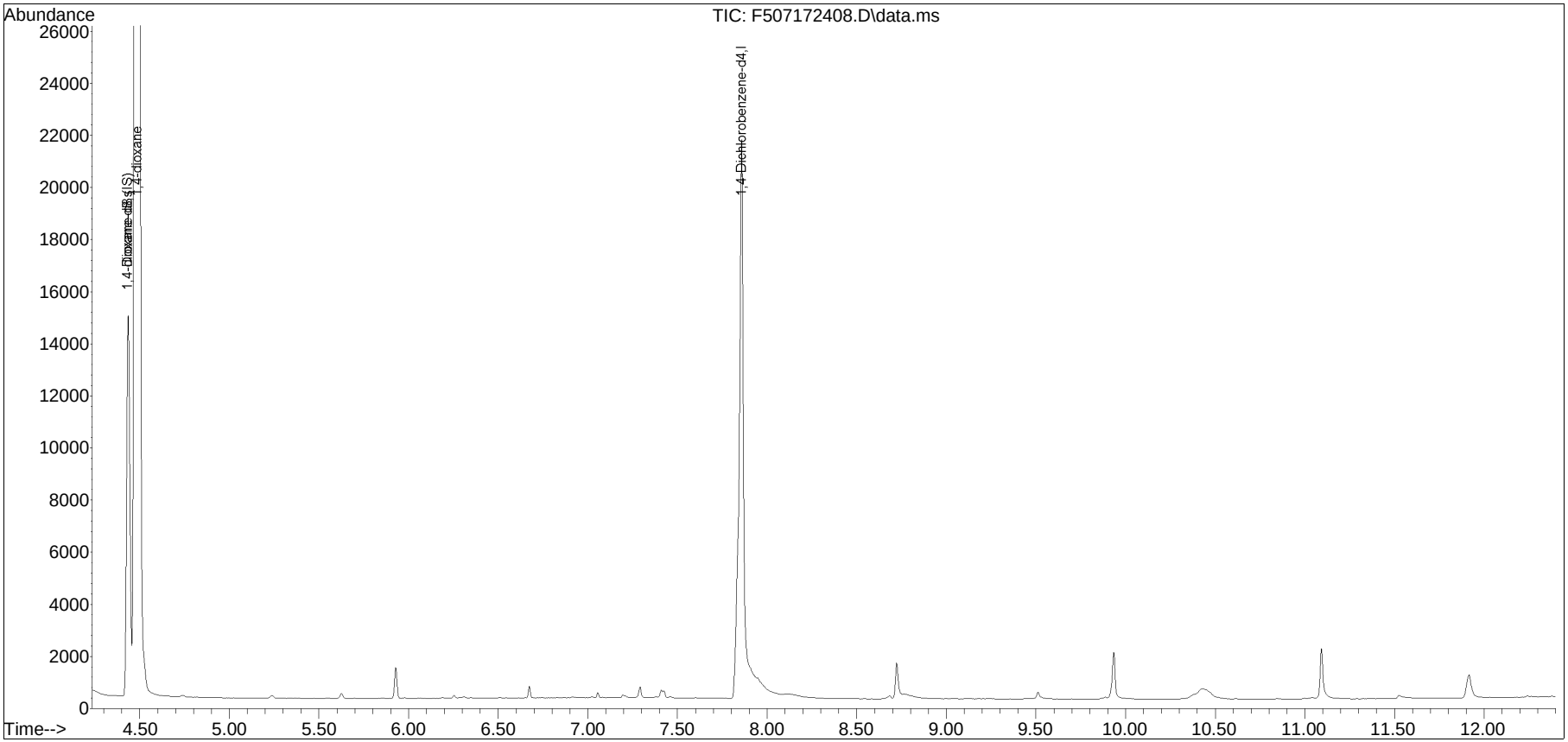
(#) = qualifier out of range (m) = manual integration (+) = signals summed

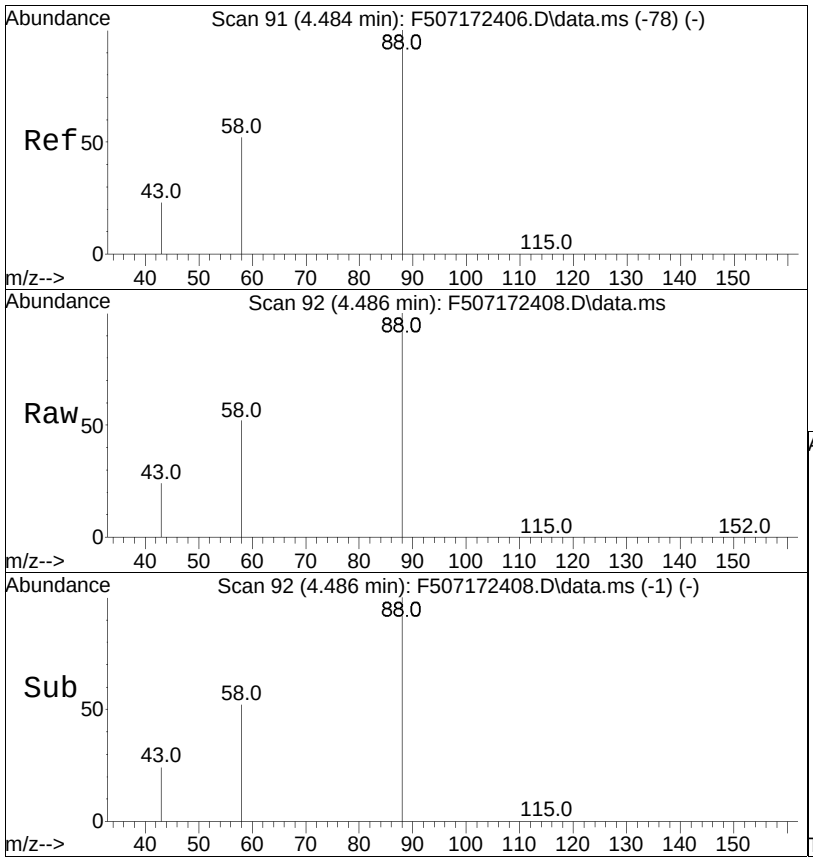
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172408.D
Acq On : 17 Jul 2024 6:11 pm
Operator : PAH5:CSP
Sample : I507172407
Misc : WG1948411,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 08:20:49 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

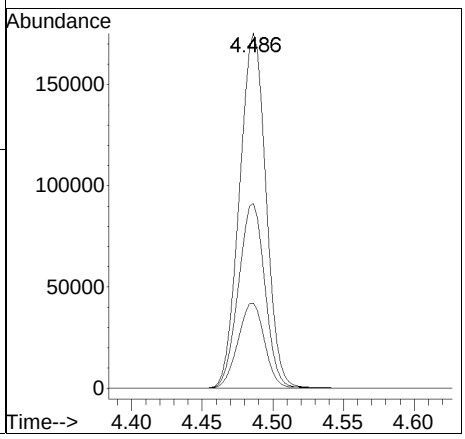




#2
1,4-dioxane
Concen: 9761.70 ng/mL
RT: 4.486 min Scan# 92
Delta R.T. 0.003 min
Lab File: F507172408.D
Acq: 17 Jul 2024 6:11 pm

Tgt Ion: 88 Resp: 228602

Ion	Ratio	Lower	Upper
88	100		
58	52.3	41.5	62.3
43	24.1	19.0	28.6

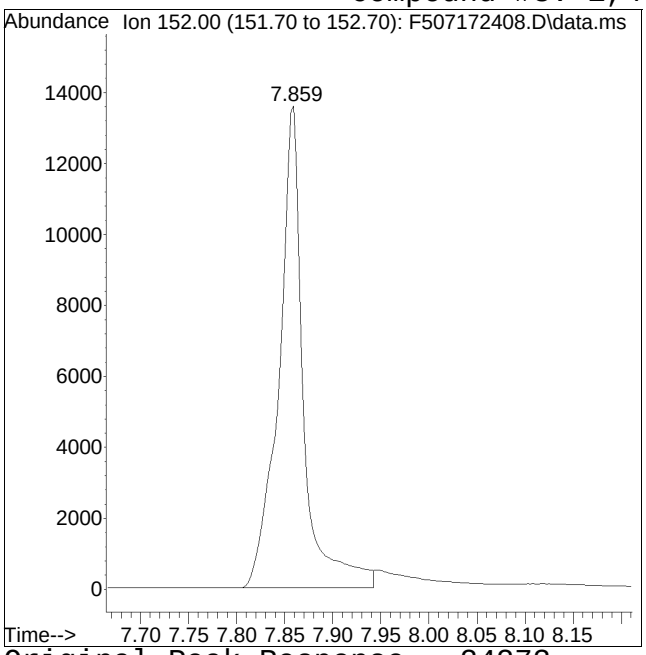


Manual Integration/Negative Proof Report

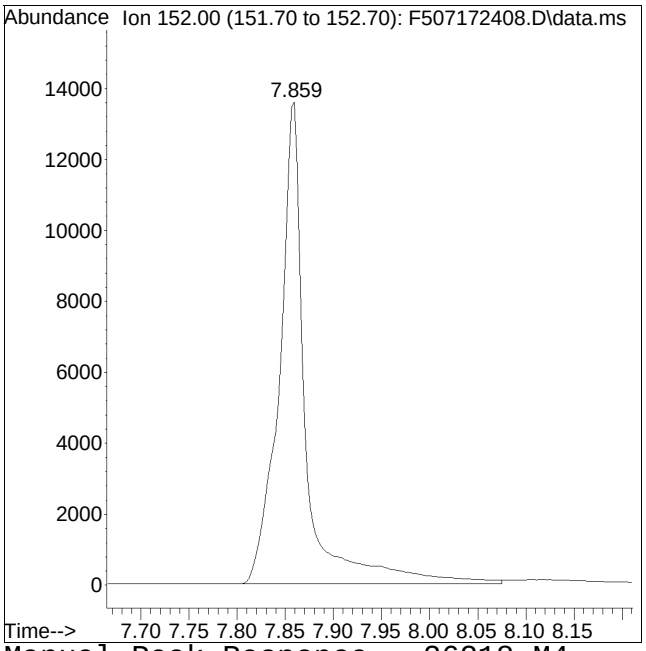
Data Path : O:\Organics\DATA\PAH5\2024\
Data File : F507172408.D
Date Inj'd : 7/17/2024 6:11 pm
Sample : I507172407

QMethod : 14DIOX0717PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 7/18/2024 8:20 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 24273



Manual Peak Response = 26218 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172409.D
Acq On : 17 Jul 2024 6:33 pm
Operator : PAH5:CSP
Sample : CQ507172401
Misc : WG1948411,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 08:21:39 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	97	0.00
2		1,4-dioxane	1.796	1.657	7.7	88	0.00
3	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	-0.01
4	s	1,4-dioxane-d8	0.254	0.250	1.6	95	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172409.D
Acq On : 17 Jul 2024 6:33 pm
Operator : PAH5:CSP
Sample : CQ507172401
Misc : WG1948411,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 08:21:39 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.431	64	6464	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.856	152	25890M4	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.431	64	6464	490.962	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.19%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.478	88	21425	922.810	ng/mL	100

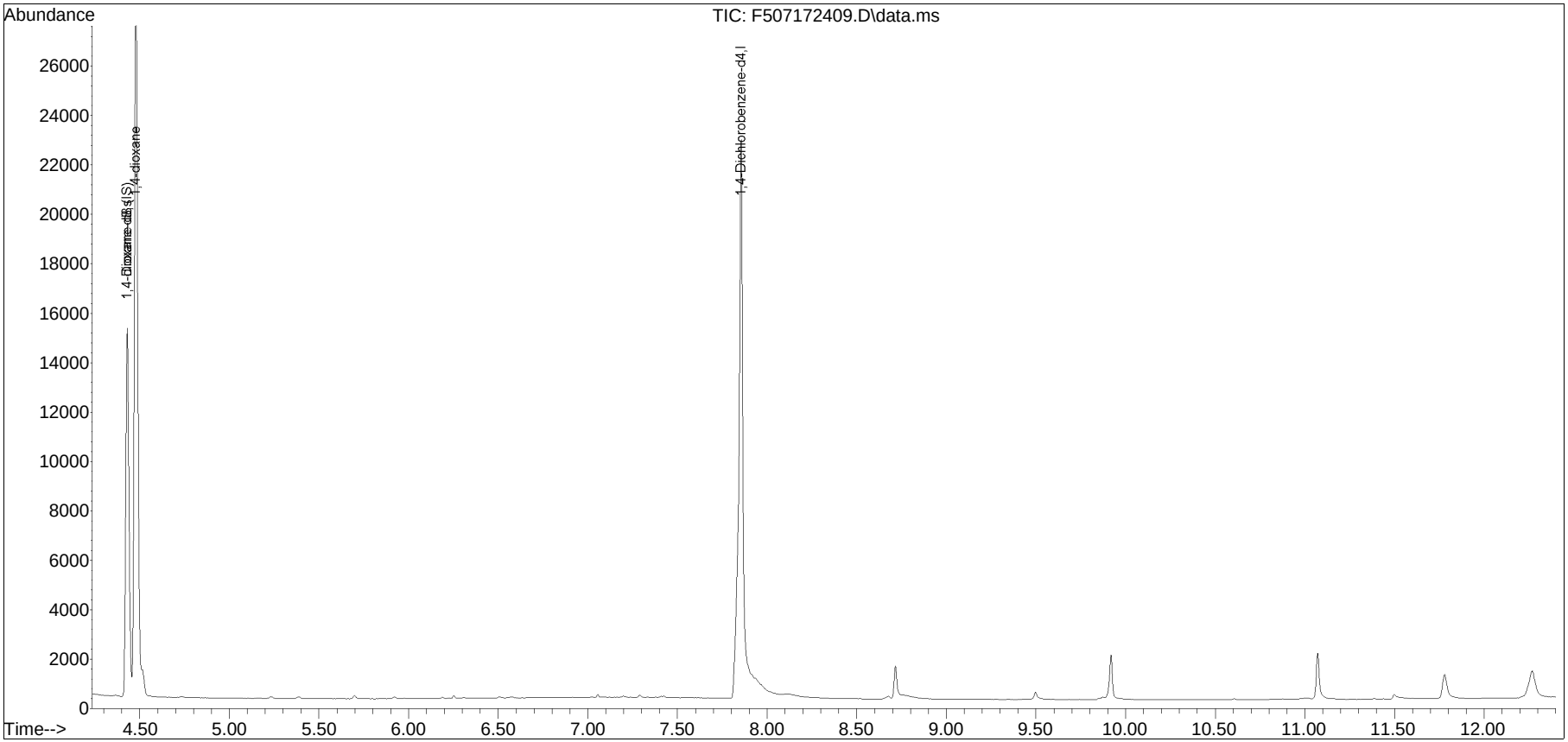
(#) = qualifier out of range (m) = manual integration (+) = signals summed

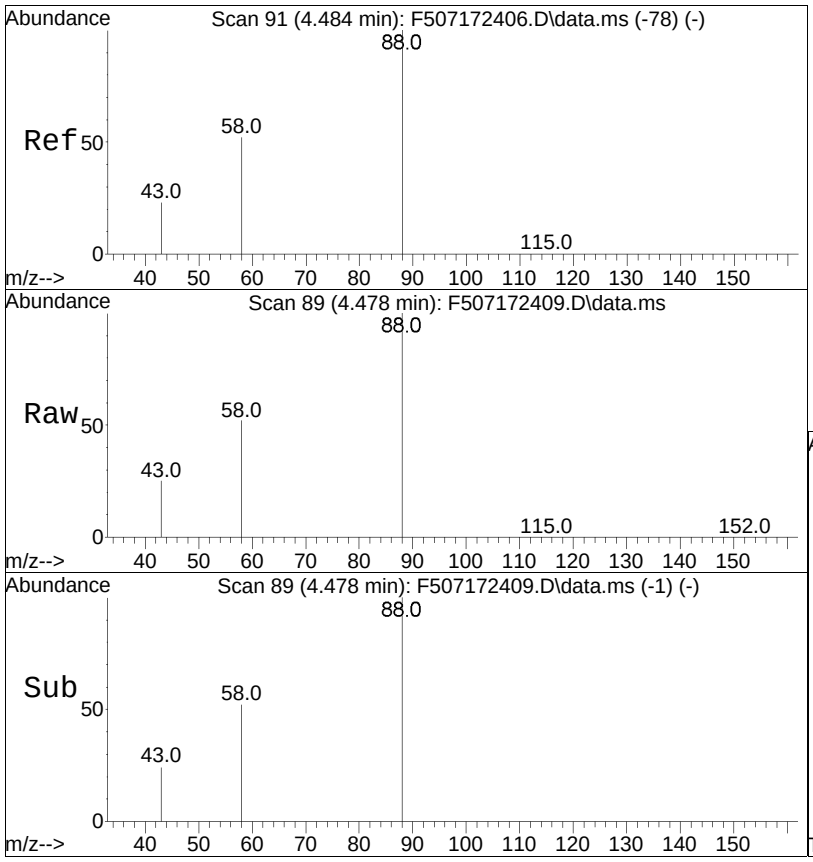
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\
Data File : F507172409.D
Acq On : 17 Jul 2024 6:33 pm
Operator : PAH5:CSP
Sample : CQ507172401
Misc : WG1948411,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 08:21:39 2024
Quant Method : O:\Organics\DATA\PAH5\2024\JUL\JUL17A\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Jul 18 08:20:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

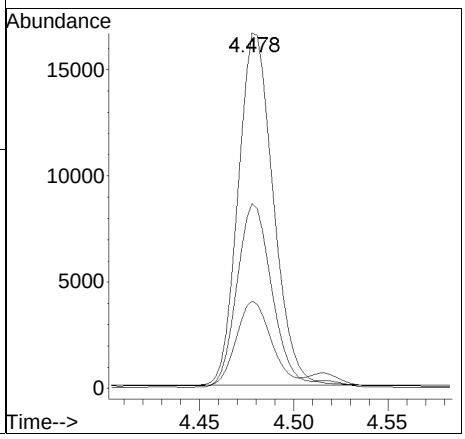




#2
1,4-dioxane
Concen: 922.81 ng/mL
RT: 4.478 min Scan# 89
Delta R.T. -0.006 min
Lab File: F507172409.D
Acq: 17 Jul 2024 6:33 pm

Tgt Ion: 88 Resp: 21425

Ion	Ratio	Lower	Upper
88	100		
58	52.2	41.5	62.3
43	24.2	19.0	28.6

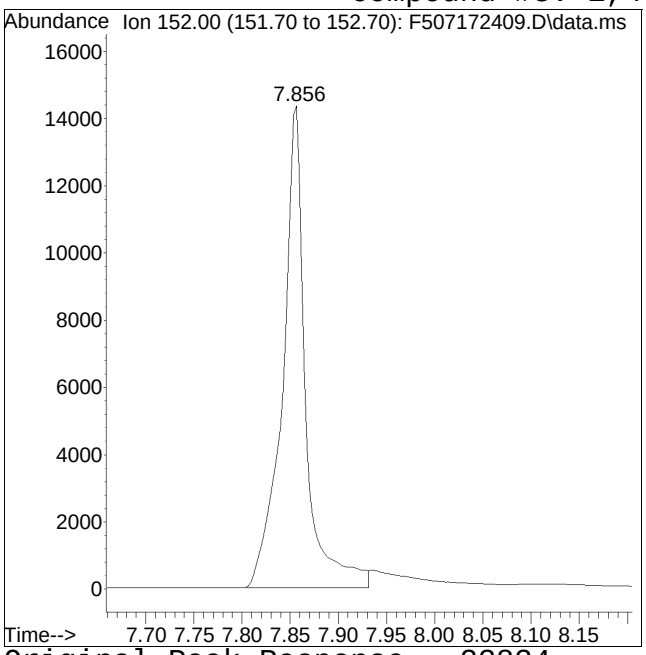


Manual Integration/Negative Proof Report

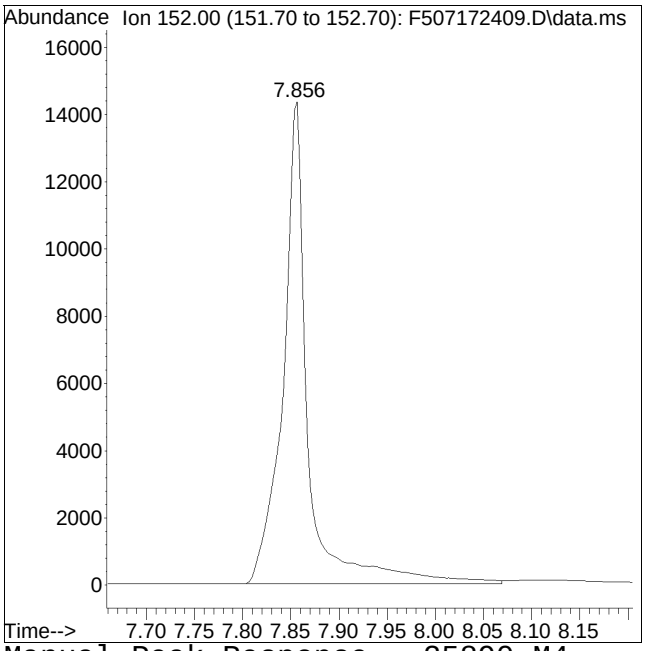
Data Path : O:\Organics\DATA\PAH5\2024\
Data File : F507172409.D
Date Inj'd : 7/17/2024 6:33 pm
Sample : CQ507172401

QMethod : 14DIOX0717PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 7/18/2024 8:20 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 23834



Manual Peak Response = 25890 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 09/27/24 08:31		
Lab File ID	: F509272402	**Init. Calib. Date(s)**	: 07/17/24	07/17/24	
Sample No	: WG1976601-2	**Init. Calib. Times**	: 15:53	18:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	106	0
1,4-dioxane	1.796	1.676	-	6.7	20	96	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
1,4-dioxane-d8	0.254	0.231	-	9.1	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 09/28/24 08:41		
Lab File ID	: F509272418	**Init. Calib. Date(s)**	: 07/17/24	07/17/24	
Sample No	: WG1976601-4	**Init. Calib. Times**	: 15:53	18:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	107	0
1,4-dioxane	1.796	1.683	-	6.3	20	98	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
1,4-dioxane-d8	0.254	0.229	-	9.8	20	104	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 09/28/24 14:31		
Lab File ID	: F509272430	**Init. Calib. Date(s)**	: 07/17/24	07/17/24	
Sample No	: WG1976601-6	**Init. Calib. Times**	: 15:53	18:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	91	-.01
1,4-dioxane	1.796	1.695	-	5.6	20	84	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
1,4-dioxane-d8	0.254	0.213	-	16.1	20	88	-.01

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 09/28/24 23:21		
Lab File ID	: F509272449	**Init. Calib. Date(s)**	: 07/17/24	07/17/24	
Sample No	: WG1976601-8	**Init. Calib. Times**	: 15:53	18:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	104	0
1,4-dioxane	1.796	1.702	-	5.2	20	97	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	119	-.01
1,4-dioxane-d8	0.254	0.22	-	13.4	20	102	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272402.D
Acq On : 27 Sep 2024 8:31 am
Operator : PAH5:GRS
Sample : WG1976601-2
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:48:54 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	106	0.00
2	1,4-dioxane	1.796	1.676	6.7	96	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
4 s	1,4-dioxane-d8	0.254	0.231	9.1	103	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272402.D
Acq On : 27 Sep 2024 8:31 am
Operator : PAH5:GRS
Sample : WG1976601-2
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:48:54 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.031	64	7025	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.644	152	30433	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.031	64	7025	453.921	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 90.78%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.075	88	23551	933.374	ng/mL	98

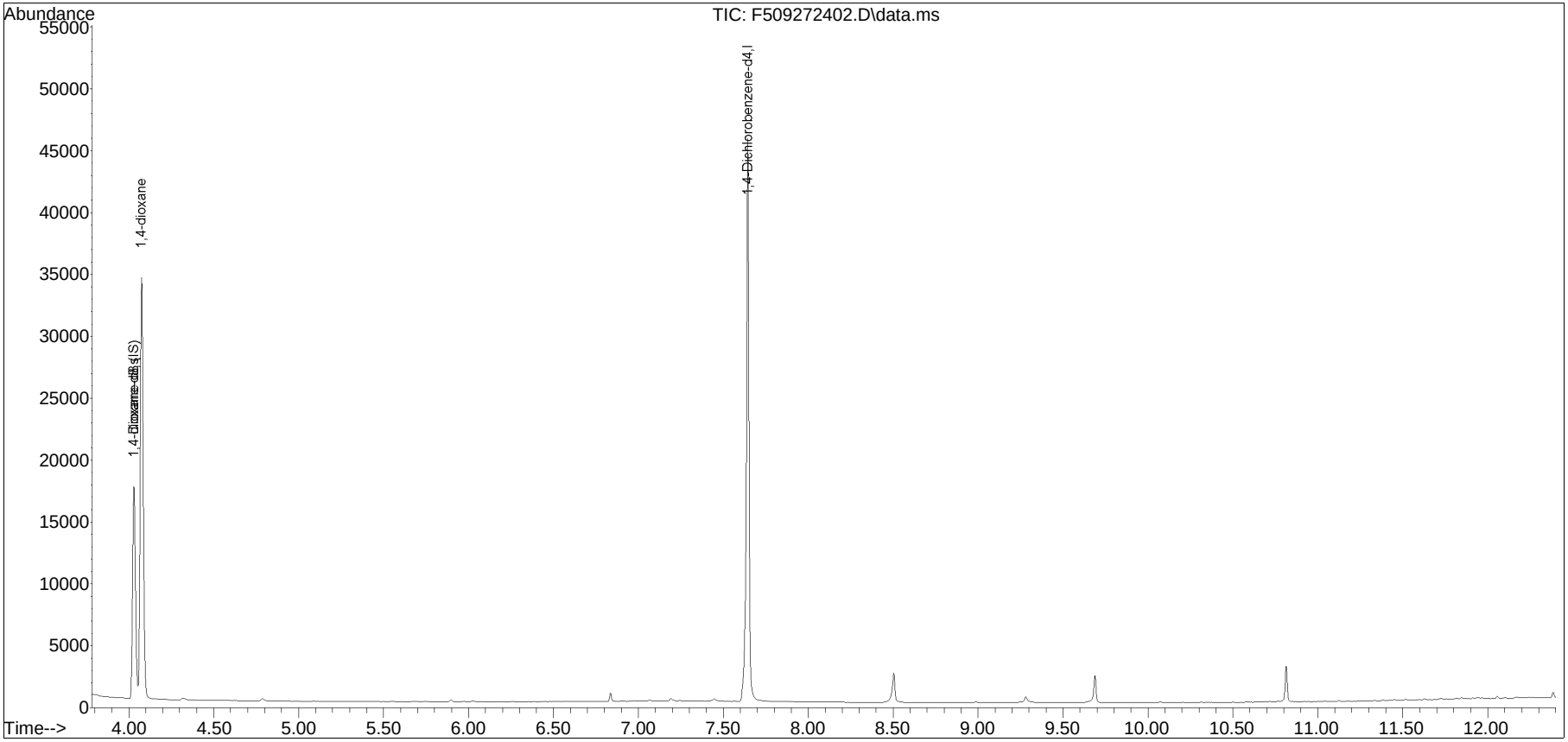
(#) = qualifier out of range (m) = manual integration (+) = signals summed

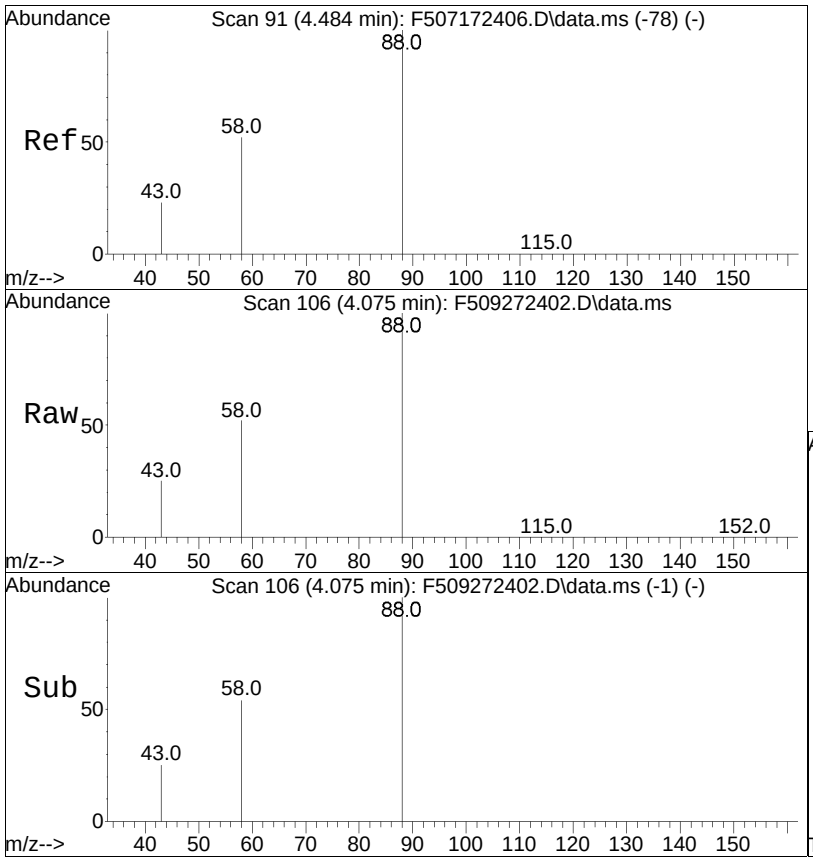
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272402.D
Acq On : 27 Sep 2024 8:31 am
Operator : PAH5:GRS
Sample : WG1976601-2
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:48:54 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

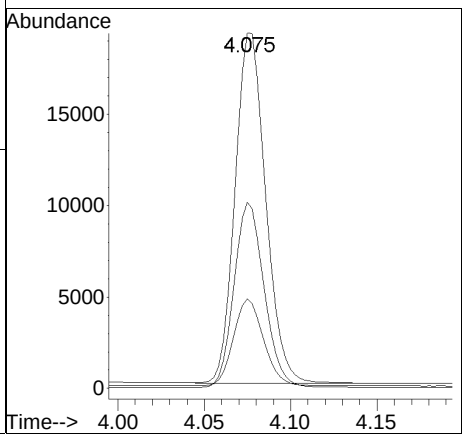




#2
1,4-dioxane
Concen: 933.37 ng/mL
RT: 4.075 min Scan# 106
Delta R.T. 0.000 min
Lab File: F509272402.D
Acq: 27 Sep 2024 8:31 am

Tgt Ion: 88 Resp: 23551

Ion	Ratio	Lower	Upper
88	100		
58	52.1	40.3	60.5
43	24.3	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272402.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 8:31 am	Instrument	: PAH 5
Sample	: WG1976601-2	Quant Date	: 9/27/2024 8:48 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272418.D
Acq On : 28 Sep 2024 8:41 am
Operator : PAH5:GRS
Sample : WG1976601-4
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 07:43:24 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	107	0.00
2	1,4-dioxane	1.796	1.683	6.3	98	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
4 s	1,4-dioxane-d8	0.254	0.229	9.8	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272418.D
Acq On : 28 Sep 2024 8:41 am
Operator : PAH5:GRS
Sample : WG1976601-4
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 07:43:24 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.028	64	7119	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.636	152	31100	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.028	64	7119	450.129	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 90.03%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.075	88	23961	937.085	ng/mL	99

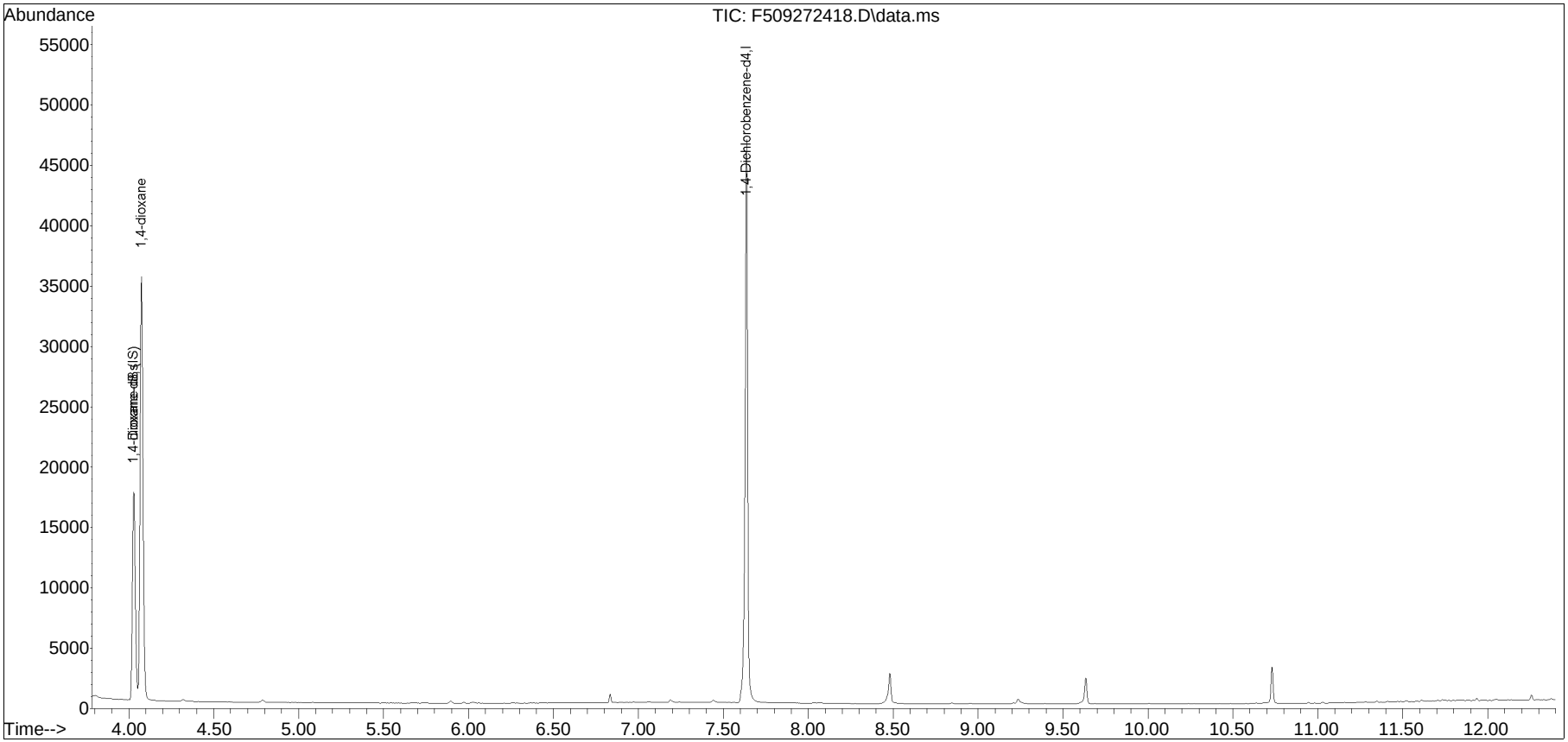
(#) = qualifier out of range (m) = manual integration (+) = signals summed

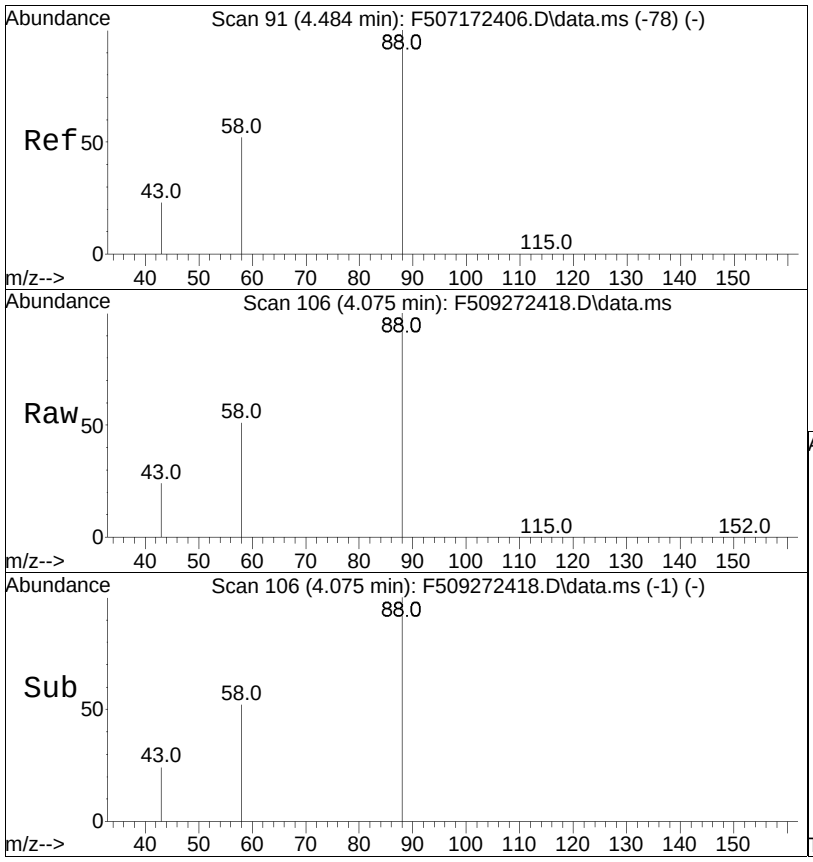
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272418.D
Acq On : 28 Sep 2024 8:41 am
Operator : PAH5:GRS
Sample : WG1976601-4
Misc : WG1976601,,ICAL21302,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 07:43:24 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

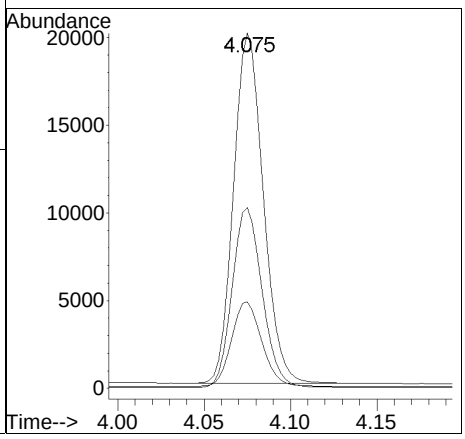




#2
1,4-dioxane
Concen: 937.08 ng/mL
RT: 4.075 min Scan# 106
Delta R.T. 0.000 min
Lab File: F509272418.D
Acq: 28 Sep 2024 8:41 am

Tgt Ion: 88 Resp: 23961

Ion	Ratio	Lower	Upper
88	100		
58	51.7	40.3	60.5
43	24.2	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272418.D	Operator	: PAH5:GRS
Date Inj'd	: 9/28/2024 8:41 am	Instrument	: PAH 5
Sample	: WG1976601-4	Quant Date	: 9/30/2024 7:43 am

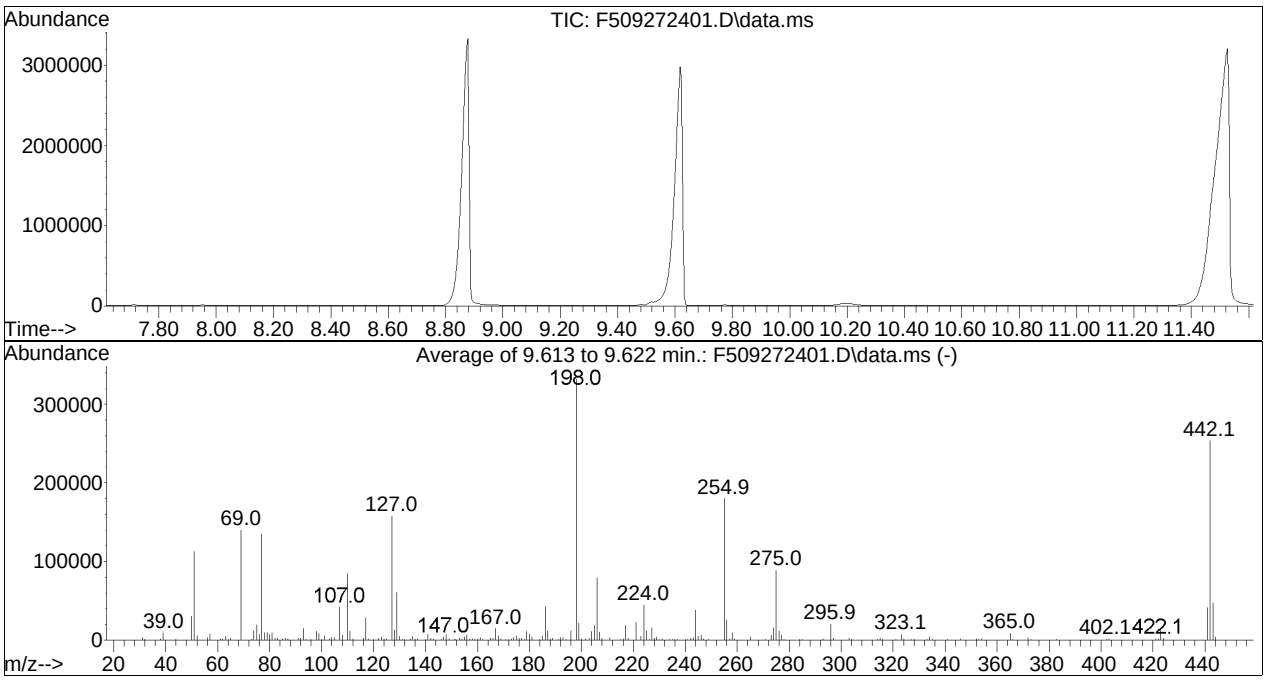
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272401.D
Acq On : 27 Sep 2024 7:45 am
Operator : PAH5:GRS
Sample : WG1976601-1
Misc : WG1976601,,ICAL21302,MSBU90
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Fri Sep 27 08:48:44 2024



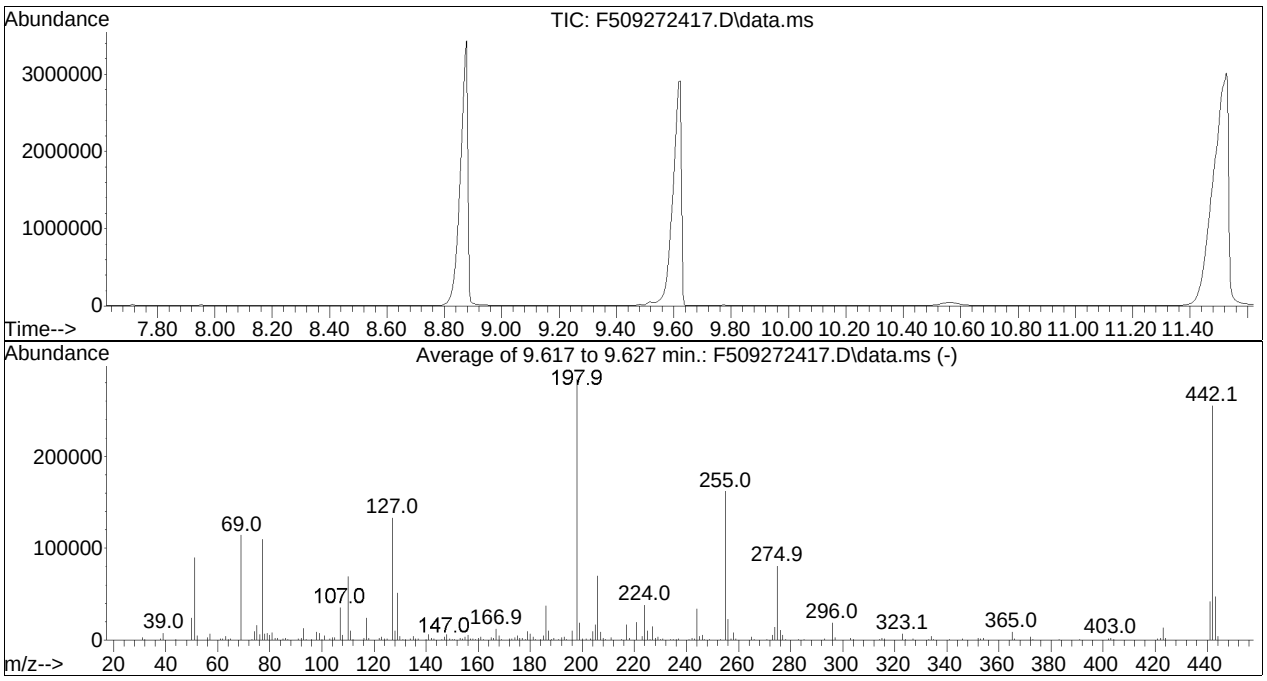
Spectrum Information: Average of 9.613 to 9.622 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.9	112664	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	635	PASS
127	198	10	80	47.6	158140	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	332567	PASS
199	198	5	9	6.7	22248	PASS
275	198	10	60	26.7	88671	PASS
365	198	1	100	2.6	8690	PASS
441	442	0.01	24	16.3	41483	PASS
442	198	50	100	76.4	253999	PASS
443	442	15	24	18.7	47500	PASS

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272417.D
Acq On : 28 Sep 2024 7:56 am
Operator : PAH5:GRS
Sample : WG1976601-3
Misc : WG1976601,,ICAL21302,MSBU90
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Fri Sep 27 08:48:44 2024



Spectrum Information: Average of 9.617 to 9.627 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.7	90172	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	502	PASS
127	198	10	80	46.7	132830	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	284475	PASS
199	198	5	9	6.6	18806	PASS
275	198	10	60	28.3	80525	PASS
365	198	1	100	3.0	8582	PASS
441	442	0.01	24	16.4	41732	PASS
442	198	50	100	89.7	255170	PASS
443	442	15	24	18.6	47395	PASS

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272403.D
Acq On : 27 Sep 2024 9:06 am
Operator : PAH5:GRS
Sample : WG1974401-1,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 08:19:22 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.064	64	3345	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.641	152	30120	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.064	64	3345	218.384	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.68%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

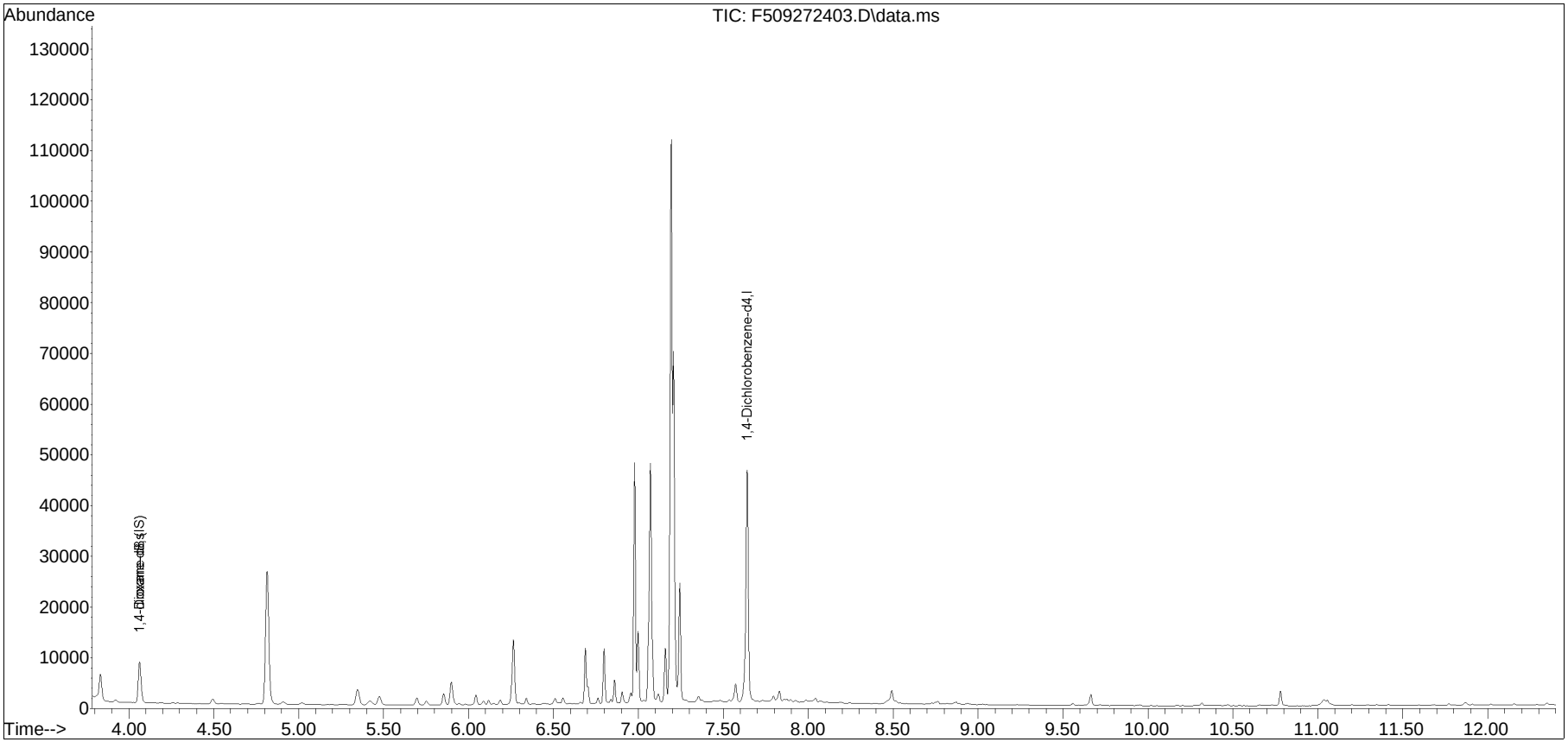
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272403.D
Acq On : 27 Sep 2024 9:06 am
Operator : PAH5:GRS
Sample : WG1974401-1,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 08:19:22 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272403.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 9:06 am	Instrument	: PAH 5
Sample	: WG1974401-1,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272404.D
Acq On : 27 Sep 2024 9:33 am
Operator : PAH5:GRS
Sample : WG1974401-2,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 07:42:20 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.083	64	3346	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.641	152	27777	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.083	64	3346	236.875	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 47.38%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.127	88	6462	537.692	ng/mL	99

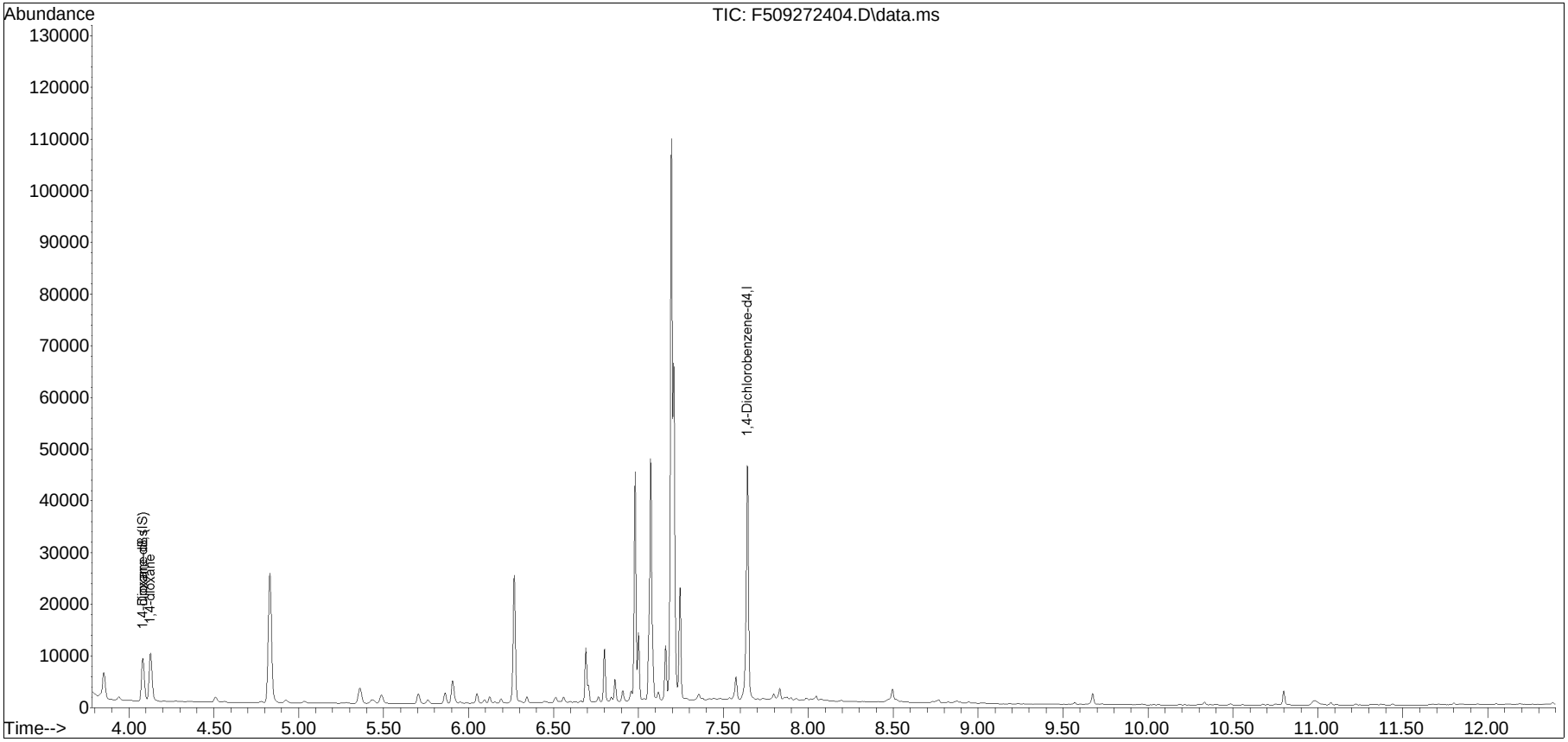
(#) = qualifier out of range (m) = manual integration (+) = signals summed

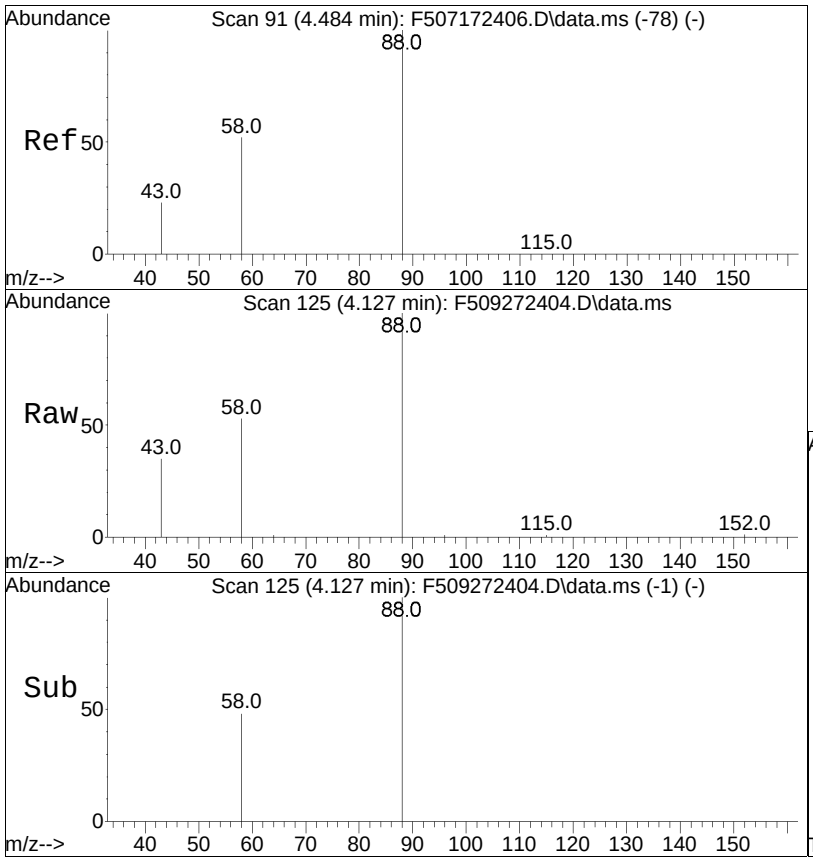
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272404.D
Acq On : 27 Sep 2024 9:33 am
Operator : PAH5:GRS
Sample : WG1974401-2,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 07:42:20 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

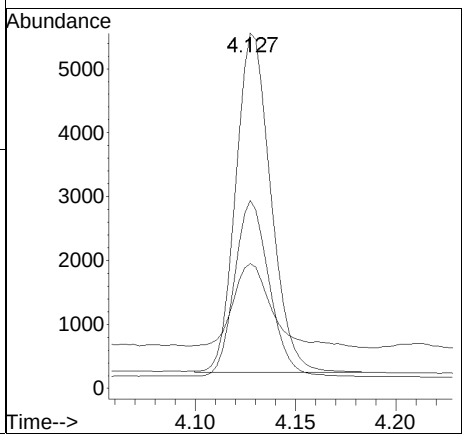




#2
1,4-dioxane
Concen: 537.69 ng/mL
RT: 4.127 min Scan# 125
Delta R.T. 0.052 min
Lab File: F509272404.D
Acq: 27 Sep 2024 9:33 am

Tgt Ion: 88 Resp: 6462

Ion	Ratio	Lower	Upper
88	100		
58	51.5	40.3	60.5
43	25.3	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272404.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 9:33 am	Instrument	: PAH 5
Sample	: WG1974401-2,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272405.D
Acq On : 27 Sep 2024 10:02 am
Operator : PAH5:GRS
Sample : WG1974401-3,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 07:42:23 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.075	64	3152	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.644	152	27339	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.075	64	3152	226.716	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 45.34%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.119	88	6144	542.698	ng/mL	99

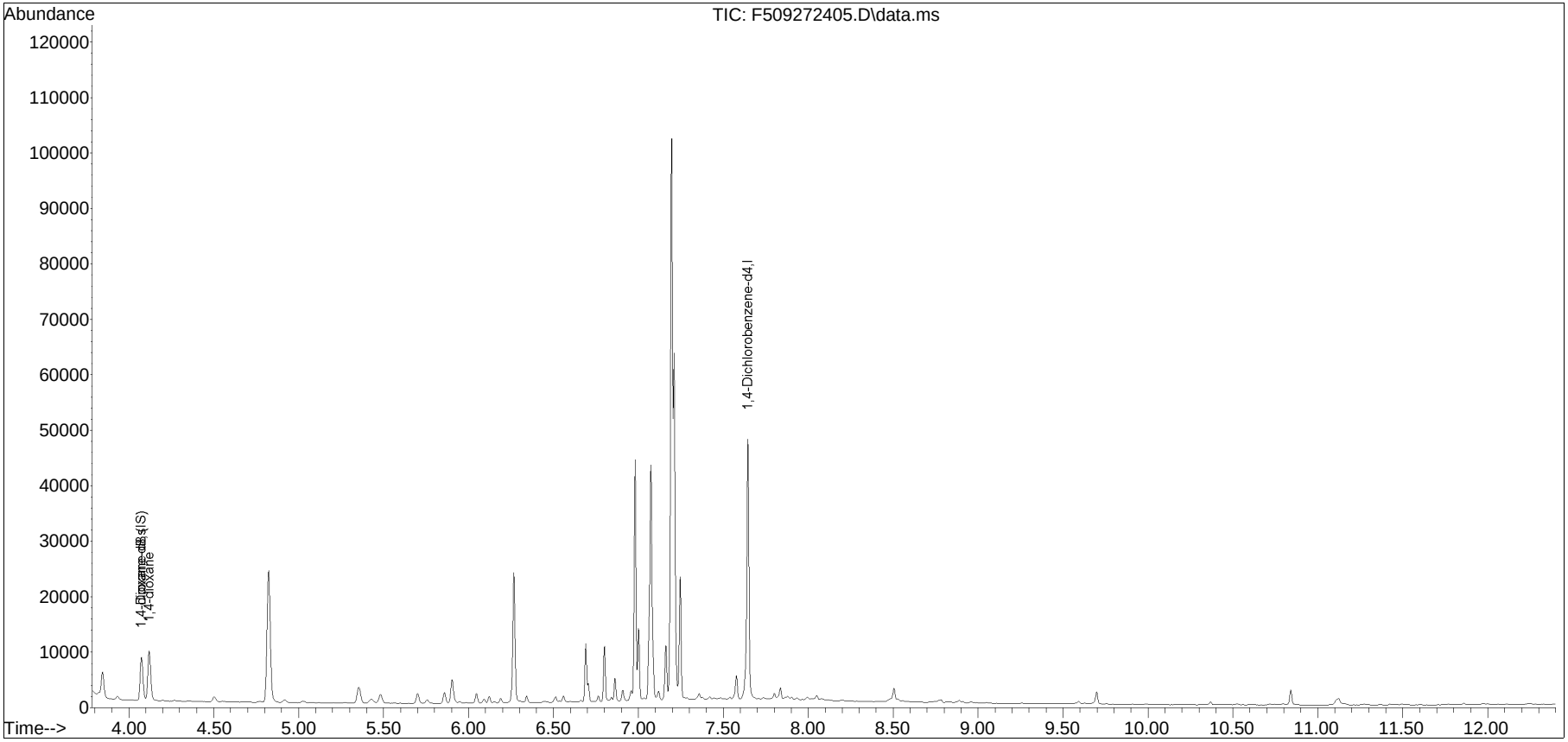
(#) = qualifier out of range (m) = manual integration (+) = signals summed

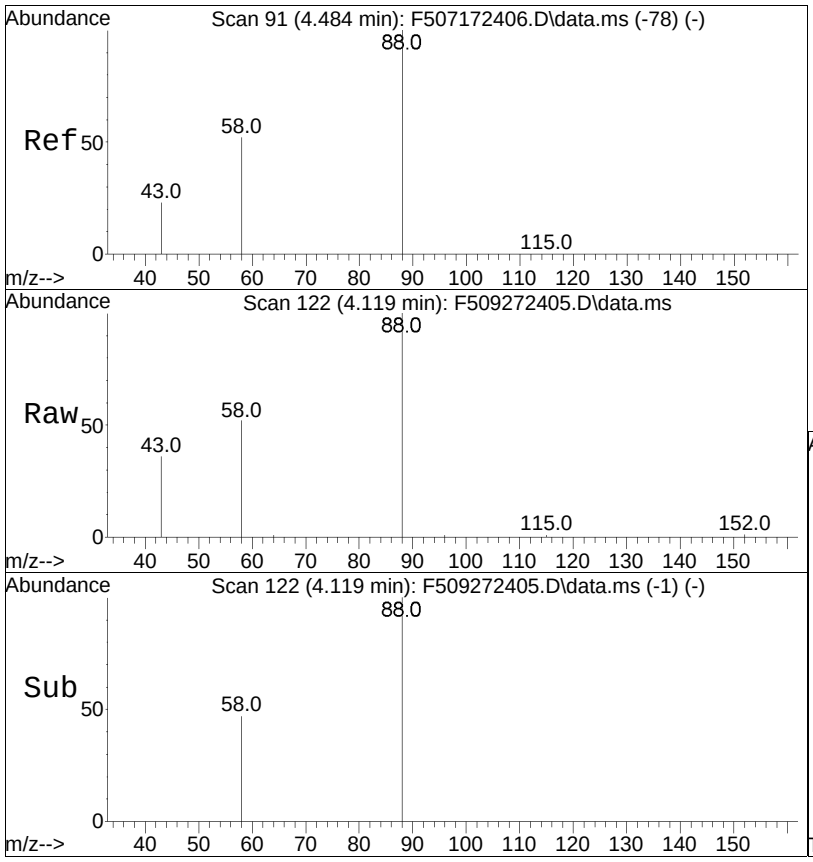
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272405.D
Acq On : 27 Sep 2024 10:02 am
Operator : PAH5:GRS
Sample : WG1974401-3,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 07:42:23 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

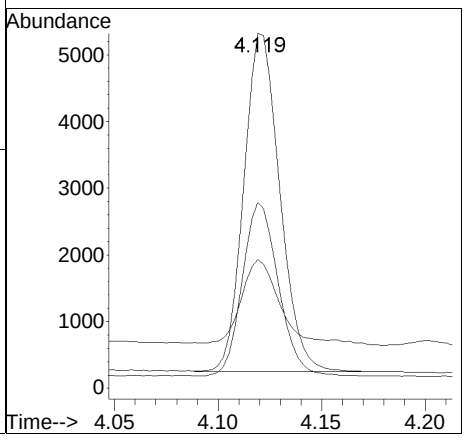




#2
1,4-dioxane
Concen: 542.70 ng/mL
RT: 4.119 min Scan# 122
Delta R.T. 0.044 min
Lab File: F509272405.D
Acq: 27 Sep 2024 10:02 am

Tgt Ion: 88 Resp: 6144

Ion	Ratio	Lower	Upper
88	100		
58	51.2	40.3	60.5
43	24.9	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272405.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 10:02 am	Instrument	: PAH 5
Sample	: WG1974401-3,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272413.D
Acq On : 27 Sep 2024 3:47 pm
Operator : PAH5:GRS
Sample : WG1974401-4,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 07:42:39 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.083	64	3044	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.653	152	27339	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.083	64	3044	218.948	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.79%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.128	88	6011	549.788	ng/mL	99

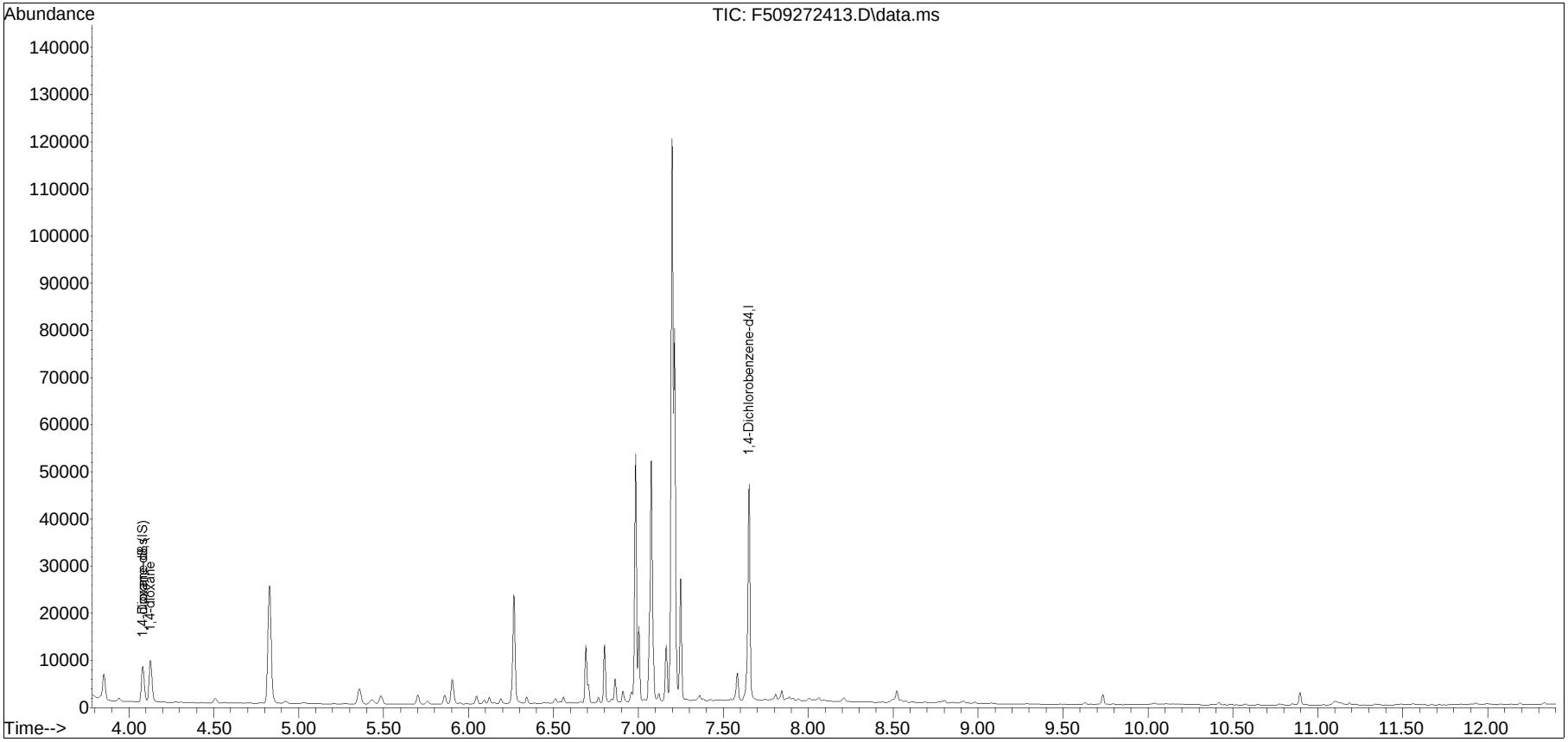
(#) = qualifier out of range (m) = manual integration (+) = signals summed

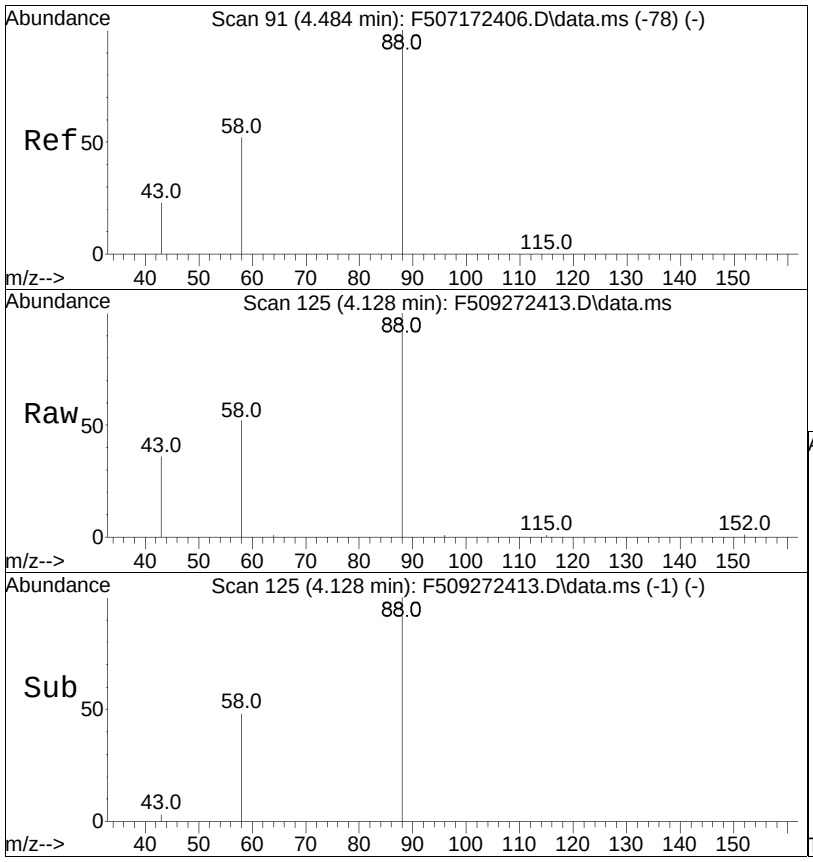
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272413.D
Acq On : 27 Sep 2024 3:47 pm
Operator : PAH5:GRS
Sample : WG1974401-4,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 07:42:39 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

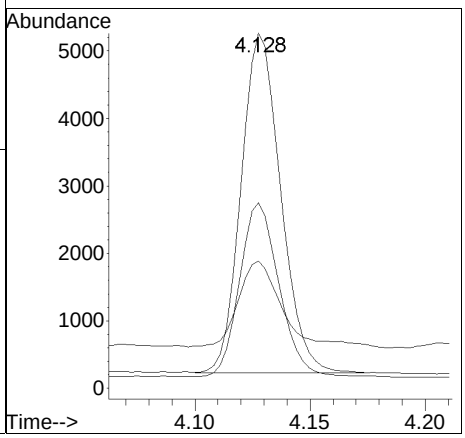




#2
1,4-dioxane
Concen: 549.79 ng/mL
RT: 4.128 min Scan# 125
Delta R.T. 0.053 min
Lab File: F509272413.D
Acq: 27 Sep 2024 3:47 pm

Tgt Ion: 88 Resp: 6011

Ion	Ratio	Lower	Upper
88	100		
58	50.8	40.3	60.5
43	26.1	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272413.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 3:47 pm	Instrument	: PAH 5
Sample	: WG1974401-4,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272414.D
Acq On : 27 Sep 2024 4:16 pm
Operator : PAH5:GRS
Sample : WG1974401-5,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 30 07:42:41 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.064	64	2981	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.647	152	27122	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.064	64	2981	216.132	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.23%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.108	88	5877	548.892	ng/mL	99

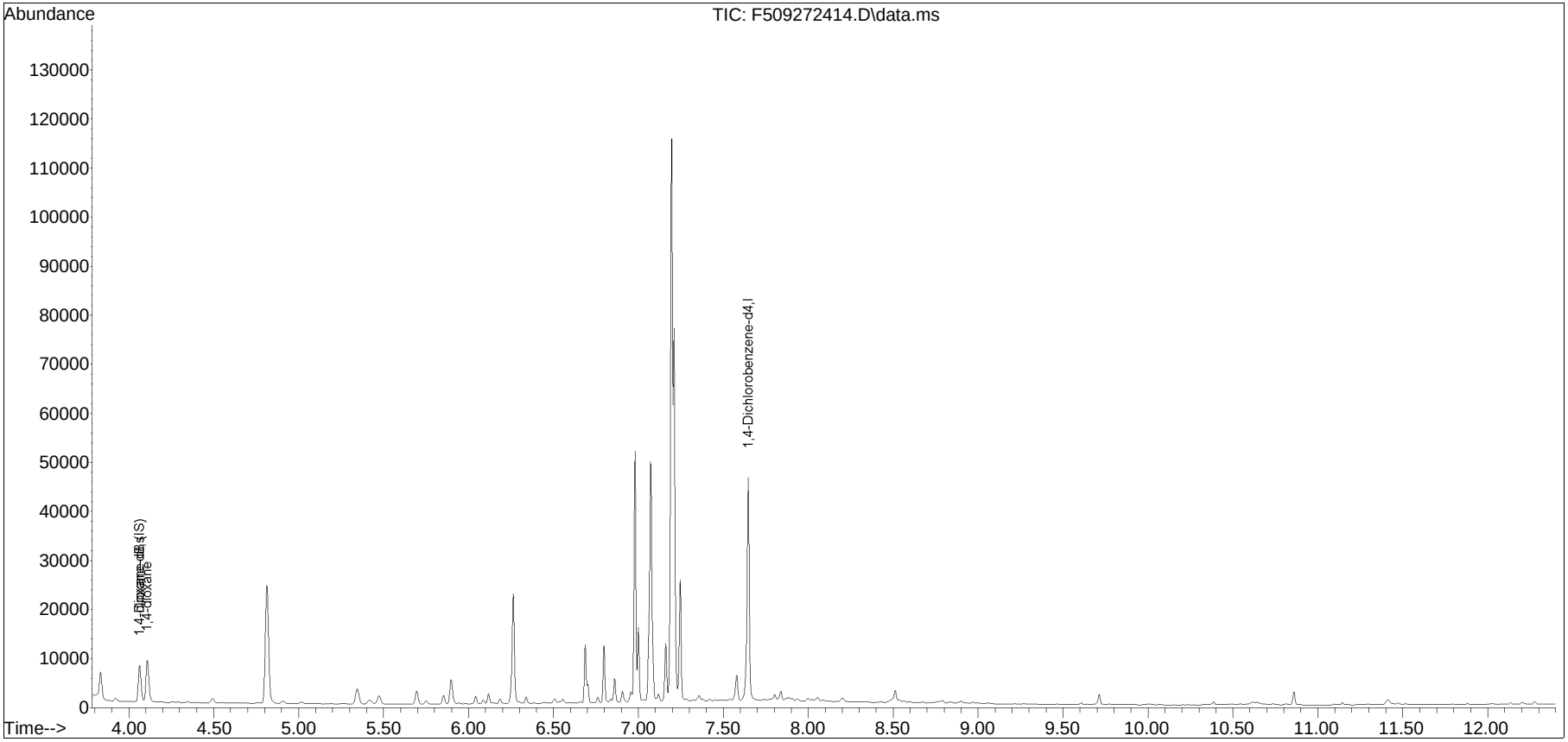
(#) = qualifier out of range (m) = manual integration (+) = signals summed

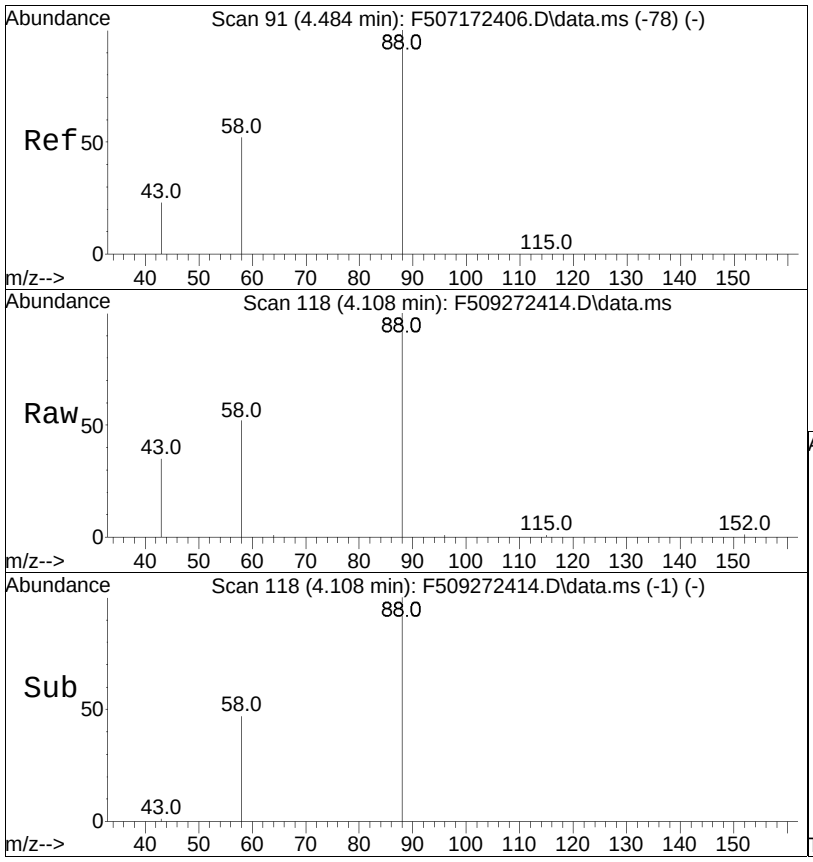
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\PAH5\2024\SEP\SEP27\
Data File : F509272414.D
Acq On : 27 Sep 2024 4:16 pm
Operator : PAH5:GRS
Sample : WG1974401-5,32
Misc : WG1976601,WG1974401,ICAL21302
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 30 07:42:41 2024
Quant Method : S:\Organics\DATA\PAH5\2024\SEP\SEP27\14DIOX0717PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Sep 27 08:48:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

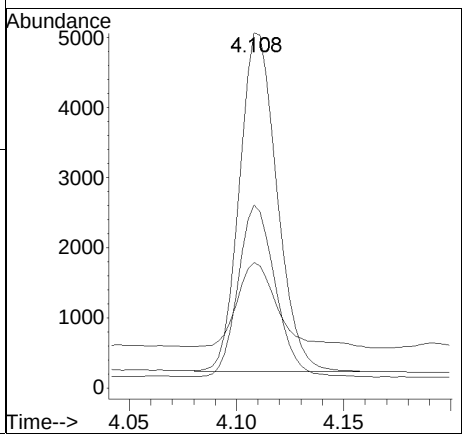




#2
1,4-dioxane
Concen: 548.89 ng/mL
RT: 4.108 min Scan# 118
Delta R.T. 0.033 min
Lab File: F509272414.D
Acq: 27 Sep 2024 4:16 pm

Tgt Ion: 88 Resp: 5877

Ion	Ratio	Lower	Upper
88	100		
58	50.1	40.3	60.5
43	25.3	19.7	29.5



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\PAH5\2024\	QMethod	: 14DIOX0717PAH5.M
Data File	: F509272414.D	Operator	: PAH5:GRS
Date Inj'd	: 9/27/2024 4:16 pm	Instrument	: PAH 5
Sample	: WG1974401-5,32	Quant Date	: 9/30/2024 7:42 am

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 11:27 am

Work Group: WG1976601 for Department: 32 GC/MS - Semivolatiles

Created: 26-SEP-24 Due: Operator: GRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453084-16	SW-1	C	A2-MCP14DXSIM-PPB-21	WATER	DONE	U	0923	1003	S0	Amber-A.25
L2453129-01	20240916MW-3V10NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453129-02	20240916MW-3DV27NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453129-03	20240916MW-304V15NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DACQ	U	0923	0924	S0	Amber-A.25
L2453129-04	20240916MW-403V58NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453129-06	20240916MW-8V9.5	S	A2-NJ-14DIOXSIM-PPB	WATER	DACQ	U	0923	0924	S0	Amber-A.25
L2453129-07	20240916WCFB	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-01	SW-1	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-02	SW-2	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-08	MP-13BD	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-09	MP-20B	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-10	MP-36BD	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453182-11	DUP-01	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0923	0924	S0	Amber-A.25
L2453257-01	ED, 8MG/L H2O2, 1200 MJ/CM2	S	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0923	1001	S0	Amber-A.25
L2453342-06	MW-10S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453342-08	PZ-6	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453342-09	DUP_091724	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453342-10	EQUIPMENT BLANK	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453631-06	MW11_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453631-07	MW15_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453631-08	MW07_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453631-09	MW19_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453871-04	MW-4	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453871-05	MW-4D	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453871-06	MW-4DD	S	A2-NJ-14DIOXSIM-PPB	WATER	DACQ	U	0925	0926	S0	Amber-A.25
L2453871-18	FB20240918	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453958-02	EFFLUENT	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0926	1003	S0	Amber-A.25
L2453986-02	MW04_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453986-03	MW03_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453986-04	MW03_20240918_FD_WQ	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453986-05	MW18_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453986-06	MW10_20240918_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0925	0926	S0	Amber-A.25
L2453986-07	MW17_20240919_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453986-08	MW14_20240919_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453986-09	MW13_20240919_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453986-10	MW16D_20240919_N_WG	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453990-01	W-39-11-091924	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0926	0926	S0	Amber-A.25
L2453990-02	W-40-13-091924	S	A2-14-DIOXANESIM-PPB	WATER	RLBK	U	0926	0926	S0	Amber-A.25
WG1974393-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974393-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974393-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974396-1	Laboratory Method Bl	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1974396-2	Laboratory Control S	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1974396-3	LCS Duplicate	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1974399-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974399-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974399-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974401-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974401-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974401-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974401-4	Matrix Spike	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974401-5	Matrix Spike Duplica	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975198-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975198-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975198-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975202-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975202-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975202-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975202-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975202-5	Duplicate Sample	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975203-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975203-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 11:27 am

Work Group: WG1976601 for Department: 32 GC/MS - Semivolatiles

Created: 26-SEP-24 Due: Operator: GRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1975203-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1975205-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975205-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975205-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1975206-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975206-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1975206-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-1	MS DFTPP Tune Standa	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-10	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-10	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-10	Continuing Calibrati	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-10	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-2	Continuing Calibrati	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-3	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-3	MS DFTPP Tune Standa	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-3	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-3	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-4	Continuing Calibrati	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-4	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-4	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-4	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-5	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-5	MS DFTPP Tune Standa	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-5	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-5	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-6	Continuing Calibrati	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-6	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-6	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-6	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-7	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-7	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-7	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-7	MS DFTPP Tune Standa	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-8	Continuing Calibrati	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-8	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-8	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976601-8	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-9	MS DFTPP Tune Standa	S	A2-MCP14DXSIM-PPB-21	WATER	DONE	U				
WG1976601-9	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976601-9	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976601-9	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				

Comments:

WG1974393-3	WG1974393-2
WG1974396-3	WG1974396-2
WG1974399-3	WG1974399-2
WG1974401-3	WG1974401-2
WG1974401-4	L2453342-06
WG1974401-5	L2453342-06
WG1975198-3	WG1975198-2
WG1975202-3	WG1975202-2
WG1975202-4	L2453631-06
WG1975202-5	L2453631-07
WG1975203-3	WG1975203-2
WG1975205-3	WG1975205-2

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1975206-3	WG1975206-2									

Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: O:\Organics\DATA\PAH5\2024\JUL\JUL17A\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F507172401.D	DFTPPPAH5.M	T507172401	WG1948411,MSBU36	7/17/2024 3:18 pm
2	F507172402.D	14DIOXANEPAH	I507172401	WG1948411,MSBT54	7/17/2024 3:53 pm
3	F507172403.D	14DIOXANEPAH	I507172402	WG1948411,MSBT55	7/17/2024 4:24 pm
4	F507172404.D	14DIOXANEPAH	I507172403	WG1948411,MSBU56	7/17/2024 4:46 pm
5	F507172405.D	14DIOXANEPAH	I507172404	WG1948411,MSBU57	7/17/2024 5:07 pm
6	F507172406.D	14DIOXANEPAH	I507172405	WG1948411,MSBU37	7/17/2024 5:29 pm
7	F507172407.D	14DIOXANEPAH	I507172406	WG1948411,MSBT59	7/17/2024 5:50 pm
8	F507172408.D	14DIOXANEPAH	I507172407	WG1948411,MSBT53	7/17/2024 6:11 pm
9	F507172409.D	14DIOXANEPAH	CQ507172401	WG1948411,MSBU02	7/17/2024 6:33 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 58
Log Generated From Directory: S:\Organics\DATA\PAH5\2024\SEP\SEP27\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F509272401.D	DFTPPPAH5.M	WG1976601-1	WG1976601,,ICAL21302,MS..	9/27/2024 7:45 am
2	F509272402.D	14DIOXANEPAH	WG1976601-2	WG1976601,,ICAL21302,MS..	9/27/2024 8:31 am
3	F509272403.D	14DIOXANEPAH	WG1974393-1,32	WG1976601,WG1974393,ICA..	9/27/2024 9:06 am
4	F509272404.D	14DIOXANEPAH	WG1974393-2,32	WG1976601,WG1974393,ICA..	9/27/2024 9:33 am
5	F509272405.D	14DIOXANEPAH	WG1974393-3,32	WG1976601,WG1974393,ICA..	9/27/2024 10:02 am
6	F509272406.D	14DIOXANEPAH	L2453182-01,32	WG1976601,WG1974401,ICA..	9/27/2024 10:32 am
7	F509272407.D	14DIOXANEPAH	L2453182-02,32	WG1976601,WG1974401,ICA..	9/27/2024 11:01 am
8	F509272408.D	14DIOXANEPAH	L2453182-08,32	WG1976601,WG1974401,ICA..	9/27/2024 11:32 am
9	F509272409.D	14DIOXANEPAH	L2453182-09,32	WG1976601,WG1974401,ICA..	9/27/2024 12:01 pm
10	F509272410.D	14DIOXANEPAH	L2453182-10,32	WG1976601,WG1974401,ICA..	9/27/2024 12:32 pm
11	F509272411.D	14DIOXANEPAH	L2453182-11,32	WG1976601,WG1974401,ICA..	9/27/2024 1:03 pm
12	F509272412.D	14DIOXANEPAH	L2453342-06,32	WG1976601,WG1974401,ICA..	9/27/2024 1:33 pm
13	F509272413.D	14DIOXANEPAH	WG1974401-4,32	WG1976601,WG1974401,ICA..	9/27/2024 3:47 pm
14	F509272414.D	14DIOXANEPAH	WG1974401-5,32	WG1976601,WG1974401,ICA..	9/27/2024 4:16 pm
15	F509272415.D	14DIOXANEPAH	L2453342-08,32	WG1976601,WG1974401,ICA..	9/27/2024 4:46 pm
16	F509272417.D	DFTPPPAH5.M	WG1976601-3	WG1976601,,ICAL21302,MS..	9/28/2024 7:56 am
17	F509272418.D	14DIOXANEPAH	WG1976601-4	WG1976601,,ICAL21302,MS..	9/28/2024 8:41 am
18	F509272419.D	14DIOXANEPAH	L2453342-09	WG1976601,WG1974401,ICA..	9/28/2024 9:09 am
19	F509272420.D	14DIOXANEPAH	L2453342-10	WG1976601,WG1974401,ICA..	9/28/2024 9:36 am
20	F509272421.D	14DIOXANEPAH	L2453084-16	WG1976601,WG1974396,ICA..	9/28/2024 10:03 am
21	F509272422.D	14DIOXANEPAH	L2453129-01	WG1976601,WG1974393,ICA..	9/28/2024 10:30 am
22	F509272423.D	14DIOXANEPAH	L2453129-02	WG1976601,WG1974393,ICA..	9/28/2024 10:57 am
23	F509272424.D	14DIOXANEPAH	l2453129-03	IS INTERFERENCE, SEE 5X..	9/28/2024 11:25 am
24	F509272425.D	14DIOXANEPAH	L2453129-04	WG1976601,WG1974393,ICA..	9/28/2024 11:53 am
25	F509272426.D	14DIOXANEPAH	L2453129-06	IS INTERFERENCE, SEE 5X..	9/28/2024 12:22 pm
26	F509272427.D	14DIOXANEPAH	L2453129-07	WG1976601,WG1974393,ICA..	9/28/2024 12:51 pm
27	F509272428.D	14DIOXANEPAH	L2453257-01	OVERCAL, SEE 10X DL	9/28/2024 1:20 pm
28	F509272429.D	DFTPPPAH5.M	WG1976601-5	WG1976601,,ICAL21302,MS..	9/28/2024 1:41 pm
29	F509272430.D	14DIOXANEPAH	WG1976601-6	WG1976601,,ICAL21302,MS..	9/28/2024 2:31 pm
30	F509272431.D	14DIOXANEPAH	wg1975198-1	WG1976601,WG1975198,ICA..	9/28/2024 3:00 pm
31	F509272432.D	14DIOXANEPAH	wg1975198-2	WG1976601,WG1975198,ICA..	9/28/2024 3:29 pm
32	F509272433.D	14DIOXANEPAH	wg1975198-3	WG1976601,WG1975198,ICA..	9/28/2024 3:57 pm
33	F509272434.D	14DIOXANEPAH	L2453986-02	WG1976601,WG1975198,ICA..	9/28/2024 4:25 pm
34	F509272435.D	14DIOXANEPAH	L2453986-03	WG1976601,WG1975198,ICA..	9/28/2024 4:54 pm
35	F509272436.D	14DIOXANEPAH	L2453986-04	WG1976601,WG1975198,ICA..	9/28/2024 5:21 pm
36	F509272437.D	14DIOXANEPAH	L2453986-05	WG1976601,WG1975198,ICA..	9/28/2024 5:49 pm
37	F509272438.D	14DIOXANEPAH	L2453986-06	WG1976601,WG1975198,ICA..	9/28/2024 6:16 pm
38	F509272439.D	14DIOXANEPAH	L2453986-07	WG1976601,WG1975198,ICA..	9/28/2024 6:43 pm
39	F509272440.D	14DIOXANEPAH	L2453986-08	WG1976601,WG1975198,ICA..	9/28/2024 7:09 pm
40	F509272441.D	14DIOXANEPAH	L2453986-09	WG1976601,WG1975198,ICA..	9/28/2024 7:36 pm
41	F509272442.D	14DIOXANEPAH	L2453986-10	WG1976601,WG1975198,ICA..	9/28/2024 8:02 pm
42	F509272443.D	14DIOXANEPAH	L2453631-06	WG1976601,WG1975202,ICA..	9/28/2024 8:29 pm
43	F509272444.D	14DIOXANEPAH	wg1975202-4	WG1976601,WG1975202,ICA..	9/28/2024 8:55 pm
44	F509272445.D	14DIOXANEPAH	L2453631-07	WG1976601,WG1975202,ICA..	9/28/2024 9:22 pm
45	F509272446.D	14DIOXANEPAH	wg1975202-5	WG1976601,WG1975202,ICA..	9/28/2024 9:49 pm
46	F509272447.D	14DIOXANEPAH	L2453631-08	WG1976601,WG1975202,ICA..	9/28/2024 10:16 pm
47	F509272448.D	DFTPPPAH5.M	WG1976601-7	WG1976601,,ICAL21302,MS..	9/28/2024 10:37 pm
48	F509272449.D	14DIOXANEPAH	WG1976601-8	WG1976601,,ICAL21302,MS..	9/28/2024 11:21 pm
49	F509272450.D	14DIOXANEPAH	L2453631-09	WG1976601,WG1975202,ICA..	9/28/2024 11:48 pm
50	F509272451.D	14DIOXANEPAH	L2453990-01	WG1976601,WG1975203,ICA..	9/29/2024 12:14 am
51	F509272452.D	14DIOXANEPAH	L2453990-02	IS INTERFERENCE SEE 5X ..	9/29/2024 12:40 am
52	F509272453.D	14DIOXANEPAH	L2453871-04	WG1976601,WG1975205,ICA..	9/29/2024 1:08 am
53	F509272454.D	14DIOXANEPAH	L2453871-05	WG1976601,WG1975205,ICA..	9/29/2024 1:36 am
54	F509272455.D	14DIOXANEPAH	L2453871-06	OVERCAL, SEE 2X DL	9/29/2024 2:02 am
55	F509272456.D	14DIOXANEPAH	L2453871-18	WG1976601,WG1975205,ICA..	9/29/2024 2:30 am
56	F509272457.D	14DIOXANEPAH	L2453958-02	WG1976601,WG1975206,ICA..	9/29/2024 2:57 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 58
Log Generated From Directory: S:\Organics\DATA\PAH5\2024\SEP\SEP27\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
57	F509272458.D	DFTPPPAH5.M	WG1976601-9	WG1976601,,ICAL21302,MS..	9/29/2024 3:18 am
58	F509272459.D	14DIOXANEPAH	WG1976601-10	WG1976601,,ICAL21302,MS..	9/29/2024 4:05 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1974401

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EF852-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBU58
Spike Type: 1,4-DIOXANE **Lot #:** MSBU59
Spike Verify by: EKC
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Glass Wool	16022999
Na2SO4	ON091324E

Conc.Method: S-EVAP/N-EVAP
Solvent Type: DCM
Lot #: EF852-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453182-01 SAMP	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453182-02 SAMP	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453182-08 SAMP	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453182-09 SAMP	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453182-10 SAMP	09/20/24 18:30	Nathan April	230	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453182-11 SAMP	09/20/24 18:30	Nathan April	260	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453342-06 SAMP	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10

Reported: 30-SEP-24 11:27 AM

ORGANIC ELN REPORT

Workgroup: WG1974401

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453342-08 SAMP	09/20/24 18:30	Nathan April	260	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453342-09 SAMP	09/20/24 18:30	Nathan April	260	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
L2453342-10 SAMP	09/20/24 18:30	Nathan April	230	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
WG1974401-1 BLANK	09/20/24 18:30	Nathan April	250	7	0.25		09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
	SHARES QCS WITH WG1974399, WG1974393, AND WG1974396									
WG1974401-2 LCS	09/20/24 18:30	Nathan April	250	7	0.25	0.25	09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
WG1974401-3 LCSD	09/20/24 18:30	Nathan April	250	7	0.25	0.25	09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
WG1974401-4 MS	09/20/24 18:30	Nathan April	250	7	0.25	0.25	09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10
WG1974401-5 MSD	09/20/24 18:30	Nathan April	250	7	0.25	0.25	09/20/24 21:45	Emma Canning	2.5	SEVAP 3/NEV AP 10

Reported: 30-SEP-24 11:27 AM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MP-1 (L2453342-01)	93	89	--	--			0
MP-1D (L2453342-02)	86	84	--	--			0
MW-13D (L2453342-03)	86	82	--	--			0
MW-13S (L2453342-04)	81	78	--	--			0
MW-10D (L2453342-05)	80	78	--	--			0
MW-10S (L2453342-06)	87	84	--	--			0
MW-6D (L2453342-07)	92	87	--	--			0
PZ-6 (L2453342-08)	94	89	--	--			0
EQUIPMENT BLANK (L2453342-10)	95	90	--	--			0
WG1975468-1BLANK	91	86	--	--			0
WG1975468-2LCS	92	102	--	--			0
WG1975468-3LCSD	88	98	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975468-2 **Analysis Date** : 09/25/24 08:11	**File ID**	: 16240925a-05
LCSD Sample ID	: WG1975468-3 **Analysis Date** : 09/25/24 08:30	**File ID**	: 16240925a-06

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	578	116	500	540	108	7	30-150	25
MCPA	500	538	108	500	504	101	7	30-150	25
Dalapon	5	3.78	76	5	4.19	84	10	30-150	25
Dicamba	5	5.14	103	5	4.89	98	5	30-150	25
Dichloroprop	5	5.46	109	5	5.41	108	1	30-150	25
2,4-D	5	5.45	109	5	5.31	106	3	30-150	25
2,4-DB	5	5.61	112	5	5.60	112	0	30-150	25
2,4,5-T	5	5.30	106	5	5.07	101	5	30-150	25
2,4,5-TP (Silvex)	5	5.14	103	5	4.84	97	6	30-150	25
Dinoseb	5	3.29	66	5	3.34	67	2	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975468-1	**Lab File ID**	: 16240925a-04
Matrix	: WATER	**Extraction Date**	: 09/24/24
Analysis Date (1)	: 09/25/24 07:44	**Analysis Date (2)**	: 09/25/24 07:44
Instrument ID (1)	: PEST16	**Instrument ID (2)**	: PEST16

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1975468-2LCS	WG1975468-2	09/25/24 08:11	09/25/24 08:11
WG1975468-3LCSD	WG1975468-3	09/25/24 08:30	09/25/24 08:30
MW-10S	L2453342-06	09/25/24 14:03	09/25/24 14:03
MW-6D	L2453342-07	09/25/24 14:42	09/25/24 14:42
PZ-6	L2453342-08	09/25/24 15:02	09/25/24 15:02
EQUIPMENT BLANK	L2453342-10	09/25/24 15:21	09/25/24 15:21
MP-1	L2453342-01	09/25/24 16:59	09/25/24 16:59
MP-1D	L2453342-02	09/25/24 17:19	09/25/24 17:19
MW-13D	L2453342-03	09/25/24 17:38	09/25/24 17:38
MW-13S	L2453342-04	09/25/24 17:58	09/25/24 17:58
MW-10D	L2453342-05	09/25/24 18:17	09/25/24 18:17

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST16	**Initial Calib. Date(s)**	: 08/29/24 08/29/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1871806-1	08/29/24 12:47
Herbicides L2	R1871806-2	08/29/24 13:07
Herbicides L3	R1871806-3	08/29/24 13:26
Herbicides L4	R1871806-4	08/29/24 13:46
Herbicides L5	R1871806-5	08/29/24 14:05
Herbicides L6	R1871806-6	08/29/24 14:25
R1871806-7 ICV	R1871806-7	08/29/24 14:45
WG1975970-1 CCAL	WG1975970-1	09/25/24 06:36
WG1975468-1 BLANK	WG1975468-1	09/25/24 07:44
WG1975468-2 LCS	WG1975468-2	09/25/24 08:11
WG1975468-3 LCSD	WG1975468-3	09/25/24 08:30
MW-10S	L2453342-06	09/25/24 14:03
WG1975970-2 CCAL	WG1975970-2	09/25/24 14:23
MW-6D	L2453342-07	09/25/24 14:42
PZ-6	L2453342-08	09/25/24 15:02
EQUIPMENT BLANK	L2453342-10	09/25/24 15:21
MP-1	L2453342-01	09/25/24 16:59
MP-1D	L2453342-02	09/25/24 17:19
MW-13D	L2453342-03	09/25/24 17:38
MW-13S	L2453342-04	09/25/24 17:58
MW-10D	L2453342-05	09/25/24 18:17

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:59
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-32	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 17:19
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-33	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-34	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 17:58
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-35	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 18:17
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-36	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 14:03
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-23	**Analyst**	: EMR
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 14:42
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-25	**Analyst**	: EMR
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 15:02
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-26	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 15:21
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-27	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975468-1	**Date Collected**	: NA
Client ID	: WG1975468-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 07:44
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-04	**Analyst**	: EMR
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:03
Operator : pest16:emr
Sample : L2453342-06,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:05:10 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.370	1083.0E6	1284.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1066579449				Recovery = 101.54%		
	Standard Area 1 : #2 = 1286988911				Recovery = 99.78%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.277	354.9E6	413.2E6	0.437M4	0.422M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	87.40%	84.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

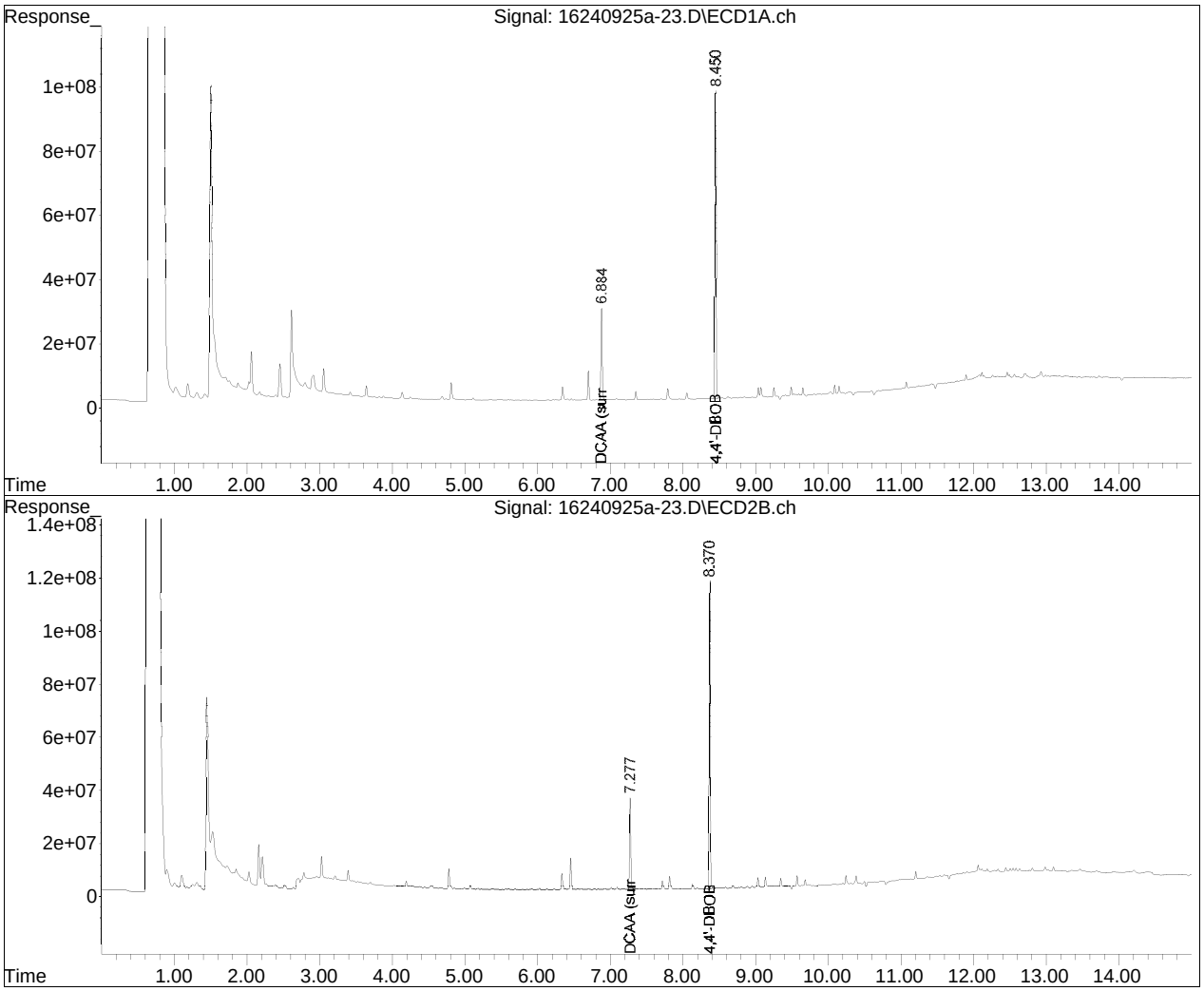
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:03
Operator : pest16:emr
Sample : L2453342-06,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:05:10 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

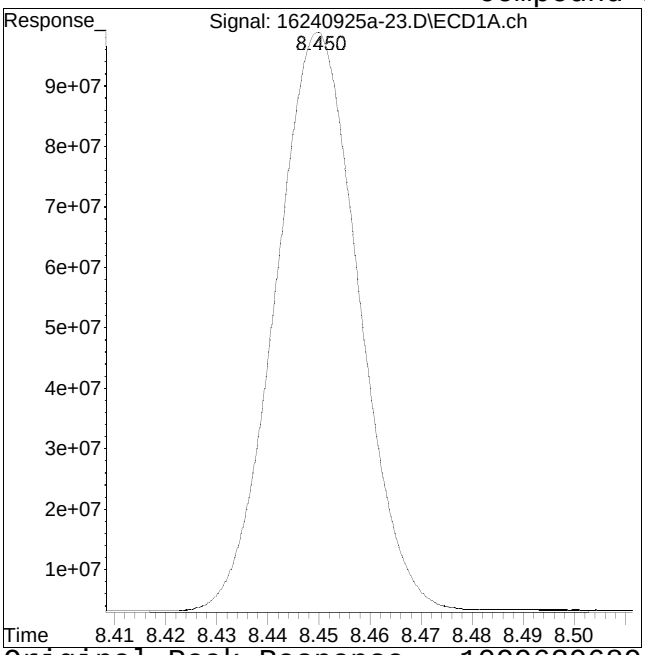
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

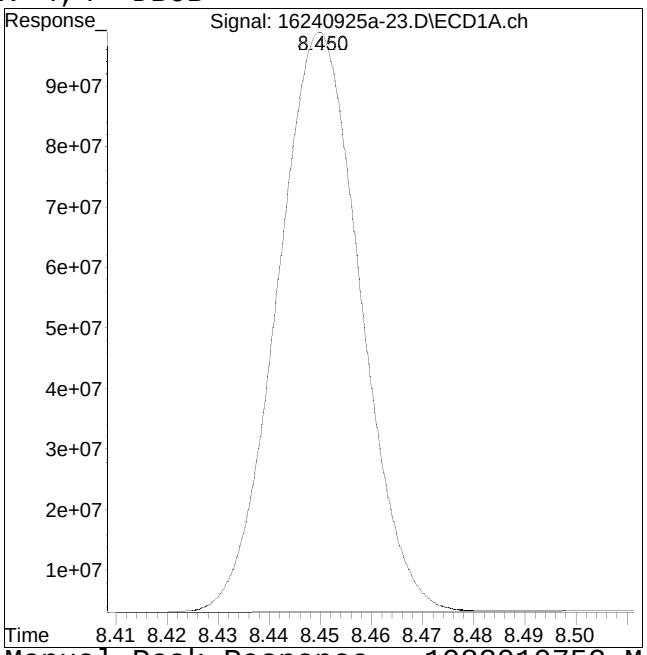


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-23.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:03 Instrument : PEST16
Sample : L2453342-06,42,, Quant Date : 9/25/2024 3:05 pm

Compound #1: 4,4'-DBOB



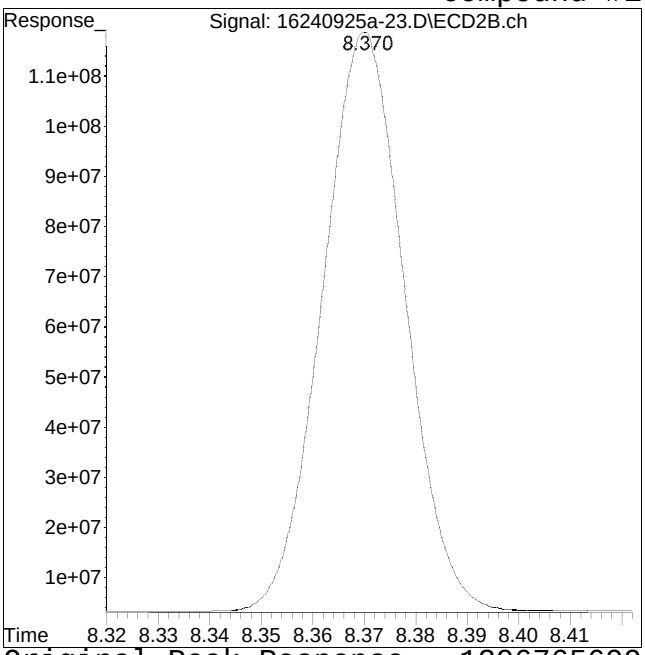


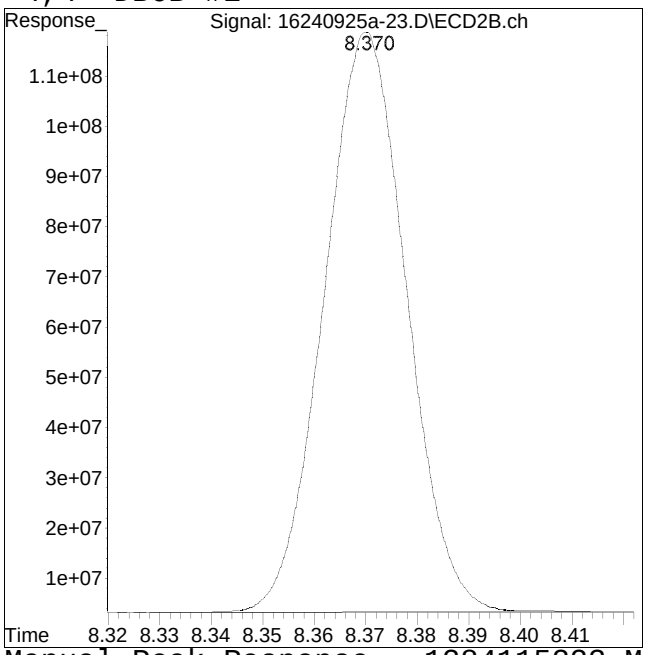
Original Peak Response = 1099639689 Manual Peak Response = 1083010752 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-23.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:03 Instrument : PEST16
Sample : L2453342-06,42,, Quant Date : 9/25/2024 3:05 pm

Compound #14: 4,4'-DBOB #2



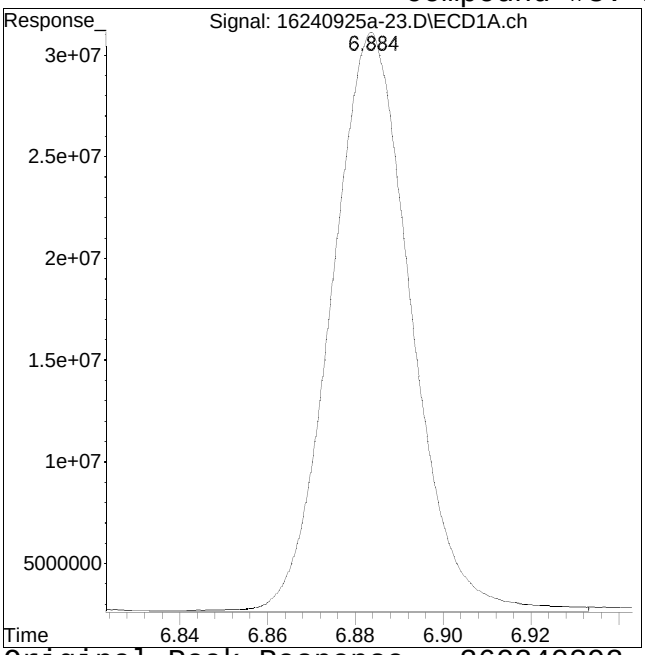


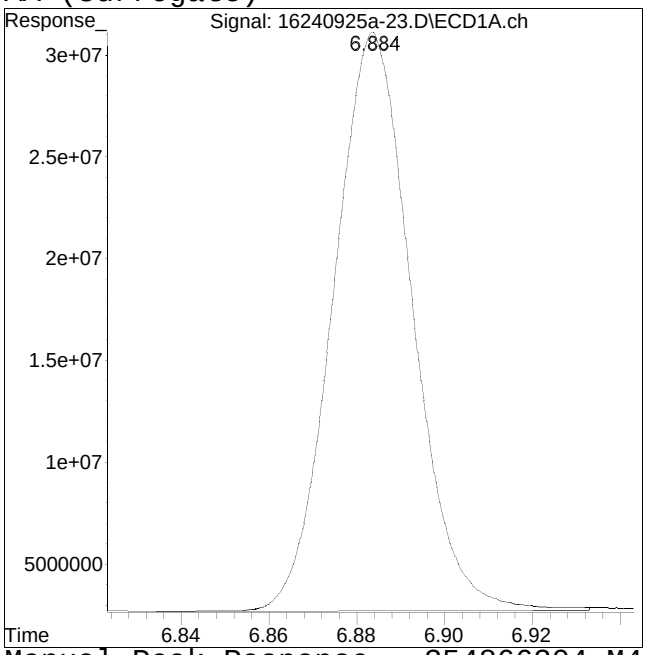
Original Peak Response = 1296765699 Manual Peak Response = 1284115223 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-23.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:03 Instrument : PEST16
Sample : L2453342-06,42,, Quant Date : 9/25/2024 3:05 pm

Compound #3: DCAA (surrogate)



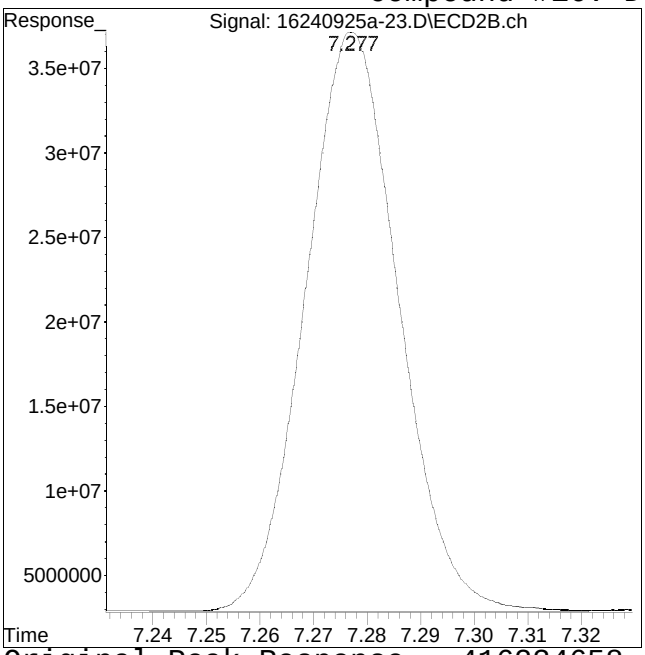


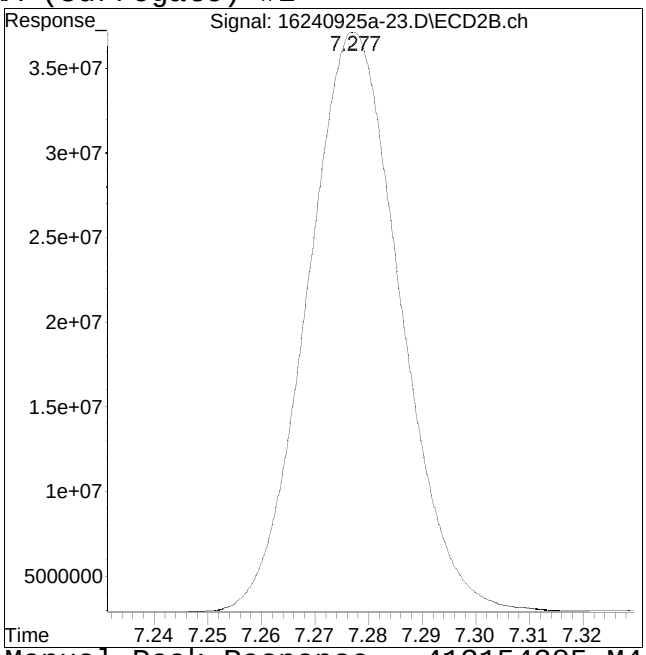
Original Peak Response = 360240392 Manual Peak Response = 354866304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-23.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:03 Instrument : PEST16
Sample : L2453342-06,42,, Quant Date : 9/25/2024 3:05 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 416234658 Manual Peak Response = 413154385 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:42
Operator : pest16:emr
Sample : L2453342-07,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:07:24 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.370	1045.3E6	1254.5E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery =	92.40%	
	Standard Area 1 : #2 = 1328171688				Recovery =	94.45%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.278	359.9E6	417.5E6	0.459M4	0.436
	Spiked Amount	0.500	Range 30 - 150		Recovery =	91.80%	87.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

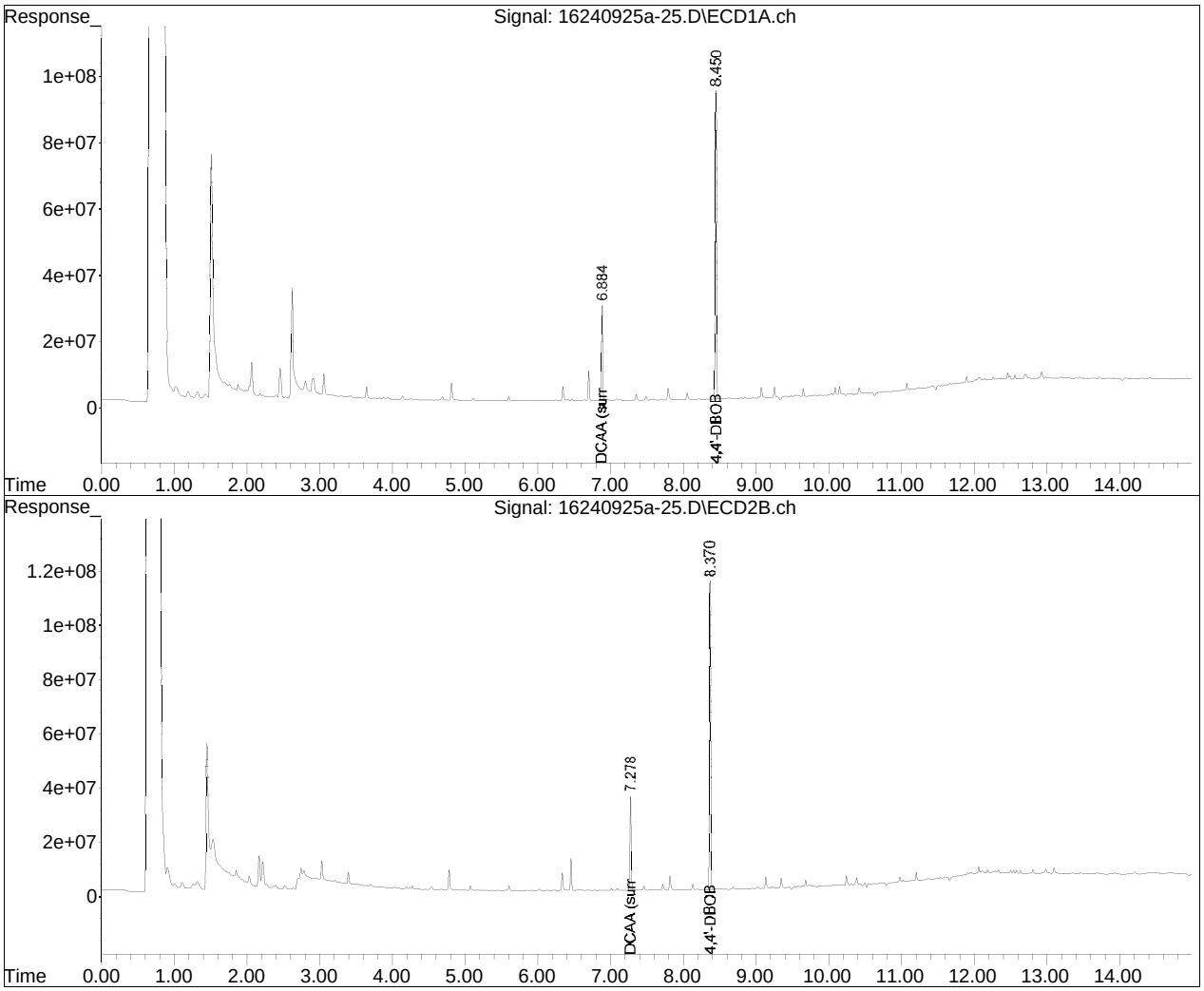
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:42
Operator : pest16:emr
Sample : L2453342-07,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:07:24 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

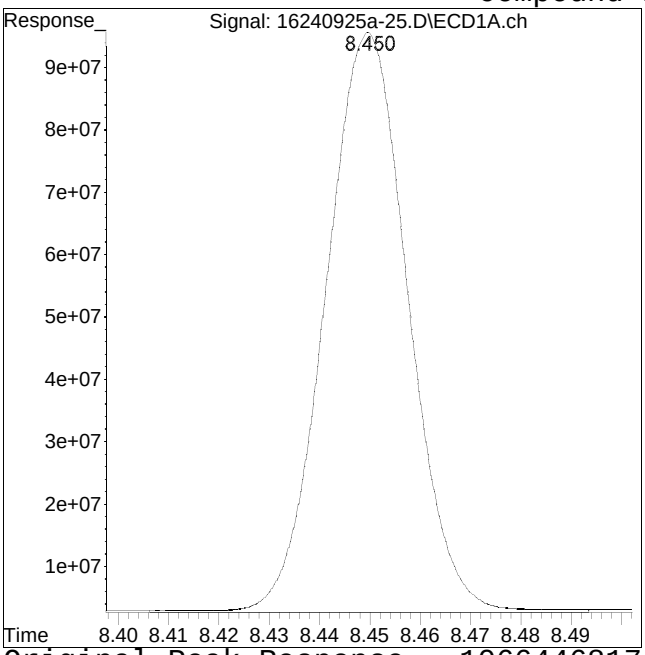
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

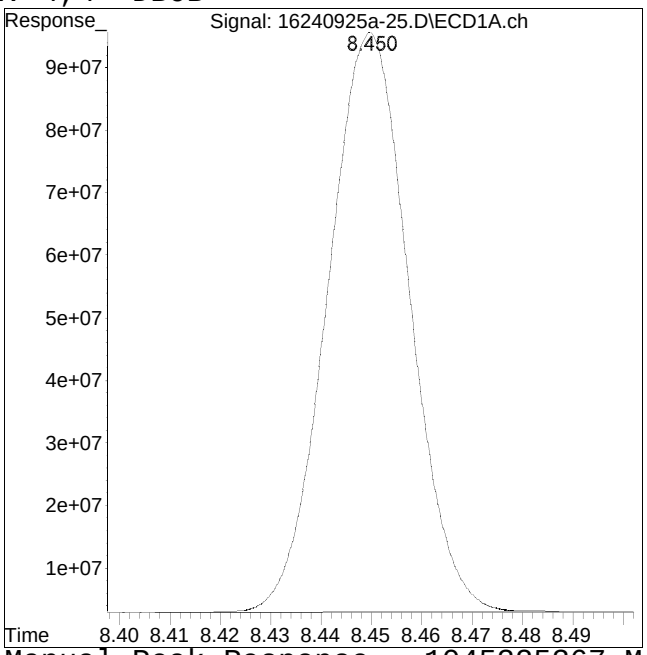


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-25.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:42 Instrument : PEST16
Sample : L2453342-07,42,, Quant Date : 9/25/2024 3:07 pm

Compound #1: 4,4'-DBOB



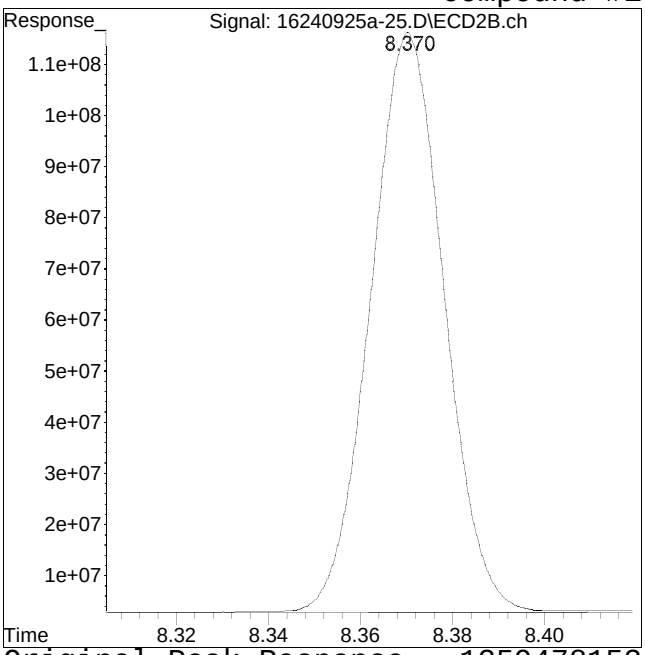


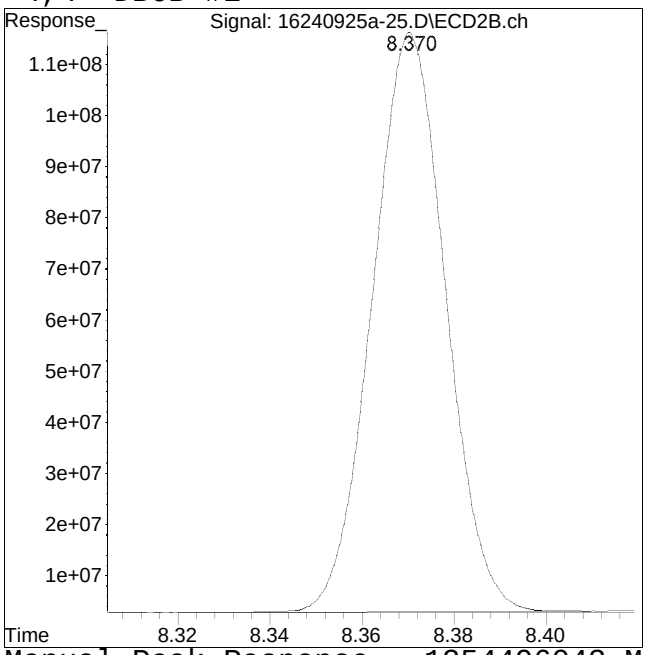
Original Peak Response = 1066446817 Manual Peak Response = 1045325367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-25.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:42 Instrument : PEST16
Sample : L2453342-07,42,, Quant Date : 9/25/2024 3:07 pm

Compound #14: 4,4'-DBOB #2



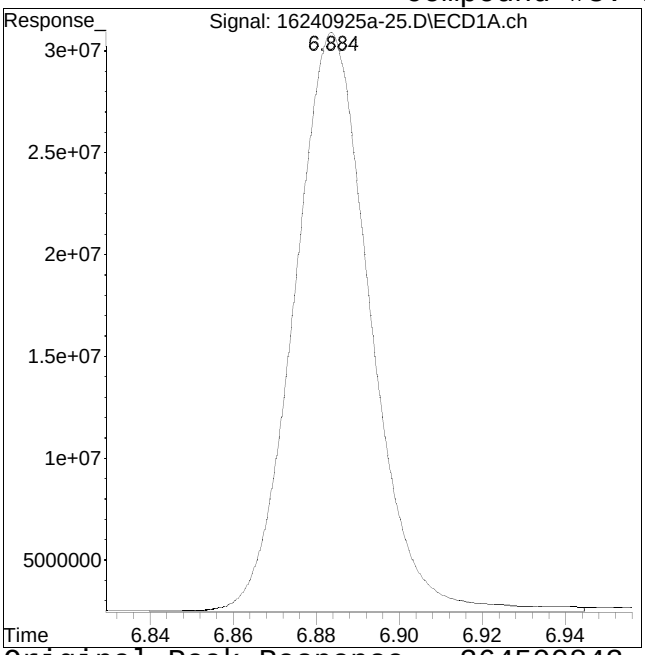


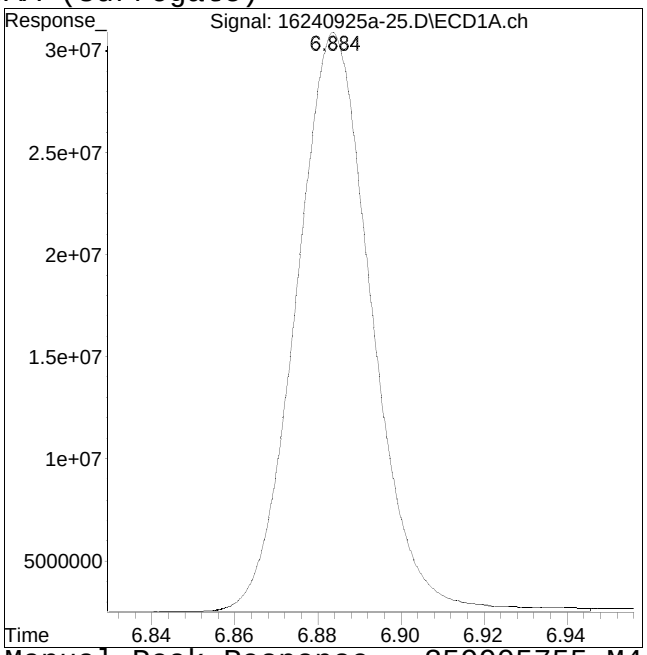
Original Peak Response = 1259478153 Manual Peak Response = 1254496043 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-25.D Operator : pest16:emr
Date Inj'd : 9/25/2024 14:42 Instrument : PEST16
Sample : L2453342-07,42,, Quant Date : 9/25/2024 3:07 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 364500843 Manual Peak Response = 359905755 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 15:02
Operator : pest16:akm
Sample : L2453342-08,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:40:52 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.450	8.370	1077.9E6	1323.7E6	0.250M4	0.250M4
Standard Area 1 : #1 = 1131317786				Recovery =	95.28%	
Standard Area 1 : #2 = 1328171688				Recovery =	99.66%	
System Monitoring Compounds						
3) s DCAA (surrog	6.884	7.278	378.0E6	448.3E6	0.468	0.444
Spiked Amount	0.500	Range 30 - 150		Recovery =	93.60%	88.80%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

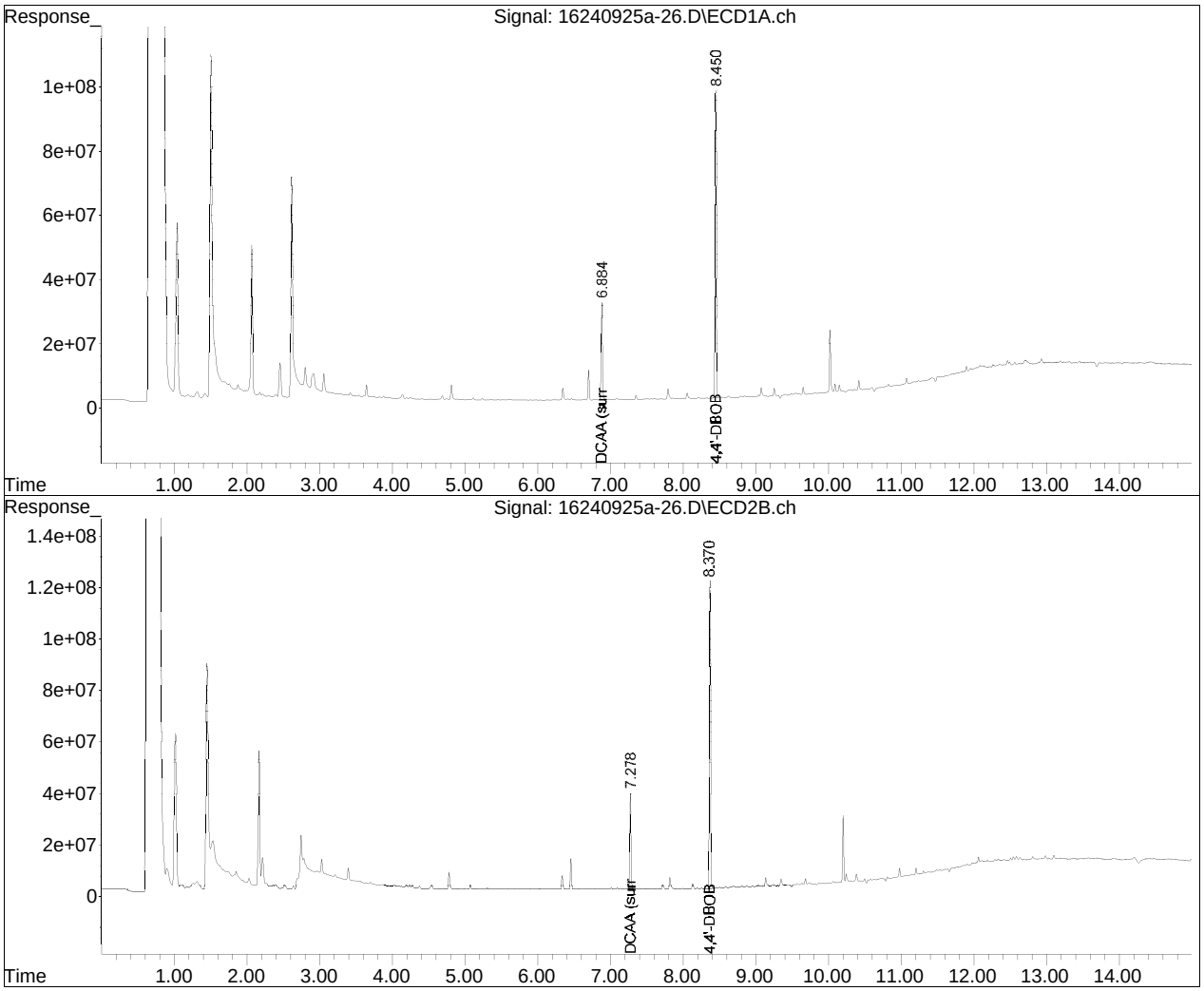
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 15:02
Operator : pest16:akm
Sample : L2453342-08,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:40:52 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

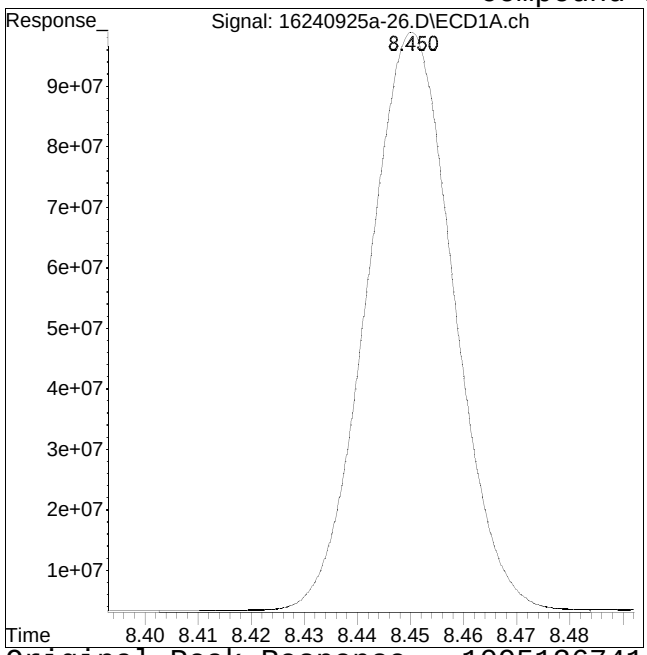
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

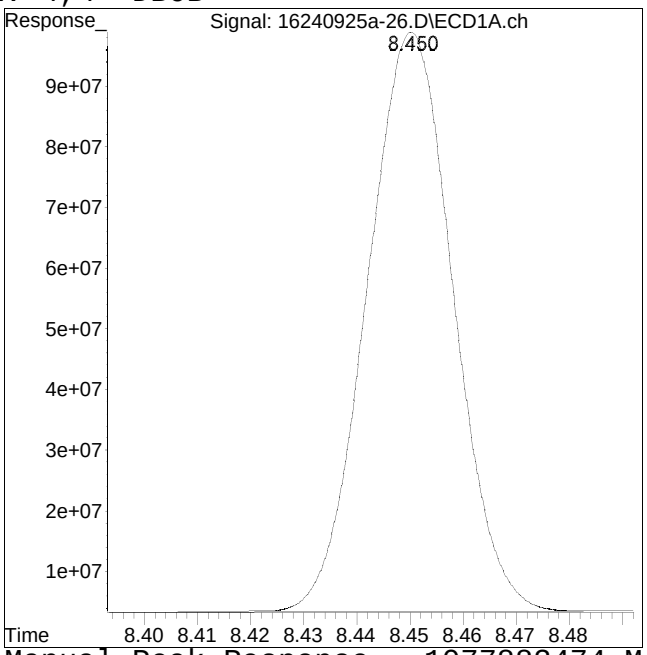


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-26.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:02 Instrument : PEST16
Sample : L2453342-08,42,, Quant Date : 9/25/2024 3:40 pm

Compound #1: 4,4'-DBOB



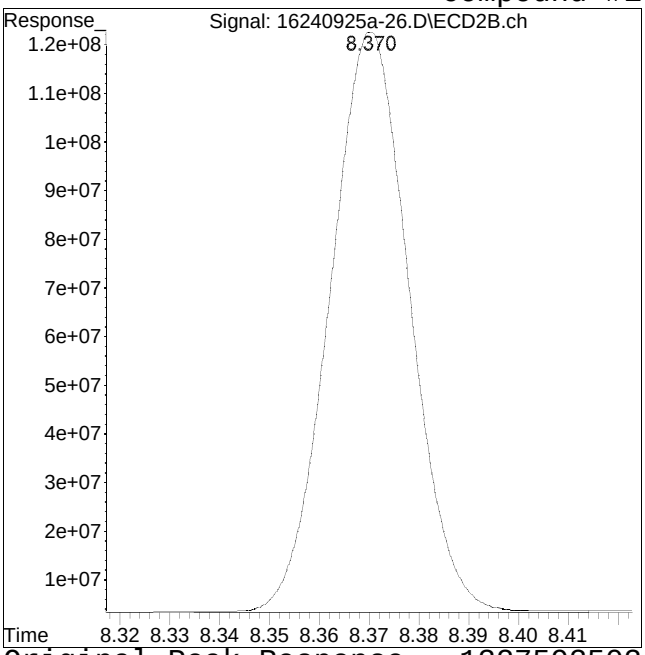


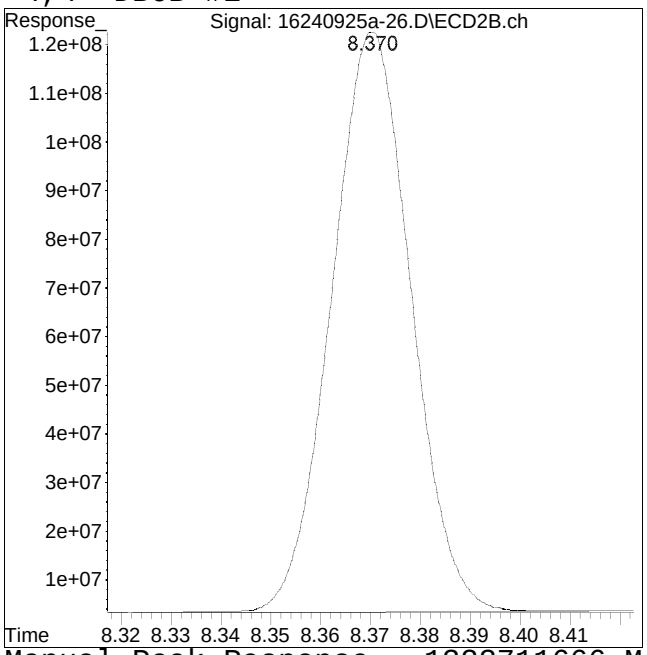
Original Peak Response = 1095136741 Manual Peak Response = 1077883474 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-26.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:02 Instrument : PEST16
Sample : L2453342-08,42,, Quant Date : 9/25/2024 3:40 pm

Compound #14: 4,4'-DBOB #2





Original Peak Response = 1327593503 Manual Peak Response = 1323711666 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 15:21
Operator : pest16:akm
Sample : L2453342-10,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:40:54 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.370	996.5E6	1207.7E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery =	88.08%	
	Standard Area 1 : #2 = 1328171688				Recovery =	90.93%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.278	354.8E6	416.6E6	0.475M4	0.452M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	95.00%	90.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

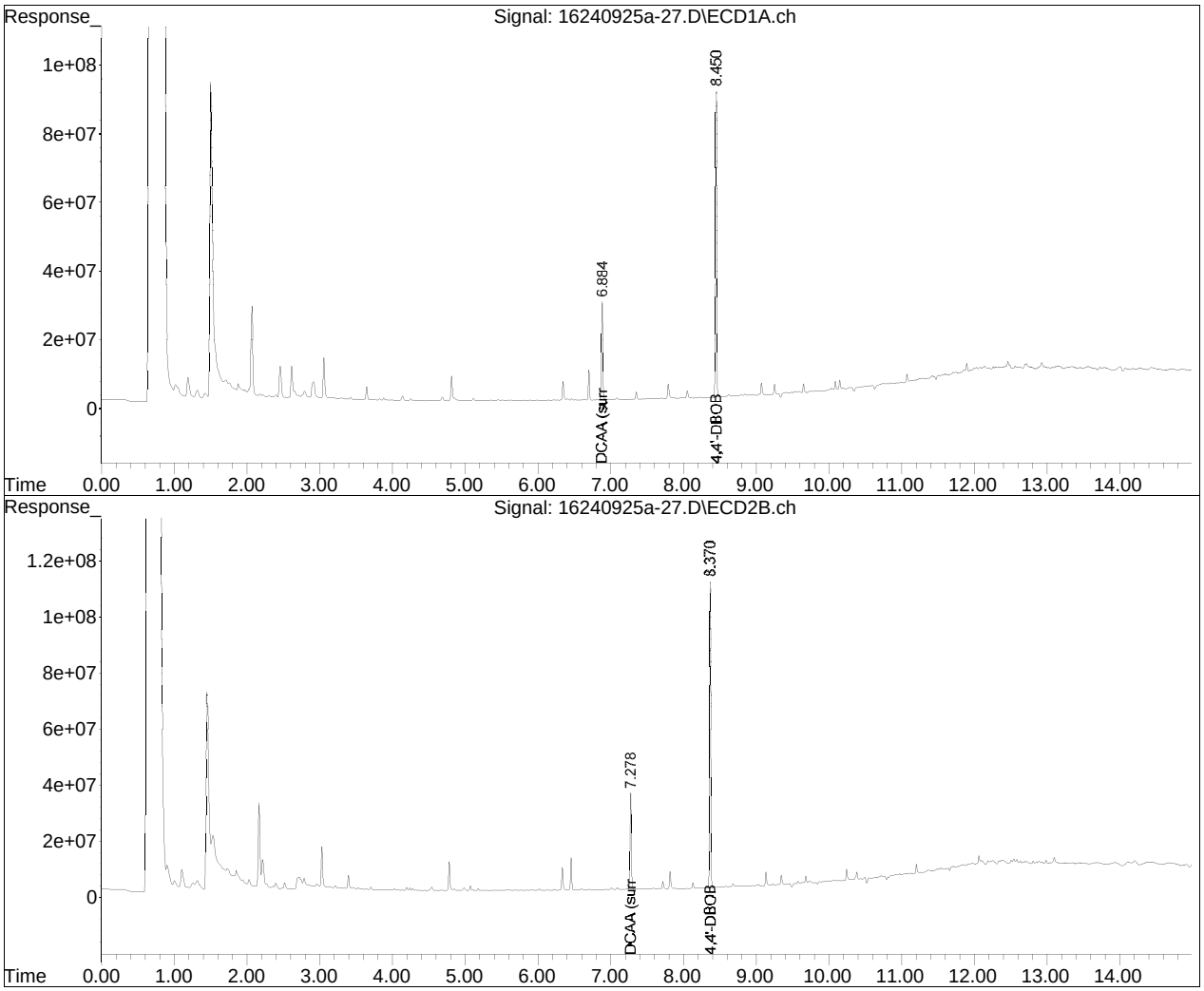
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 15:21
Operator : pest16:akm
Sample : L2453342-10,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:40:54 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

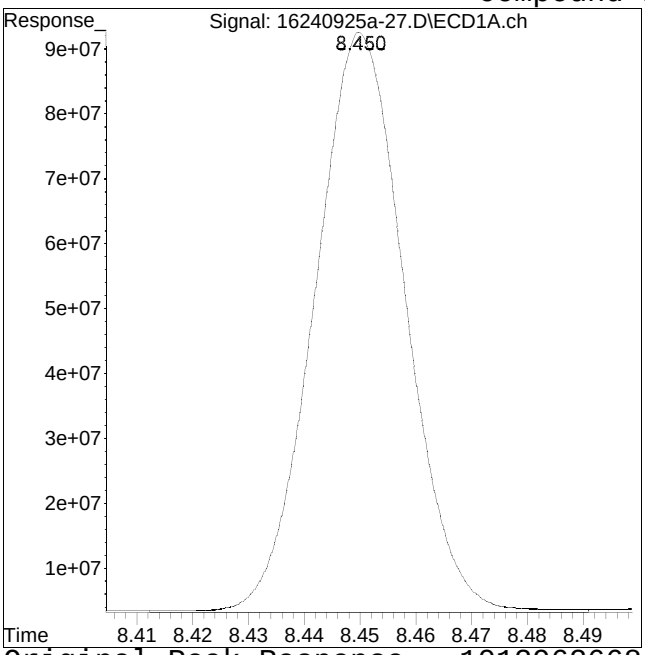
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



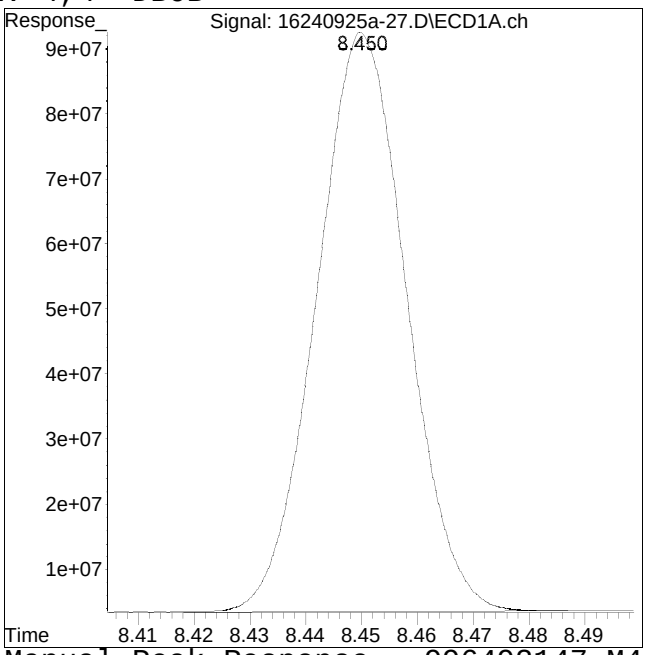
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-27.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:21 Instrument : PEST16
Sample : L2453342-10,42,, Quant Date : 9/25/2024 3:40 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 1012962668



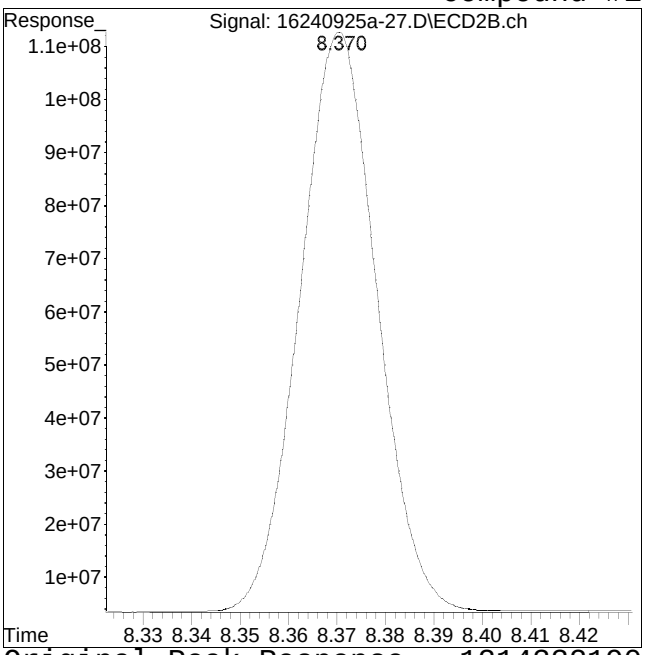
Manual Peak Response = 996492147 M4

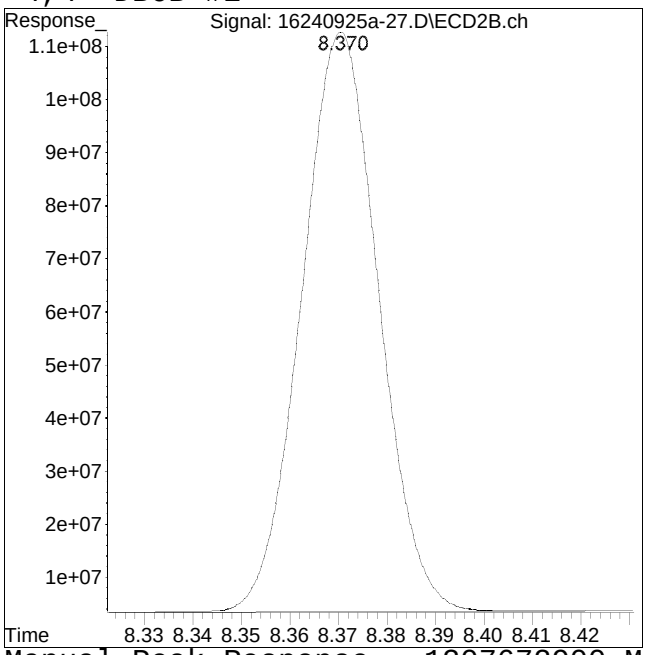
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-27.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:21 Instrument : PEST16
Sample : L2453342-10,42,, Quant Date : 9/25/2024 3:40 pm

Compound #14: 4,4'-DBOB #2



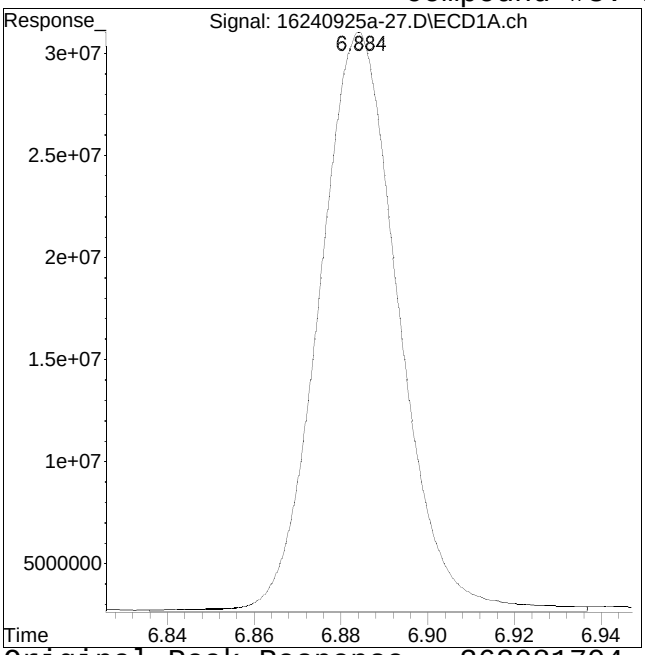


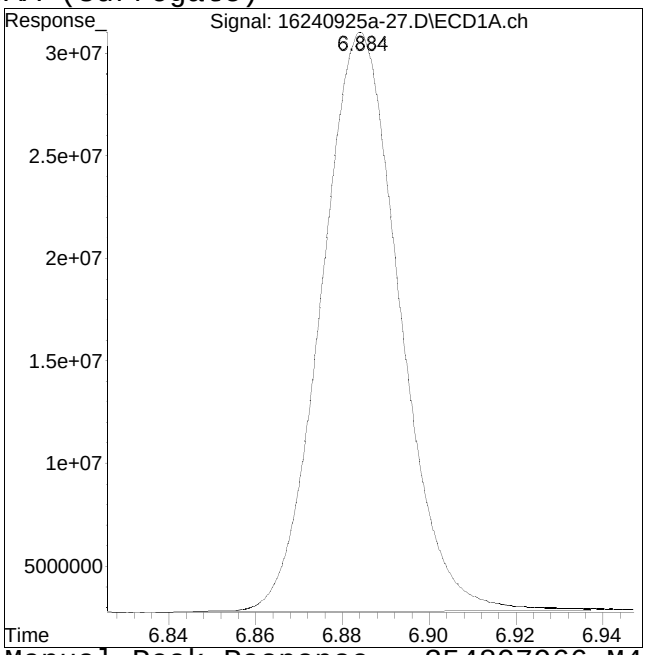
Original Peak Response = 1214332190 Manual Peak Response = 1207672900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-27.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:21 Instrument : PEST16
Sample : L2453342-10,42,, Quant Date : 9/25/2024 3:40 pm

Compound #3: DCAA (surrogate)



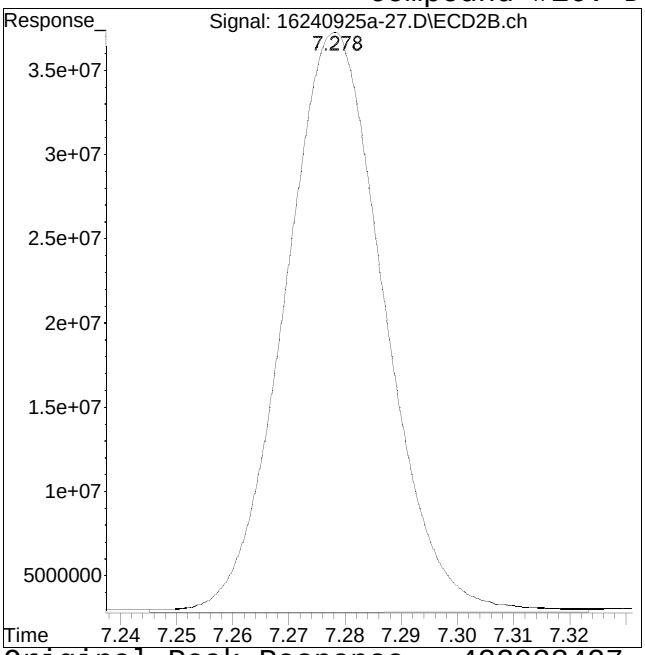


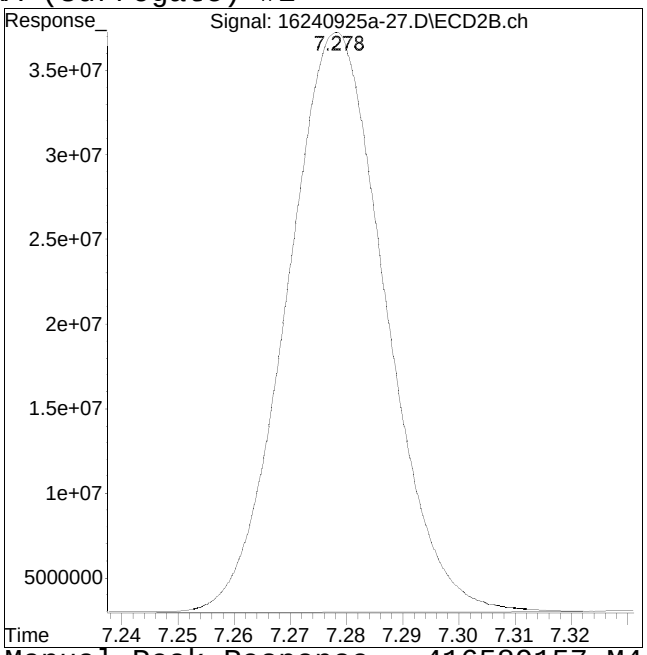
Original Peak Response = 363081704 Manual Peak Response = 354807966 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-27.D Operator : pest16:akm
Date Inj'd : 9/25/2024 15:21 Instrument : PEST16
Sample : L2453342-10,42,, Quant Date : 9/25/2024 3:40 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 422933427 Manual Peak Response = 416589157 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-32.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 16:59
Operator : pest16:jag
Sample : L2453342-01,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:00 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.371	1029.5E6	1236.2E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery =	91.00%	
	Standard Area 1 : #2 = 1328171688				Recovery =	93.07%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.278	357.5E6	419.8E6	0.463M4	0.445M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	92.60%	89.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

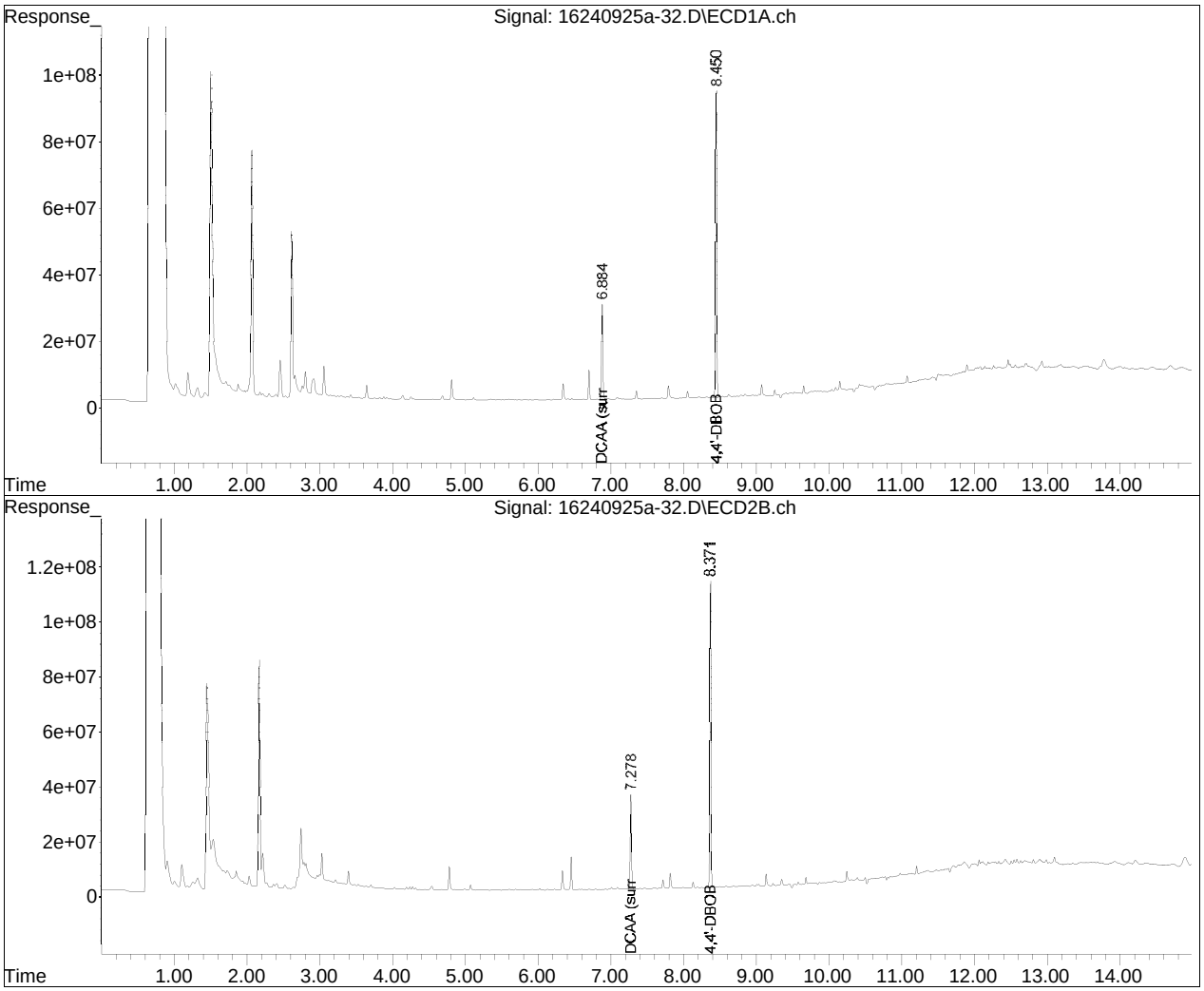
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-32.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 16:59
Operator : pest16:jag
Sample : L2453342-01,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:00 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

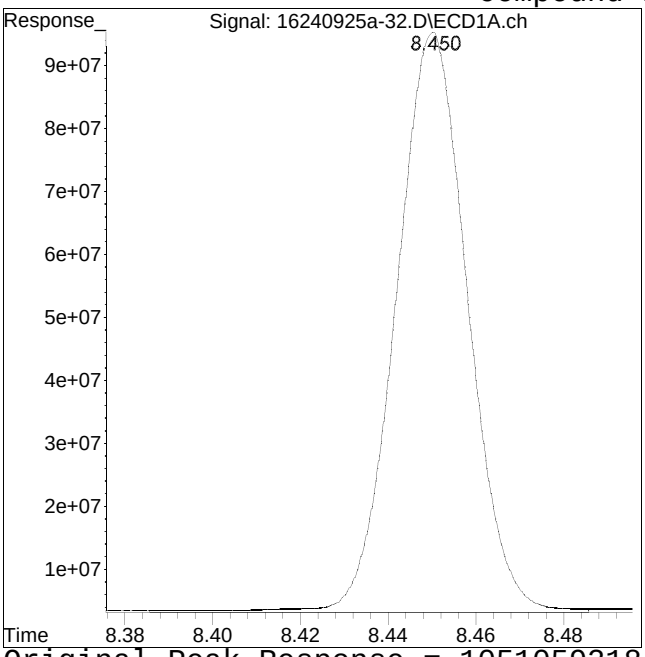
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

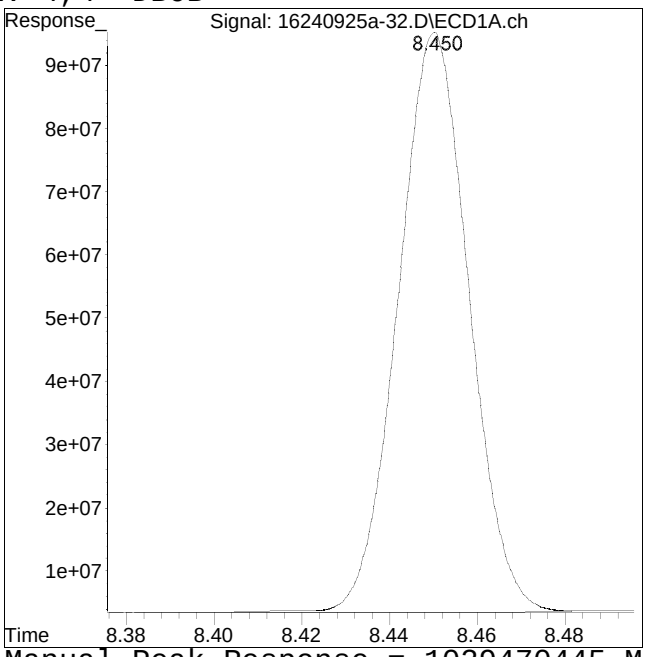


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-32.D Operator : pest16:jag
Date Inj'd : 9/25/2024 16:59 Instrument : PEST16
Sample : L2453342-01,42,, Quant Date : 9/25/2024 6:17 pm

Compound #1: 4,4'-DBOB



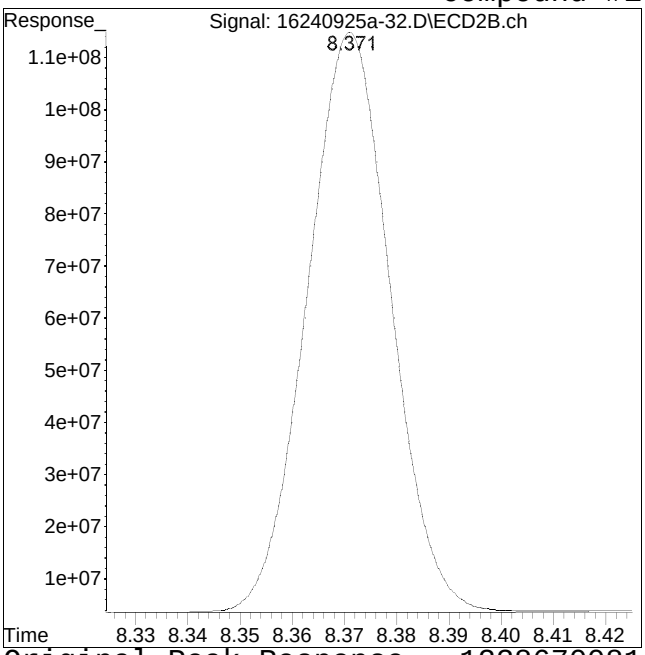


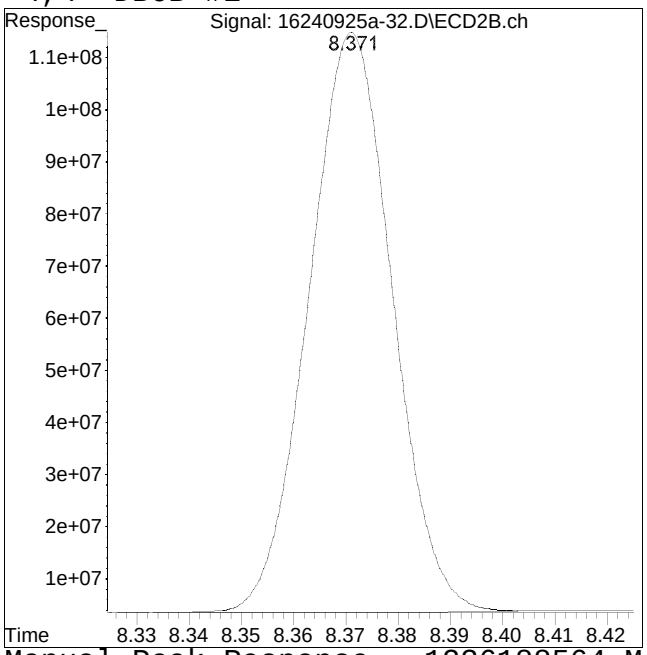
Original Peak Response = 1051059218 Manual Peak Response = 1029470445 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-32.D Operator : pest16:jag
Date Inj'd : 9/25/2024 16:59 Instrument : PEST16
Sample : L2453342-01,42,, Quant Date : 9/25/2024 6:17 pm

Compound #14: 4,4'-DBOB #2



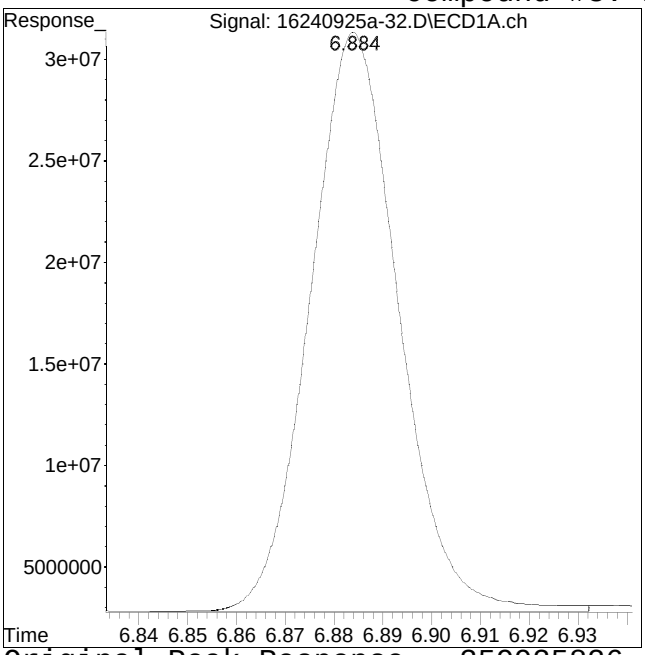


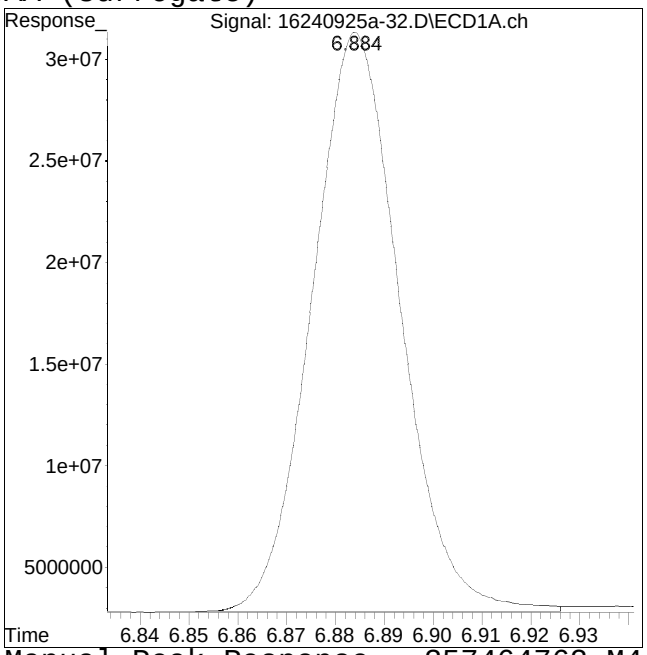
Original Peak Response = 1238670081 Manual Peak Response = 1236188564 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-32.D Operator : pest16:jag
Date Inj'd : 9/25/2024 16:59 Instrument : PEST16
Sample : L2453342-01,42,, Quant Date : 9/25/2024 6:17 pm

Compound #3: DCAA (surrogate)



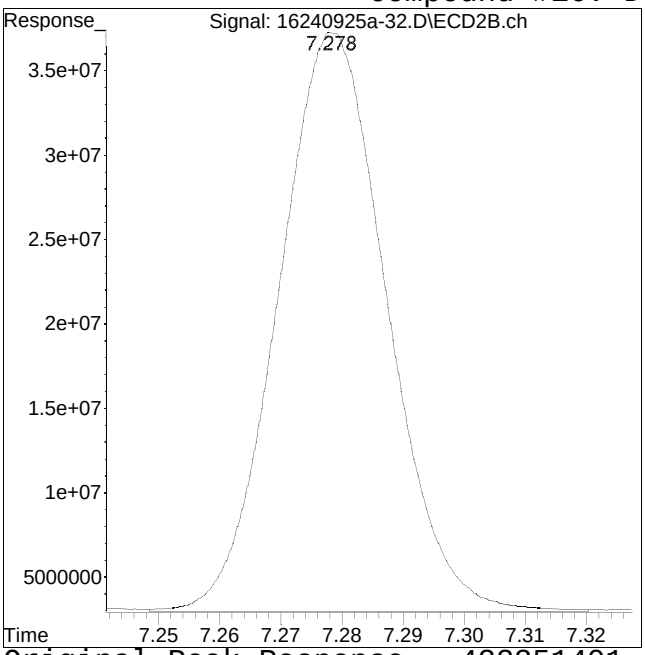


Original Peak Response = 359925826 Manual Peak Response = 357464762 M4
M4 = Poor automated baseline construction.

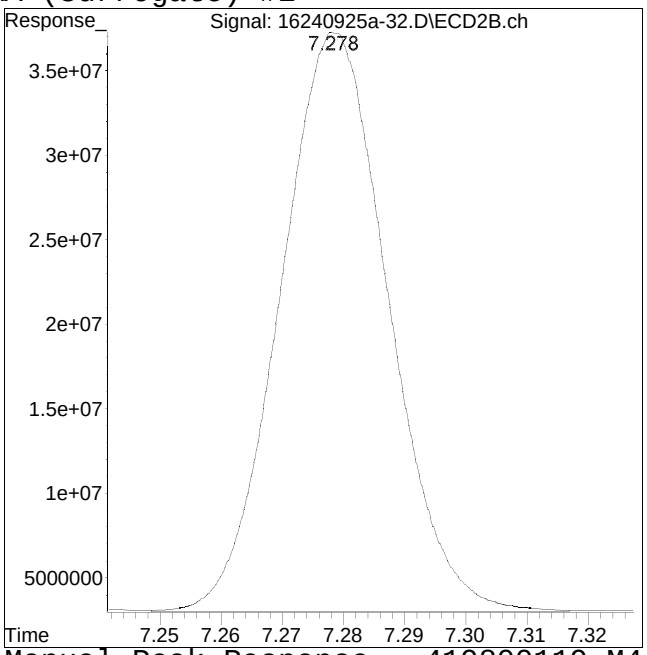
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-32.D Operator : pest16:jag
Date Inj'd : 9/25/2024 16:59 Instrument : PEST16
Sample : L2453342-01,42,, Quant Date : 9/25/2024 6:17 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 422351401



Manual Peak Response = 419800119 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-33.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:19
Operator : pest16:jag
Sample : L2453342-02,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:01 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.371	1143.2E6	1369.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery = 101.05%		
	Standard Area 1 : #2 = 1328171688				Recovery = 103.08%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.278	370.8E6	437.1E6	0.432M4	0.419M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	86.40%	83.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

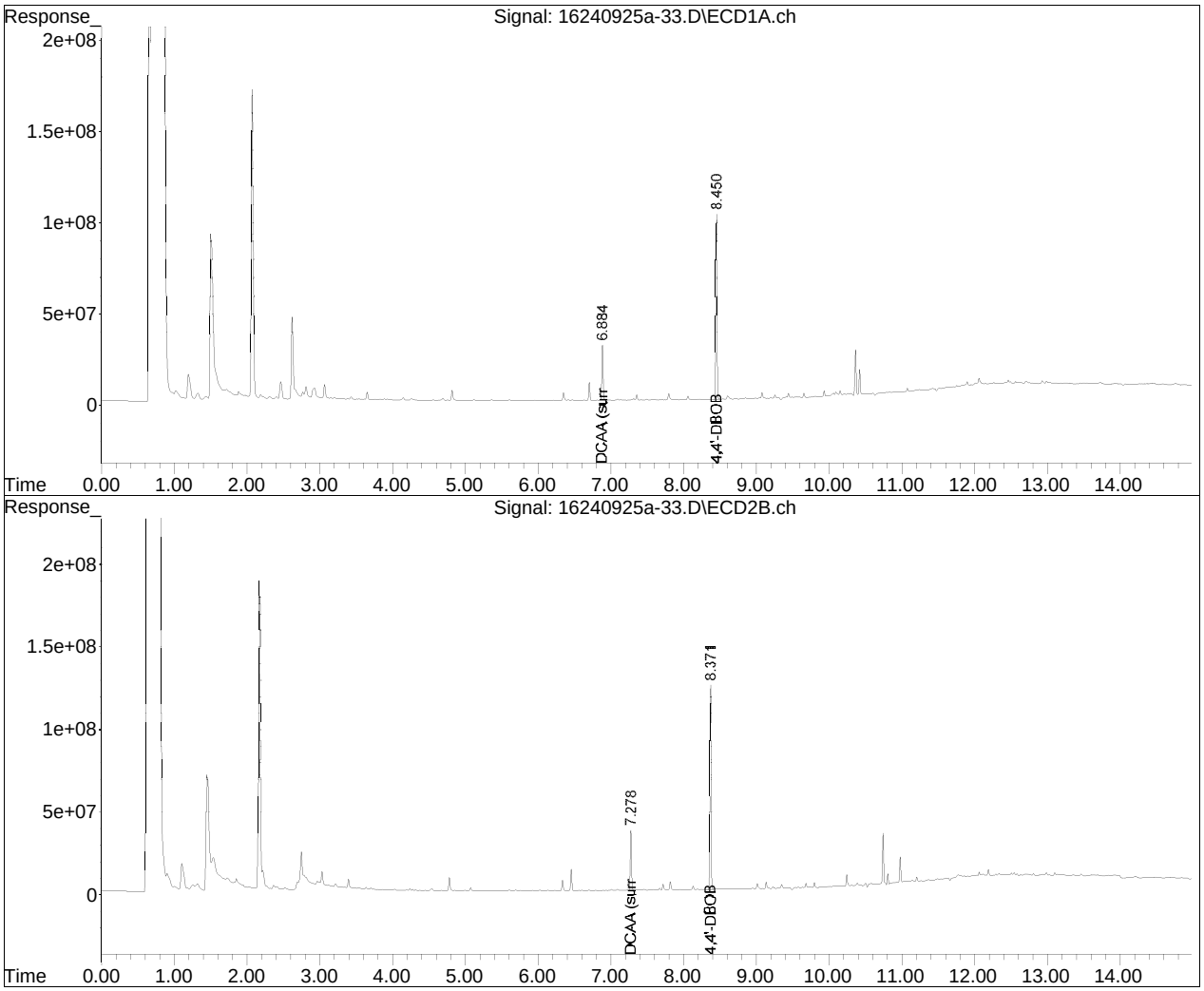
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-33.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:19
Operator : pest16:jag
Sample : L2453342-02,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:01 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

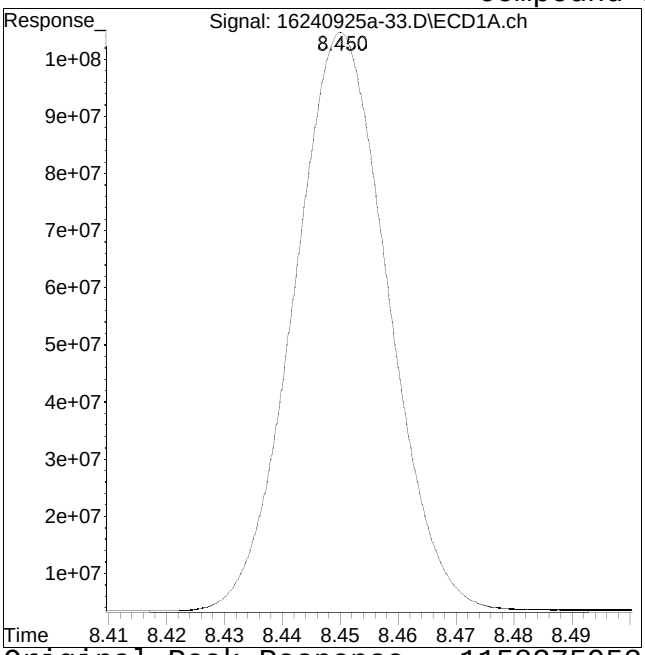
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

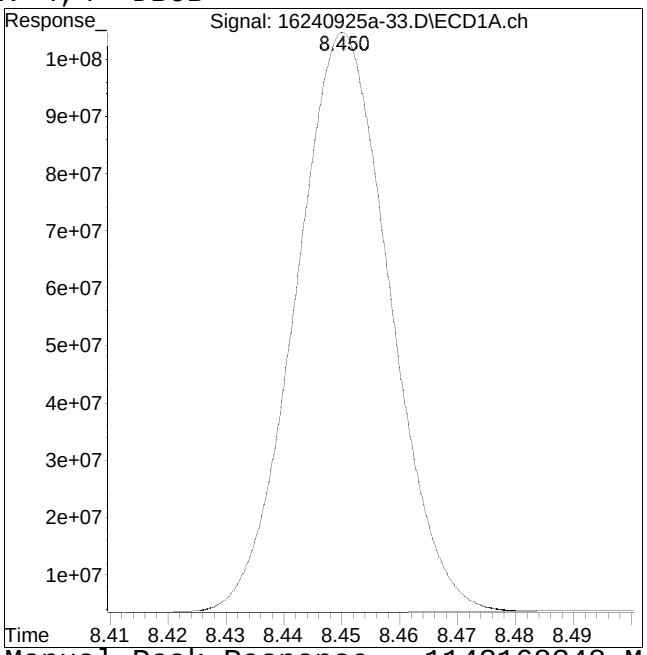


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-33.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:19 Instrument : PEST16
Sample : L2453342-02,42,, Quant Date : 9/25/2024 6:17 pm

Compound #1: 4,4'-DBOB



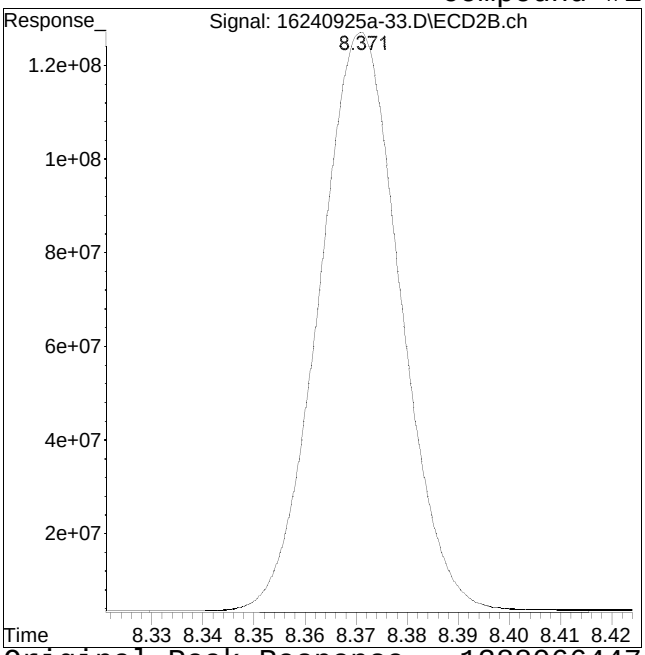


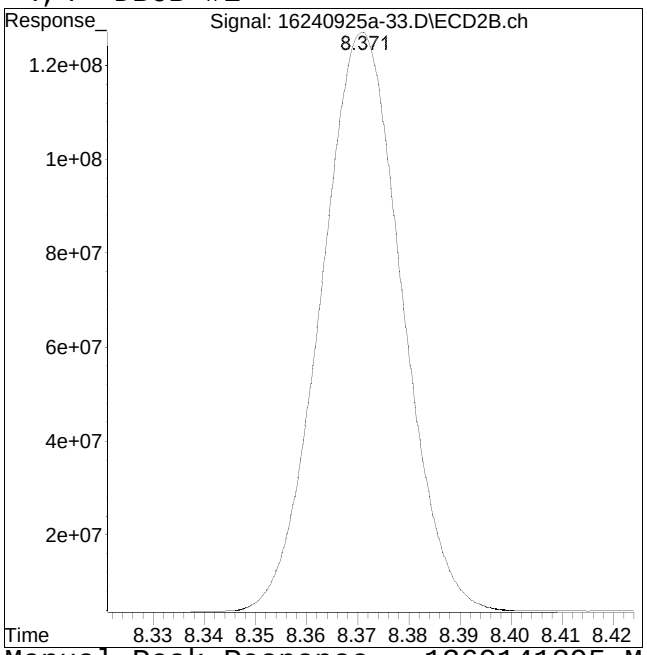
Original Peak Response = 1158375953 Manual Peak Response = 1143168348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-33.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:19 Instrument : PEST16
Sample : L2453342-02,42,, Quant Date : 9/25/2024 6:17 pm

Compound #14: 4,4'-DBOB #2



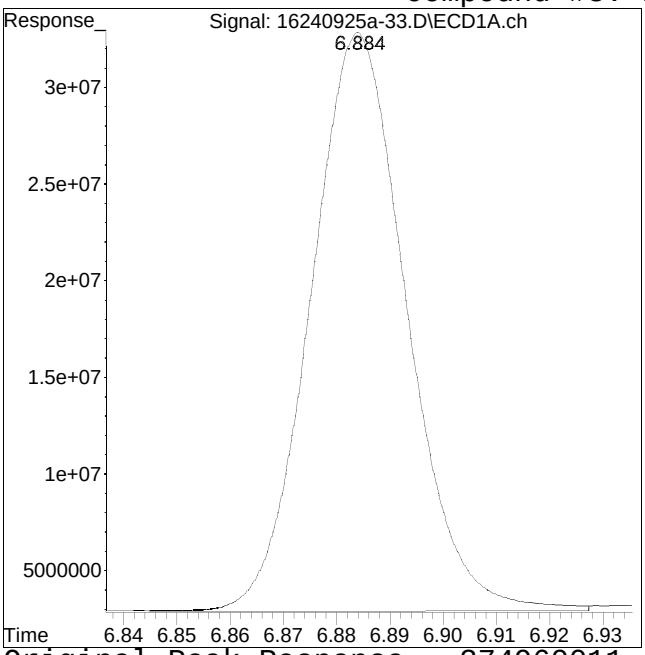


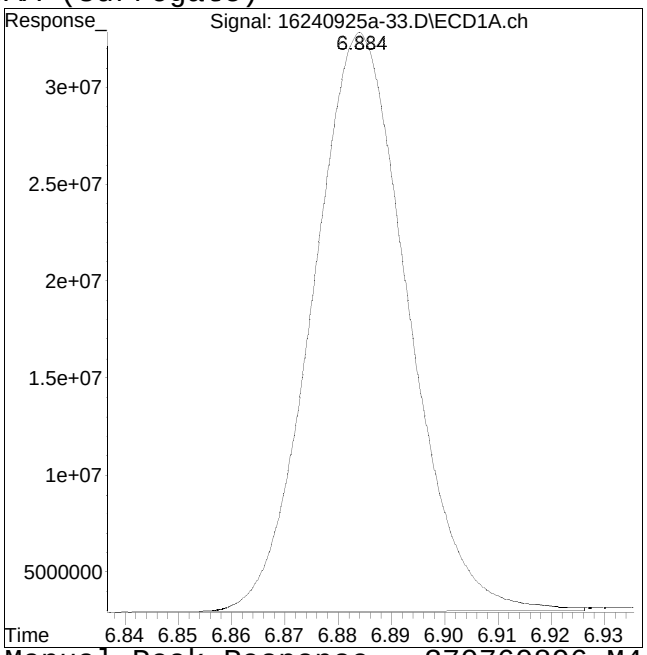
Original Peak Response = 1388066447 Manual Peak Response = 1369141295 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-33.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:19 Instrument : PEST16
Sample : L2453342-02,42,, Quant Date : 9/25/2024 6:17 pm

Compound #3: DCAA (surrogate)



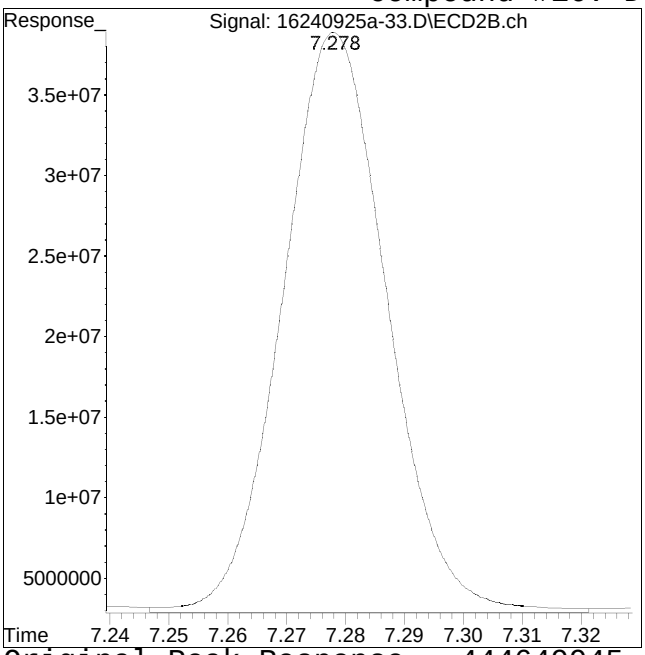


Original Peak Response = 374960011 Manual Peak Response = 370760896 M4
M4 = Poor automated baseline construction.

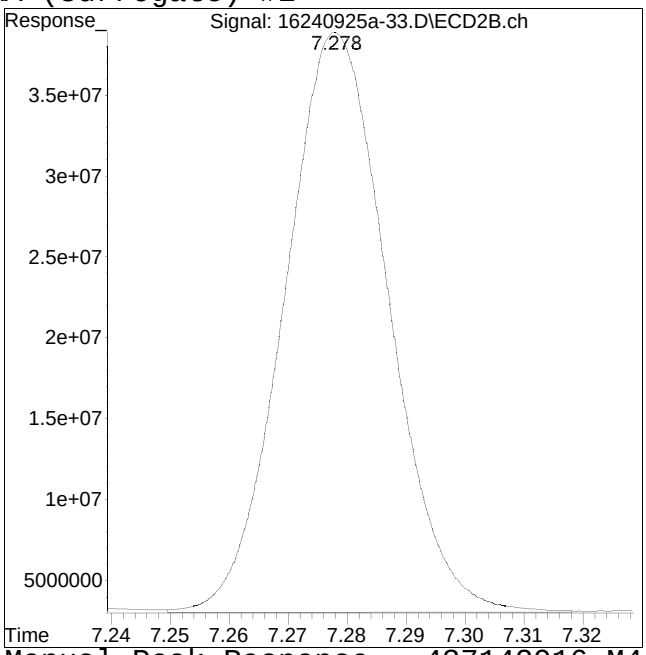
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-33.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:19 Instrument : PEST16
Sample : L2453342-02,42,, Quant Date : 9/25/2024 6:17 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 444649945



Manual Peak Response = 437142916 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:38
Operator : pest16:jag
Sample : L2453342-03,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:03 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.451	8.371	1034.6E6	1232.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery =	91.45%	
	Standard Area 1 : #2 = 1328171688				Recovery =	92.79%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.885	7.279	331.9E6	387.1E6	0.428M4	0.412M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	85.60%	82.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

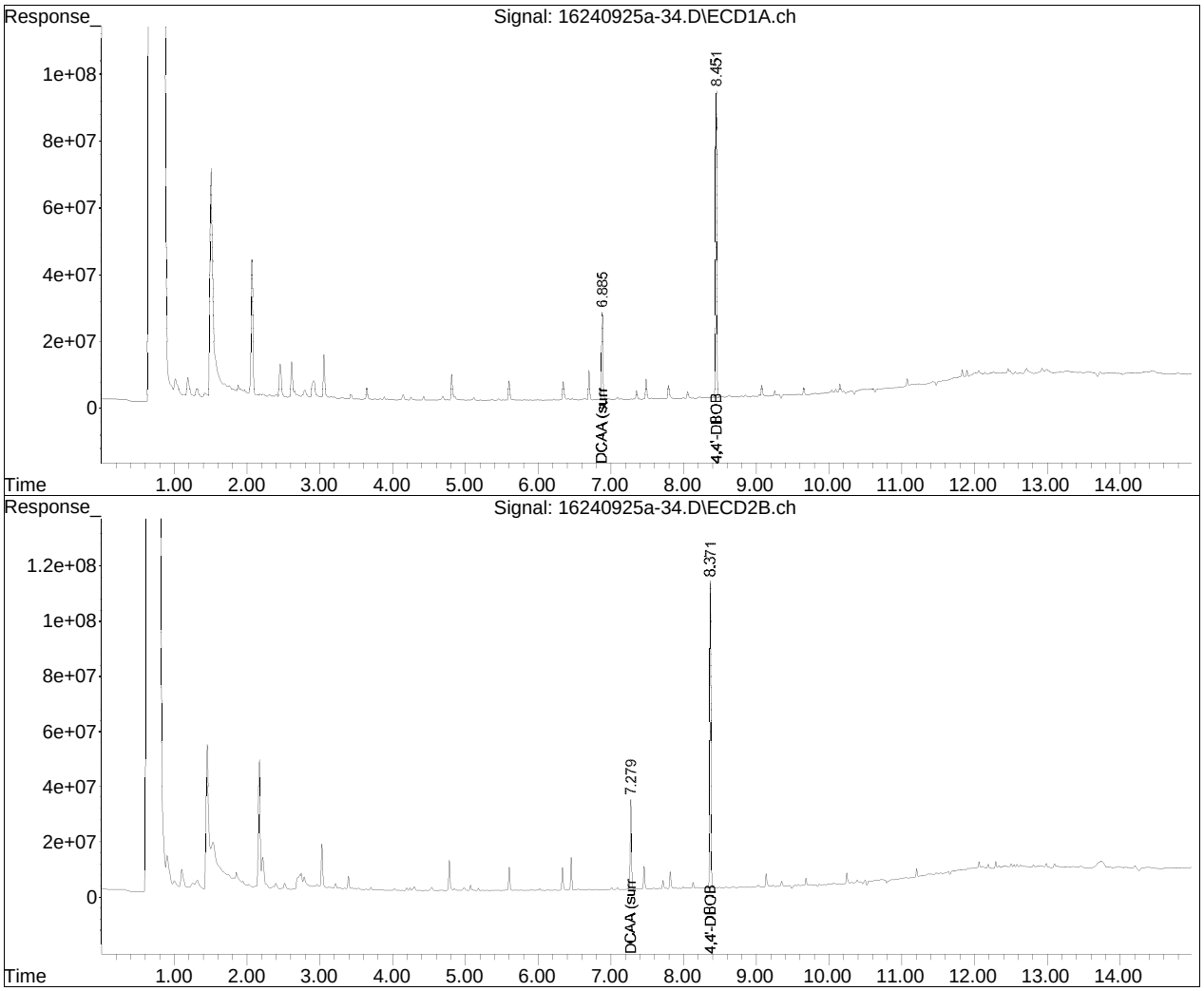
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:38
Operator : pest16:jag
Sample : L2453342-03,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:03 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

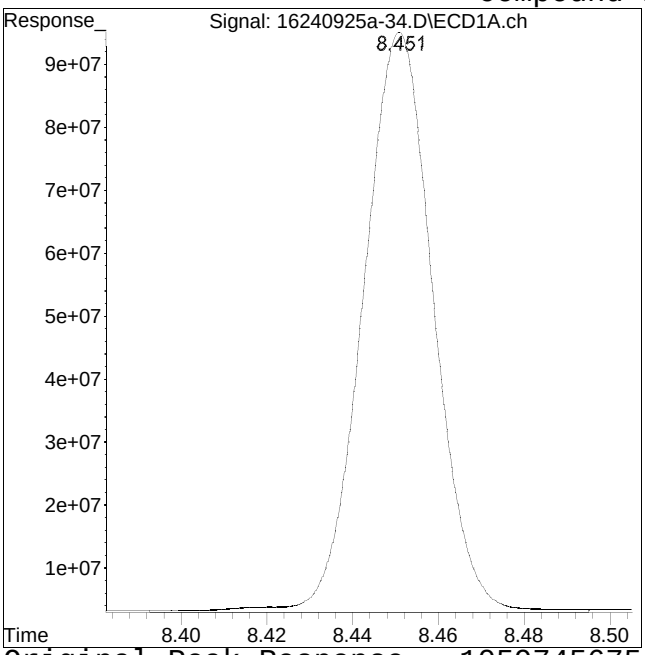
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

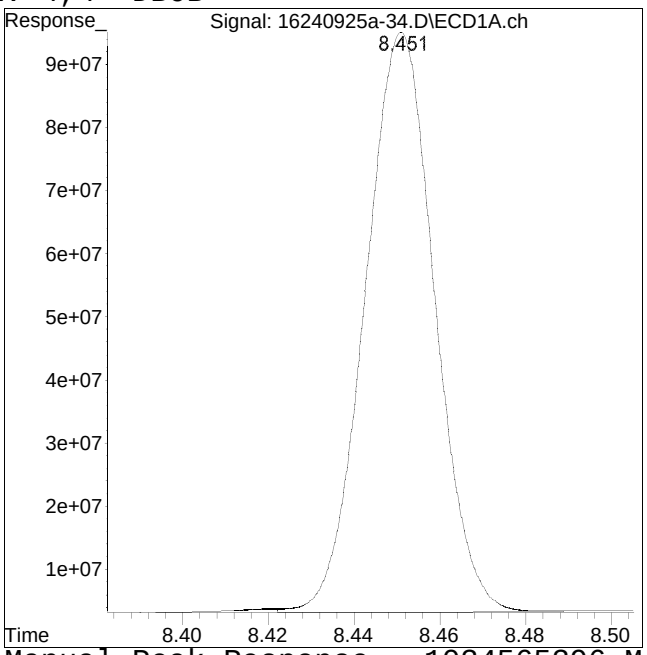


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-34.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:38 Instrument : PEST16
Sample : L2453342-03,42,, Quant Date : 9/25/2024 6:17 pm

Compound #1: 4,4'-DBOB



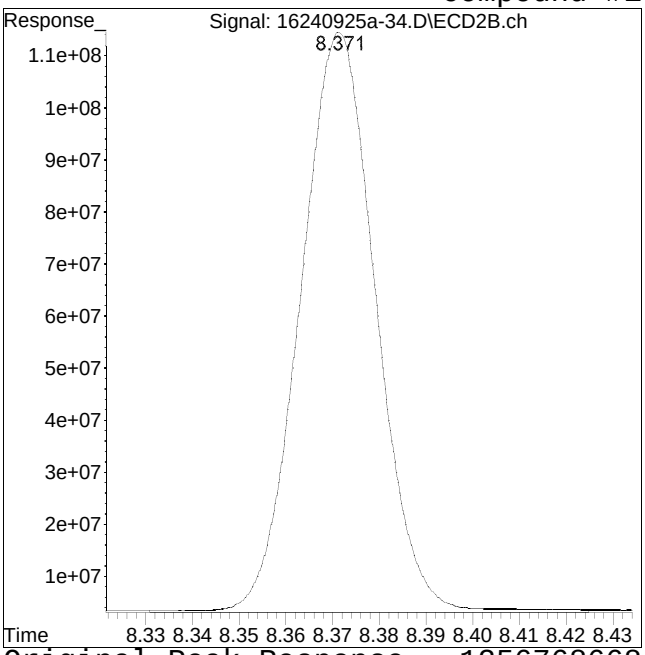


Original Peak Response = 1059745675 Manual Peak Response = 1034565396 M4
M4 = Poor automated baseline construction.

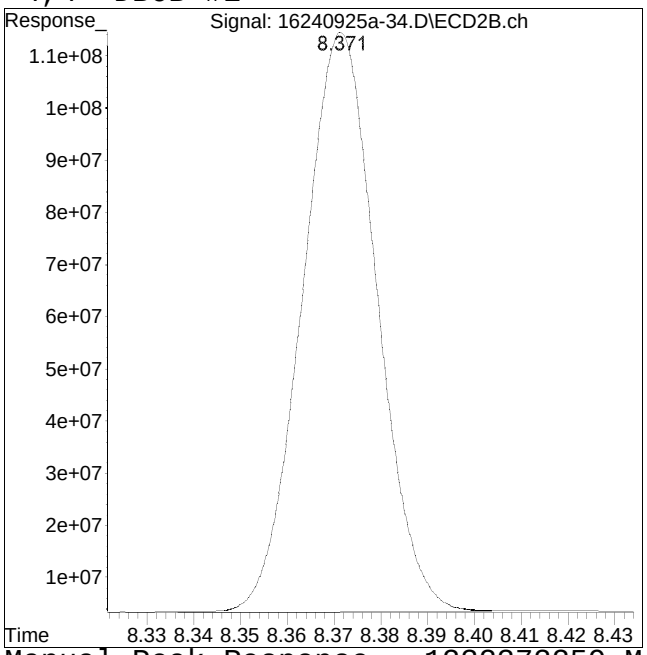
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-34.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:38 Instrument : PEST16
Sample : L2453342-03,42,, Quant Date : 9/25/2024 6:17 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 1256768668



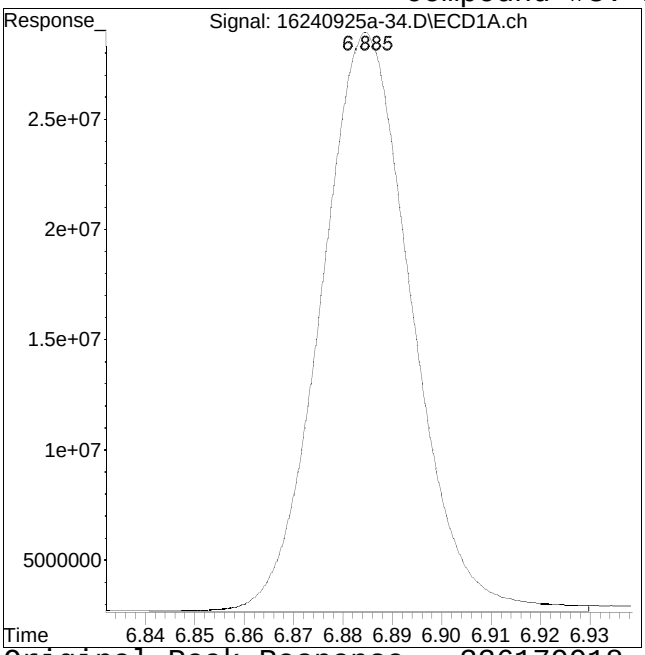
Manual Peak Response = 1232373259 M4

M4 = Poor automated baseline construction.

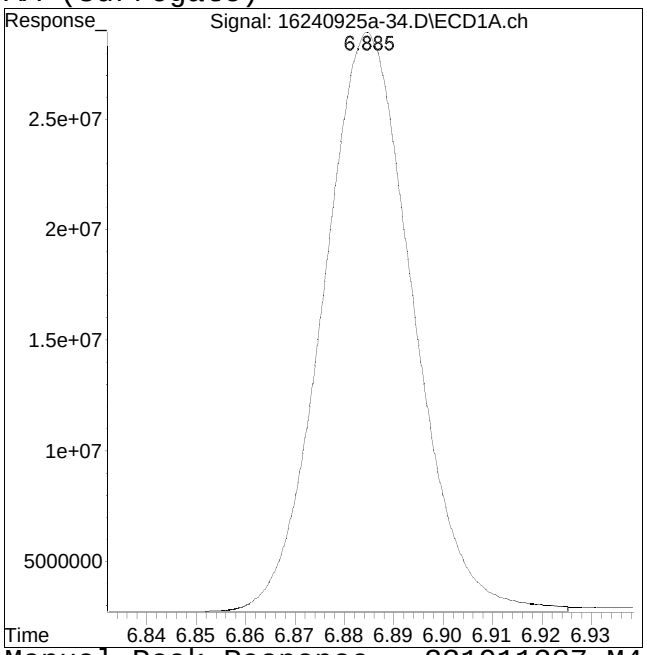
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-34.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:38 Instrument : PEST16
Sample : L2453342-03,42,, Quant Date : 9/25/2024 6:17 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 336179918



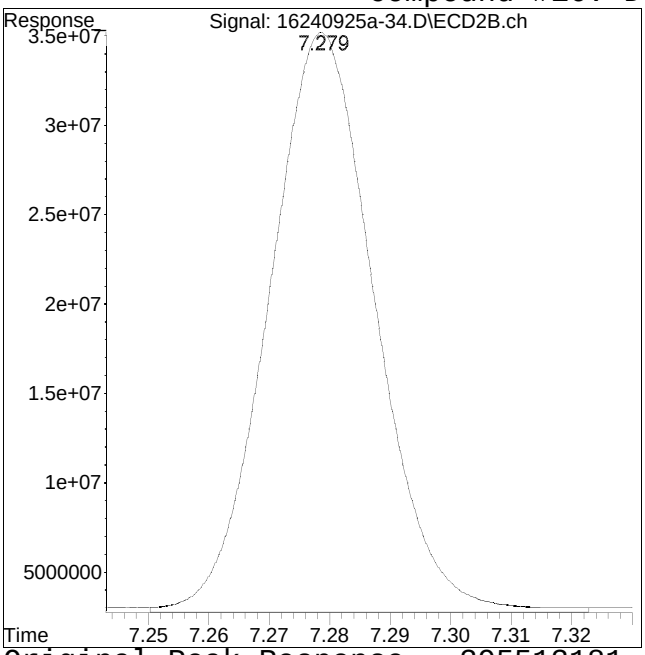
Manual Peak Response = 331911237 M4

M4 = Poor automated baseline construction.

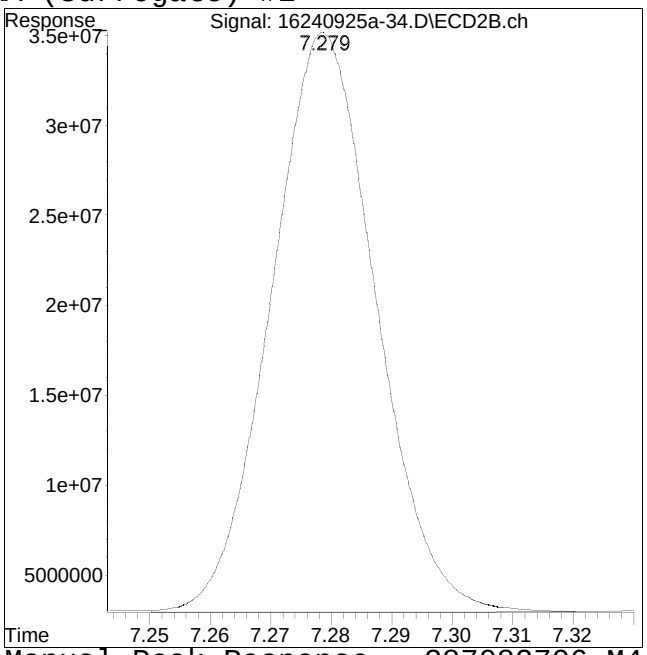
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-34.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:38 Instrument : PEST16
Sample : L2453342-03,42,, Quant Date : 9/25/2024 6:17 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 395513181



Manual Peak Response = 387082706 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:58
Operator : pest16:jag
Sample : L2453342-04,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:05 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.450	8.371	1081.7E6	1279.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery =	95.61%	
	Standard Area 1 : #2 = 1328171688				Recovery =	96.33%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.885	7.278	327.1E6	381.7E6	0.403M4	0.391M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	80.60%	78.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

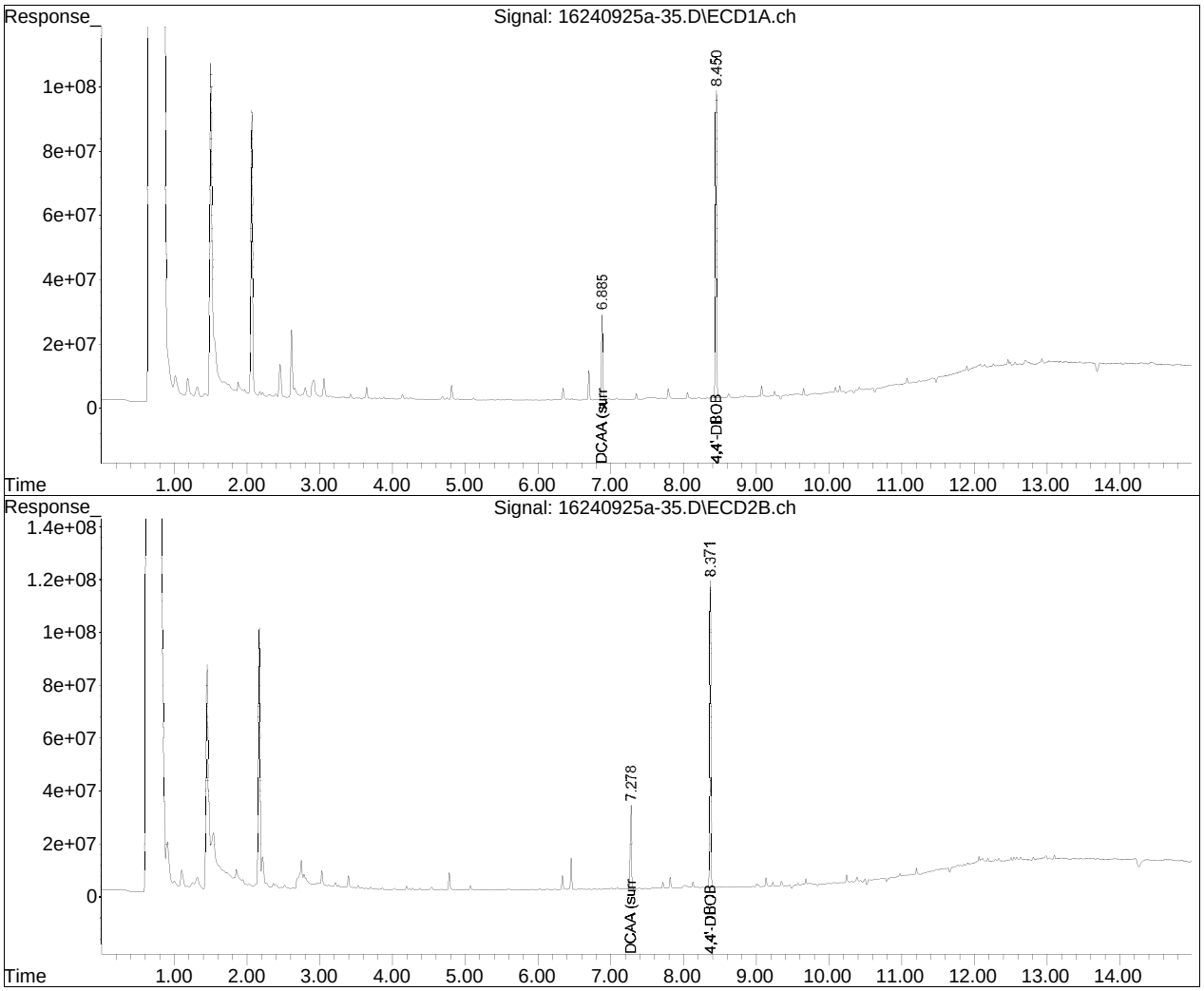
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 17:58
Operator : pest16:jag
Sample : L2453342-04,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:17:05 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

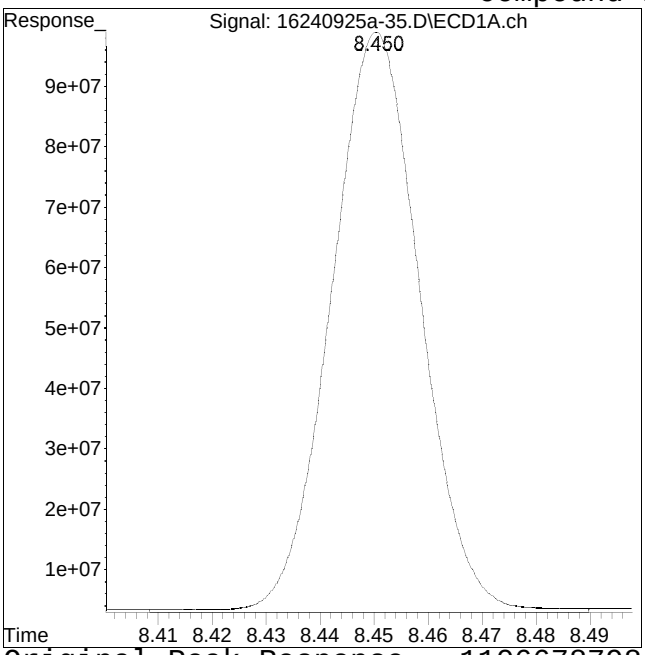
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

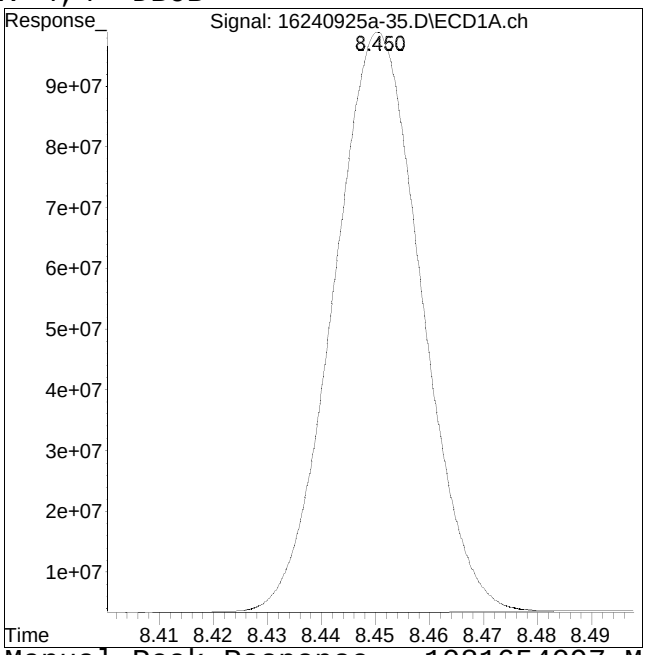


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-35.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:58 Instrument : PEST16
Sample : L2453342-04,42,, Quant Date : 9/25/2024 6:17 pm

Compound #1: 4,4'-DBOB



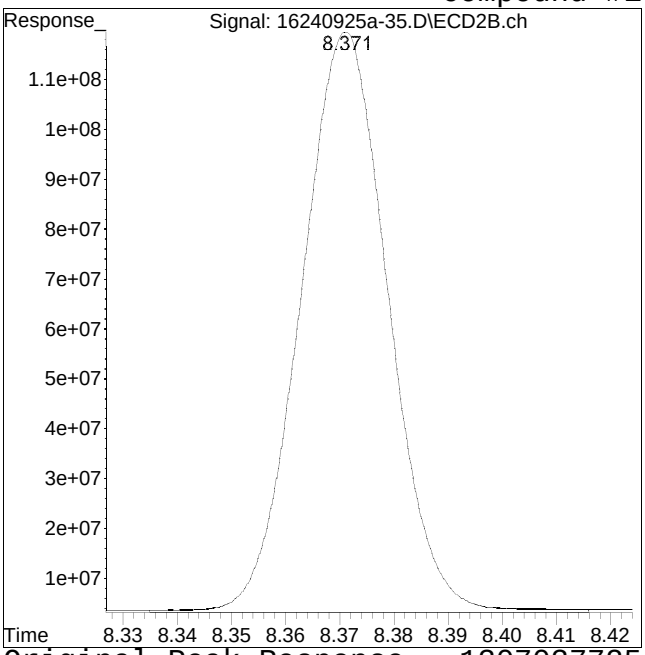


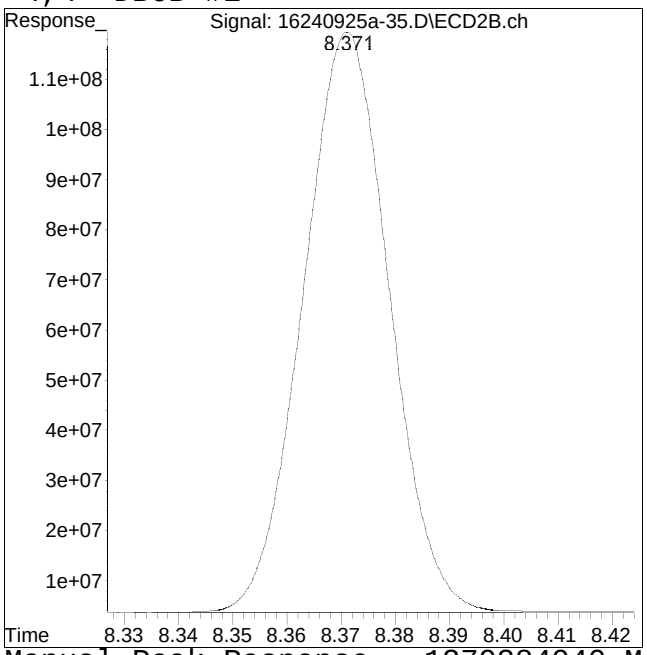
Original Peak Response = 1106678798 Manual Peak Response = 1081654097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-35.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:58 Instrument : PEST16
Sample : L2453342-04,42,, Quant Date : 9/25/2024 6:17 pm

Compound #14: 4,4'-DBOB #2



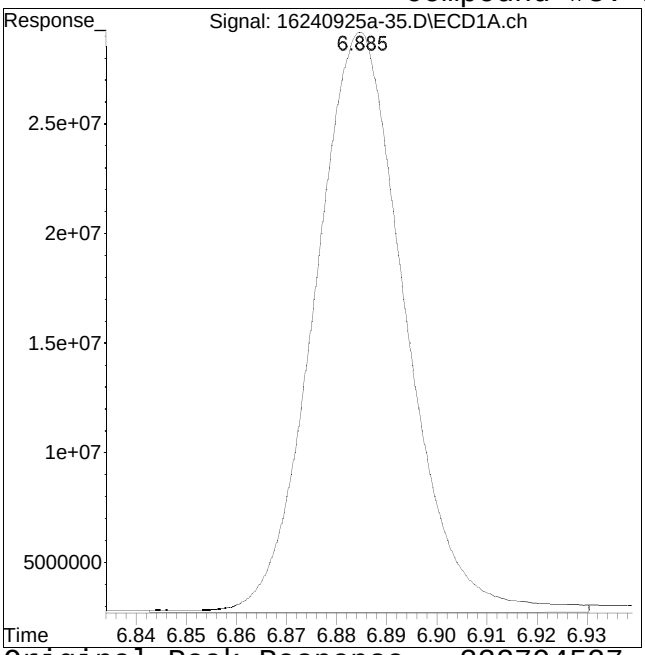


Original Peak Response = 1307037725 Manual Peak Response = 1279384940 M4
M4 = Poor automated baseline construction.

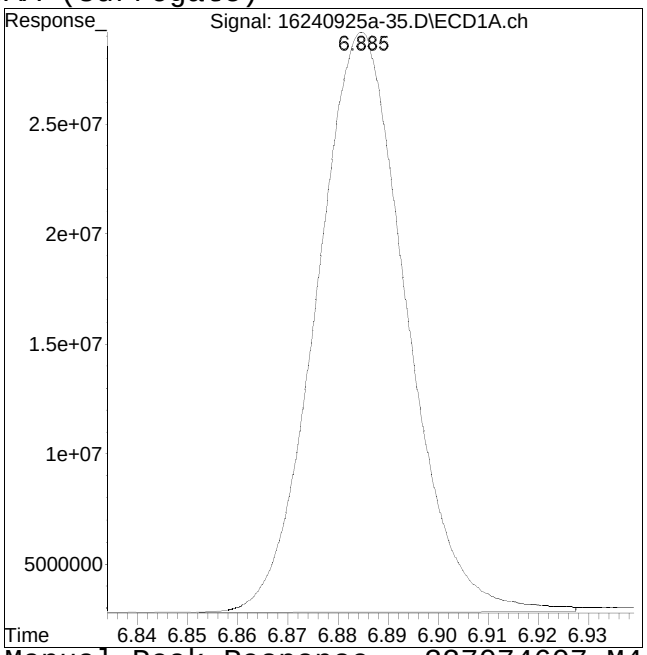
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-35.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:58 Instrument : PEST16
Sample : L2453342-04,42,, Quant Date : 9/25/2024 6:17 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 332794527



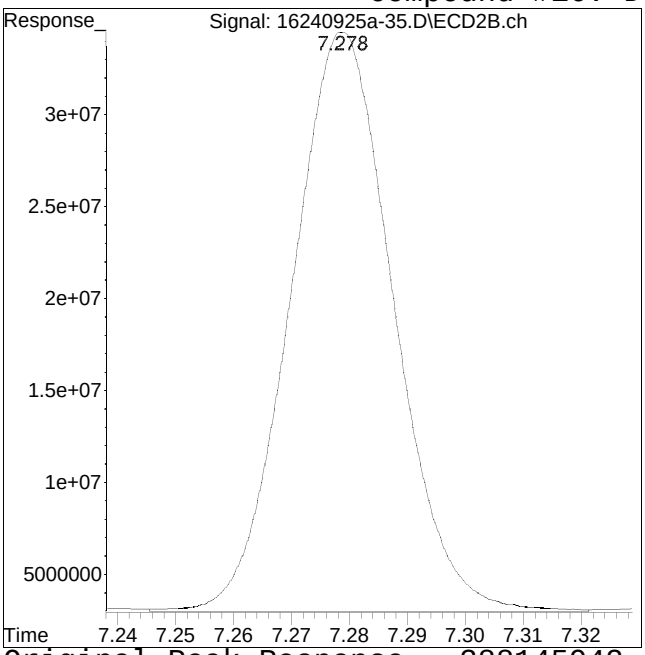
Manual Peak Response = 327074607 M4

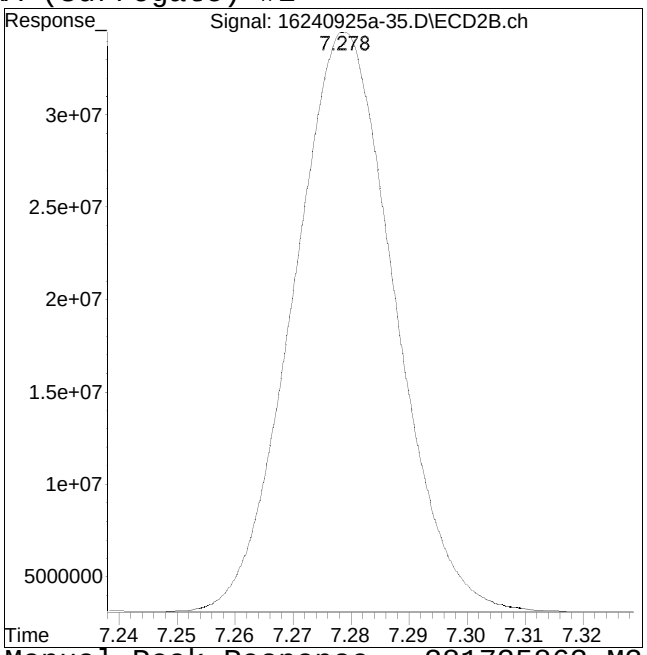
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-35.D Operator : pest16:jag
Date Inj'd : 9/25/2024 17:58 Instrument : PEST16
Sample : L2453342-04,42,, Quant Date : 9/25/2024 6:17 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 388145942 Manual Peak Response = 381735863 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 18:17
Operator : pest16:jag
Sample : L2453342-05,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:50:33 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-24.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.451	8.371	1079.7E6	1280.3E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1131317786				Recovery = 95.44%		
	Standard Area 1 : #2 = 1328171688				Recovery = 96.39%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.885	7.278	322.8E6	381.3E6	0.399M4	0.390M4
	Spiked Amount	0.500	Range 30 - 150		Recovery = 79.80%		78.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

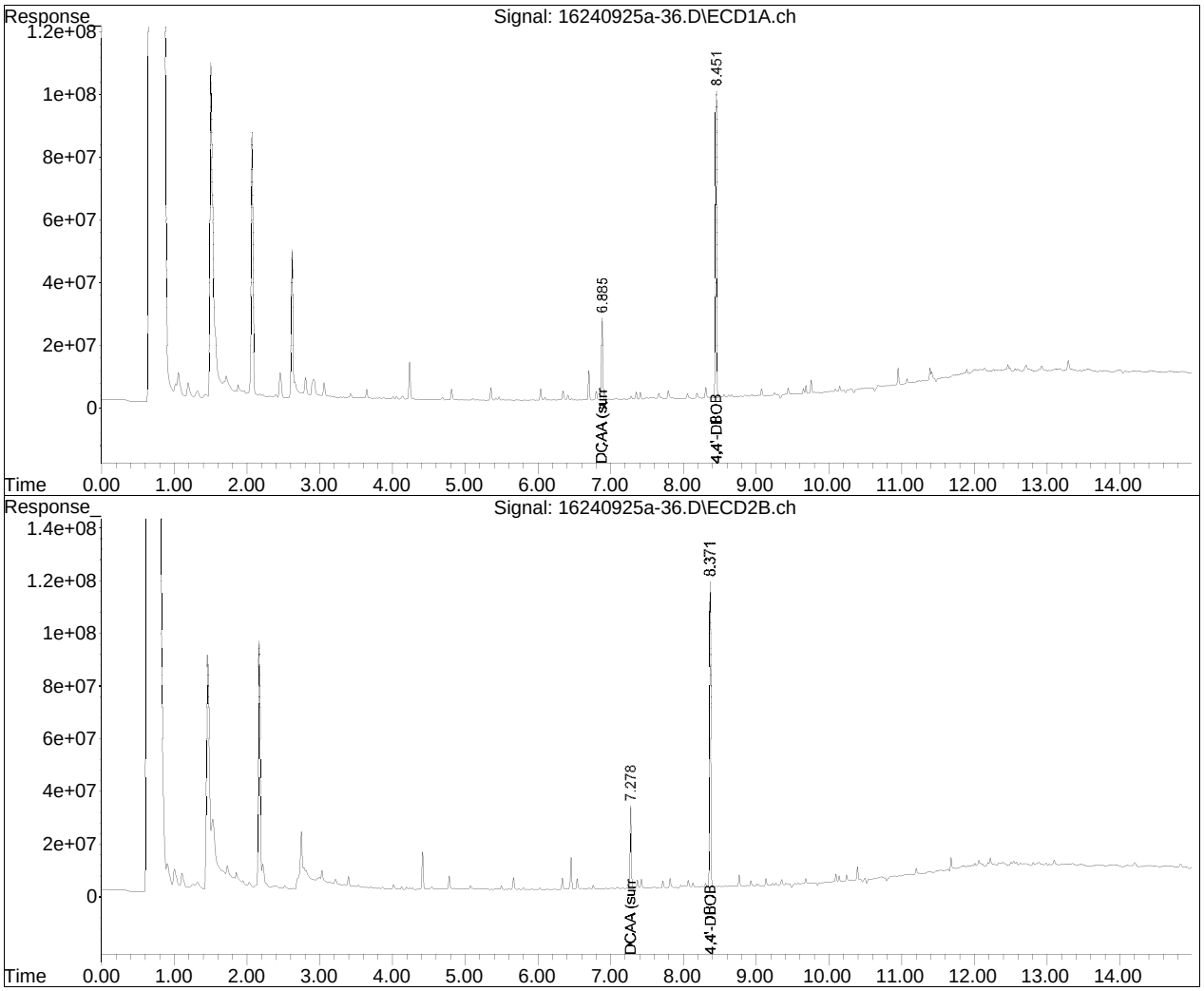
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-24.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 18:17
Operator : pest16:jag
Sample : L2453342-05,42,,
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 18:50:33 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

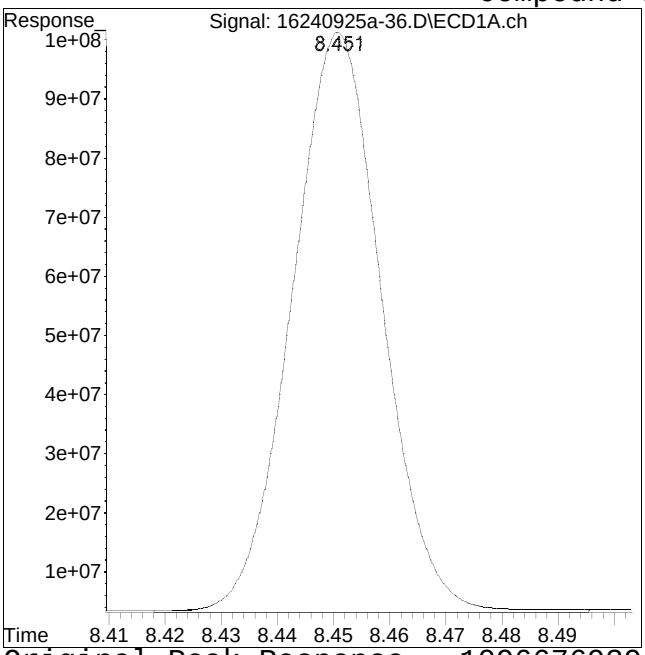
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

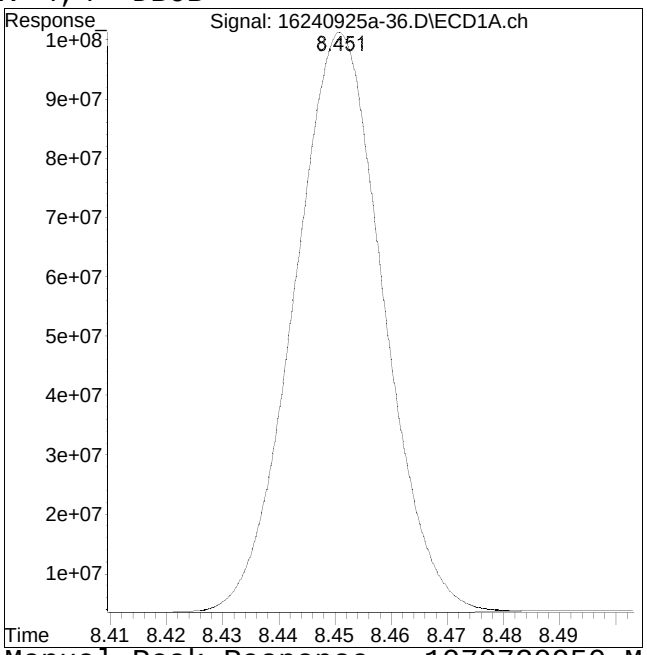


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-36.D Operator : pest16:jag
Date Inj'd : 9/25/2024 18:17 Instrument : PEST16
Sample : L2453342-05,42,, Quant Date : 9/25/2024 6:50 pm

Compound #1: 4,4'-DBOB



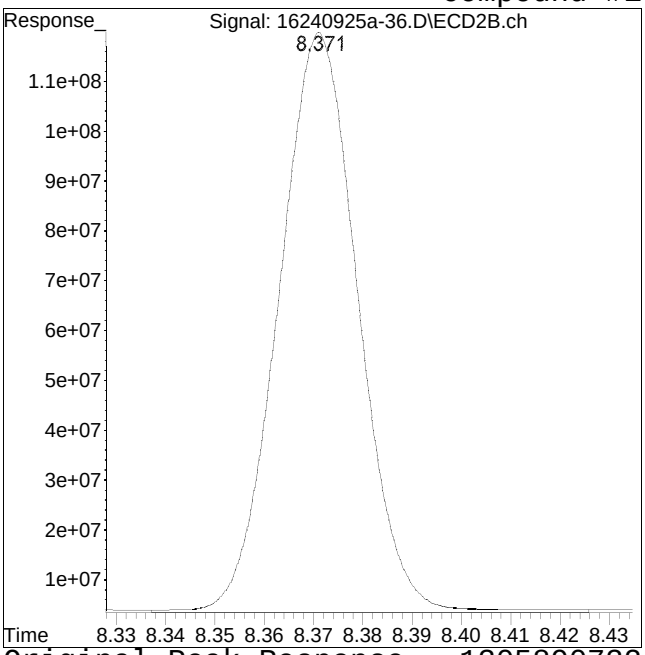


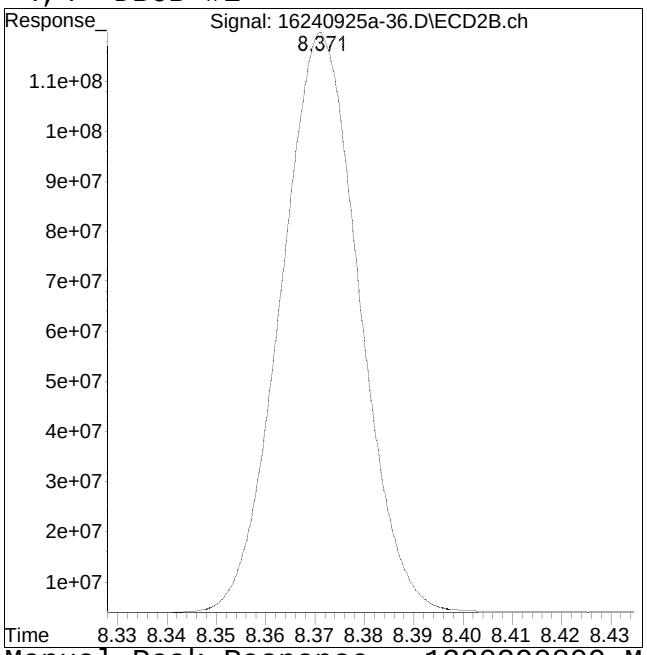
Original Peak Response = 1096676939 Manual Peak Response = 1079720950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-36.D Operator : pest16:jag
Date Inj'd : 9/25/2024 18:17 Instrument : PEST16
Sample : L2453342-05,42,, Quant Date : 9/25/2024 6:50 pm

Compound #14: 4,4'-DBOB #2



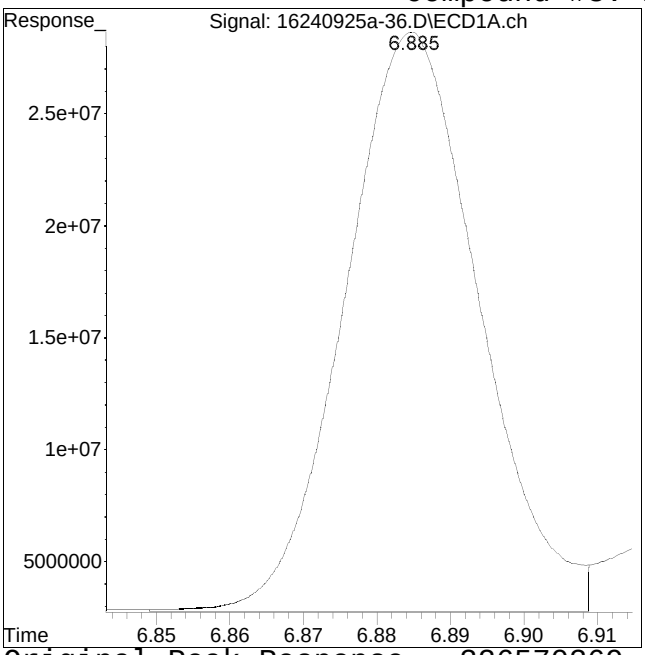


Original Peak Response = 1305890732 Manual Peak Response = 1280290809 M4
M4 = Poor automated baseline construction.

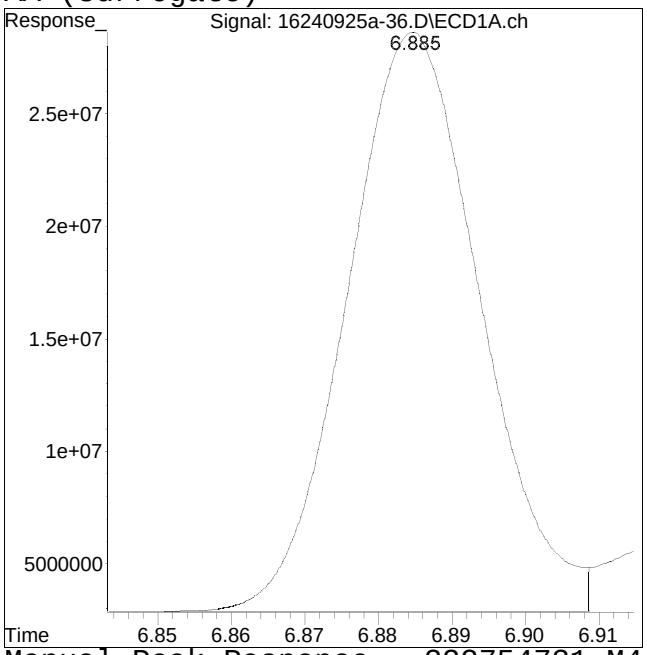
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-36.D Operator : pest16:jag
Date Inj'd : 9/25/2024 18:17 Instrument : PEST16
Sample : L2453342-05,42,, Quant Date : 9/25/2024 6:50 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 326570369

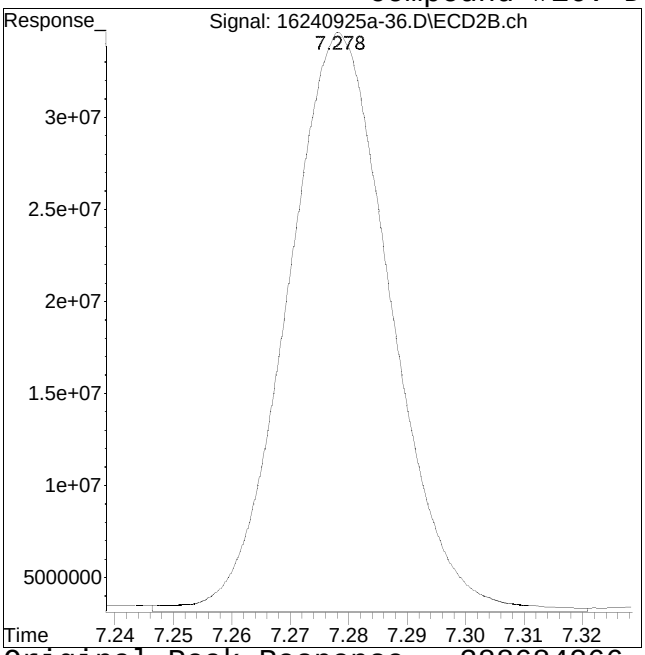


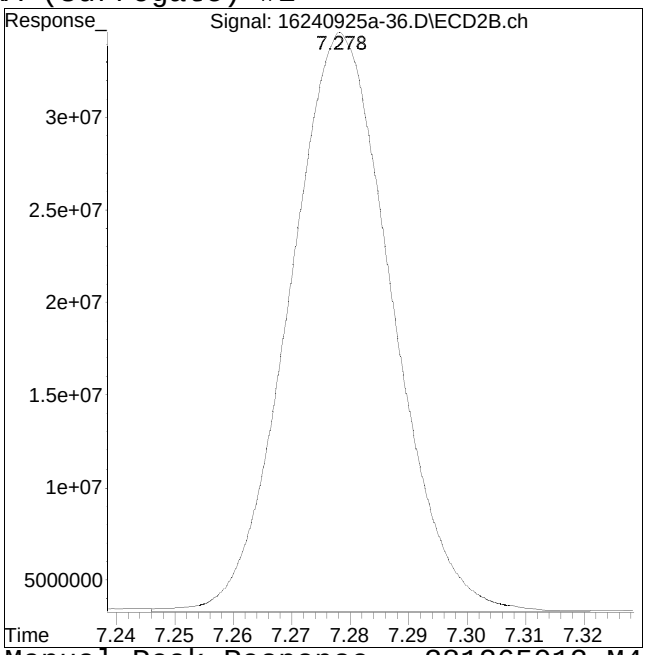
Manual Peak Response = 322754731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-36.D Operator : pest16:jag
Date Inj'd : 9/25/2024 18:17 Instrument : PEST16
Sample : L2453342-05,42,, Quant Date : 9/25/2024 6:50 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 388684266 Manual Peak Response = 381265012 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21449**
Calibration dates	**: 08/29/24 12:47 08/29/24 14:25**		

Calibration Files

1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D

6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.246	0.222	0.209	0.200	0.185	0.172	0.206	12.88
3)	s	DCAA (surrogate)	0.220	0.212	0.197	0.176	0.166	0.153	0.187	14.23
4)	t	Dicamba	0.663	0.633	0.604	0.563	0.546	0.517	0.588	9.46
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	0.001	3.45
6)	t	MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.11
7)	t	Dichloroprop	0.205	0.203	0.188	0.167	0.161	0.149	0.179	13.01
8)	t	2,4-D	0.201	0.203	0.210	0.200	0.197	0.184	0.199	4.32
9)	t	2,4,5-TP (Silvex)	0.824	0.804	0.795	0.729	0.743	0.714	0.768	5.87
10)	t	2,4,5-T	0.827	0.822	0.783	0.709	0.716	0.702	0.760	7.64
11)	t	2,4-DB	0.098	0.107	0.110	0.101	0.104	0.103	0.104	4.01
12)	t	Dinoseb	0.724	0.656	0.693	0.567	0.524	0.498	0.610	15.36

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21449**
Calibration dates	**: 08/29/24 12:47 08/29/24 14:25**		

Signal #2 Calibration Files

1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D

6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.235	0.210	0.199	0.186	0.172	0.163	0.194	13.58
3)	s	DCAA (surrogate)	0.232	0.217	0.199	0.175	0.163	0.158	0.191	15.74
4)	t	Dicamba	0.657	0.620	0.582	0.533	0.510	0.504	0.568	11.01
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L	0.9973
6)	t	MCPA		0.002	0.002	0.001	0.001	0.001	*L	0.9973
7)	t	Dichloroprop	0.220	0.203	0.189	0.167	0.158	0.153	0.182	14.86
8)	t	2,4-D	0.283	0.259	0.236	0.206	0.200	0.200	0.231	15.05
9)	t	2,4,5-TP (Sil	0.905	0.875	0.837	0.761	0.750	0.754	0.814	8.32
10)	t	2,4,5-T	0.572	0.596	0.611	0.613	0.652	0.698	0.624	7.21
11)	t	2,4-DB	0.127	0.124	0.121	0.113	0.114	0.116	0.119	4.84
12)	t	Dinoseb	0.499	0.488	0.466	0.432	0.423	0.429	0.456	7.22

Response Factor Report PEST16

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024
Response Via : Initial Calibration

Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.246	0.222	0.209	0.200	0.185	0.172	0.206	12.88
3)	s	DCAA (surrogate)	0.220	0.212	0.197	0.176	0.166	0.153	0.187	14.23
4)	t	Dicamba	0.663	0.633	0.604	0.563	0.546	0.517	0.588	9.46
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	0.001	3.45
6)	t	MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.11
7)	t	Dichloroprop	0.205	0.203	0.188	0.167	0.161	0.149	0.179	13.01
8)	t	2,4-D	0.201	0.203	0.210	0.200	0.197	0.184	0.199	4.32
9)	t	2,4,5-TP (Sil...	0.824	0.804	0.795	0.729	0.743	0.714	0.768	5.87
10)	t	2,4,5-T	0.827	0.822	0.783	0.709	0.716	0.702	0.760	7.64
11)	t	2,4-DB	0.098	0.107	0.110	0.101	0.104	0.103	0.104	4.01
12)	t	Dinoseb	0.724	0.656	0.693	0.567	0.524	0.498	0.610	15.36

Signal #2 Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.235	0.210	0.199	0.186	0.172	0.163	0.194	13.58
3)	s	DCAA (surrogate)	0.232	0.217	0.199	0.175	0.163	0.158	0.191	15.74
4)	t	Dicamba	0.657	0.620	0.582	0.533	0.510	0.504	0.568	11.01
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L	0.9973
6)	t	MCPA		0.002	0.002	0.001	0.001	0.001	*L	0.9973
7)	t	Dichloroprop	0.220	0.203	0.189	0.167	0.158	0.153	0.182	14.86
8)	t	2,4-D	0.283	0.259	0.236	0.206	0.200	0.200	0.231	15.05
9)	t	2,4,5-TP (Sil...	0.905	0.875	0.837	0.761	0.750	0.754	0.814	8.32
10)	t	2,4,5-T	0.572	0.596	0.611	0.613	0.652	0.698	0.624	7.21
11)	t	2,4-DB	0.127	0.124	0.121	0.113	0.114	0.116	0.119	4.84

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024
Response Via : Initial Calibration

Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.499	0.488	0.466	0.432	0.423	0.429	0.456	7.22

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.403	8.324	1191.5E6	1561.5E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.833	7.226	49337513	68022445	0.055M4	0.057M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	11.00%#	11.40%#
		Target Compounds						
2)	t	Dalapon	1.829	1.787	53362667	66800596	0.054M4	0.055
4)	t	Dicamba	7.015	7.404	148.5E6	192.8E6	0.052M4	0.054M4
5)	t	MCPP	7.225	7.524	13551501	39300396	4.388	6.167M4
6)	t	MCPA	7.375	7.756	27158835	61605284	5.250M4	6.481M4
7)	t	Dichloroprop	7.732	8.079	45892529	64725694	0.053M4	0.057
8)	t	2,4-D	7.958f	8.365	45022926	83025257	0.047M4	0.058M4
9)	t	2,4,5-TP (Si	8.685	9.039	186.4E6	268.5E6	0.050M4	0.053
10)	t	2,4,5-T	8.936f	9.347	187.3E6	169.8E6	0.051M4	0.044
11)	t	2,4-DB	9.364f	9.722	22414522	38208703	0.045	0.052
12)	t	Dinoseb	10.078	9.925	163.9E6	148.2E6	0.059M4	0.052
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

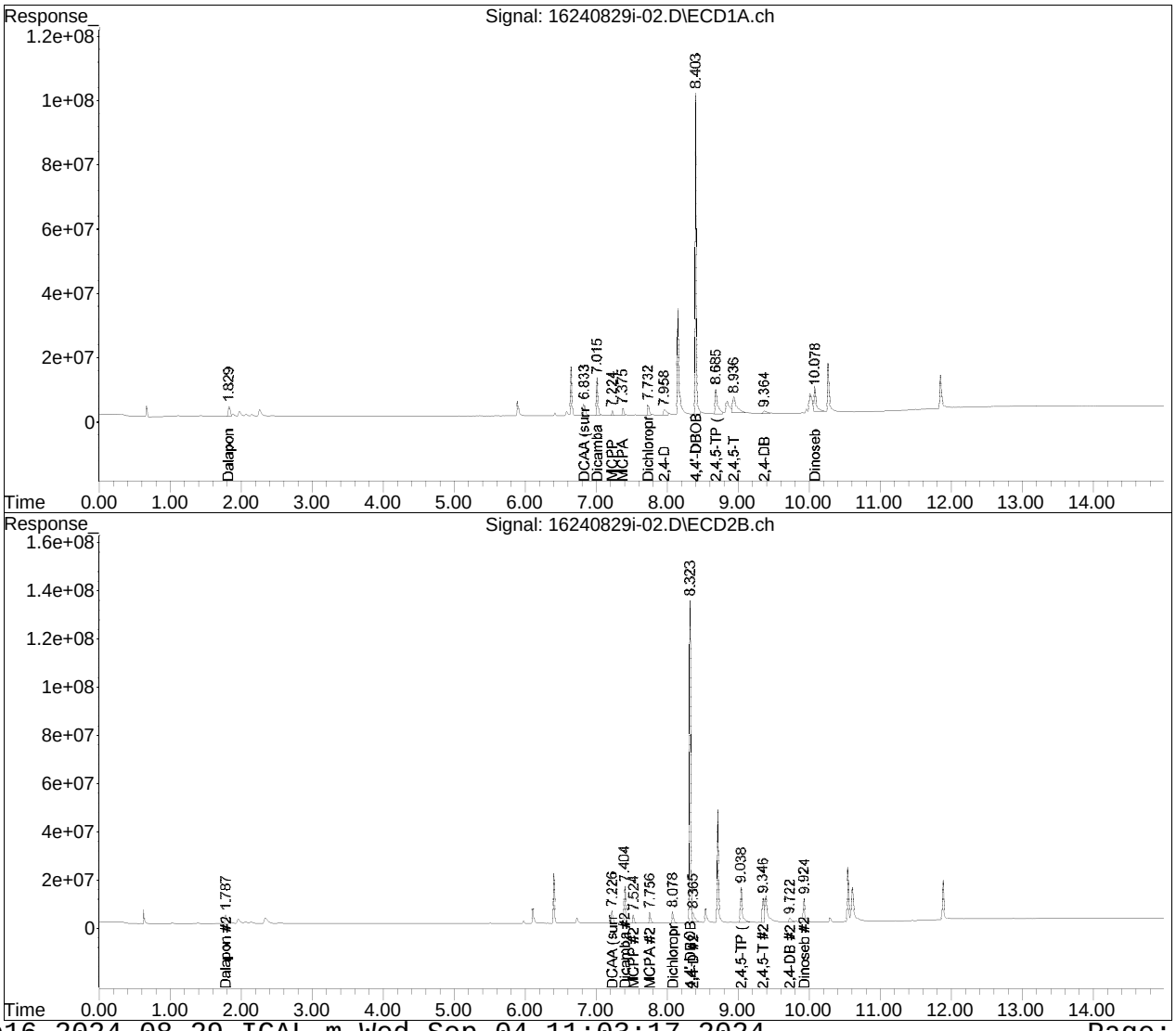
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

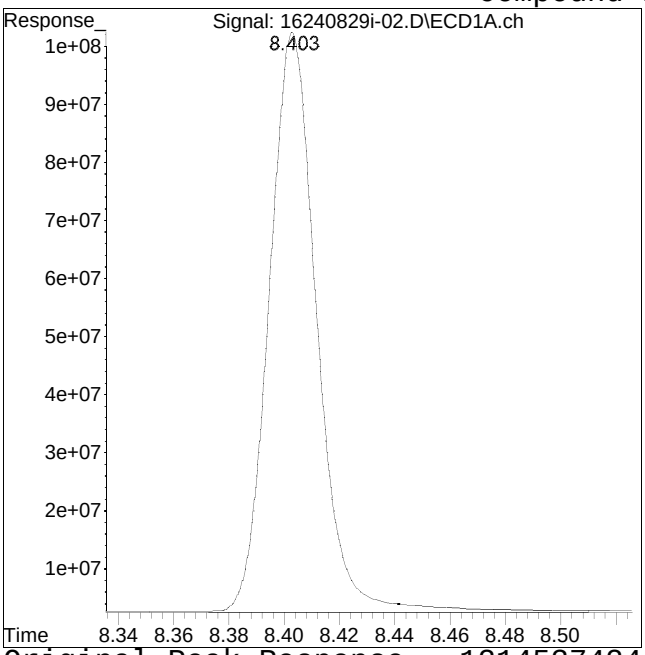
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

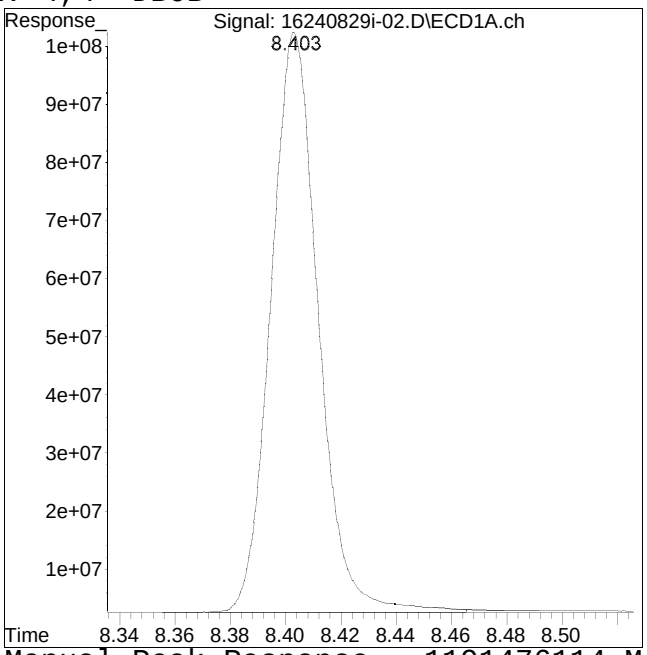


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #1: 4,4'-DBOB



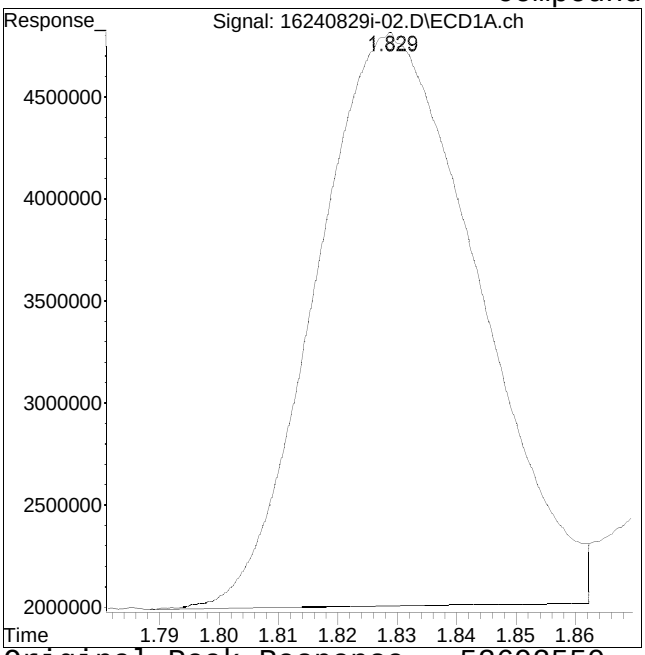


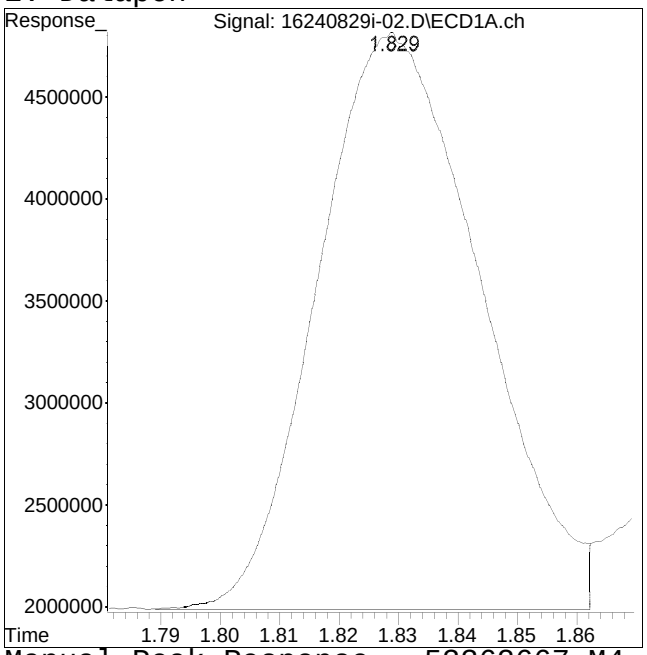
Original Peak Response = 1214537424 Manual Peak Response = 1191476114 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #2: Dalapon



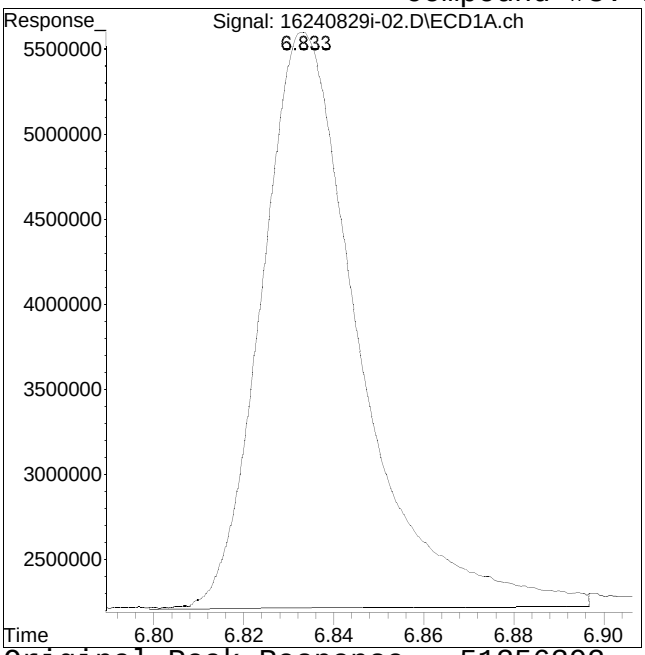


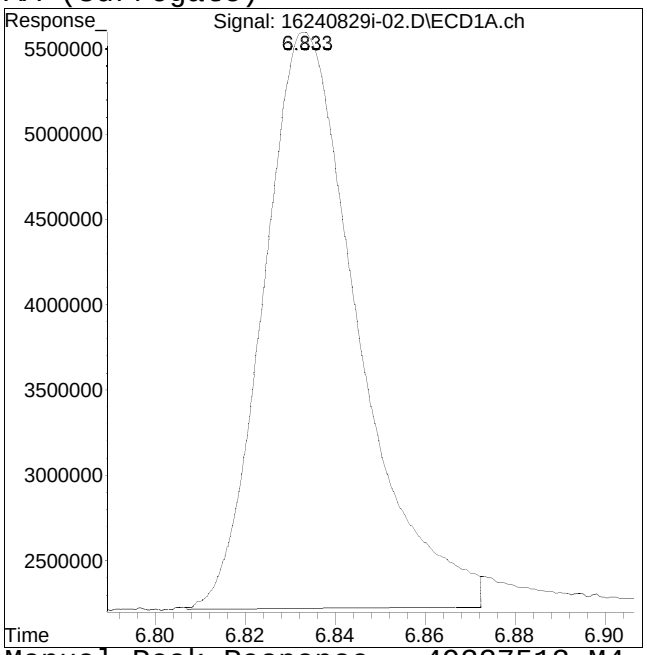
Original Peak Response = 52692550 Manual Peak Response = 53362667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #3: DCAA (surrogate)



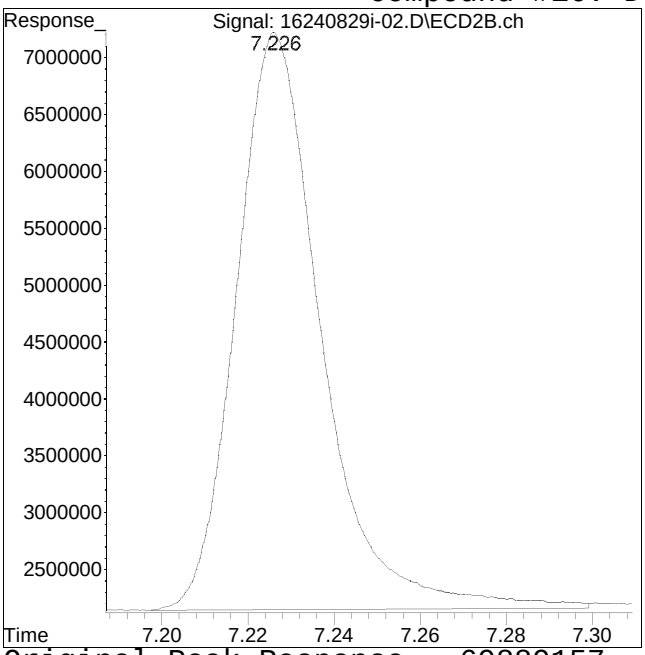


Original Peak Response = 51356392 Manual Peak Response = 49337513 M4
M4 = Poor automated baseline construction.

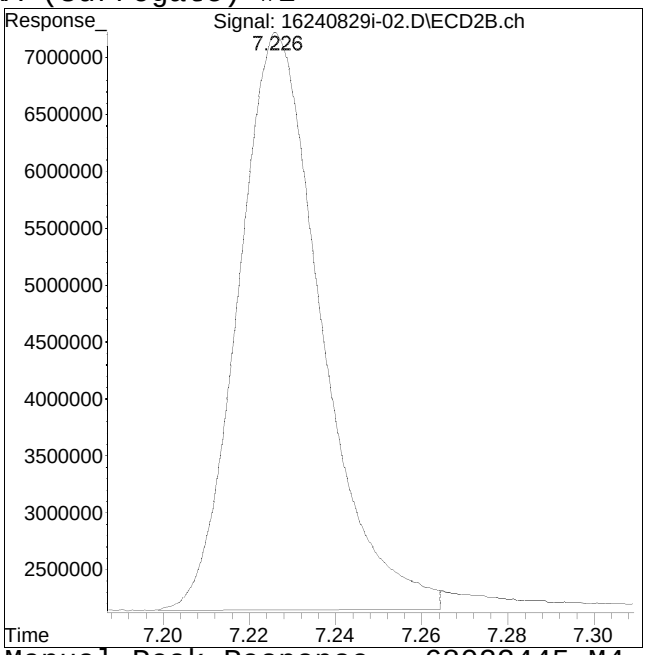
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 69889157



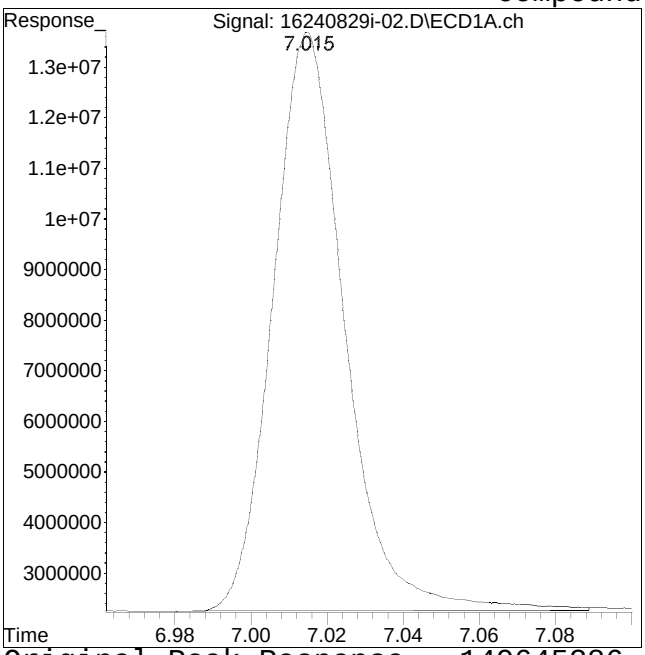
Manual Peak Response = 68022445 M4

M4 = Poor automated baseline construction.

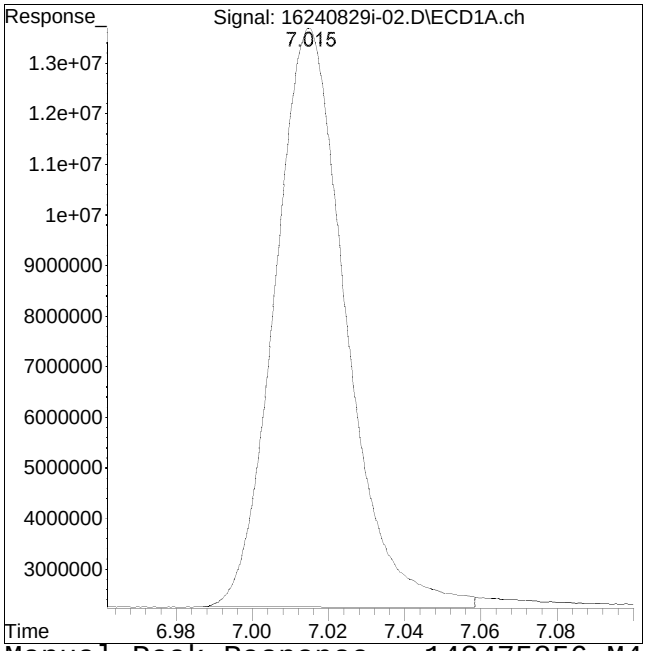
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #4: Dicamba



Original Peak Response = 149645386



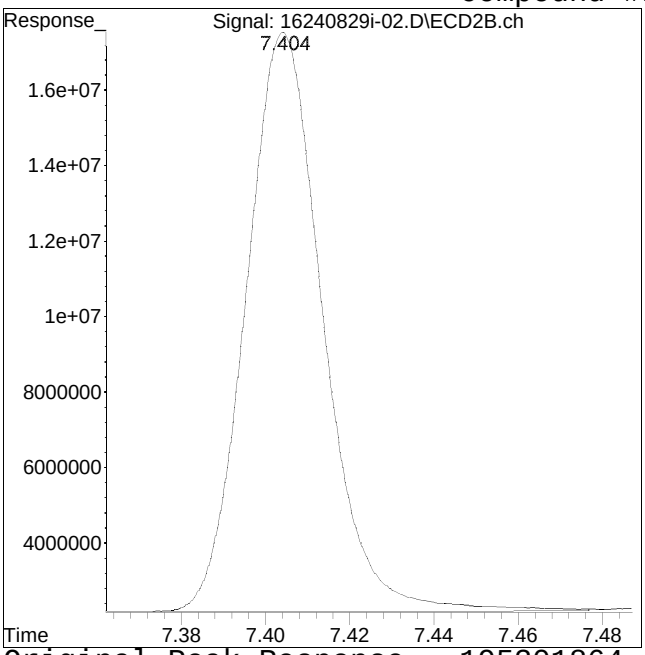
Manual Peak Response = 148475856 M4

M4 = Poor automated baseline construction.

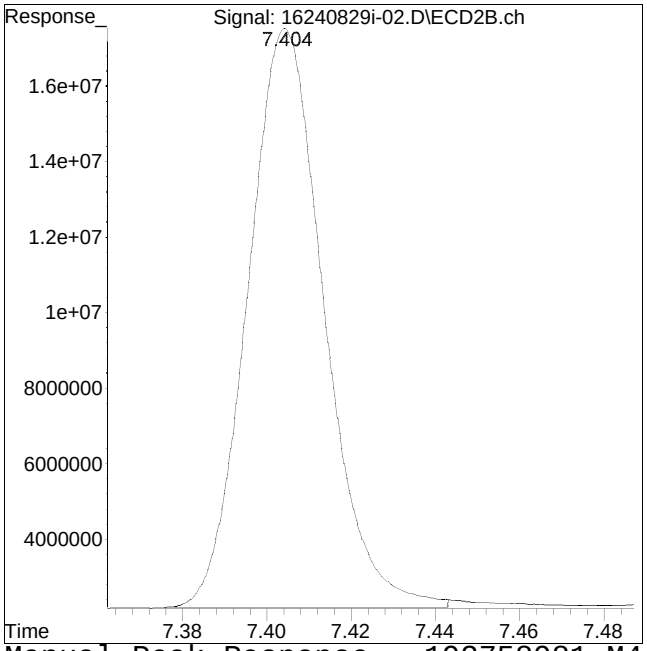
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #17: Dicamba #2



Original Peak Response = 195301864



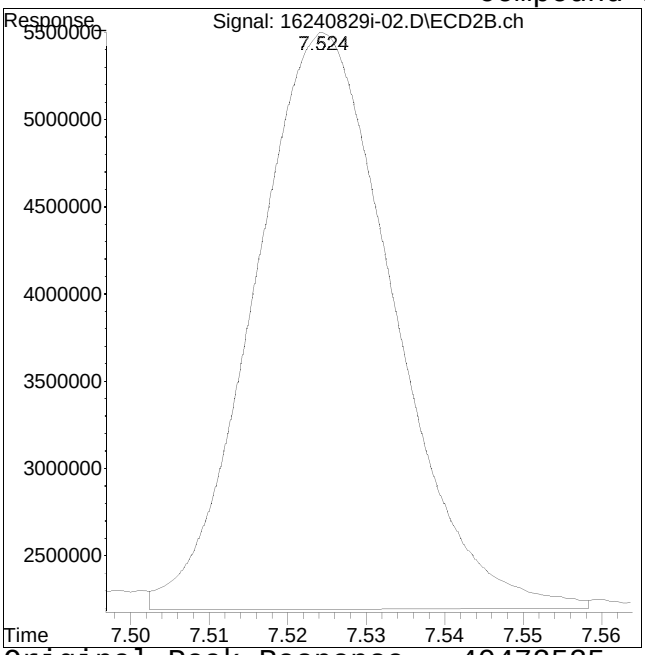
Manual Peak Response = 192758981 M4

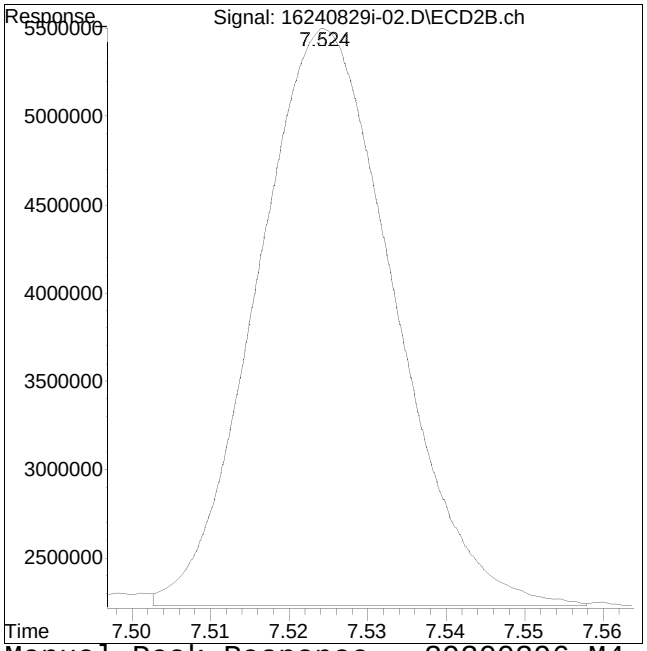
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #18: MCPP #2



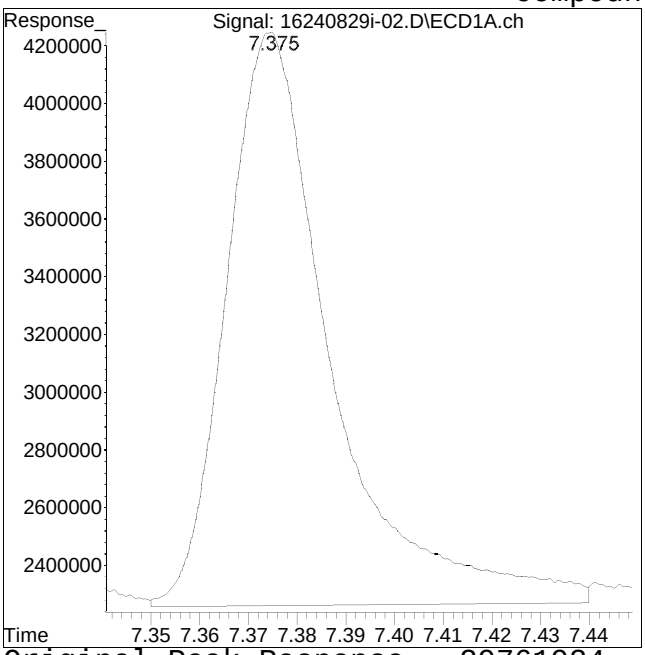


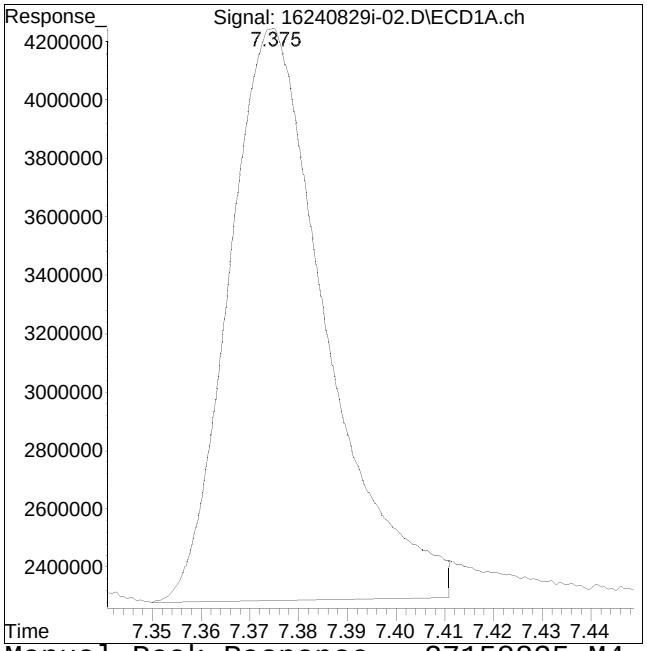
Original Peak Response = 40472535 Manual Peak Response = 39300396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #6: MCPA



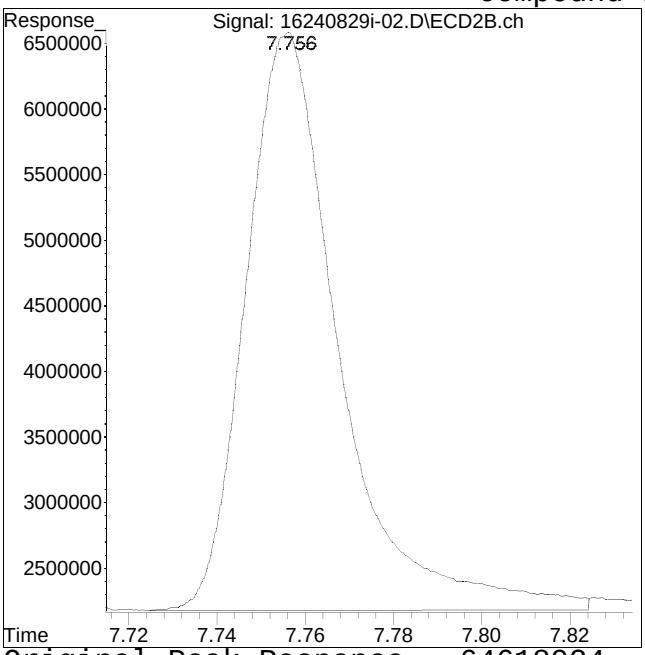


Original Peak Response = 29761924 Manual Peak Response = 27158835 M4
M4 = Poor automated baseline construction.

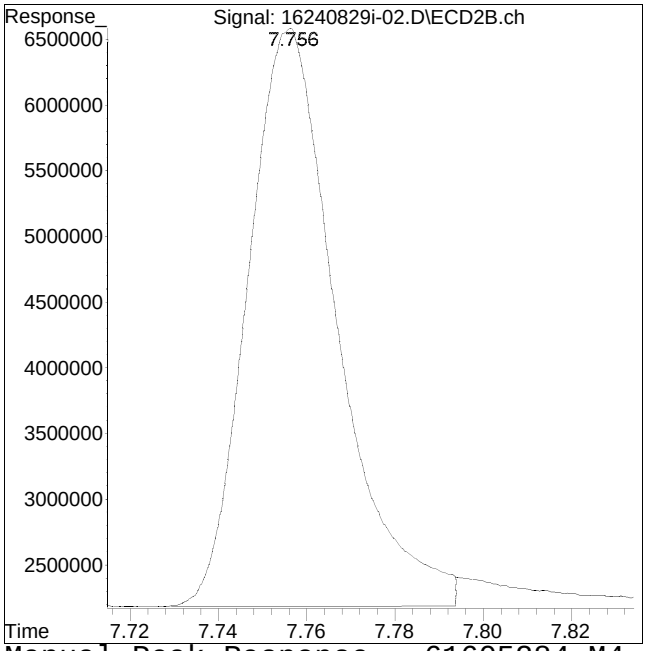
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #19: MCPA #2



Original Peak Response = 64618924



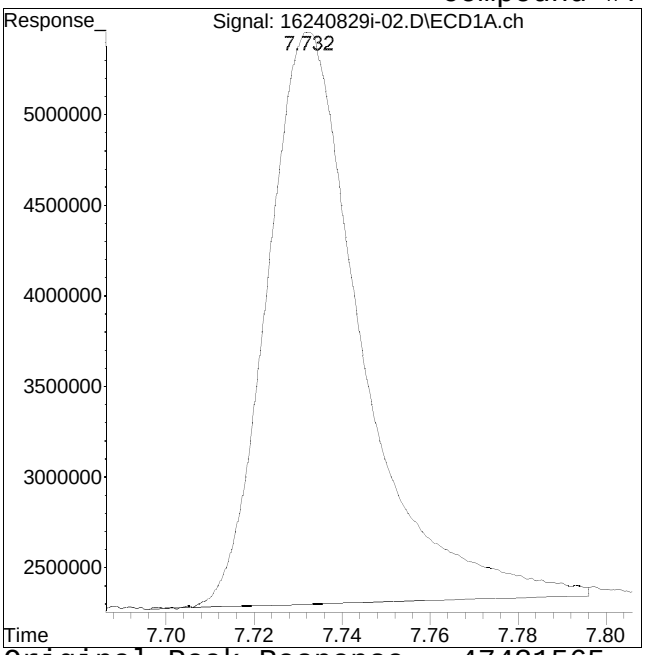
Manual Peak Response = 61605284 M4

M4 = Poor automated baseline construction.

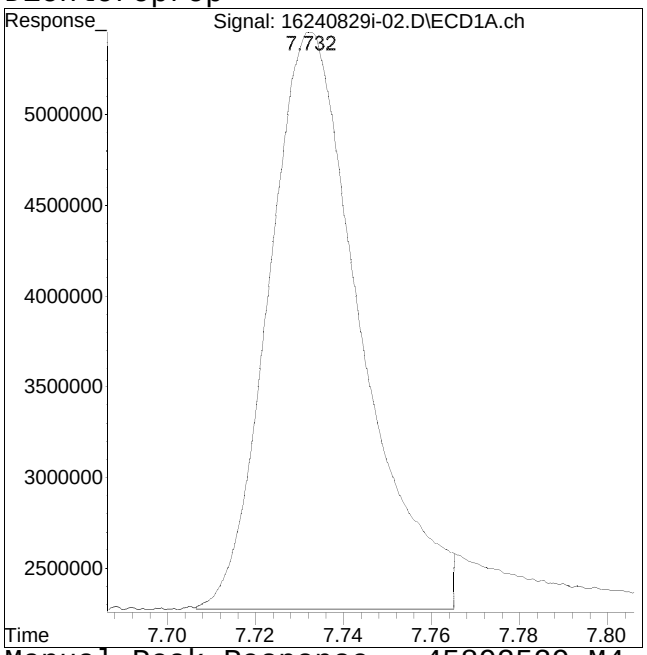
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #7: Dichloroprop



Original Peak Response = 47431565



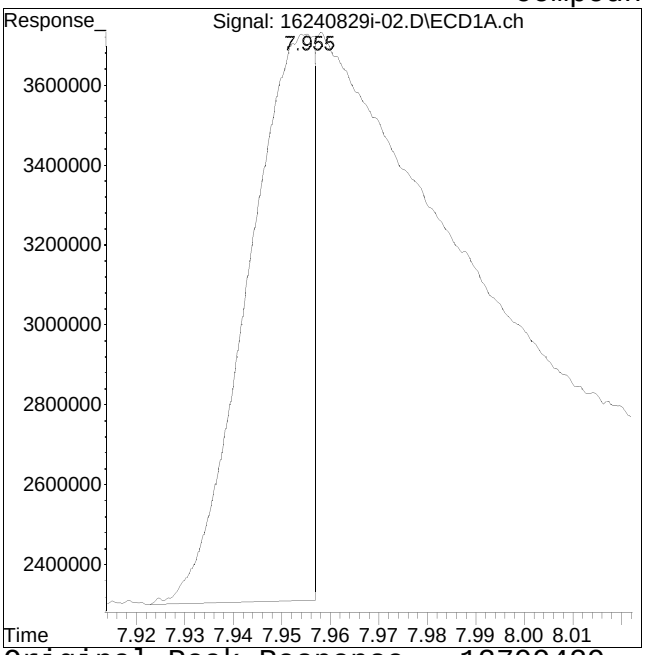
Manual Peak Response = 45892529 M4

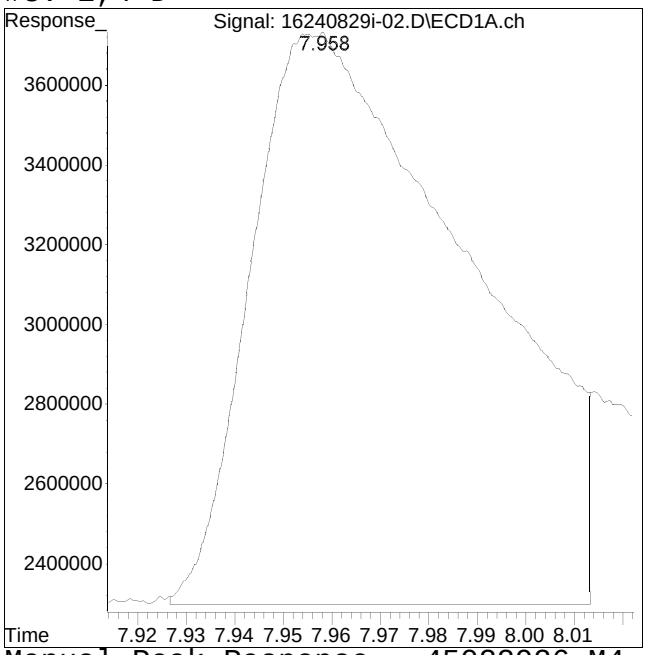
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #8: 2,4-D



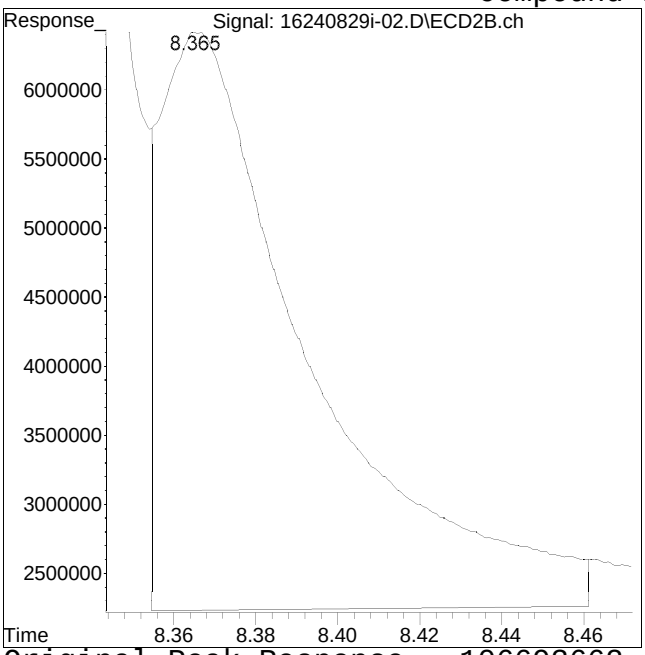


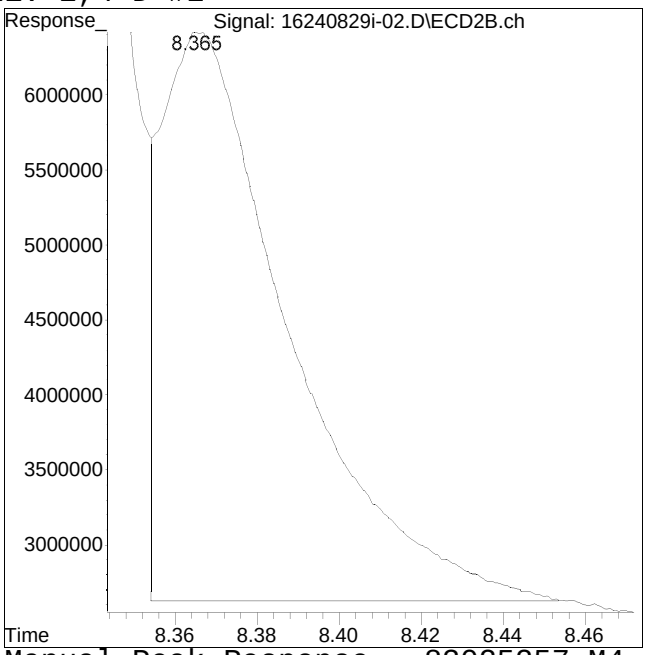
Original Peak Response = 12799429 Manual Peak Response = 45022926 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #21: 2,4-D #2



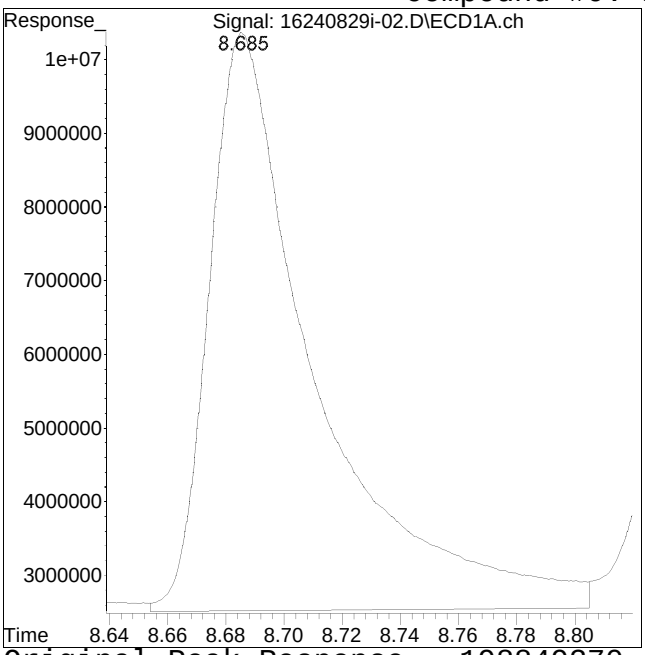


Original Peak Response = 106693662 Manual Peak Response = 83025257 M4
M4 = Poor automated baseline construction.

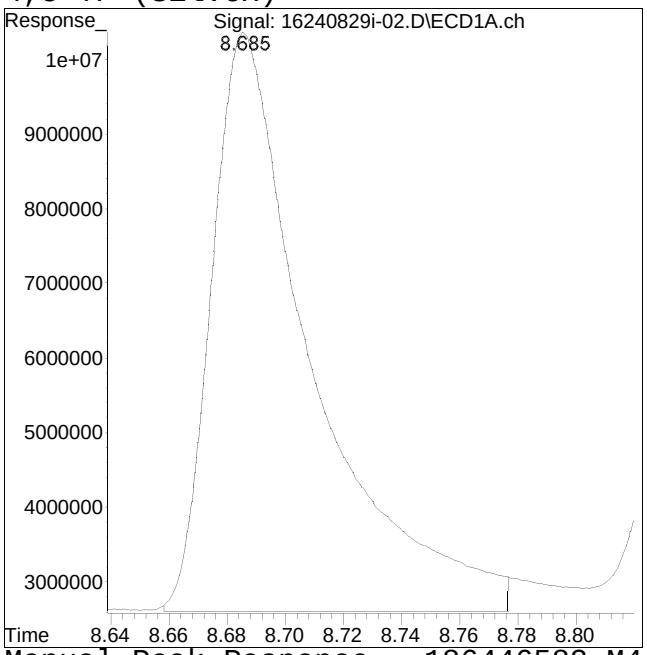
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 198849370



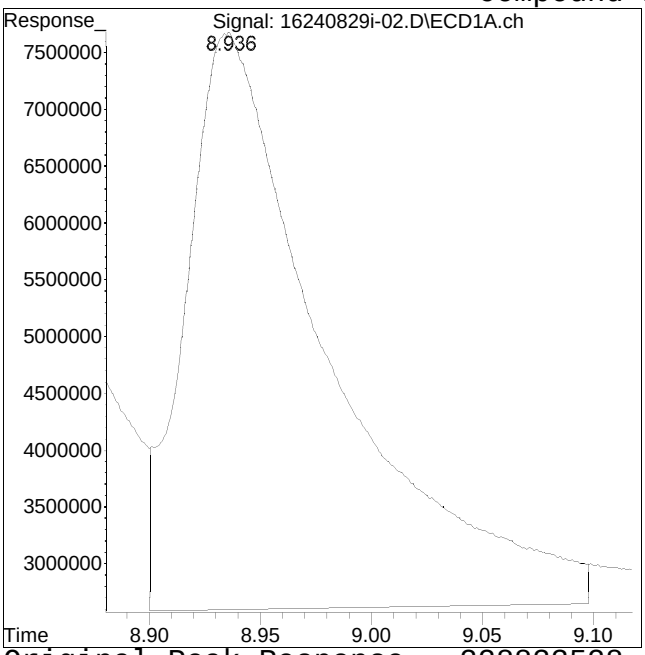
Manual Peak Response = 186446582 M4

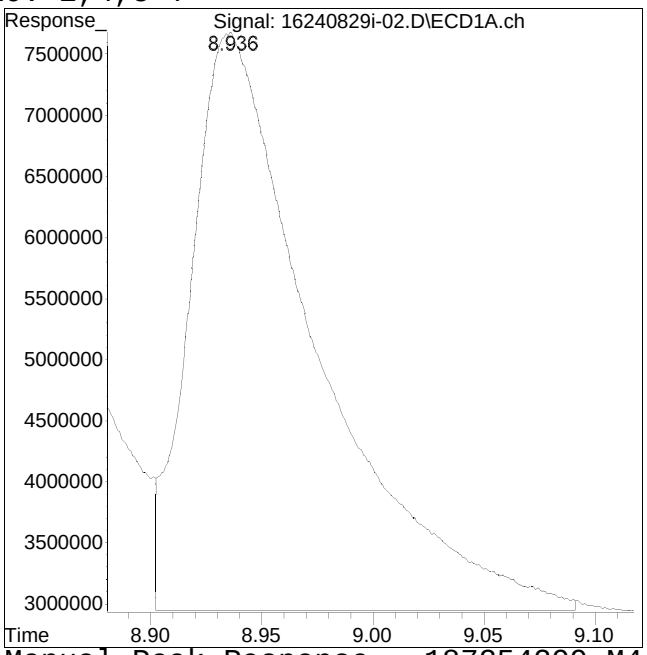
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #10: 2,4,5-T



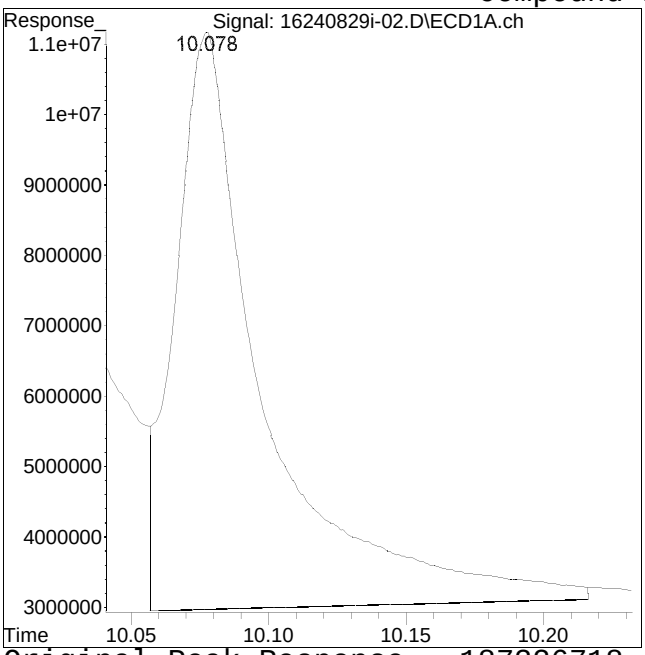


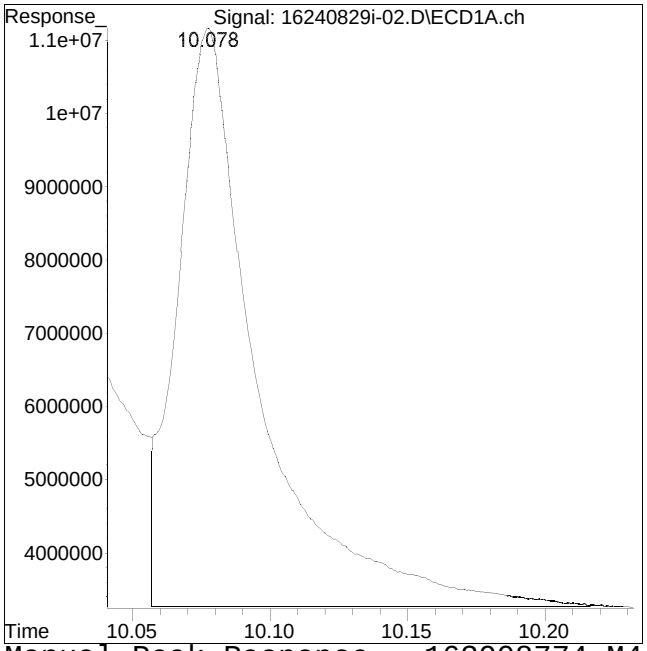
Original Peak Response = 228833528 Manual Peak Response = 187254299 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #12: Dinoseb





Original Peak Response = 187326718 Manual Peak Response = 163908774 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.397	8.319	1166.1E6	1534.5E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.826	7.221	93028703	125.2E6	0.109M4	0.112M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	21.80%#	22.40%#
		Target Compounds						
2)	t	Dalapon	1.822	1.781	94280615	117.0E6	0.102	0.103
4)	t	Dicamba	7.008	7.399	277.8E6	357.9E6	0.103M4	0.106M4
5)	t	MCPP	7.218	7.519	29577370	71815393	9.657	12.232M4
6)	t	MCPA	7.367	7.749	51092551	107.7E6	10.360M4	12.517M4
7)	t	Dichloroprop	7.725	8.073	88925696	117.4E6	0.109M4	0.110M4
8)	t	2,4-D	7.945	8.360	89023409	149.4E6	0.095M4	0.111M4
9)	t	2,4,5-TP (Si	8.677	9.033	356.3E6	510.1E6	0.100M4	0.105M4
10)	t	2,4,5-T	8.921	9.339	364.1E6	347.3E6	0.103M4	0.089
11)	t	2,4-DB	9.349	9.713	47700382	72879889	0.097M4	0.101
12)	t	Dinoseb	10.071	9.920	290.8E6	284.8E6	0.113M4	0.104

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

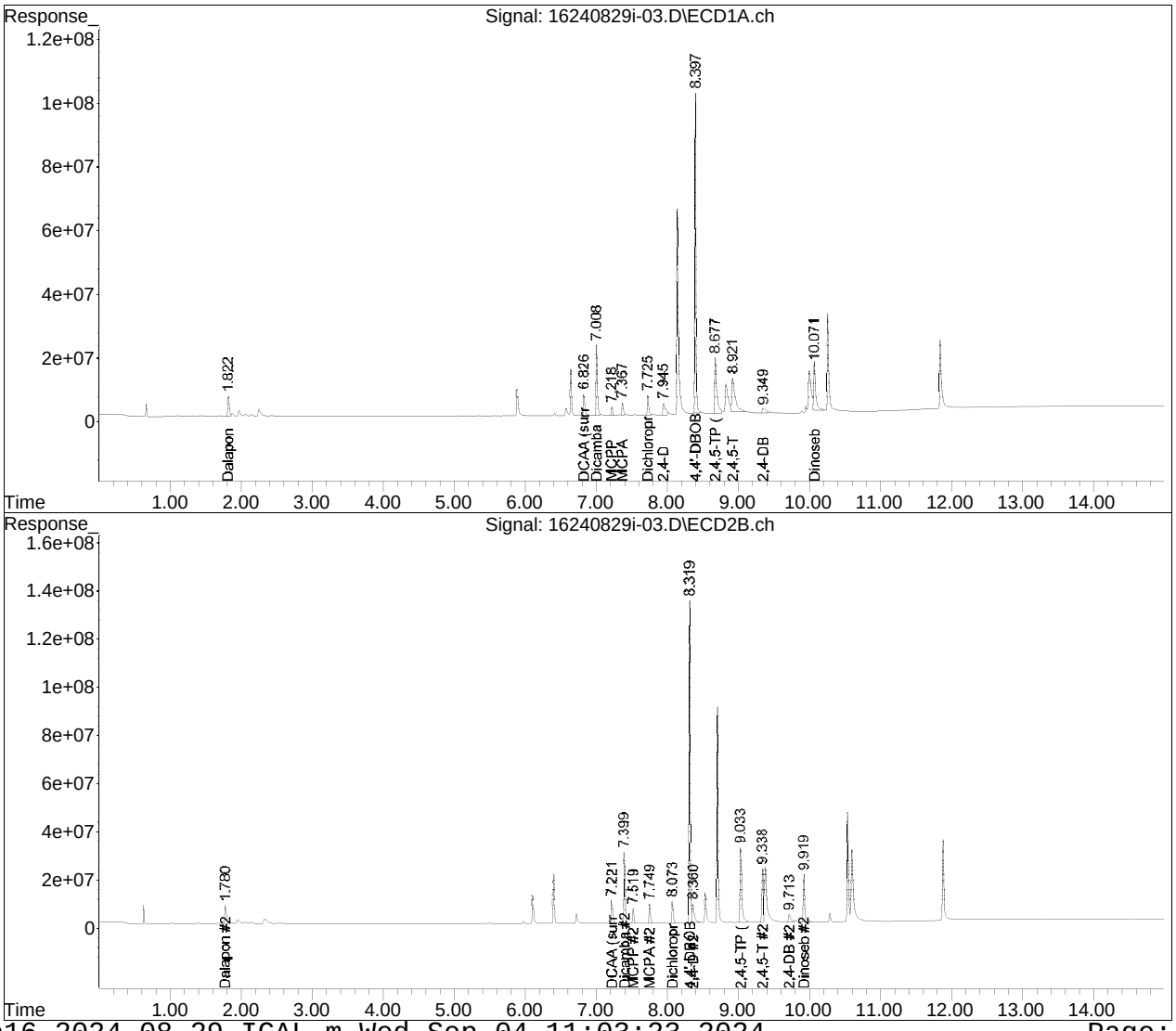
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

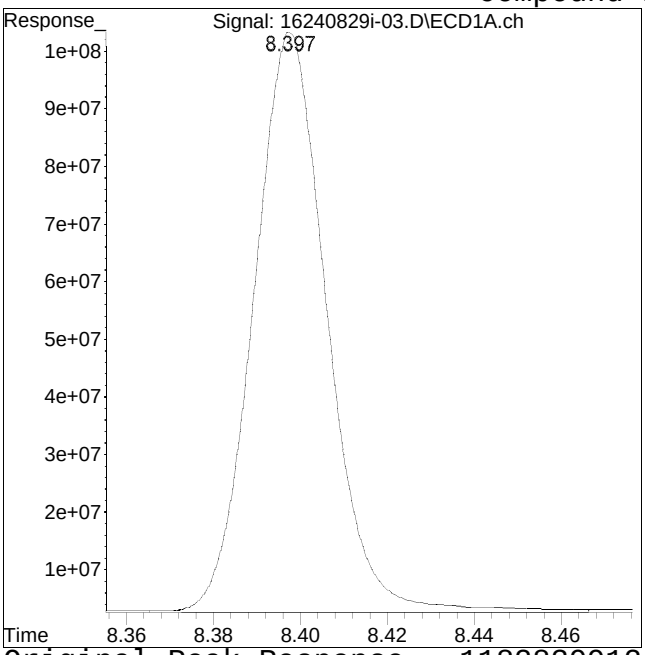
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

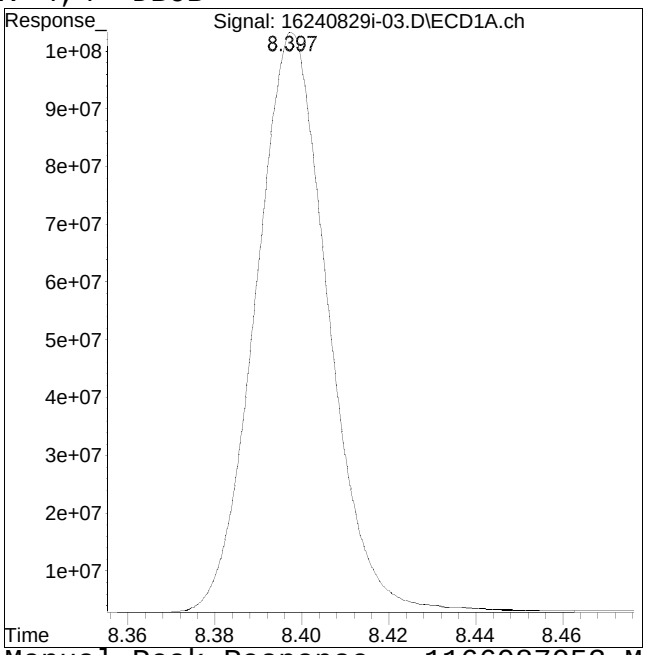


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #1: 4,4'-DBOB



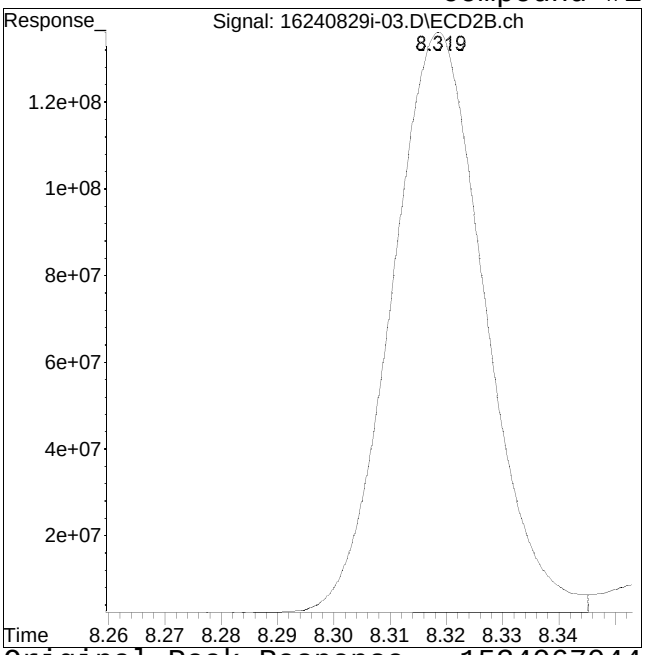


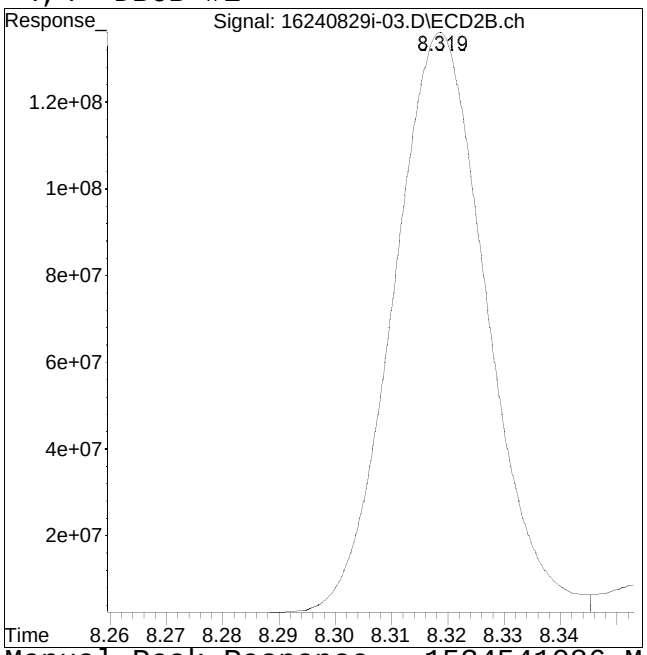
Original Peak Response = 1182839912 Manual Peak Response = 1166087053 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #14: 4,4'-DBOB #2



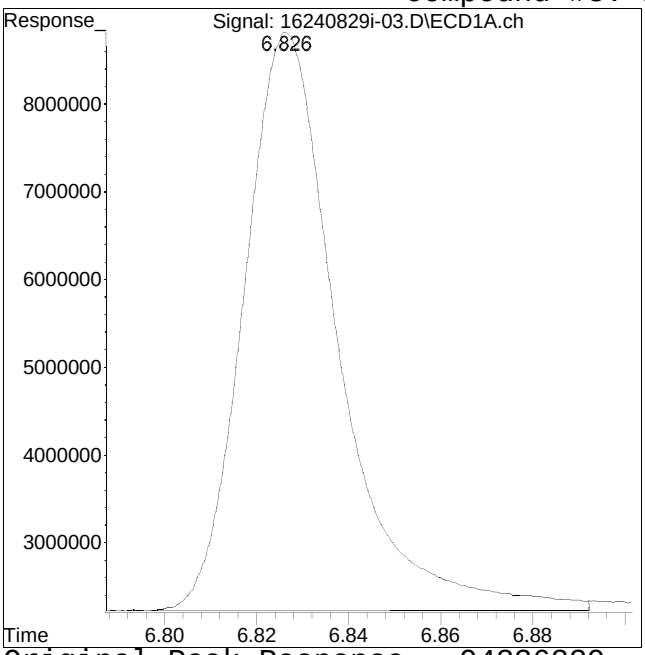


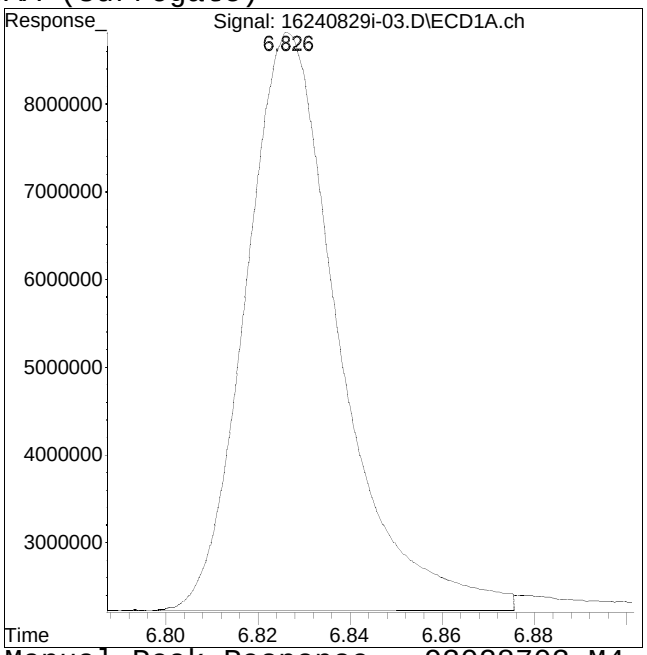
Original Peak Response = 1534067044 Manual Peak Response = 1534541086 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #3: DCAA (surrogate)



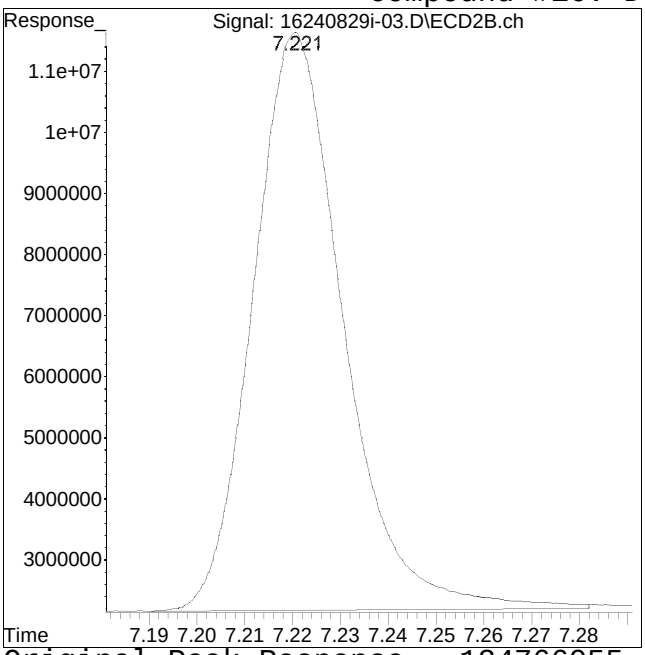


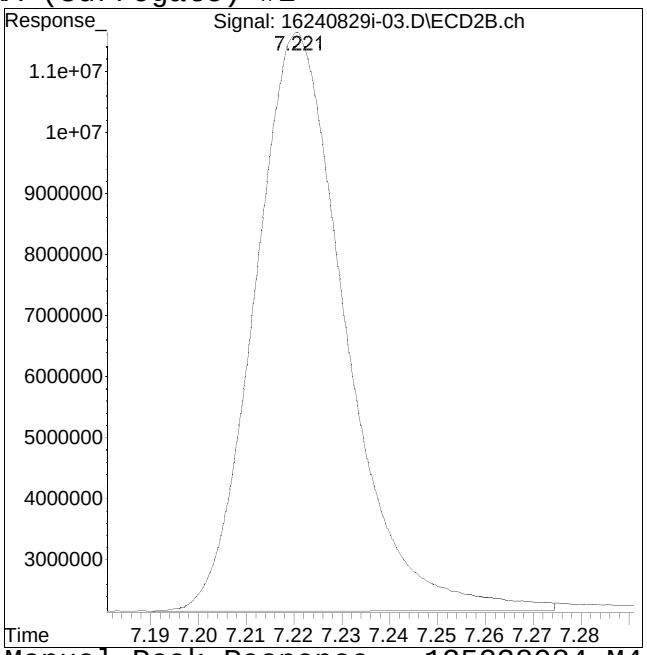
Original Peak Response = 94336239 Manual Peak Response = 93028703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #16: DCAA (surrogate) #2



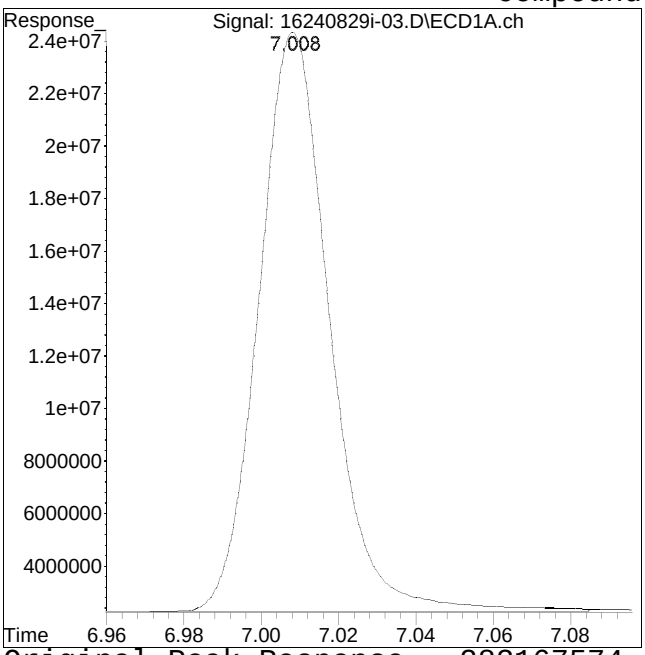


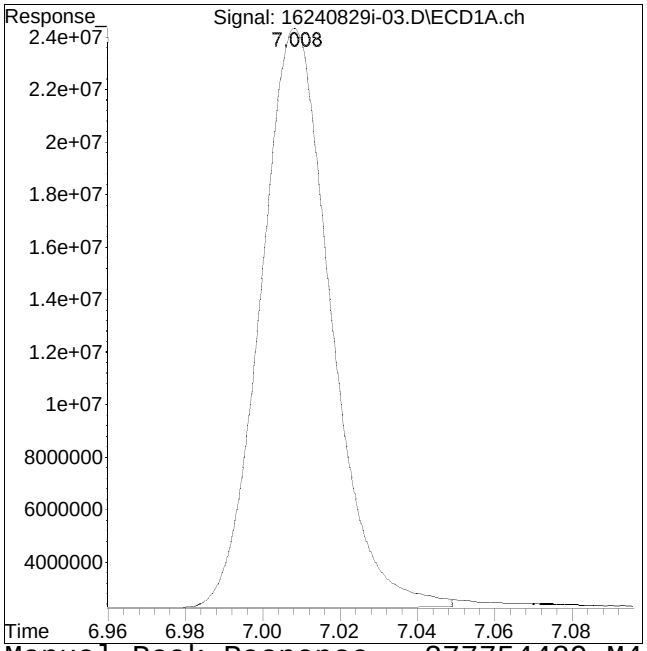
Original Peak Response = 124766955 Manual Peak Response = 125238084 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #4: Dicamba



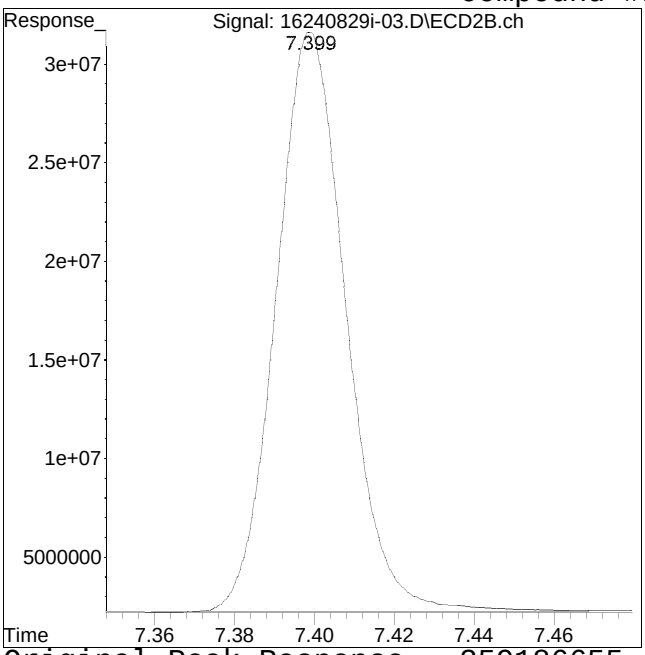


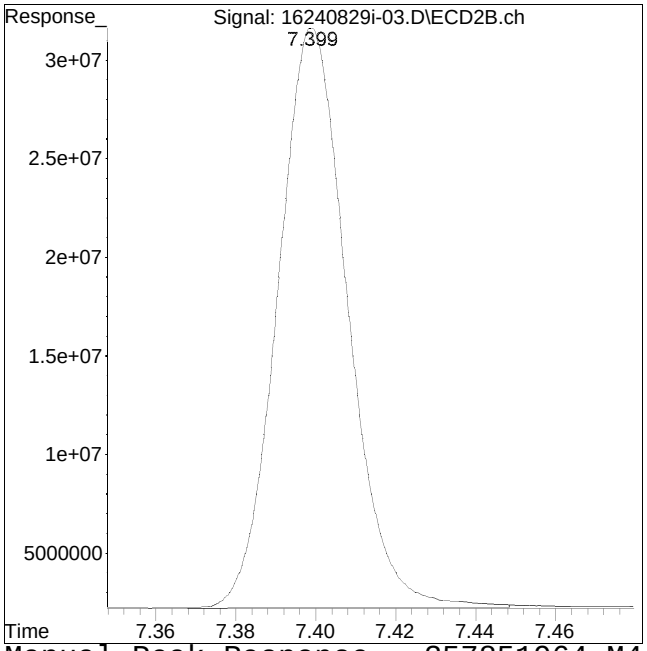
Original Peak Response = 283167574 Manual Peak Response = 277754489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #17: Dicamba #2



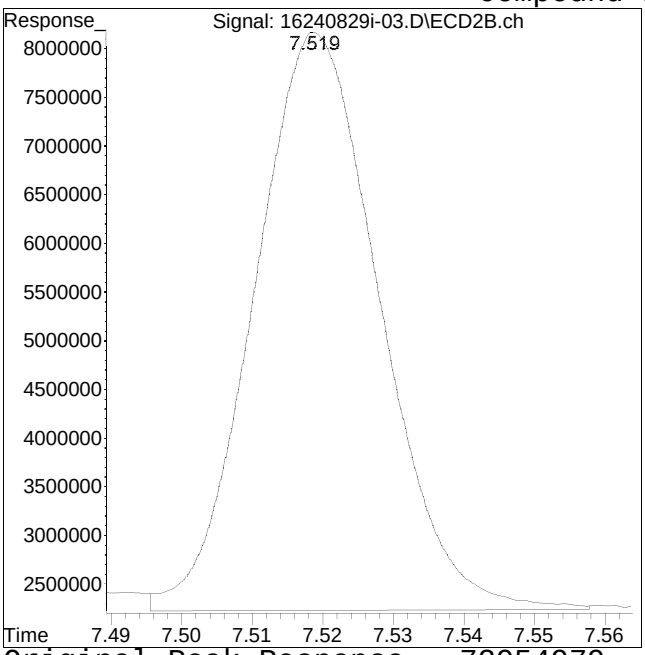


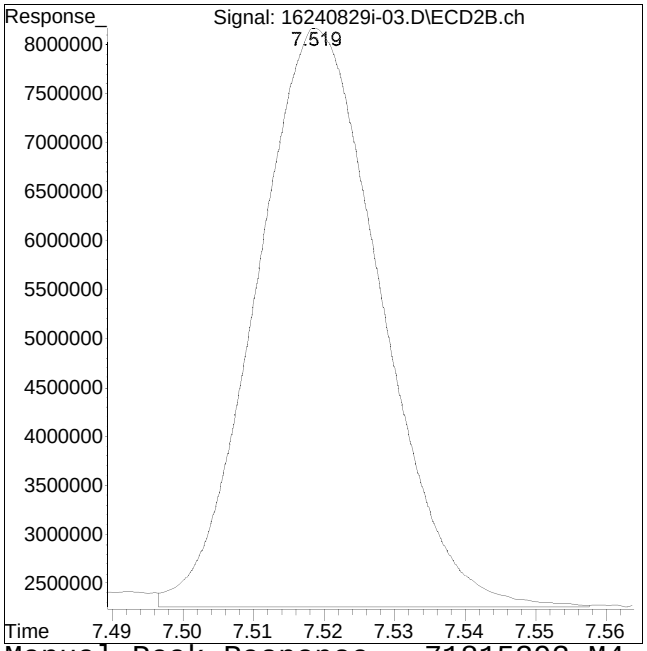
Original Peak Response = 359186655 Manual Peak Response = 357851964 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #18: MCPP #2



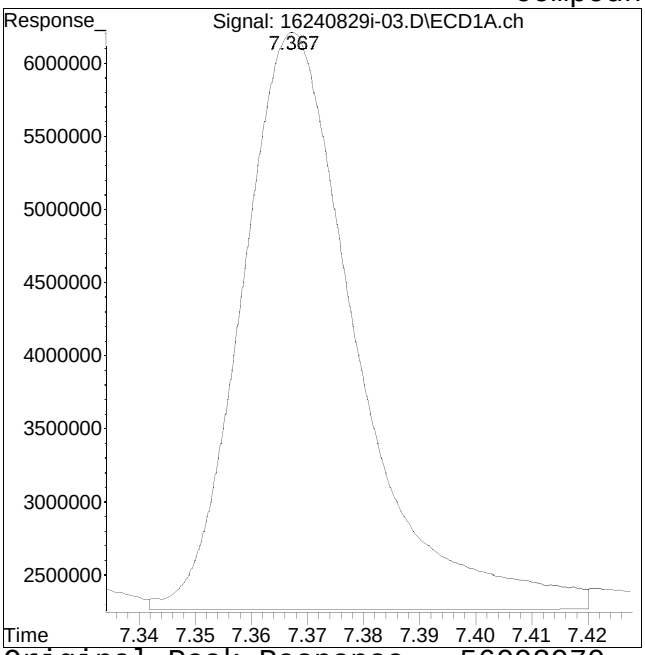


Original Peak Response = 72954979 Manual Peak Response = 71815393 M4
M4 = Poor automated baseline construction.

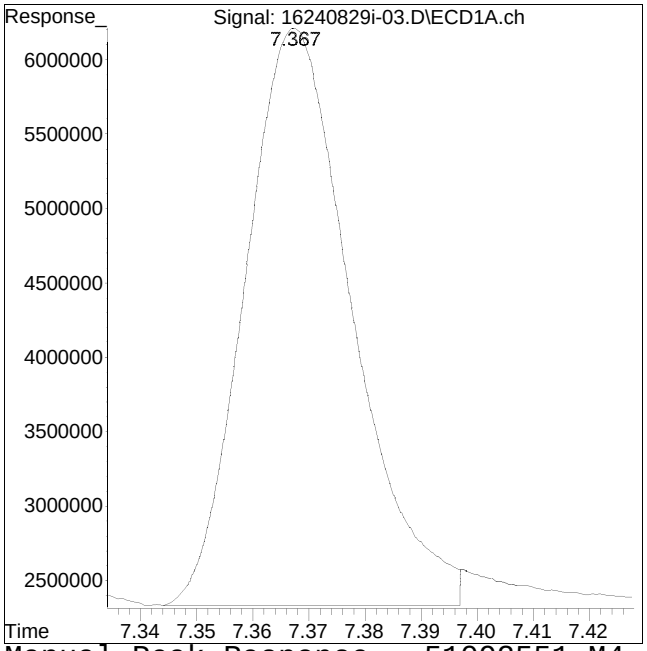
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #6: MCPA



Original Peak Response = 56092970



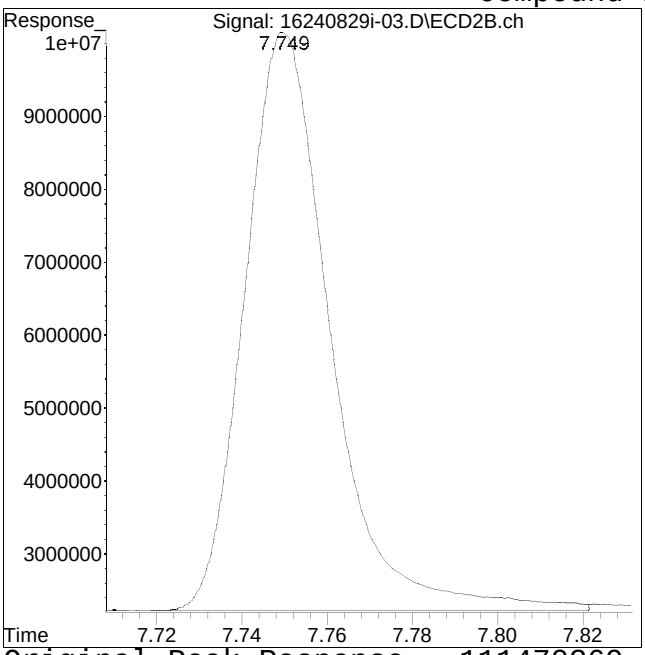
Manual Peak Response = 51092551 M4

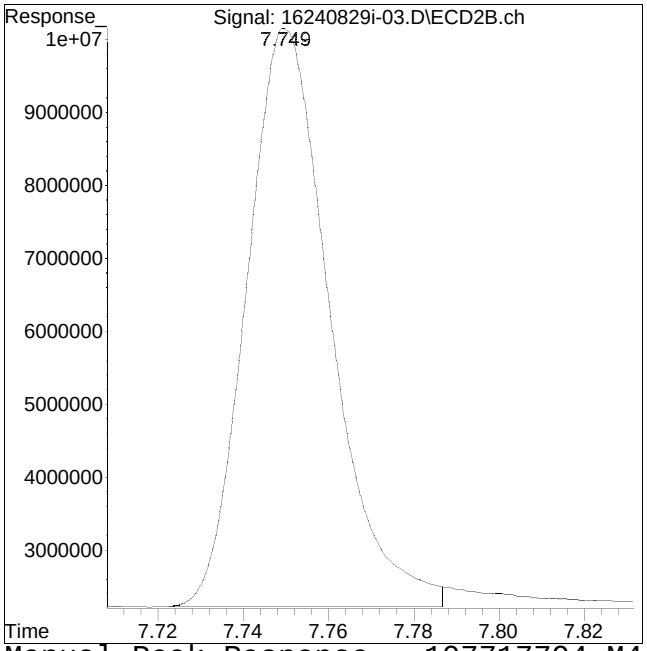
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #19: MCPA #2



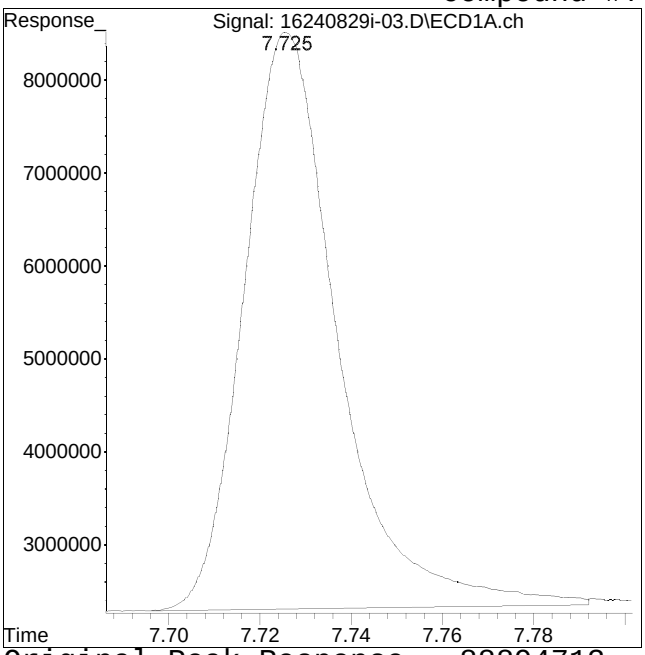


Original Peak Response = 111470369 Manual Peak Response = 107717794 M4
M4 = Poor automated baseline construction.

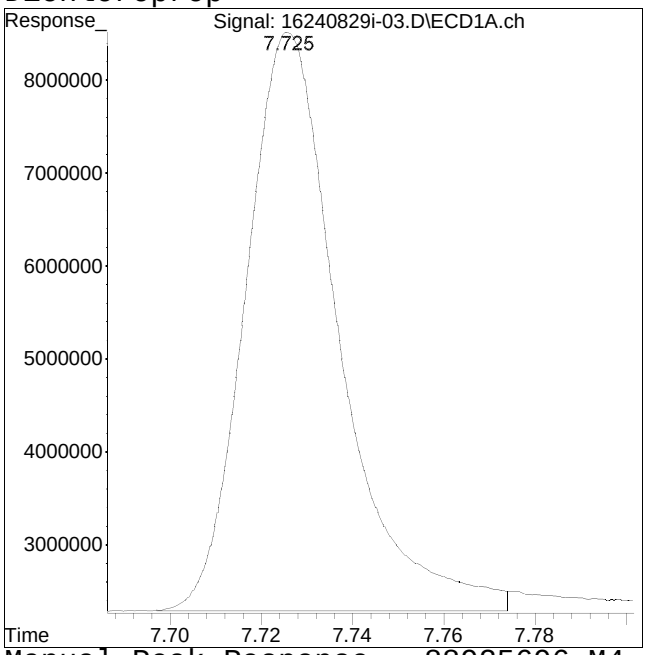
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #7: Dichloroprop



Original Peak Response = 88894713



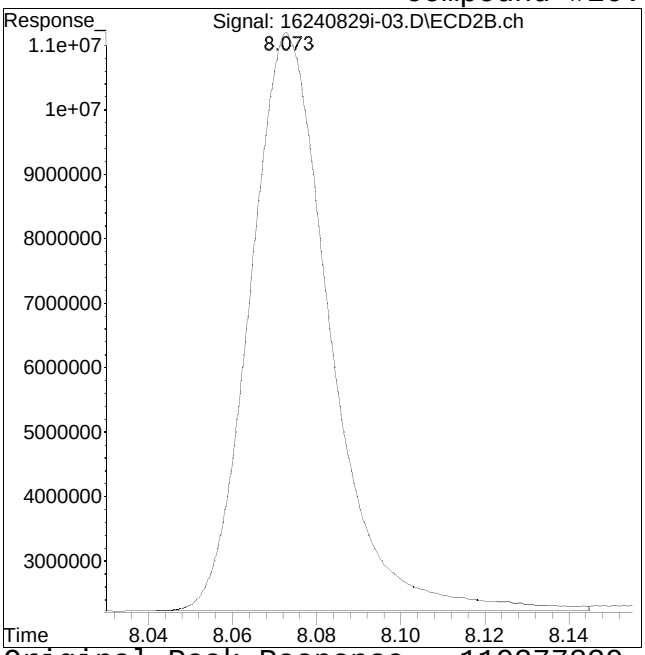
Manual Peak Response = 88925696 M4

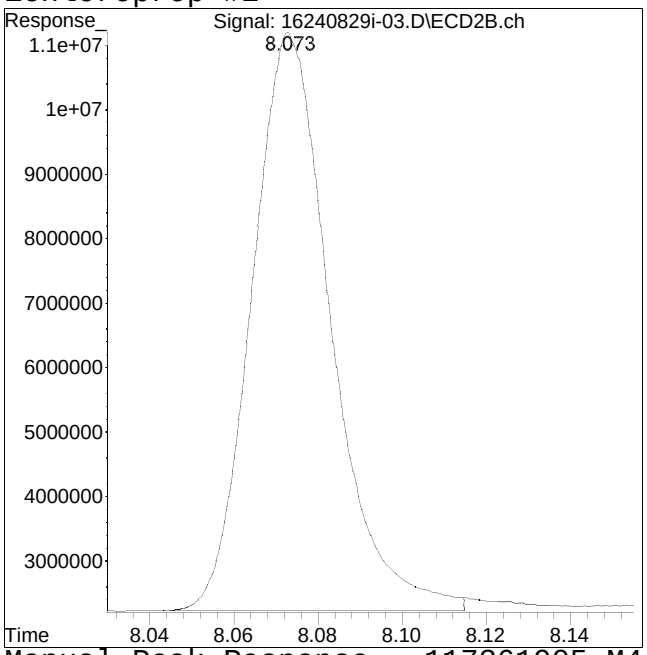
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #20: Dichloroprop #2



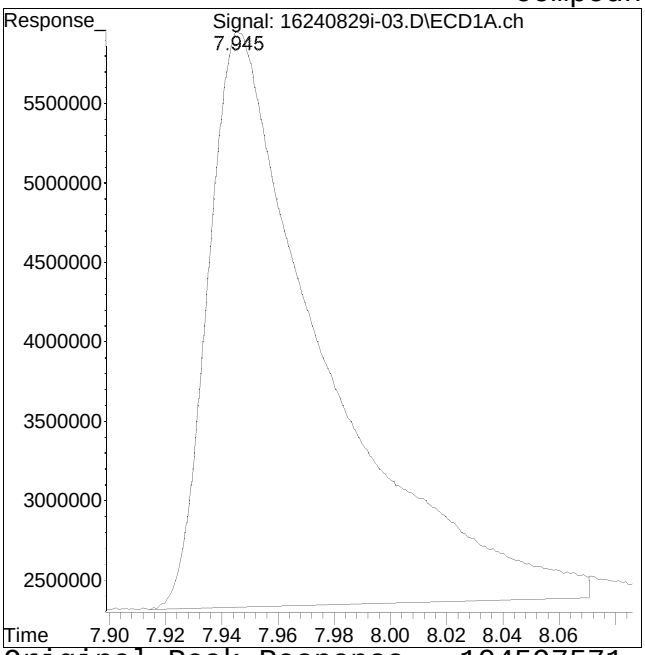


Original Peak Response = 119377339 Manual Peak Response = 117361905 M4
M4 = Poor automated baseline construction.

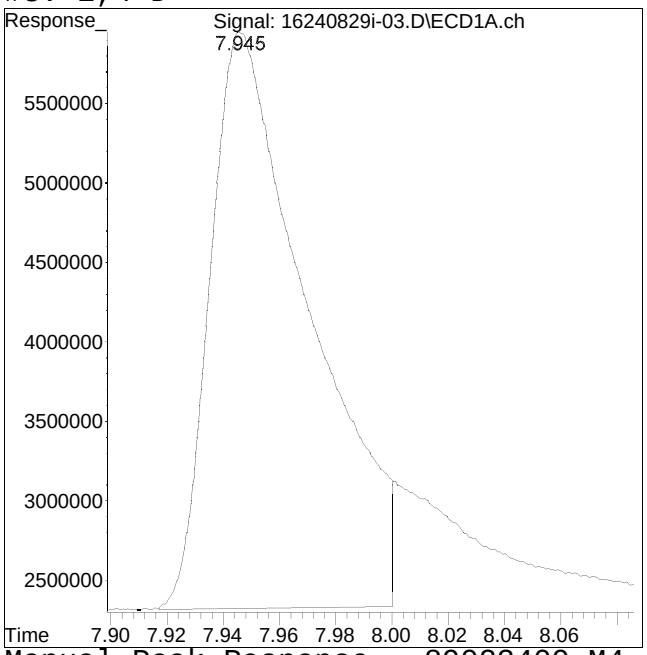
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #8: 2,4-D



Original Peak Response = 104597571

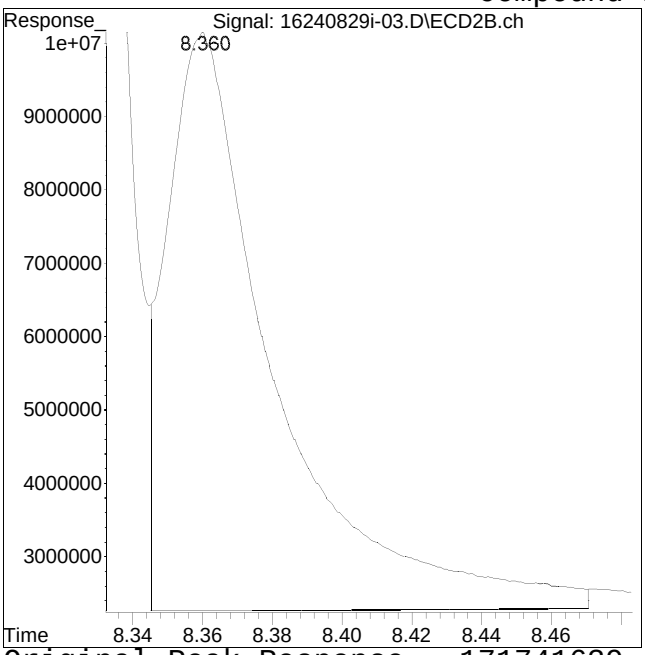


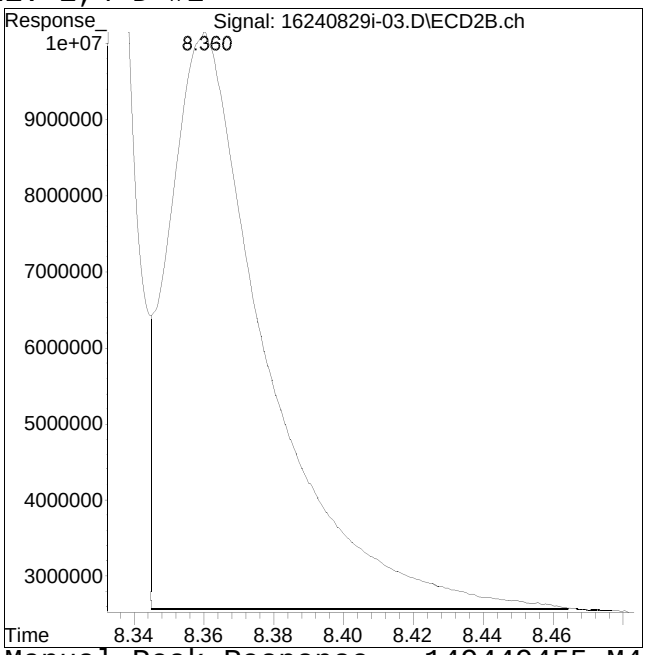
Manual Peak Response = 89023409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #21: 2,4-D #2



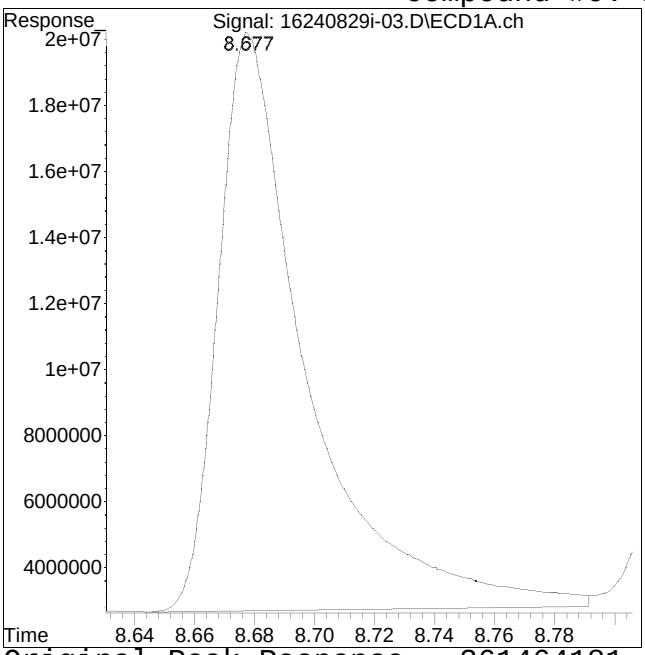


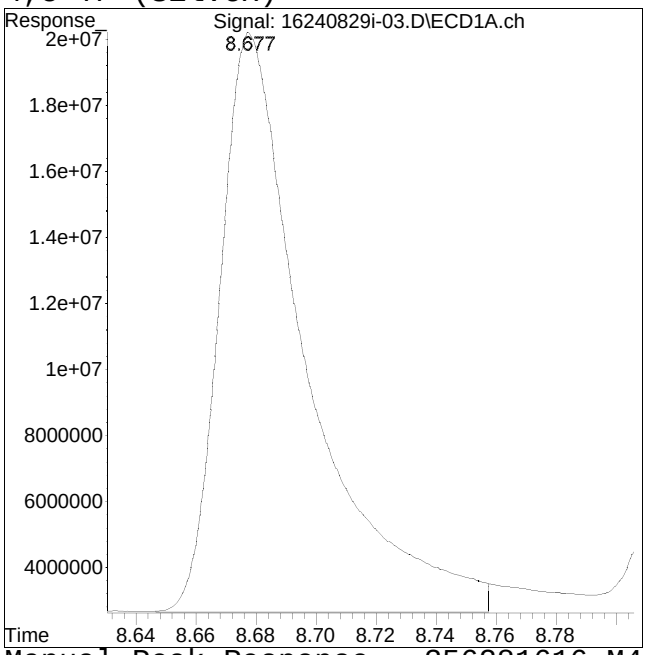
Original Peak Response = 171741639 Manual Peak Response = 149449455 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #9: 2,4,5-TP (Silvex)



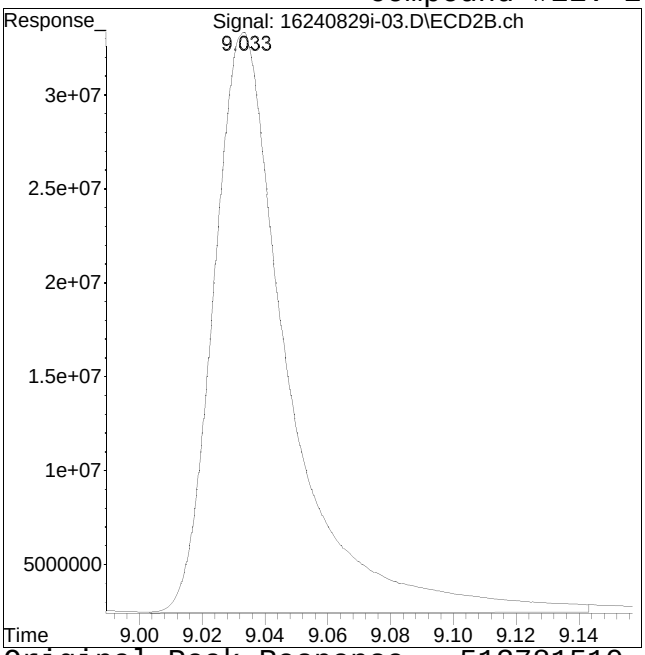


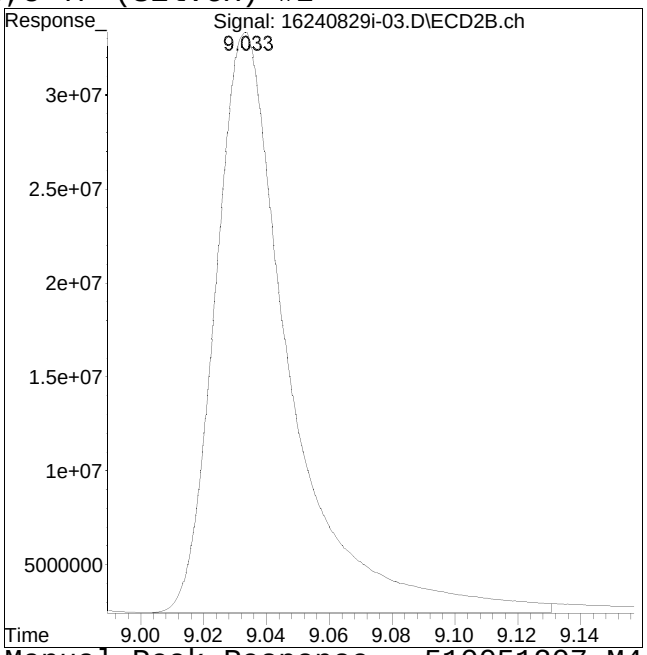
Original Peak Response = 361464181 Manual Peak Response = 356281616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #22: 2,4,5-TP (Silvex) #2



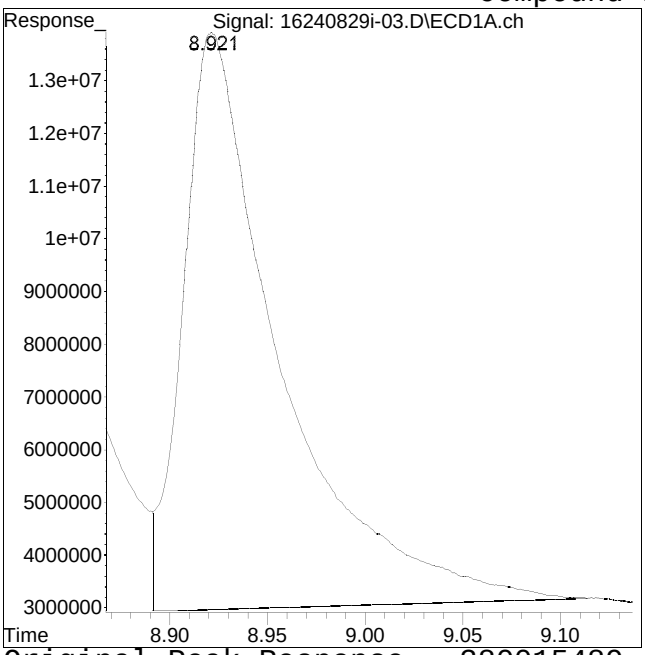


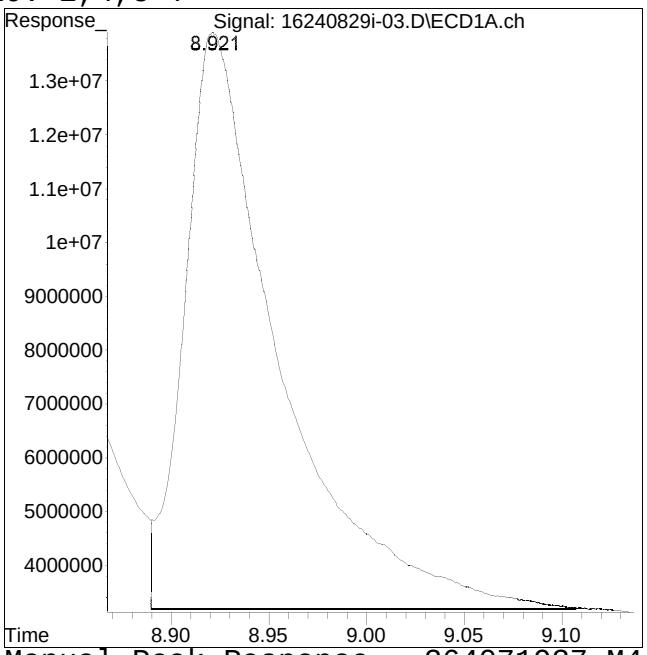
Original Peak Response = 513781510 Manual Peak Response = 510051207 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #10: 2,4,5-T



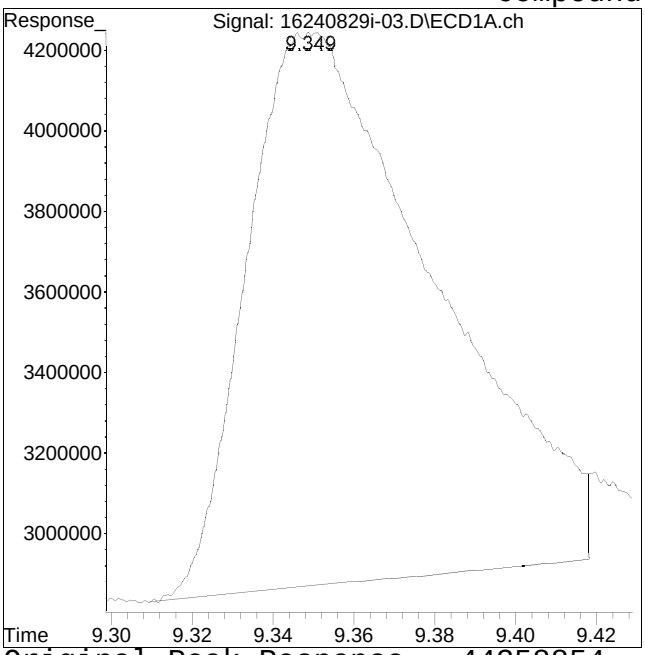


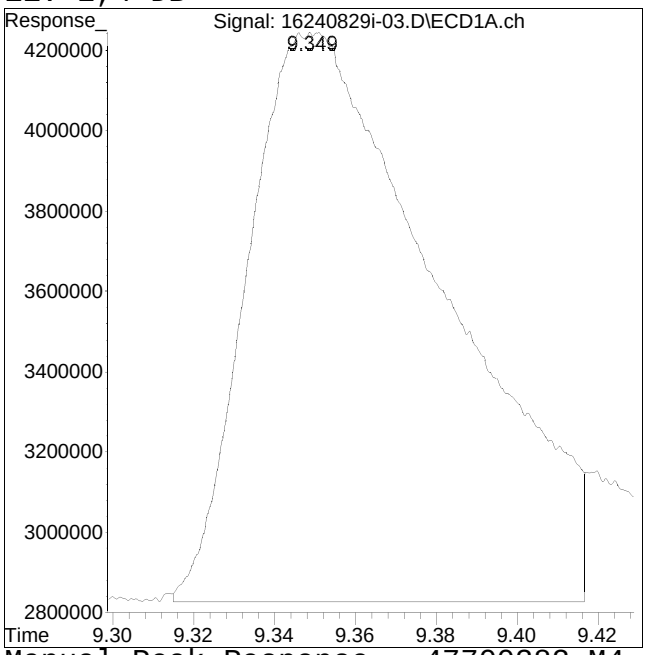
Original Peak Response = 380015489 Manual Peak Response = 364071937 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #11: 2,4-DB



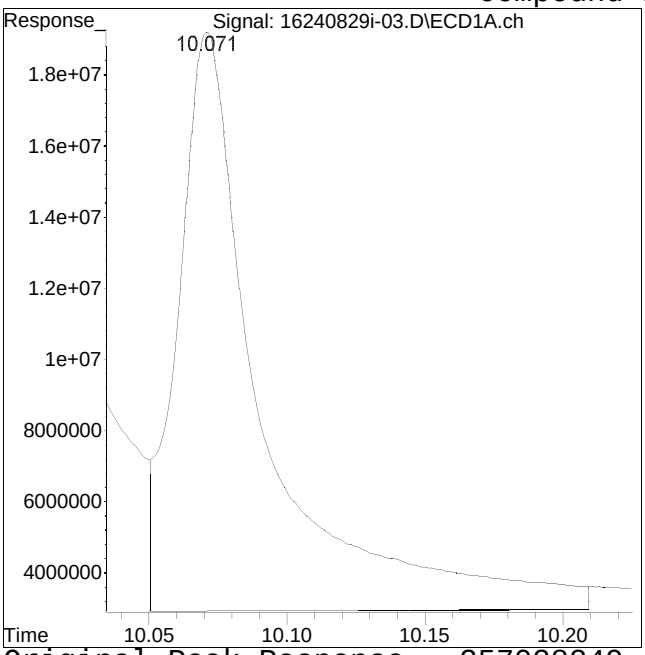


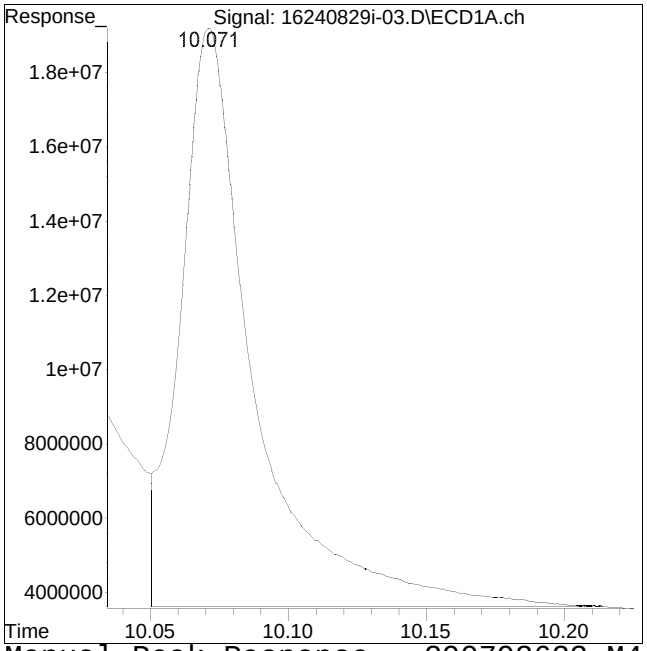
Original Peak Response = 44358854 Manual Peak Response = 47700382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #12: Dinoseb





Original Peak Response = 357028249 Manual Peak Response = 290793623 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.395	8.317	1132.0E6	1478.6E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.823	7.218	167.8E6	220.9E6	0.196M4	0.200
		Spiked Amount	0.500	Range 30 - 150		Recovery =	39.20%	40.00%
		Target Compounds						
2)	t	Dalapon	1.819	1.776	172.5E6	214.1E6	0.183	0.188
4)	t	Dicamba	7.004	7.397	514.2E6	647.3E6	0.192M4	0.196M4
5)	t	MCPP	7.215	7.517	56709720	121.9E6	18.848M4	20.546M4
6)	t	MCPA	7.364	7.748	96146427	178.2E6	19.320M4	20.548M4
7)	t	Dichloroprop	7.722	8.071	160.4E6	209.7E6	0.196M4	0.200
8)	t	2,4-D	7.941	8.355	178.4E6	262.5E6	0.190	0.201M4
9)	t	2,4,5-TP (Si	8.674	9.029	684.2E6	940.7E6	0.195M4	0.199M4
10)	t	2,4,5-T	8.910	9.333	673.8E6	686.6E6	0.197M4	0.190M4
11)	t	2,4-DB	9.335	9.707	95308933	137.2E6	0.197	0.199
12)	t	Dinoseb	10.067	9.917	596.6E6	523.4E6	0.235M4	0.197M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

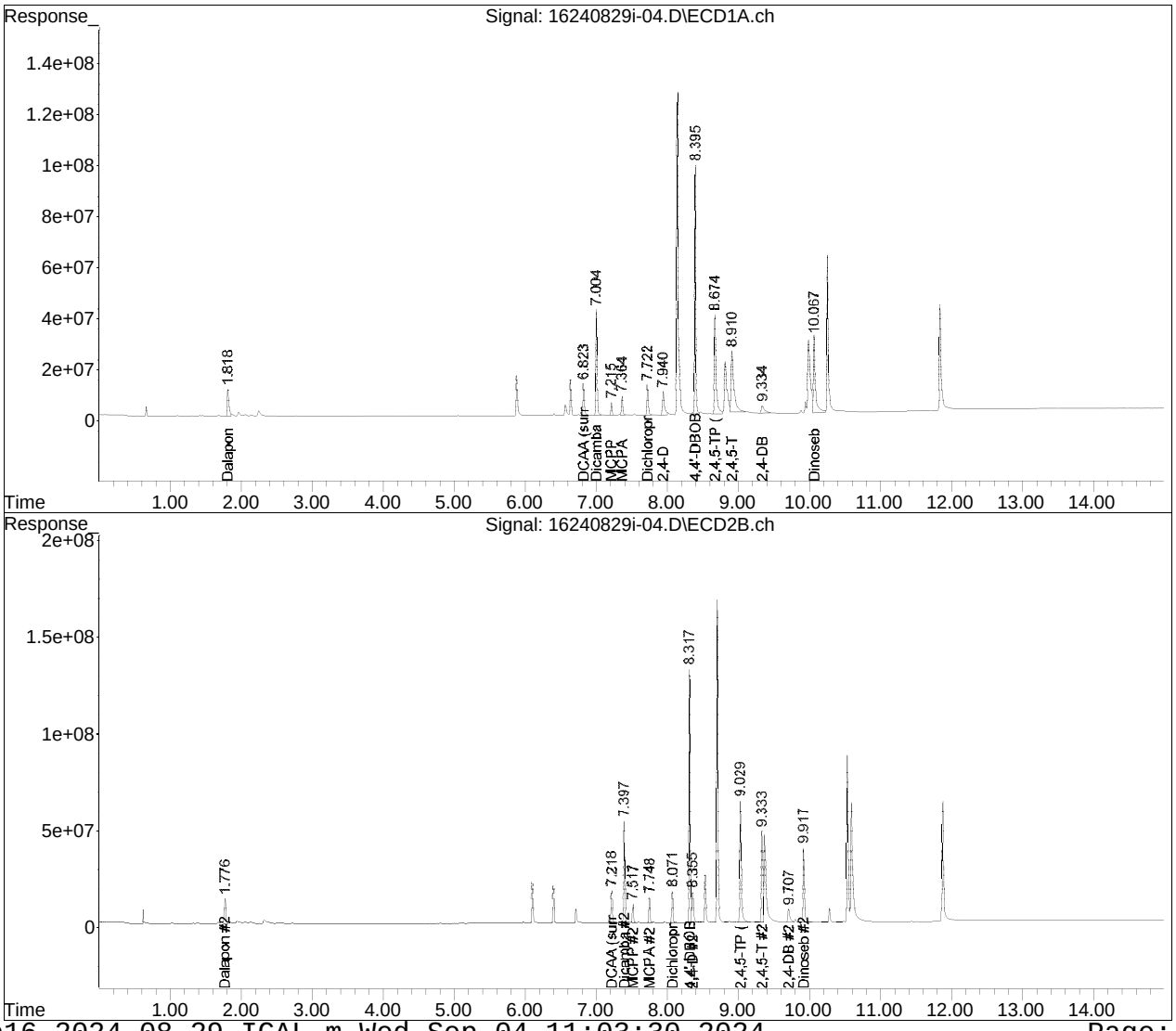
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

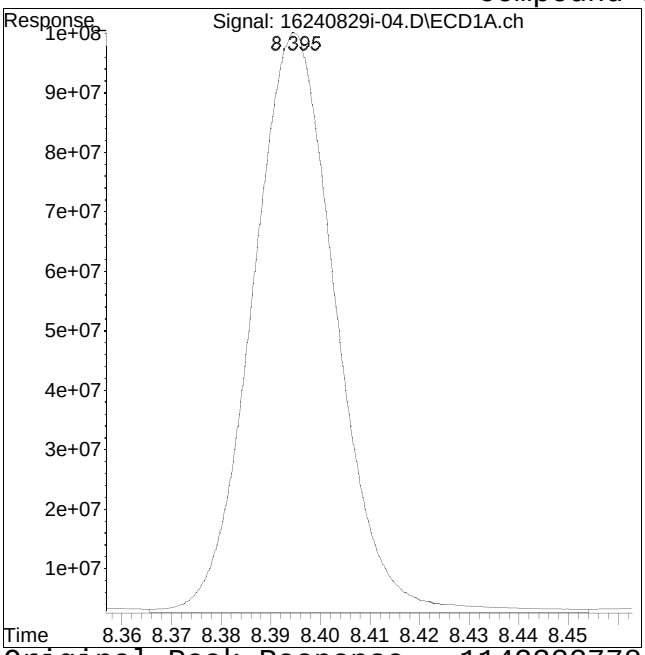
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

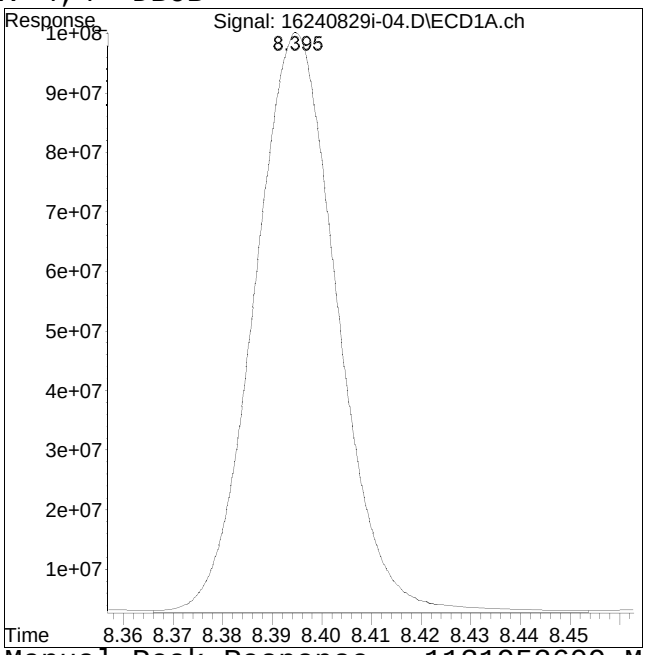


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #1: 4,4'-DBOB



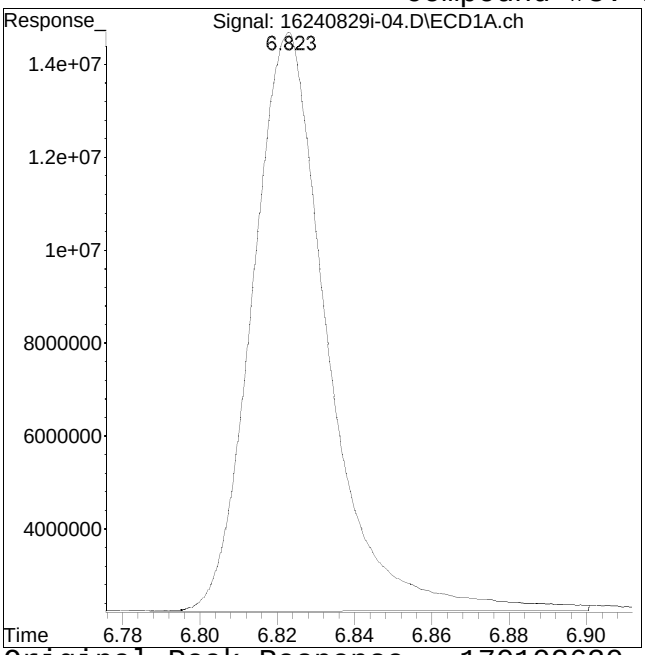


Original Peak Response = 1142322778 Manual Peak Response = 1131952609 M4
M4 = Poor automated baseline construction.

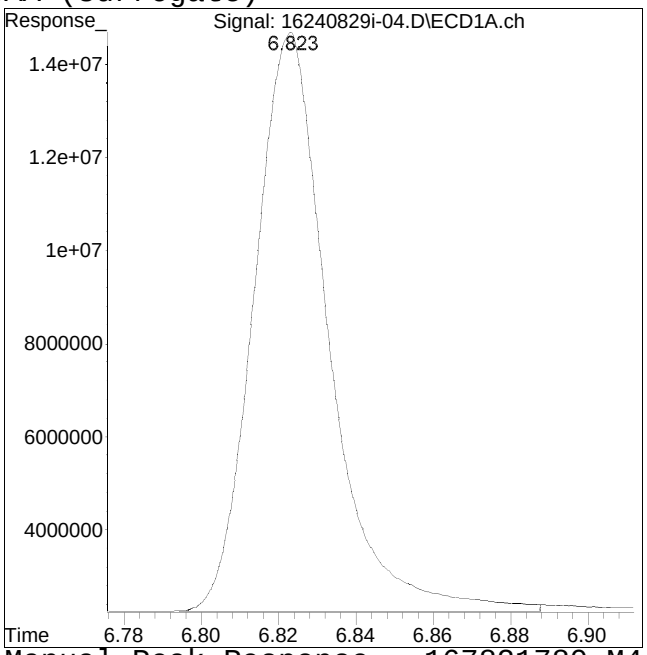
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #3: DCAA (surrogate)



Original Peak Response = 170102630



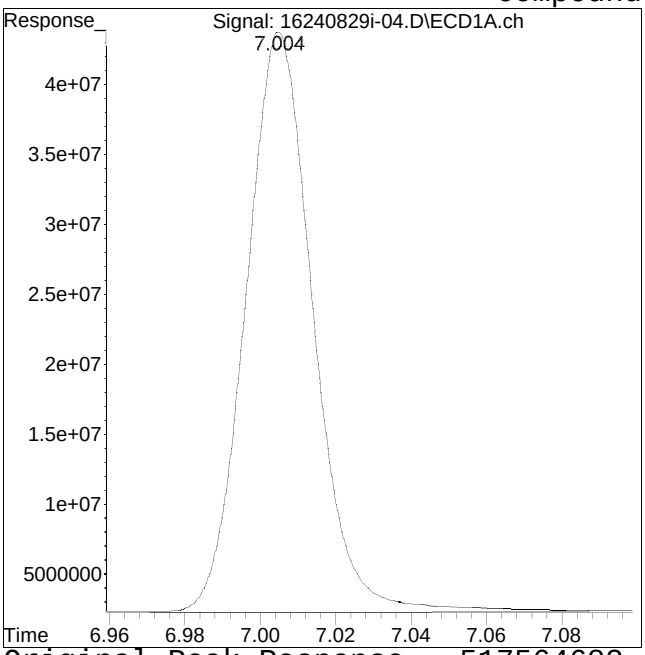
Manual Peak Response = 167821780 M4

M4 = Poor automated baseline construction.

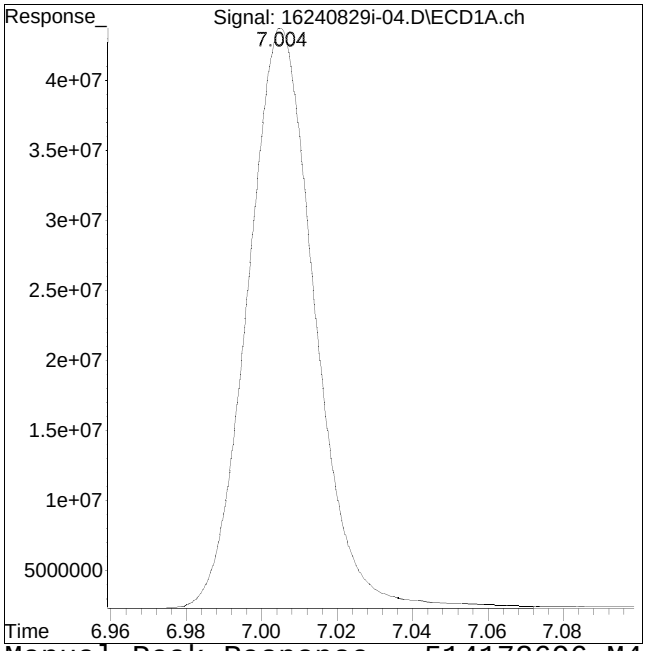
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #4: Dicamba



Original Peak Response = 517564683



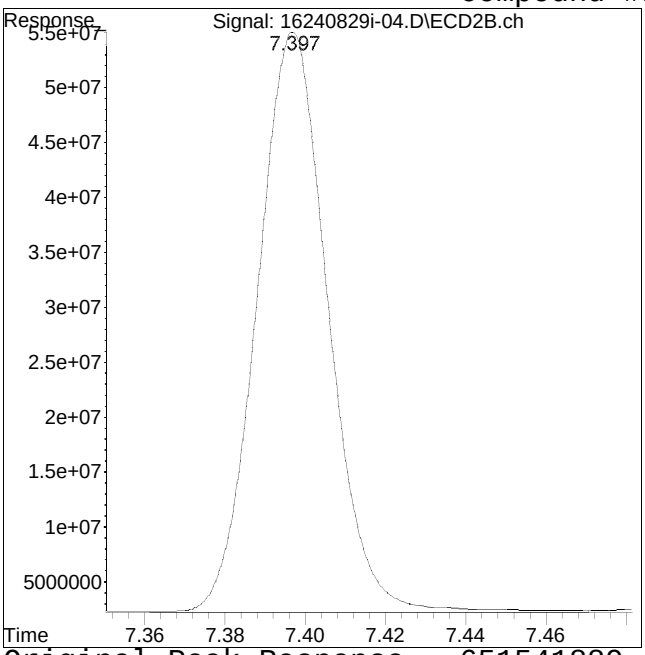
Manual Peak Response = 514172696 M4

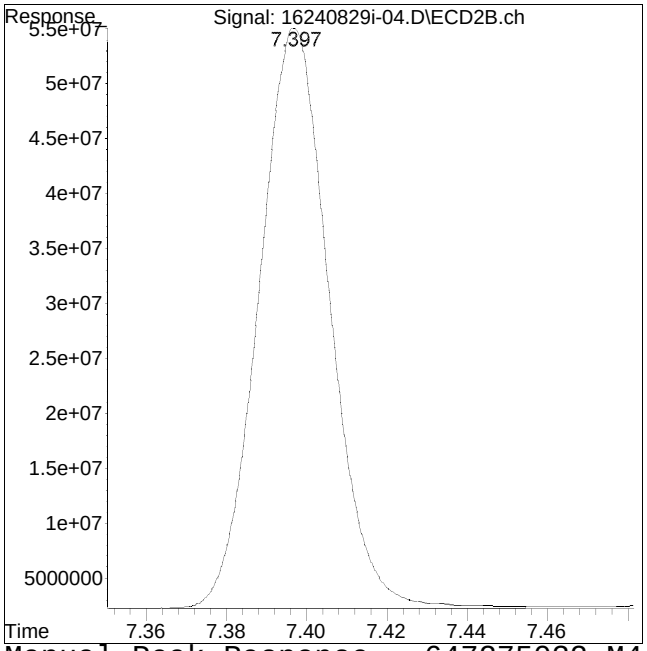
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #17: Dicamba #2



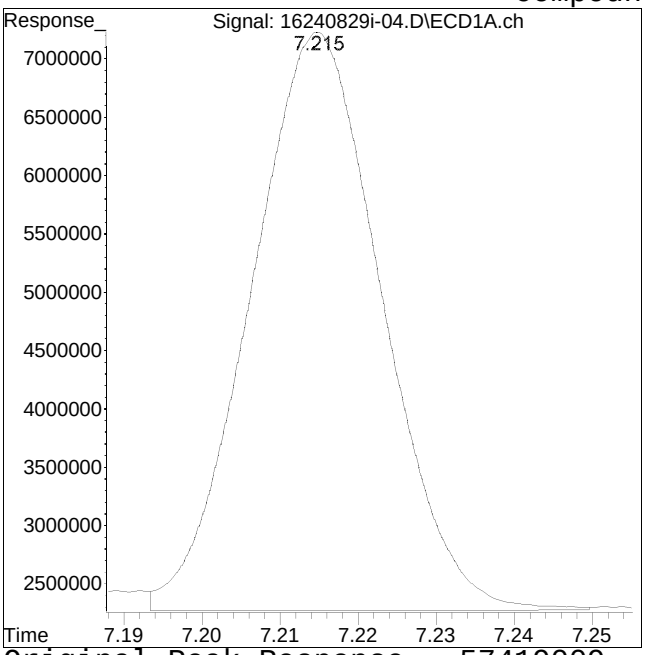


Original Peak Response = 651541889 Manual Peak Response = 647275032 M4
M4 = Poor automated baseline construction.

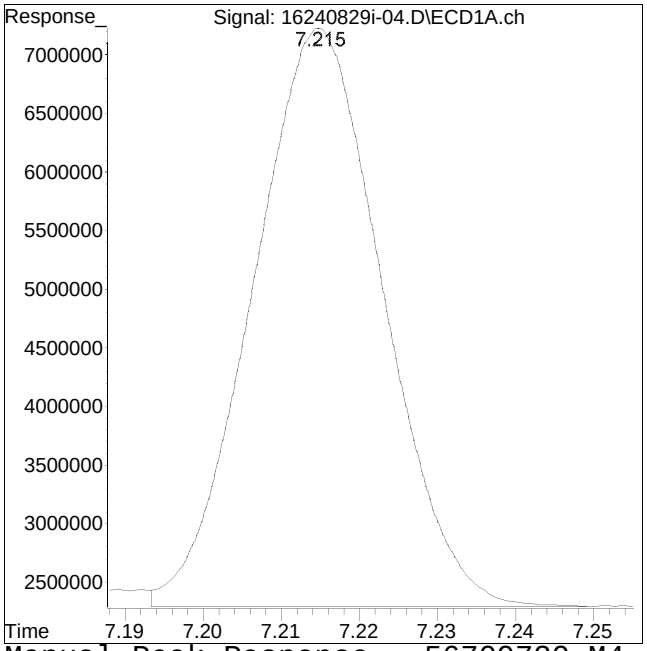
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #5: MCPP



Original Peak Response = 57419009



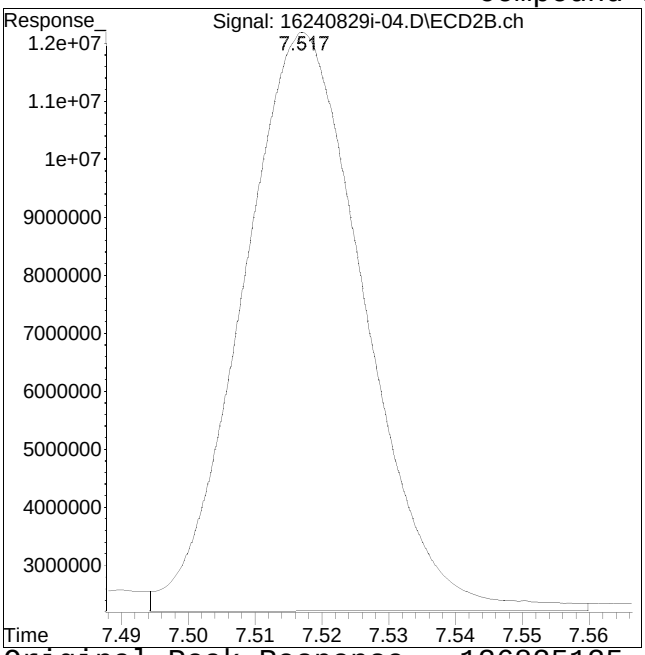
Manual Peak Response = 56709720 M4

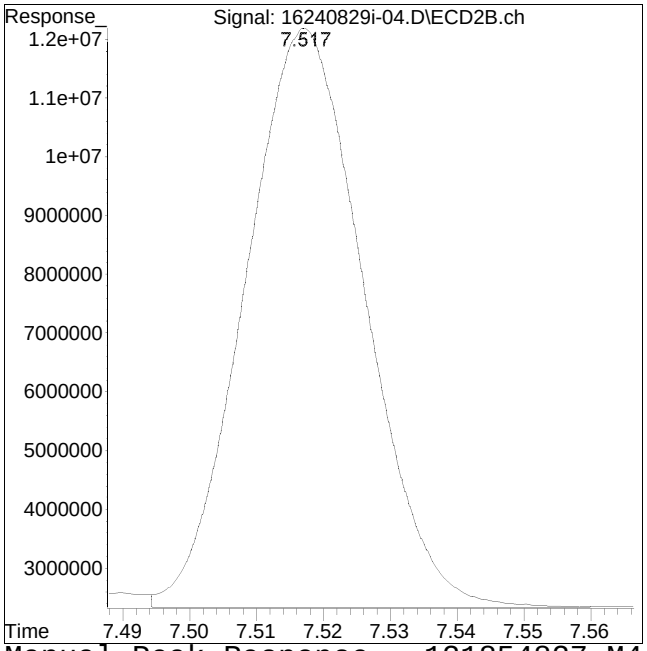
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #18: MCPP #2



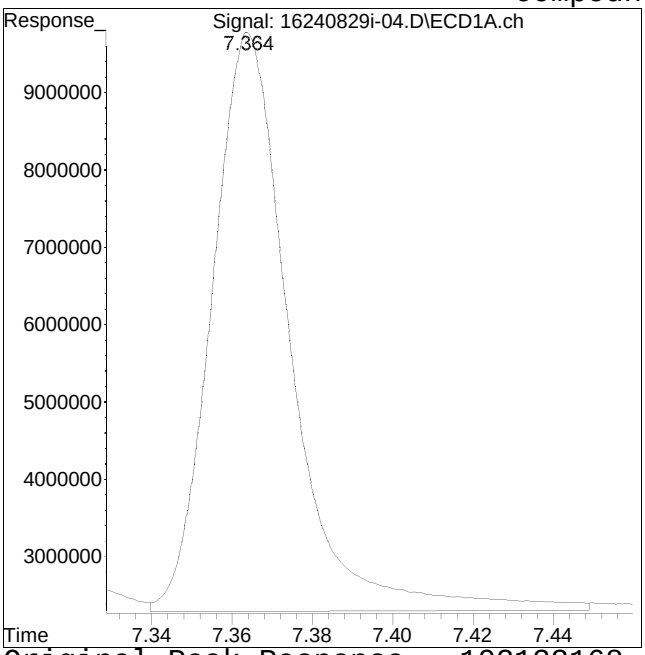


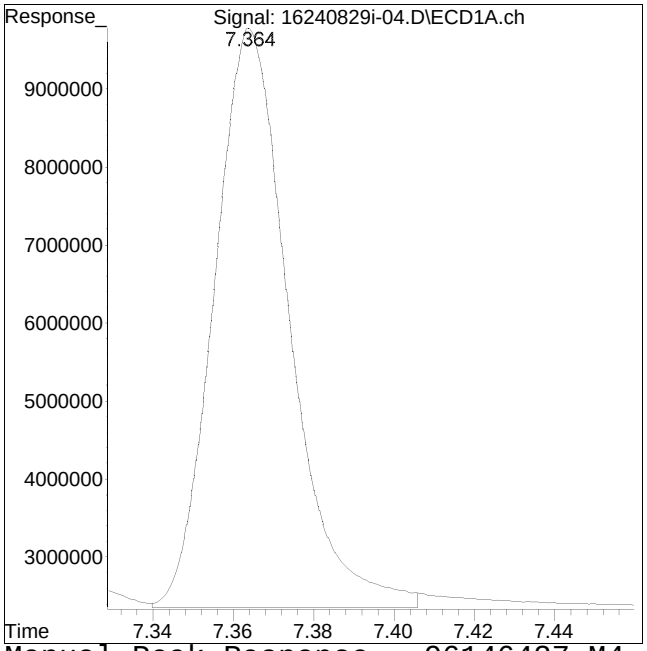
Original Peak Response = 126825125 Manual Peak Response = 121854827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #6: MCPA



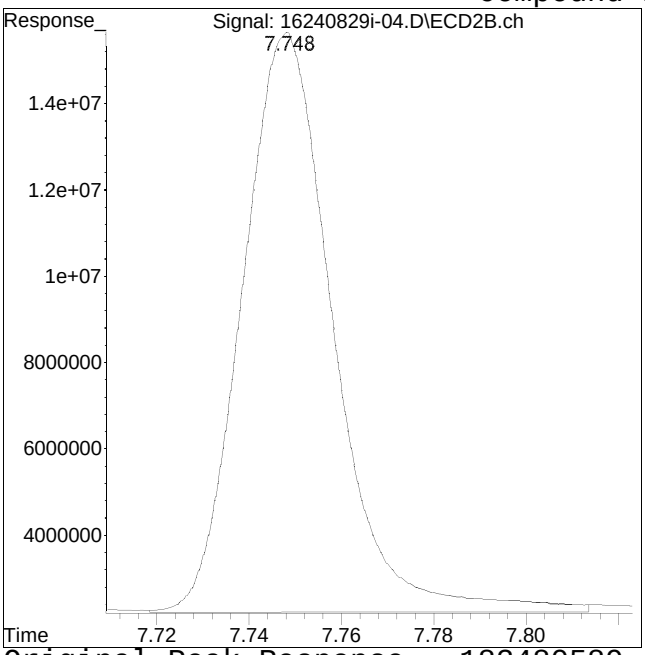


Original Peak Response = 102133168 Manual Peak Response = 96146427 M4
M4 = Poor automated baseline construction.

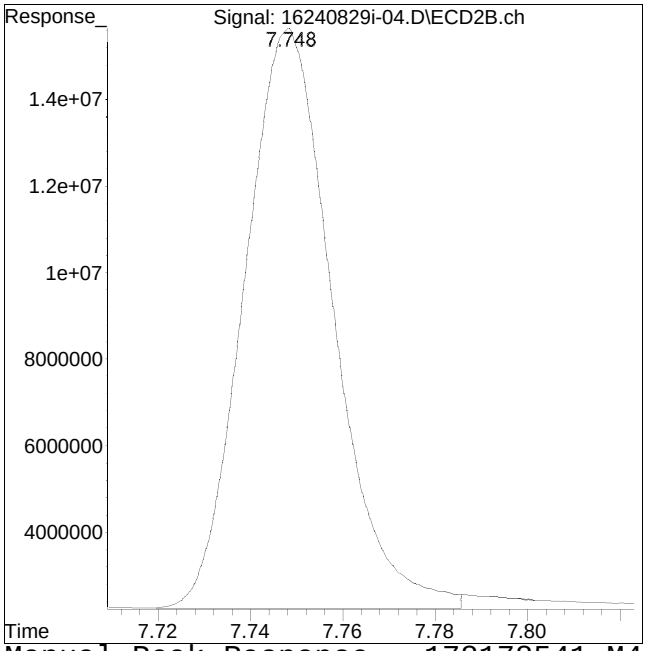
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #19: MCPA #2



Original Peak Response = 183480589



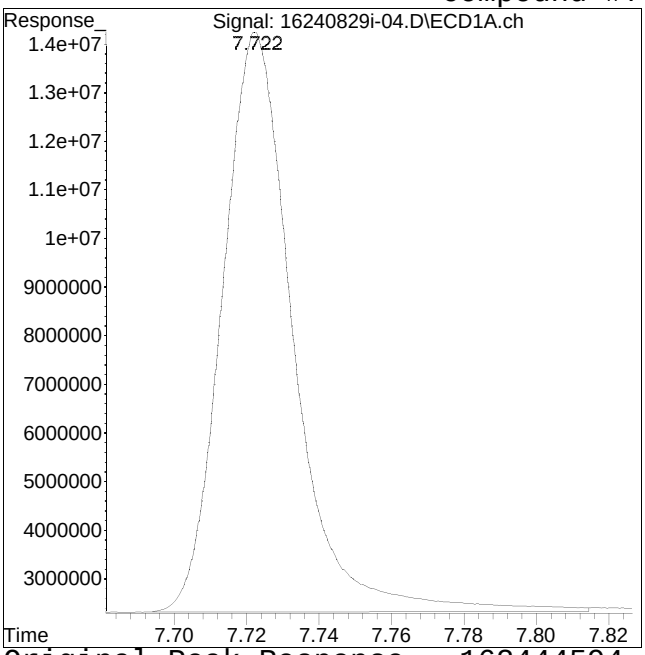
Manual Peak Response = 178178541 M4

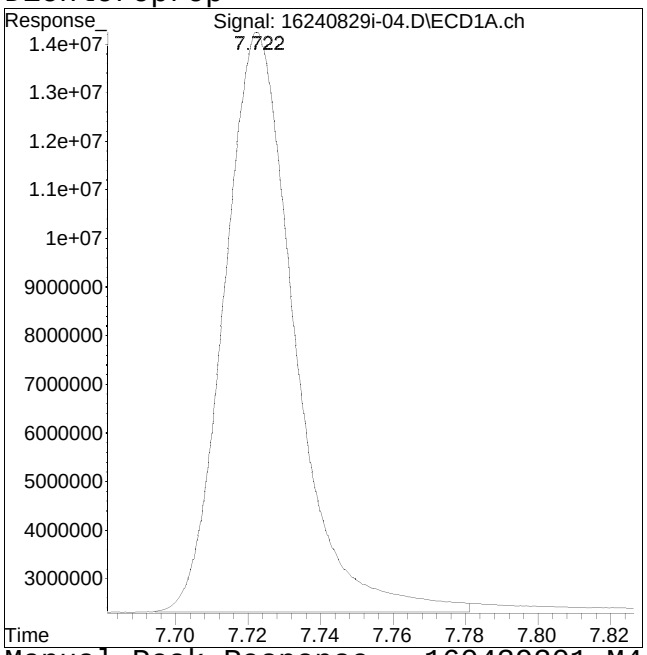
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #7: Dichloroprop



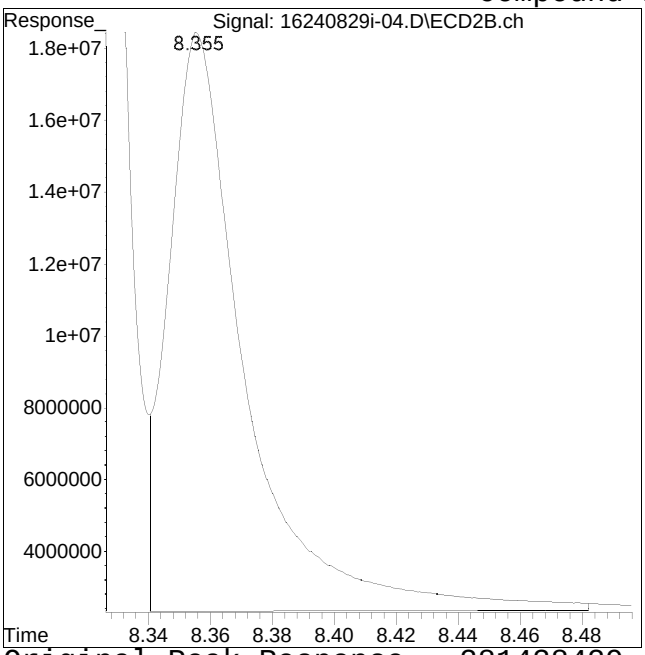


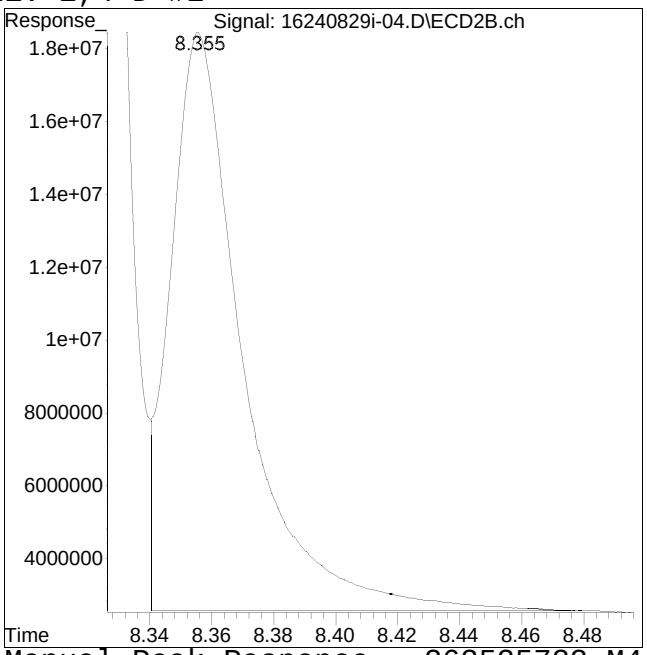
Original Peak Response = 162444594 Manual Peak Response = 160439301 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #21: 2,4-D #2



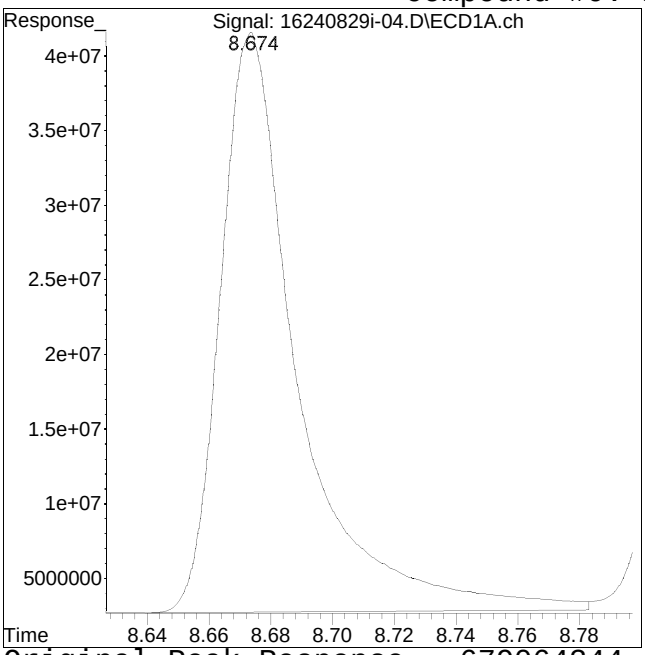


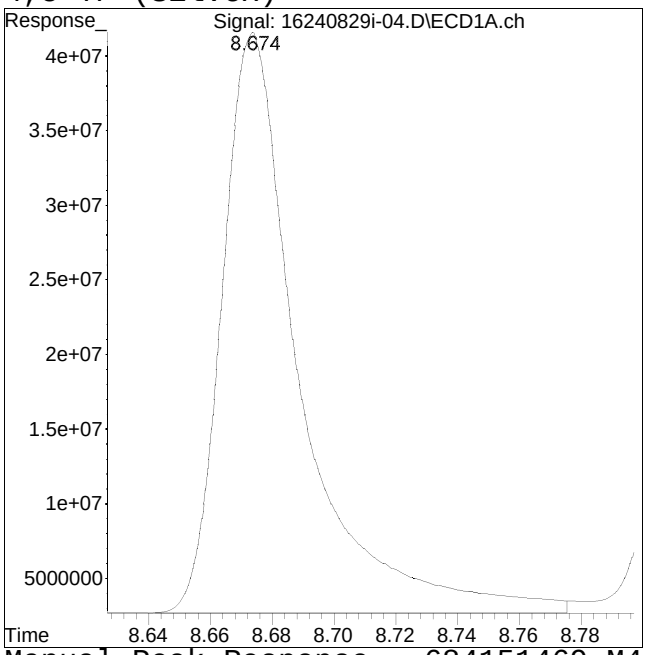
Original Peak Response = 281438429 Manual Peak Response = 262525722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #9: 2,4,5-TP (Silvex)



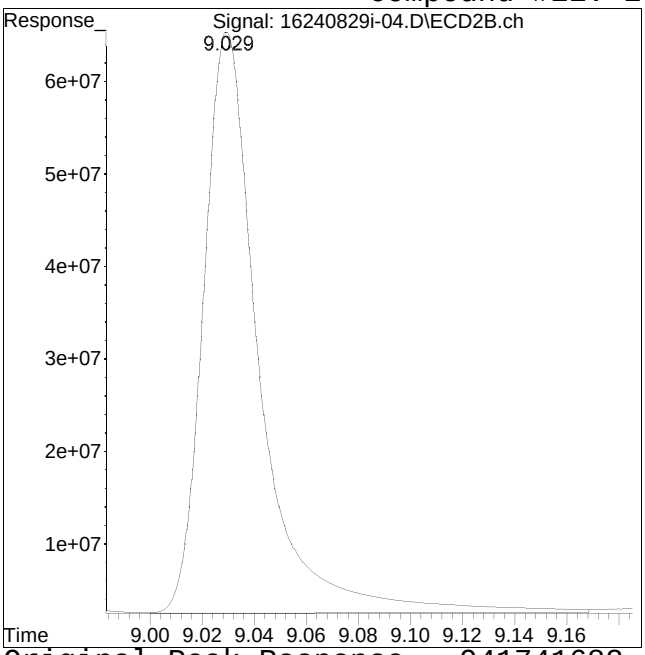


Original Peak Response = 679064344 Manual Peak Response = 684151469 M4
M4 = Poor automated baseline construction.

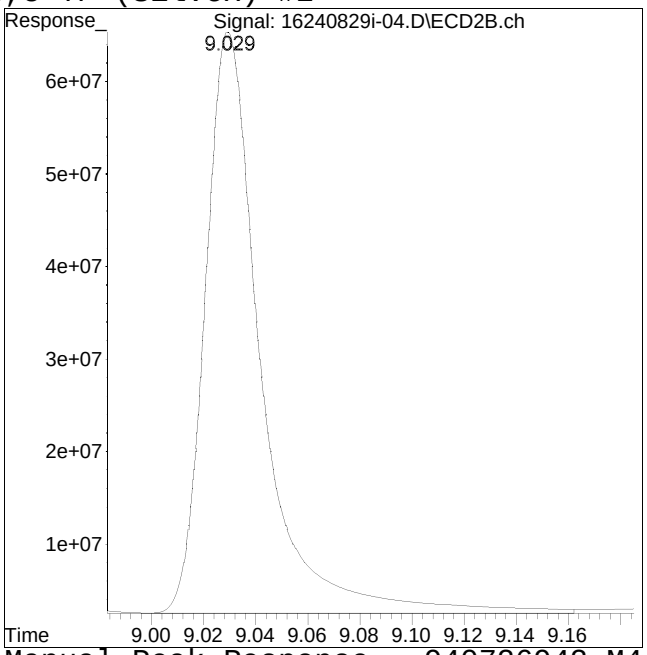
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 941741682



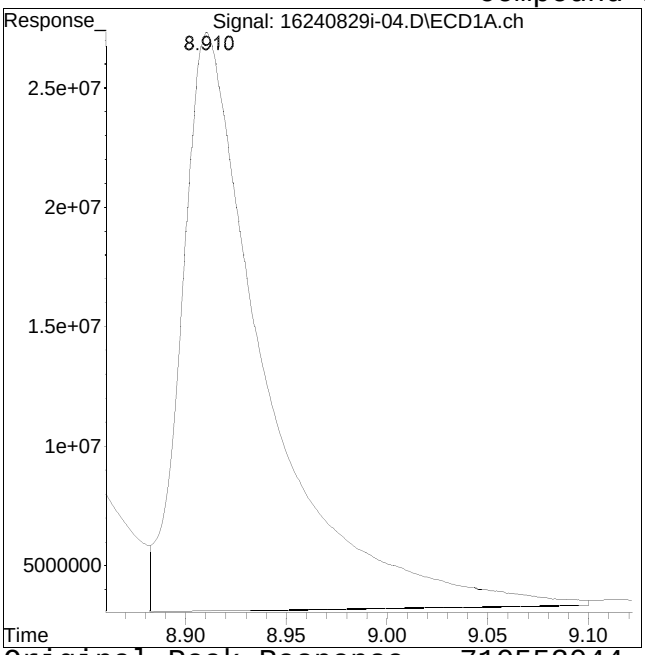
Manual Peak Response = 940726942 M4

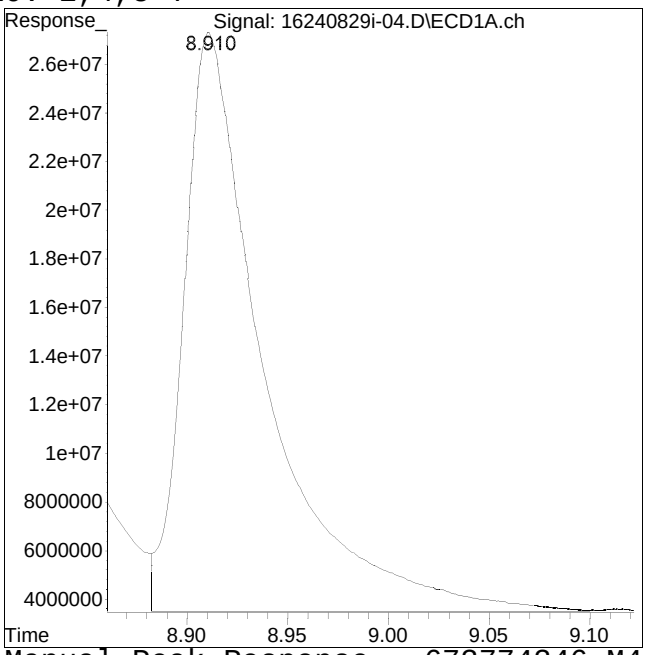
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #10: 2,4,5-T



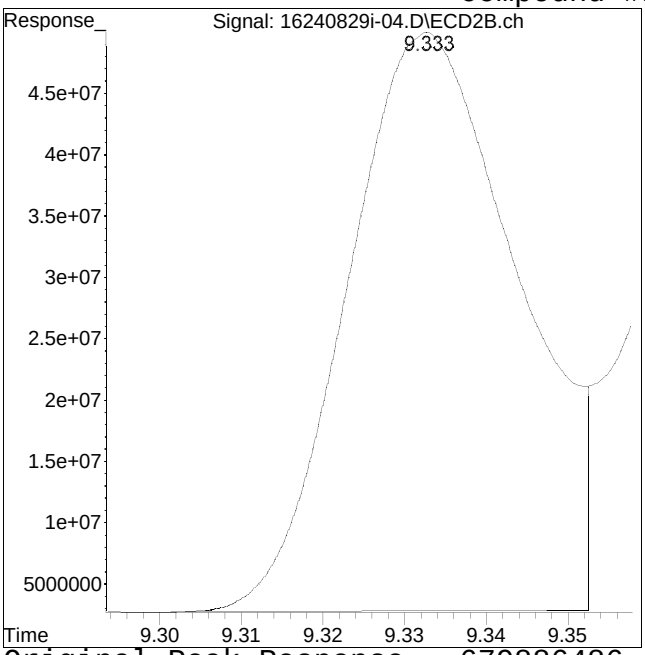


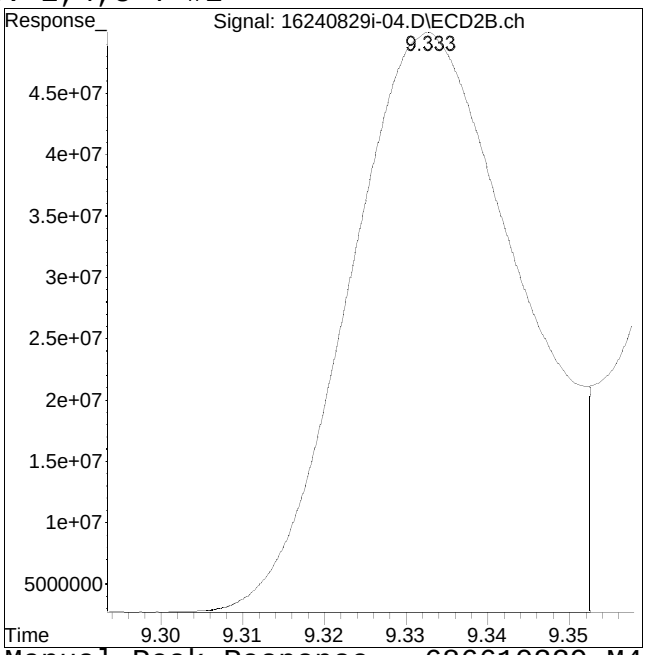
Original Peak Response = 710552044 Manual Peak Response = 673774346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #23: 2,4,5-T #2



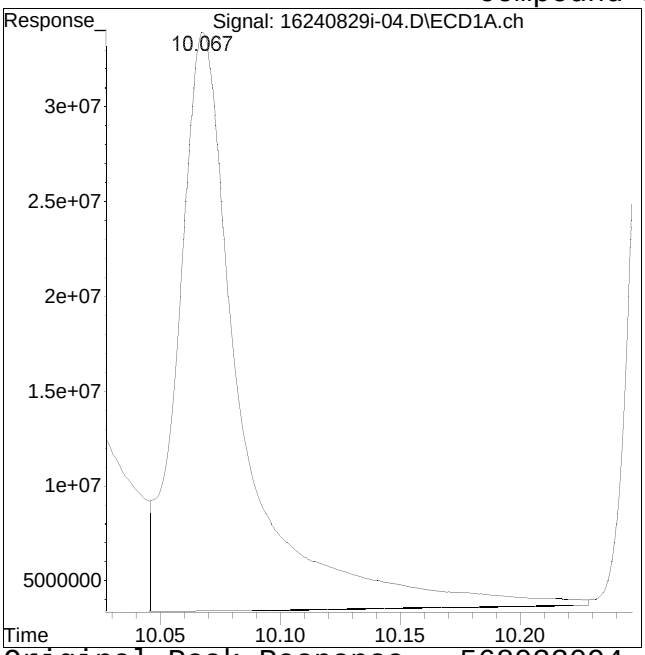


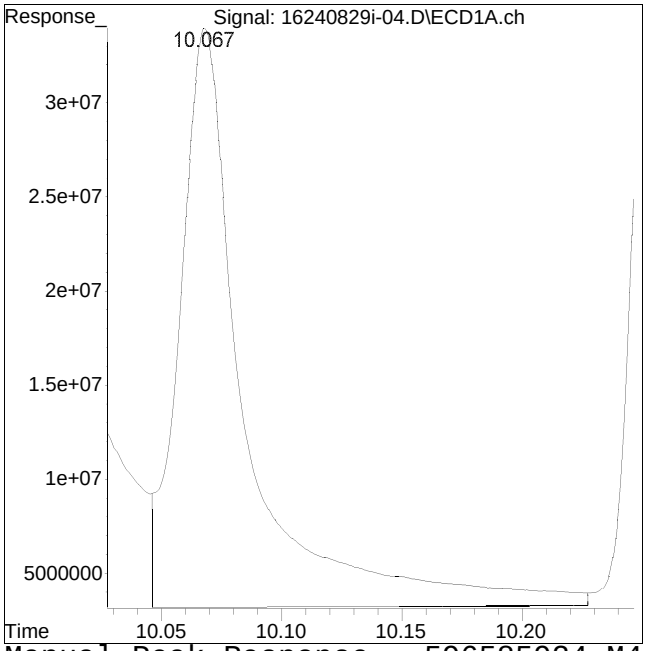
Original Peak Response = 679886486 Manual Peak Response = 686610329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #12: Dinoseb



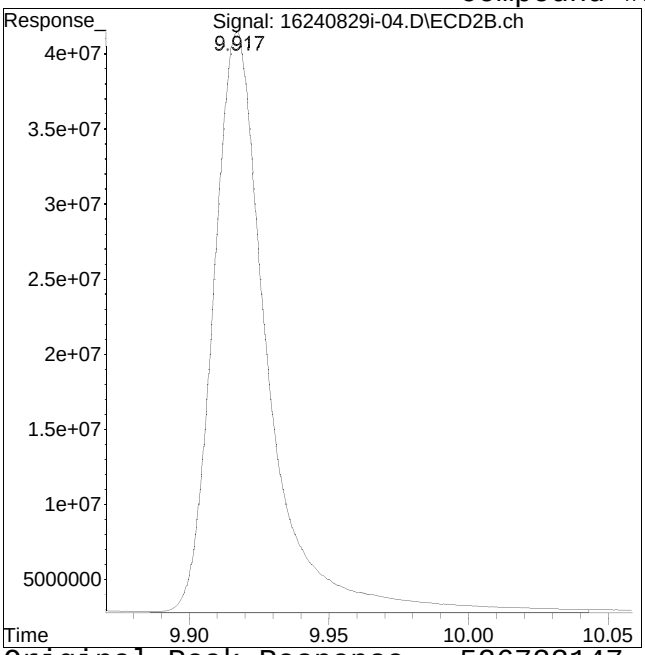


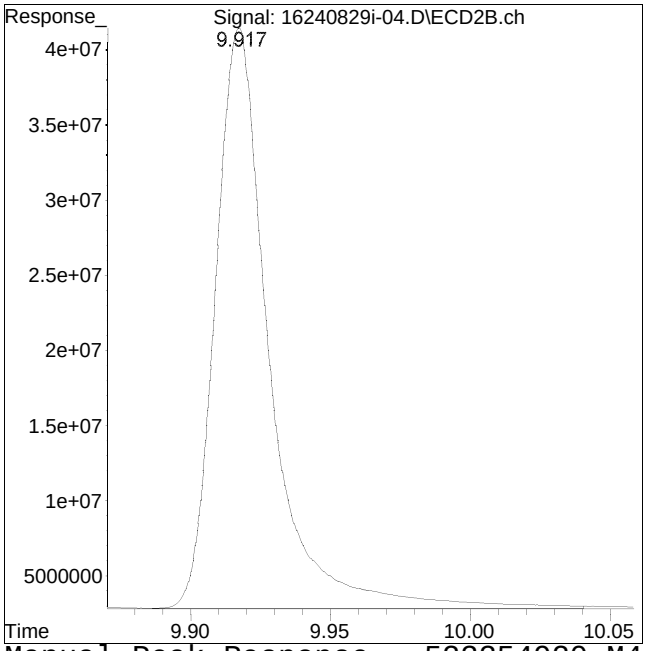
Original Peak Response = 568033094 Manual Peak Response = 596585924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #25: Dinoseb #2





Original Peak Response = 526723147 Manual Peak Response = 523354920 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.394	8.315	1081.2E6	1401.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.821	7.217	358.3E6	462.2E6	0.437M4	0.441M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	87.40%	88.20%
		Target Compounds						
2)	t	Dalapon	1.821	1.778	394.5E6	475.5E6	0.439M3	0.440M3
4)	t	Dicamba	7.004	7.395	1143.5E6	1403.4E6	0.447M4	0.449M4
5)	t	MCPP	7.215	7.517	130.9E6	239.6E6	45.549M3	42.635M4
6)	t	MCPA	7.363	7.747	206.2E6	342.1E6	43.372M4	41.631M4
7)	t	Dichloroprop	7.721	8.069	340.1E6	439.0E6	0.436M4	0.441M4
8)	t	2,4-D	7.937	8.353	407.1E6	543.9E6	0.453M4	0.439M4
9)	t	2,4,5-TP (Si	8.671	9.027	1497.5E6	2025.7E6	0.448M4	0.452M4
10)	t	2,4,5-T	8.902	9.327	1456.1E6	1632.8E6	0.445M3	0.476
11)	t	2,4-DB	9.324	9.700	209.0E6	303.5E6	0.453M4	0.464M4
12)	t	Dinoseb	10.066	9.915	1163.8E6	1150.0E6	0.479M4	0.457M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

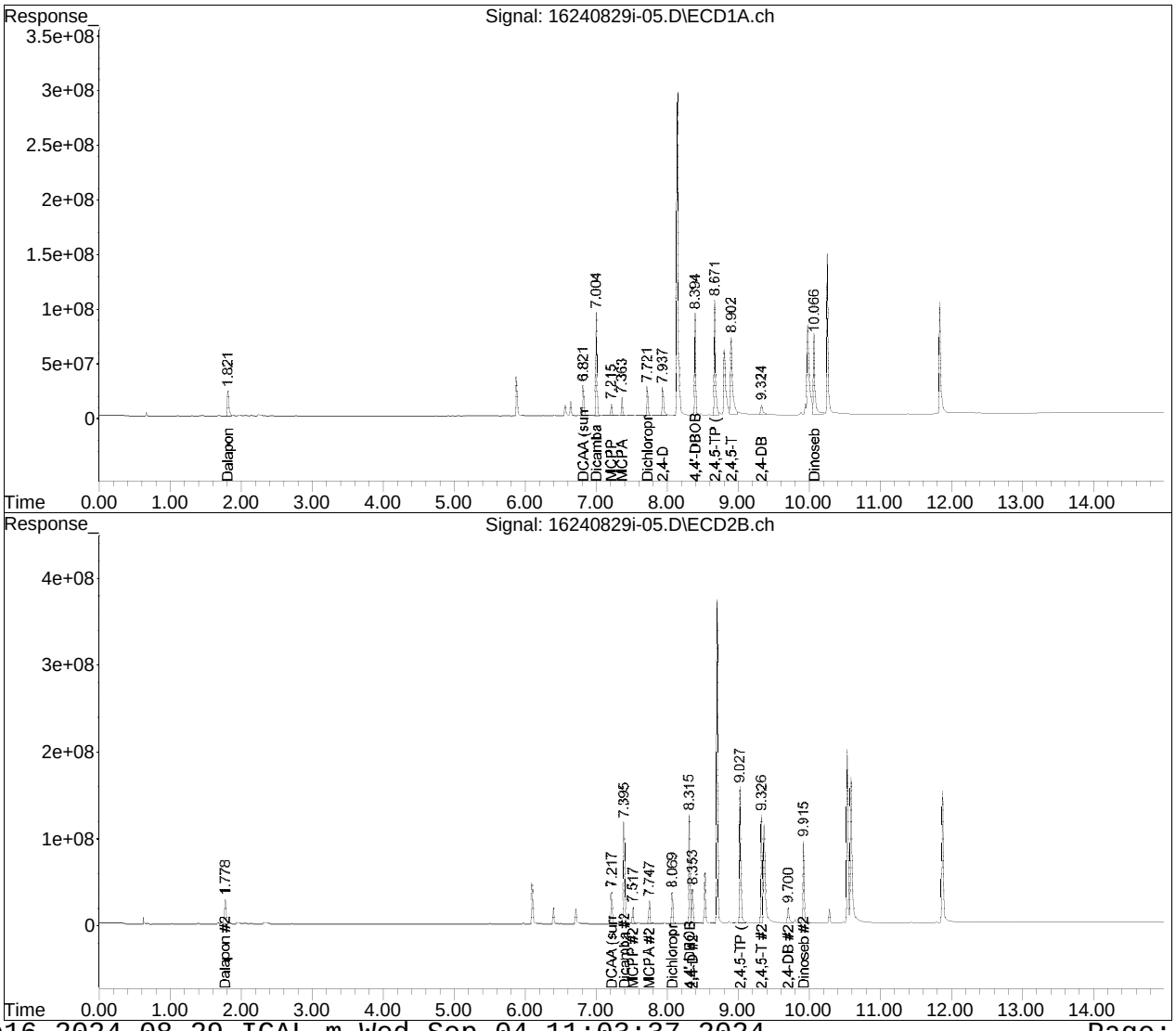
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

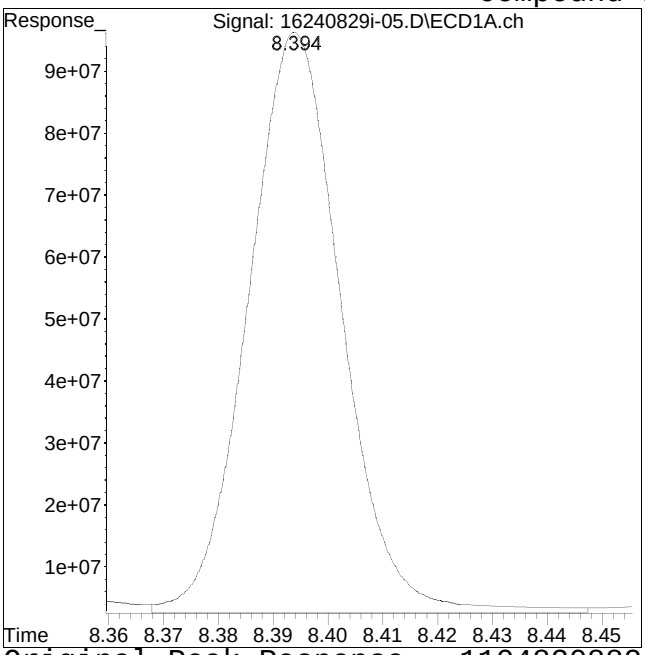
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



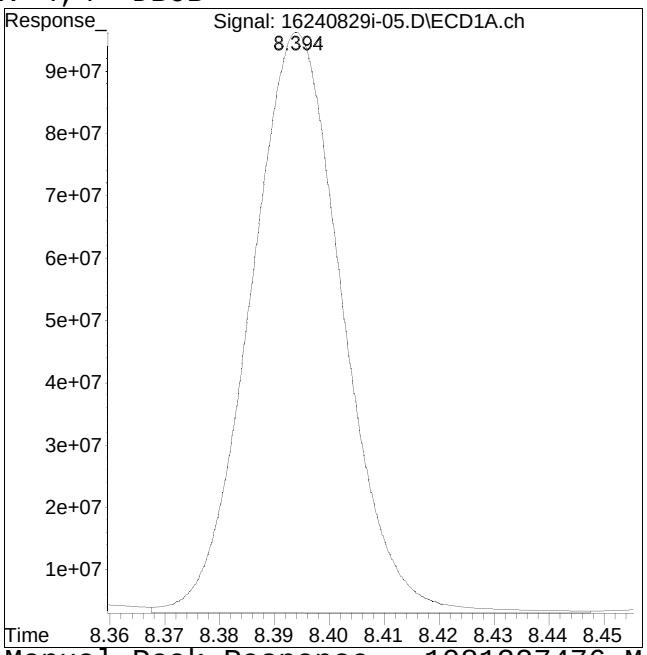
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #1: 4,4'-DBOB



Original Peak Response = 1104820882

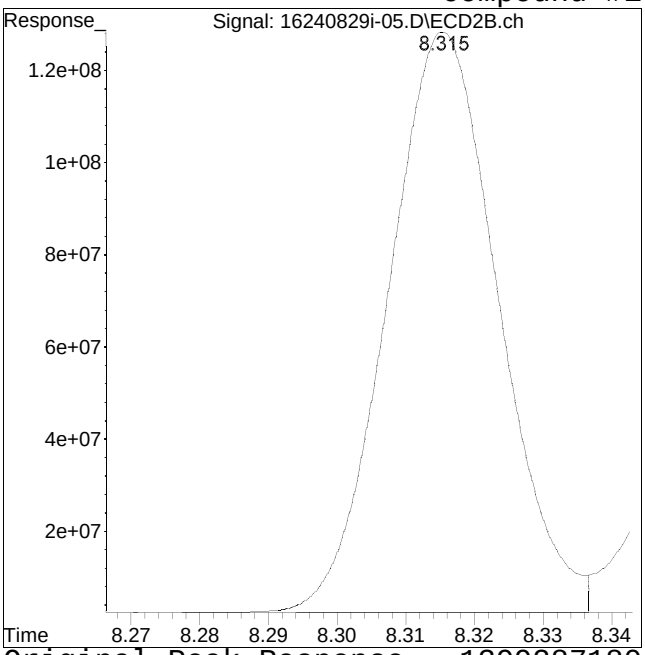


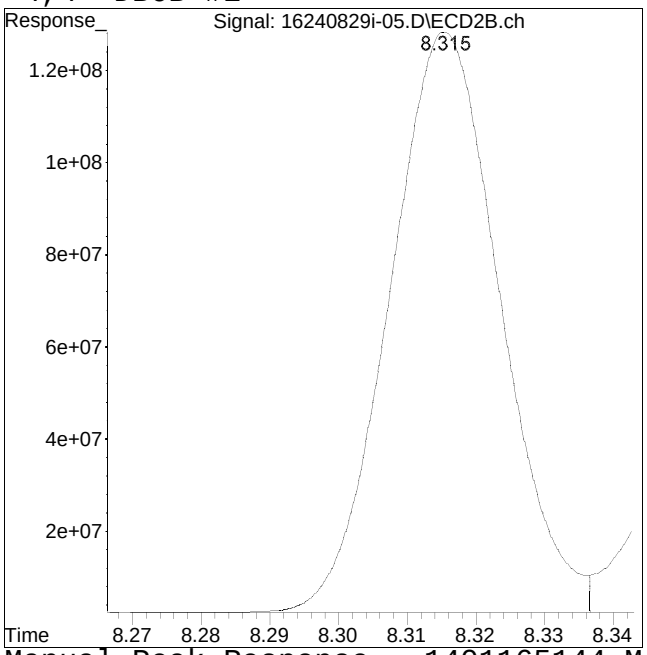
Manual Peak Response = 1081227476 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #14: 4,4'-DBOB #2



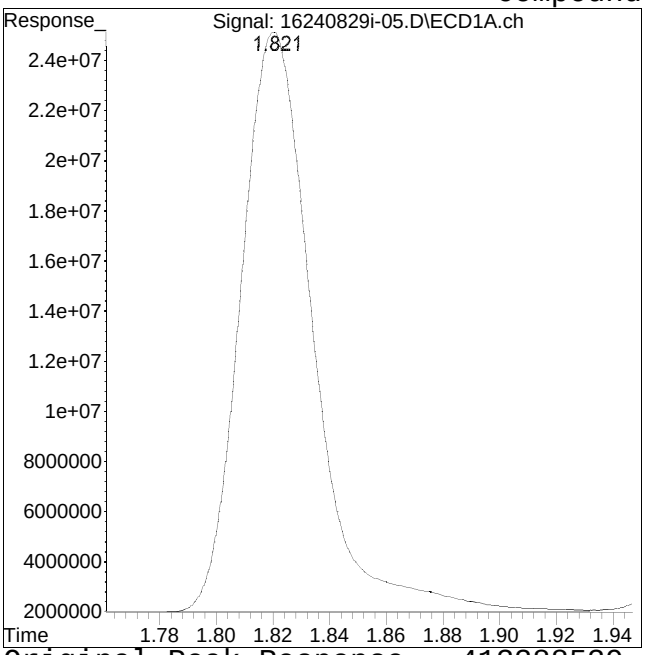


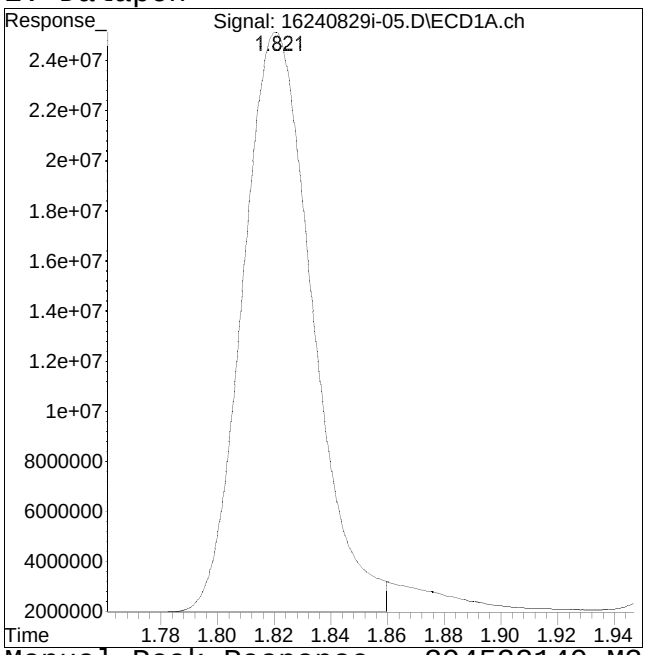
Original Peak Response = 1399287180 Manual Peak Response = 1401165144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #2: Dalapon



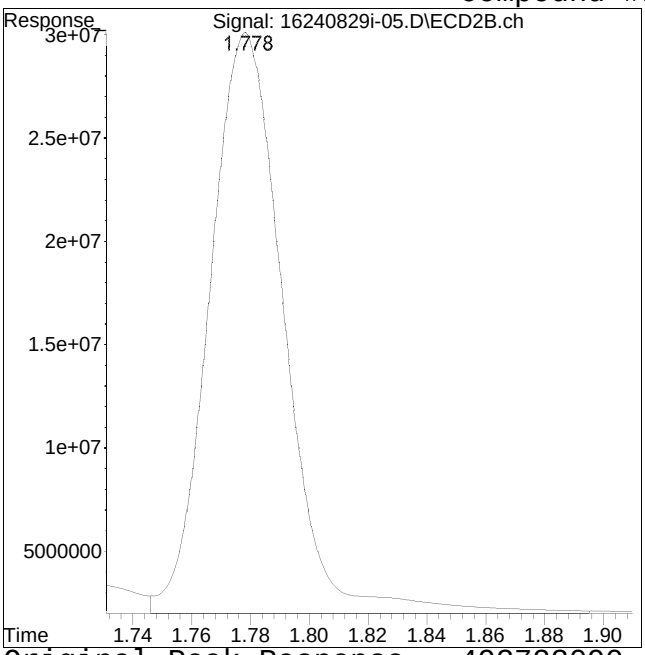


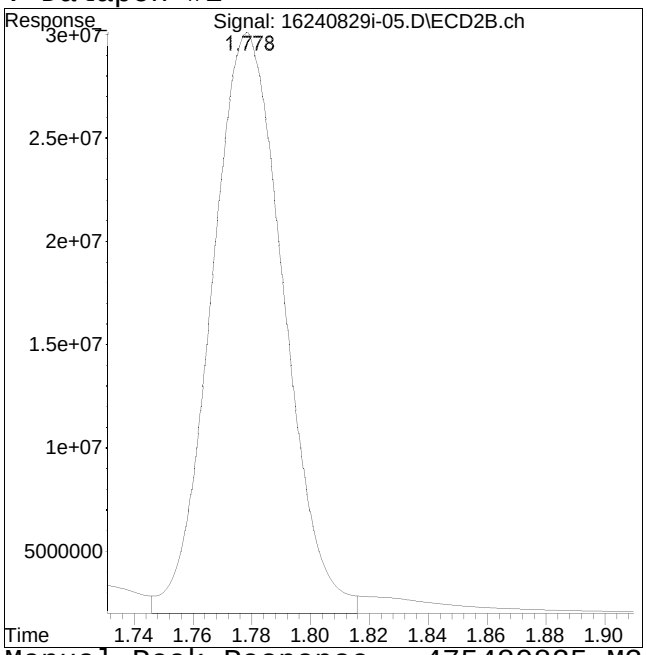
Original Peak Response = 413388539 Manual Peak Response = 394532140 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #15: Dalapon #2



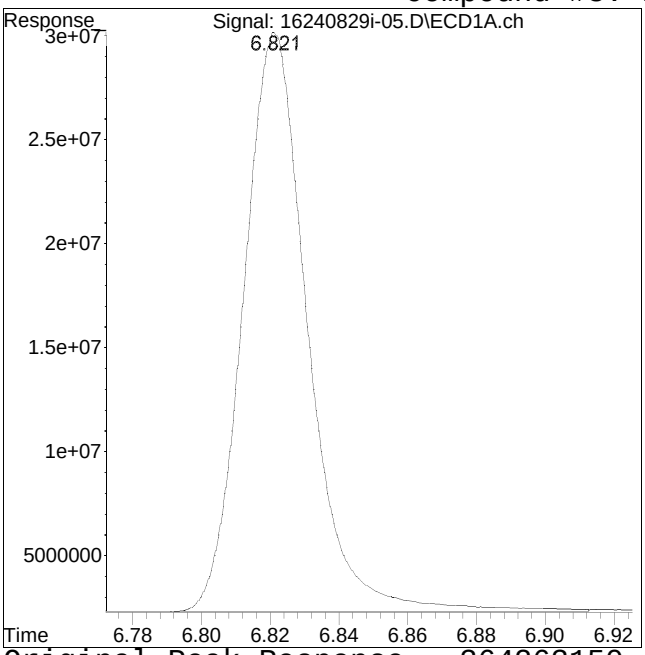


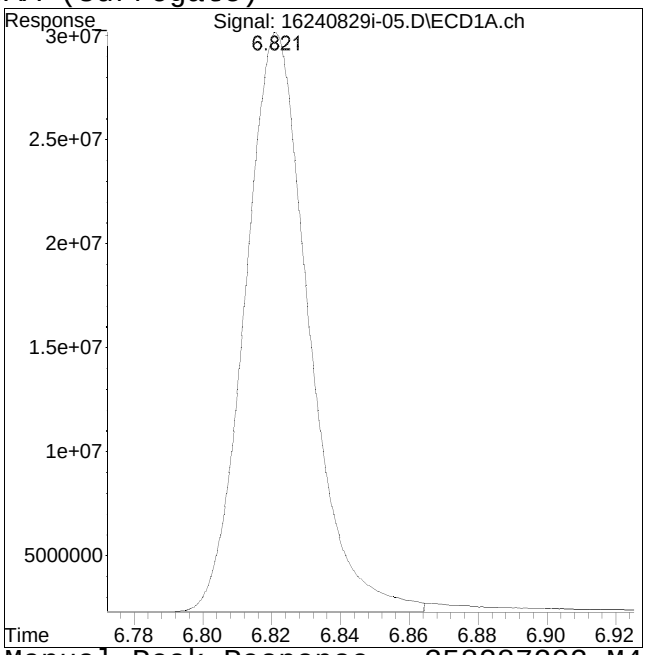
Original Peak Response = 493723090 Manual Peak Response = 475480825 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #3: DCAA (surrogate)



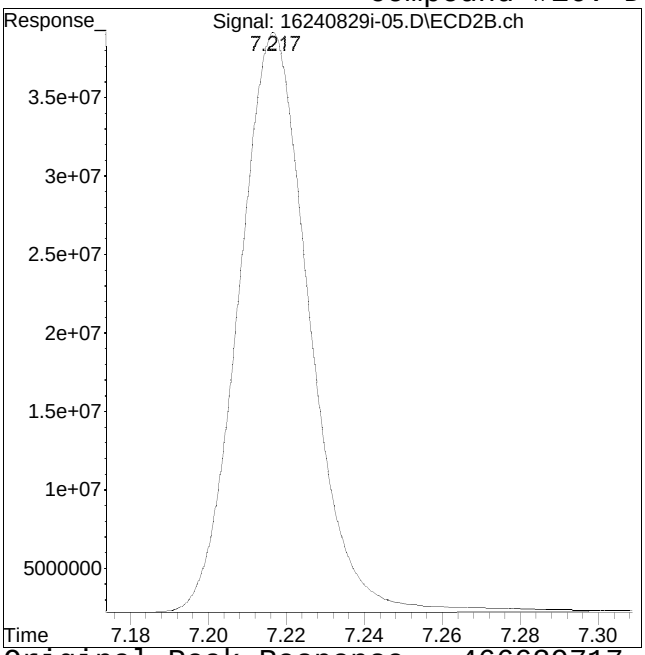


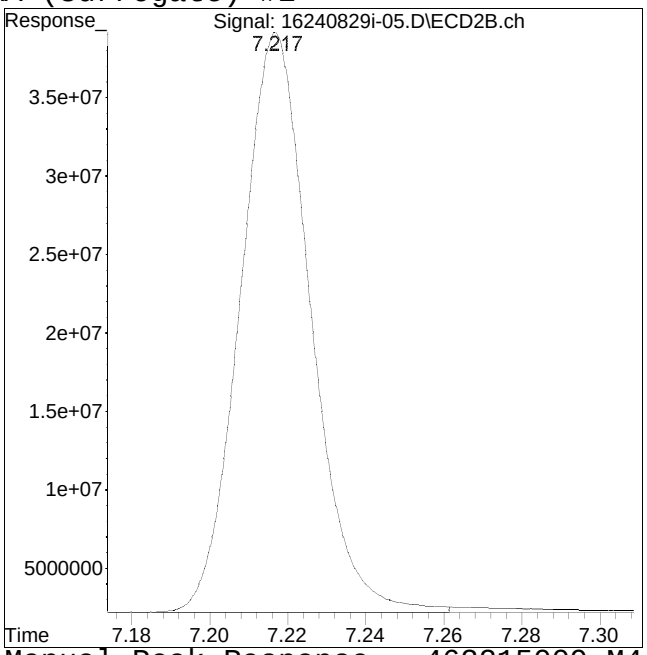
Original Peak Response = 364263150 Manual Peak Response = 358287292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #16: DCAA (surrogate) #2



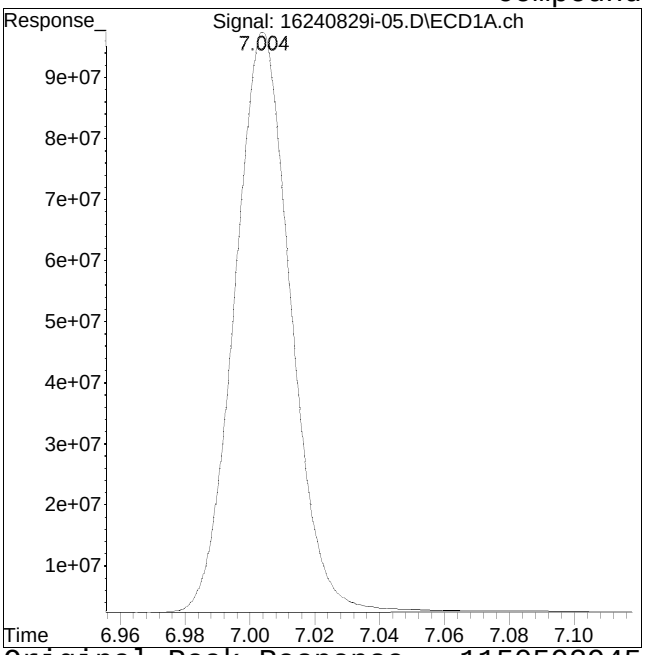


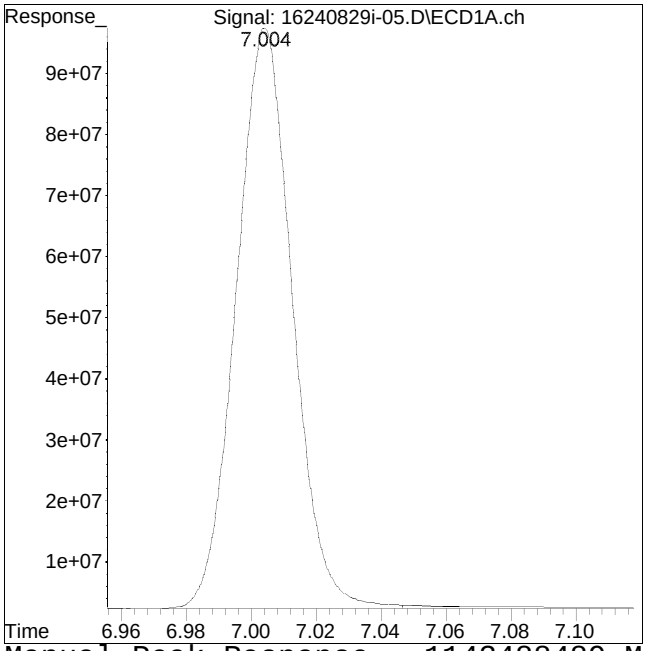
Original Peak Response = 466639717 Manual Peak Response = 462215009 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #4: Dicamba



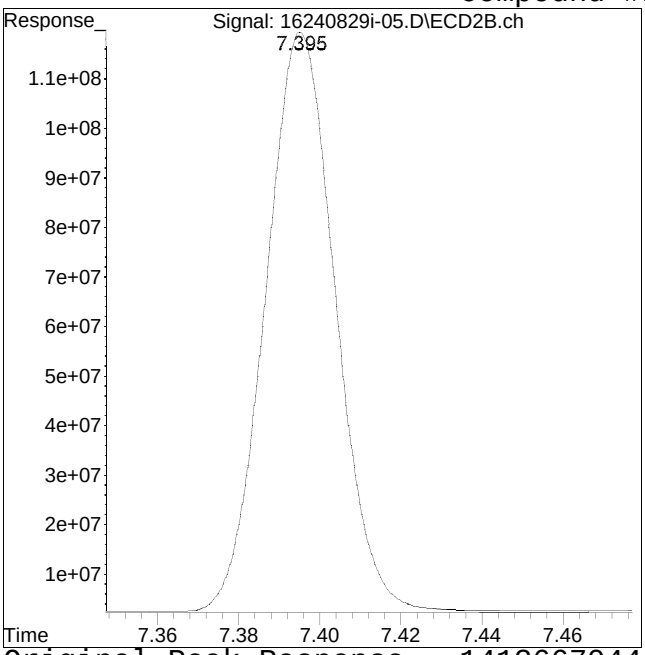


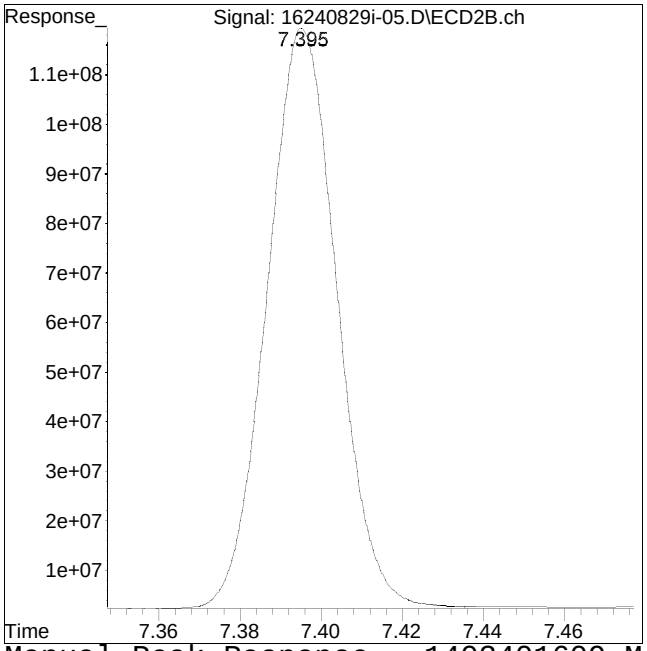
Original Peak Response = 1150593945 Manual Peak Response = 1143488489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #17: Dicamba #2



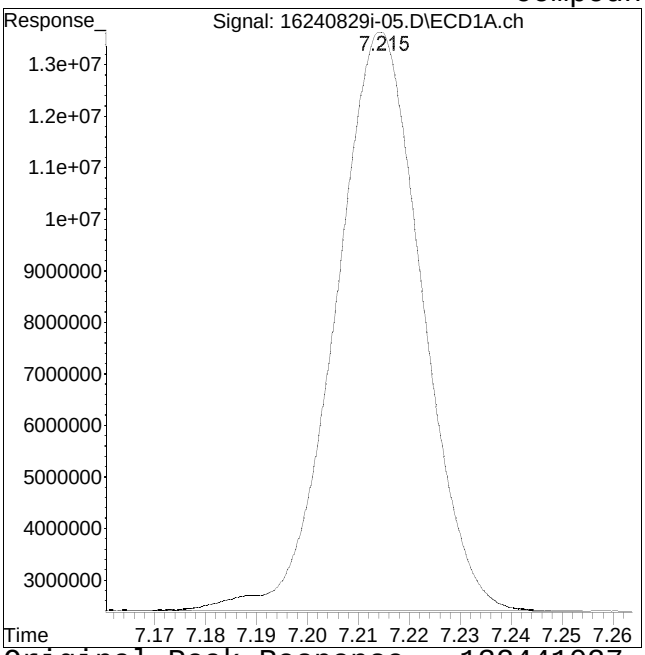


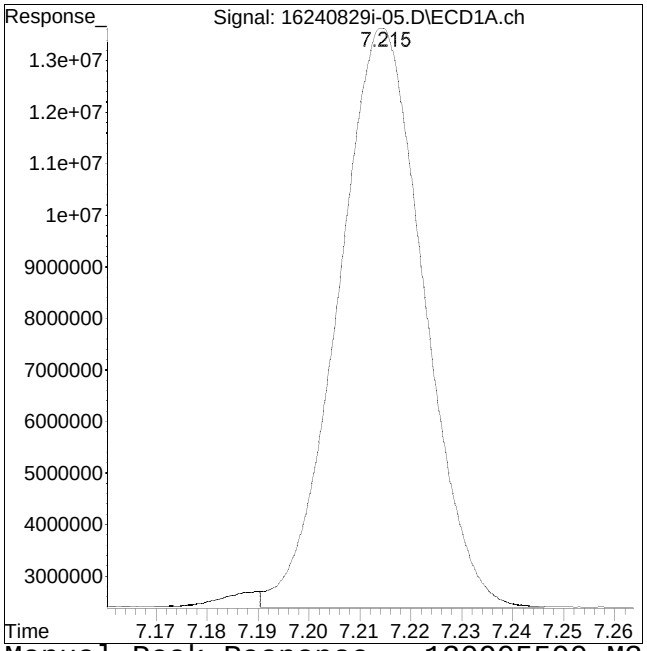
Original Peak Response = 1413667044 Manual Peak Response = 1403401609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #5: MCPP



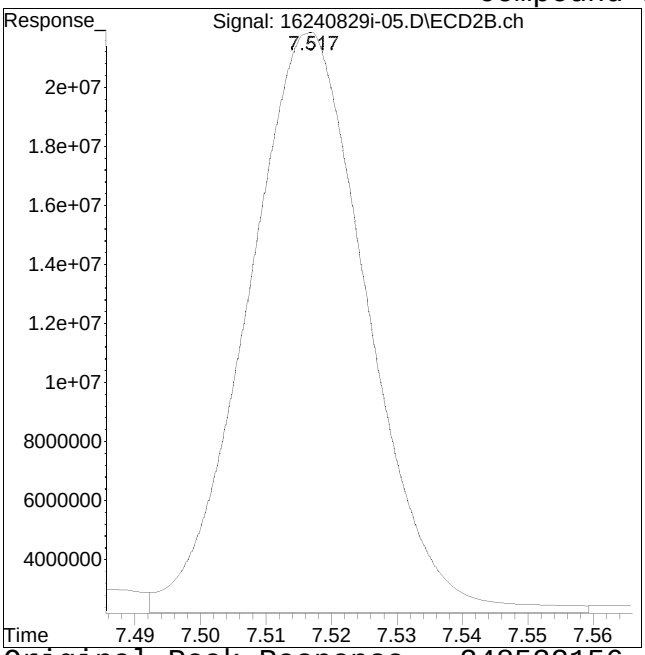


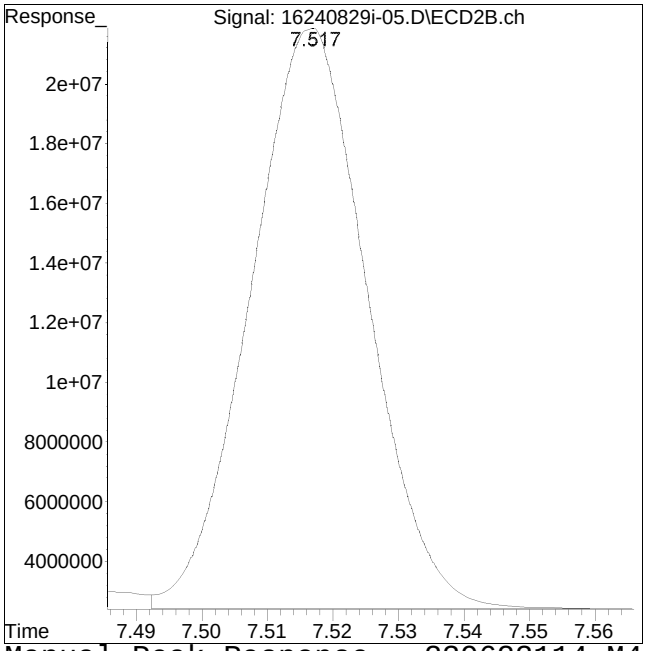
Original Peak Response = 132441027 Manual Peak Response = 130905590 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #18: MCPP #2



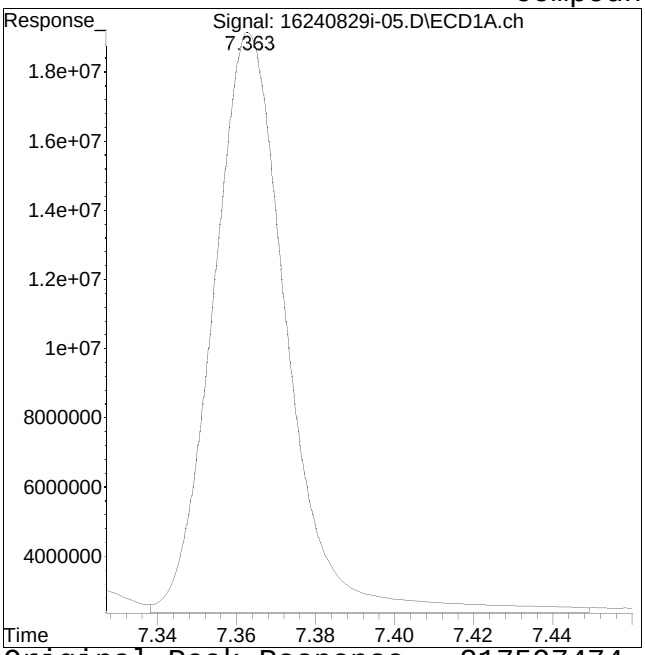


Original Peak Response = 248532156 Manual Peak Response = 239623114 M4
M4 = Poor automated baseline construction.

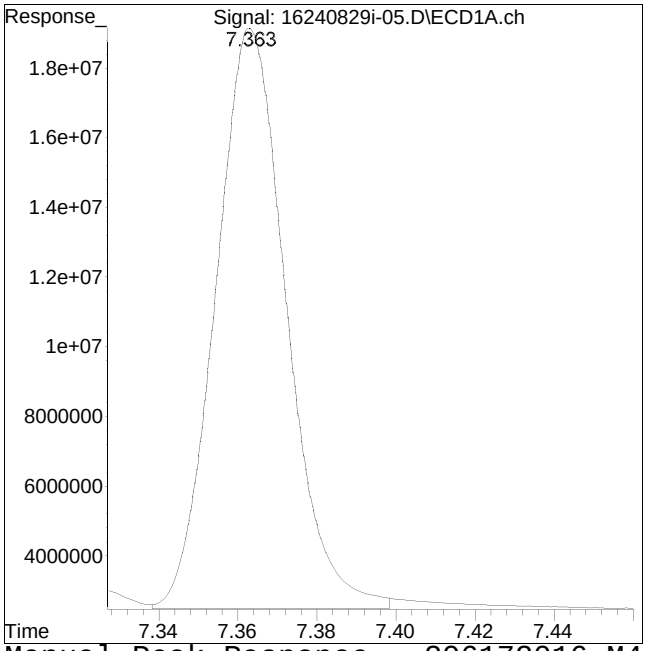
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #6: MCPA



Original Peak Response = 217597474



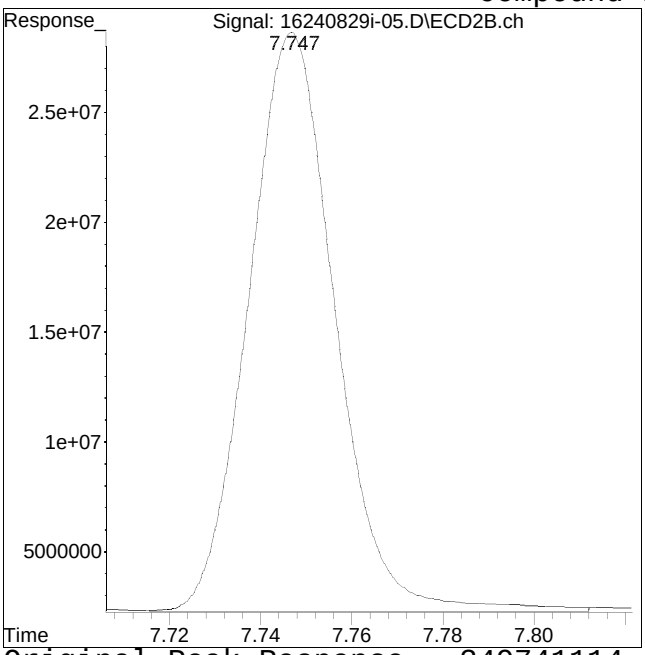
Manual Peak Response = 206172016 M4

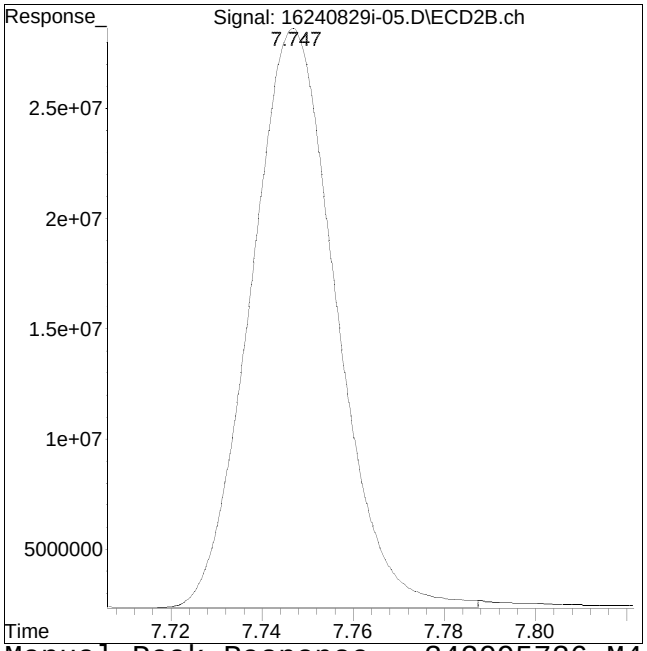
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #19: MCPA #2



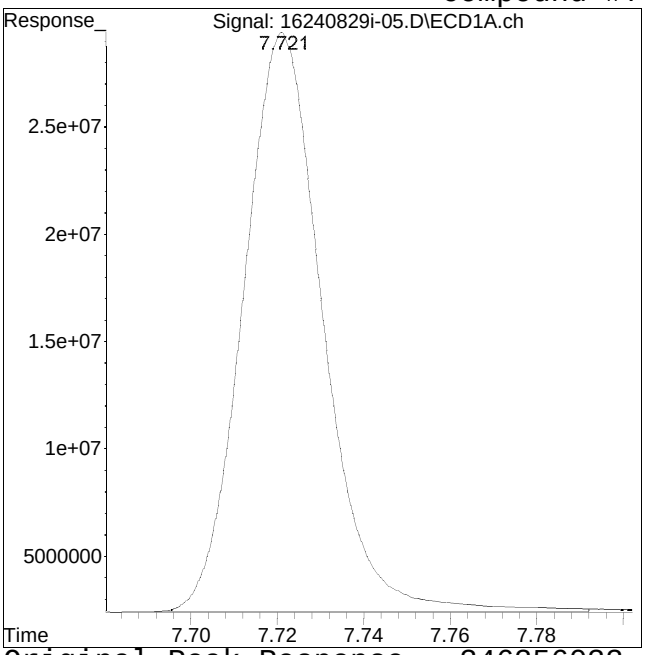


Original Peak Response = 349741114 Manual Peak Response = 342095726 M4
M4 = Poor automated baseline construction.

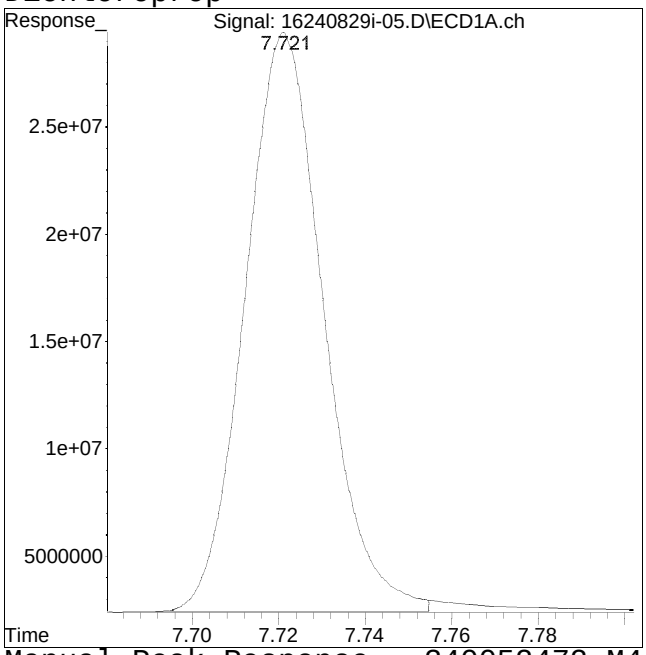
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #7: Dichloroprop



Original Peak Response = 346356033



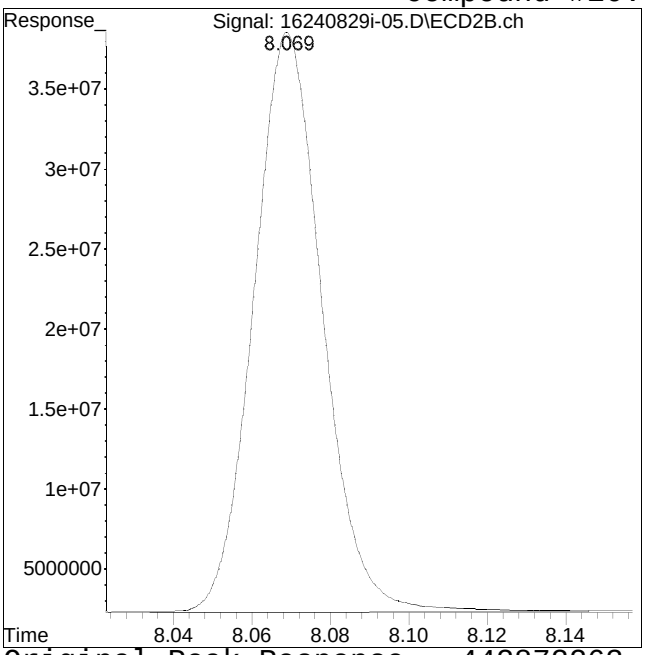
Manual Peak Response = 340052472 M4

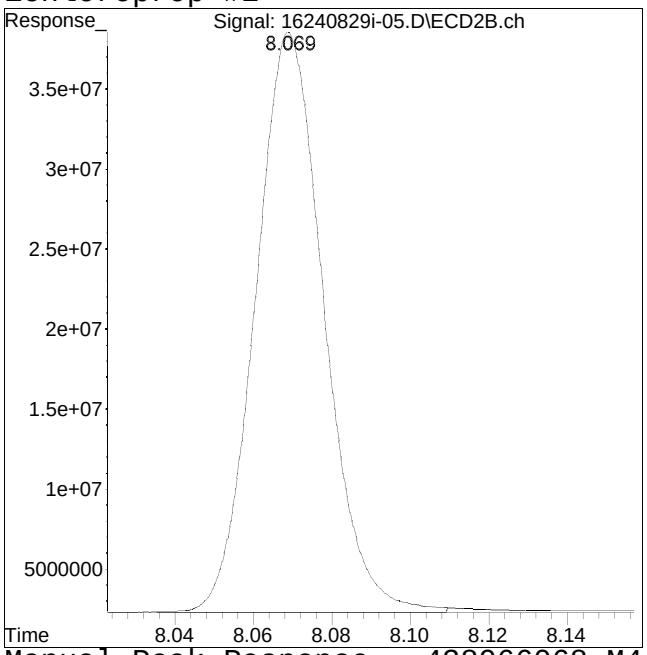
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #20: Dichloroprop #2



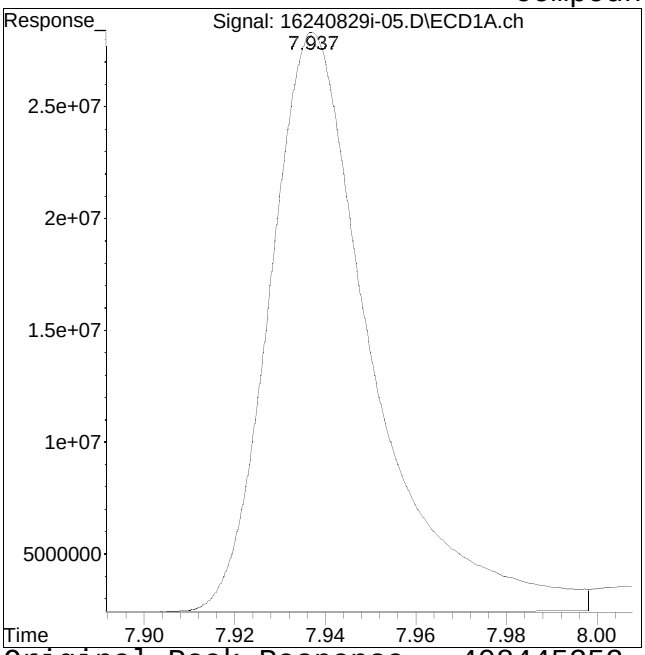


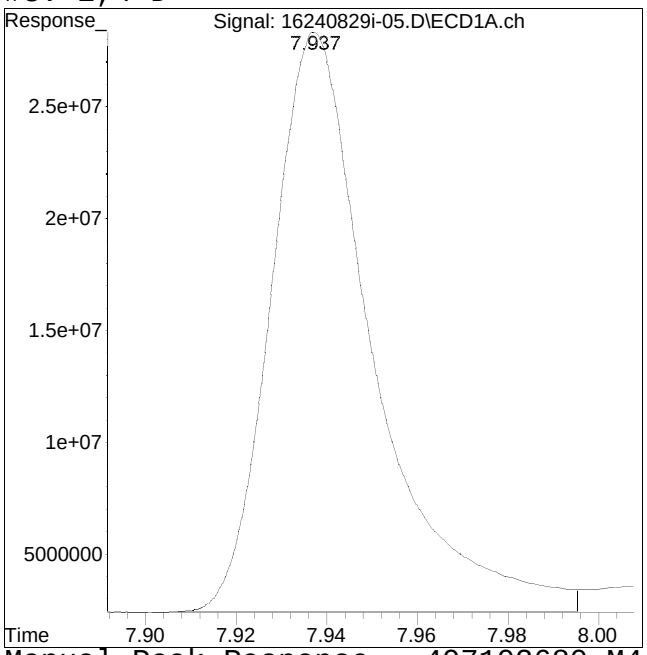
Original Peak Response = 442872263 Manual Peak Response = 438966068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #8: 2,4-D



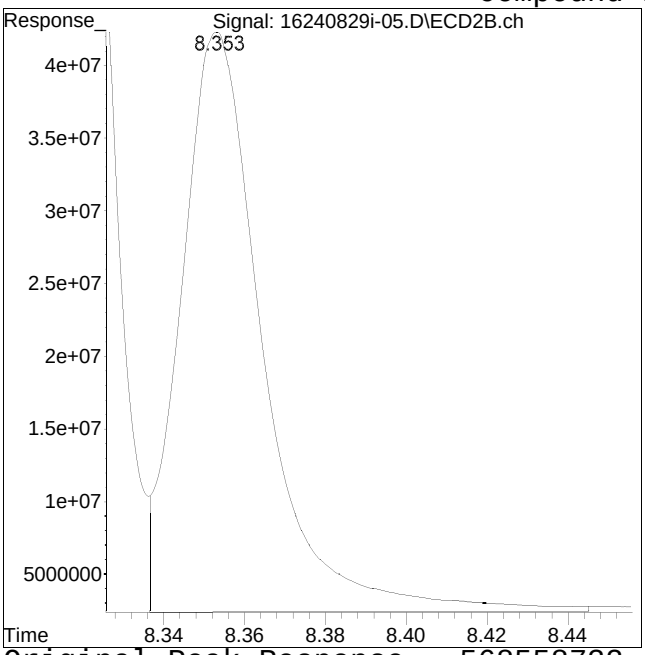


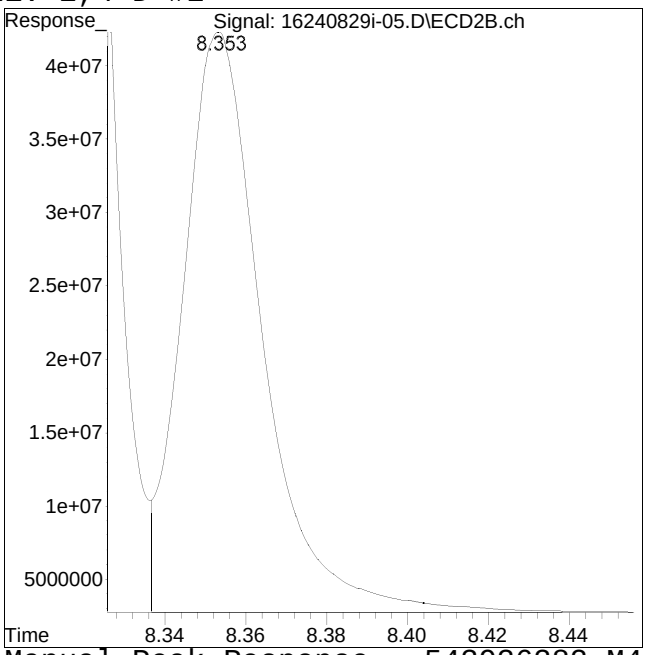
Original Peak Response = 408445352 Manual Peak Response = 407102680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #21: 2,4-D #2



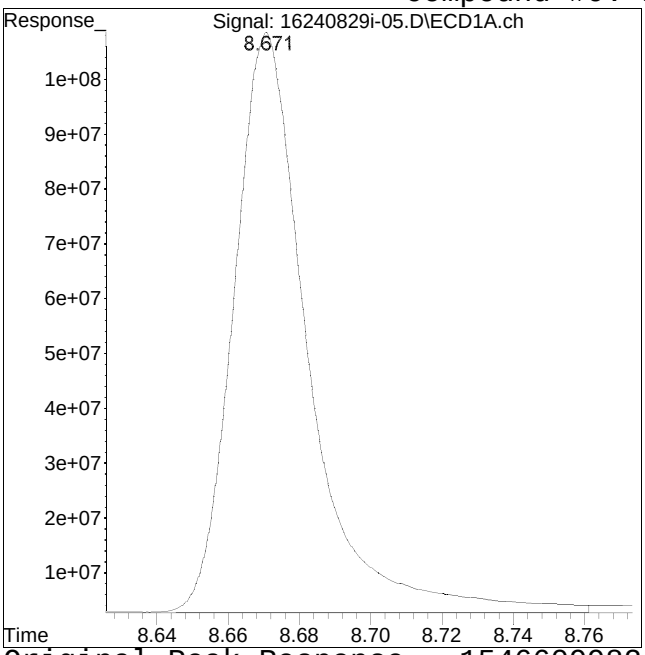


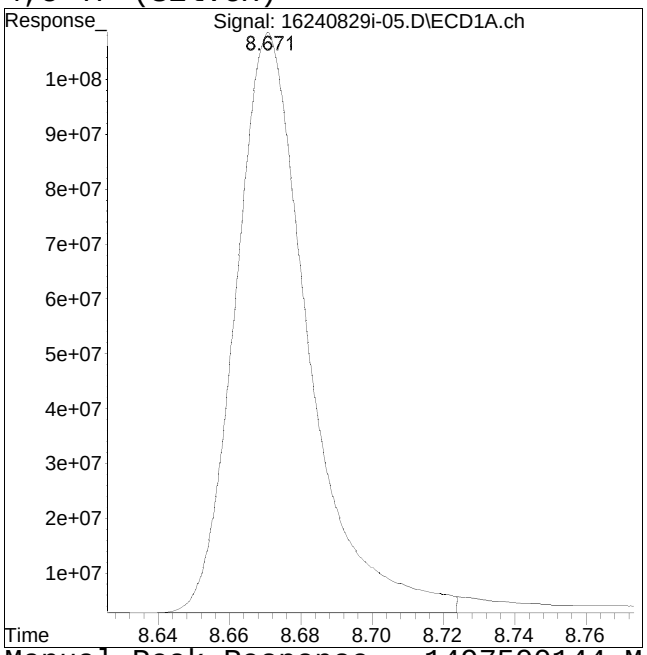
Original Peak Response = 568558732 Manual Peak Response = 543936382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #9: 2,4,5-TP (Silvex)



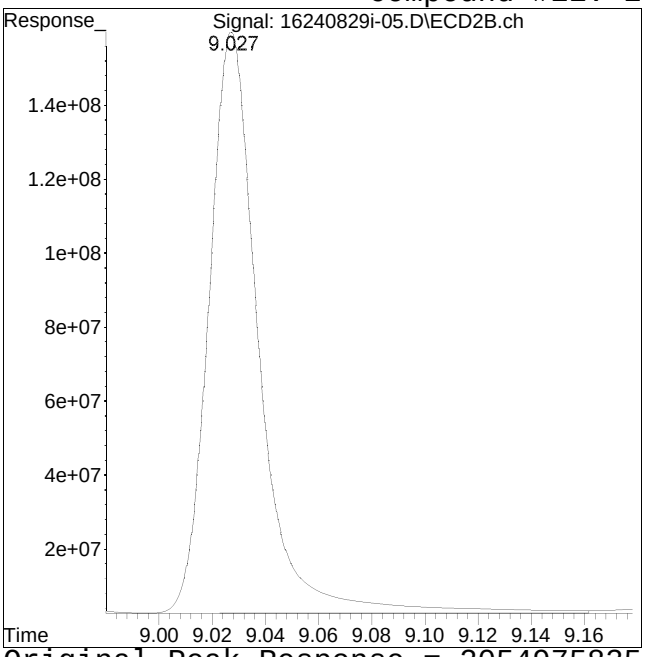


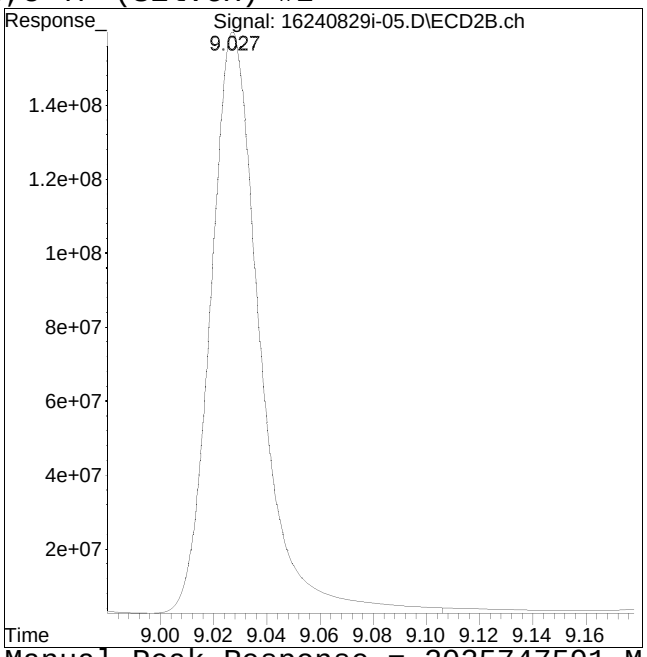
Original Peak Response = 1546609982 Manual Peak Response = 1497500144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #22: 2,4,5-TP (Silvex) #2



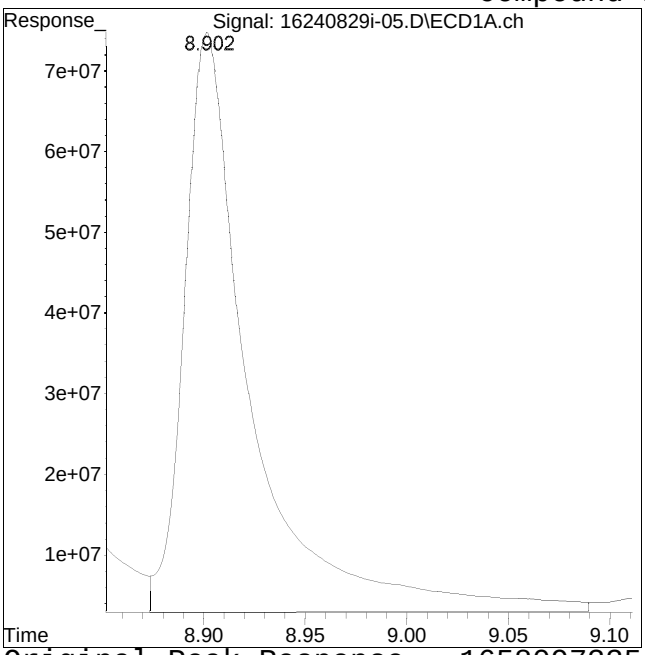


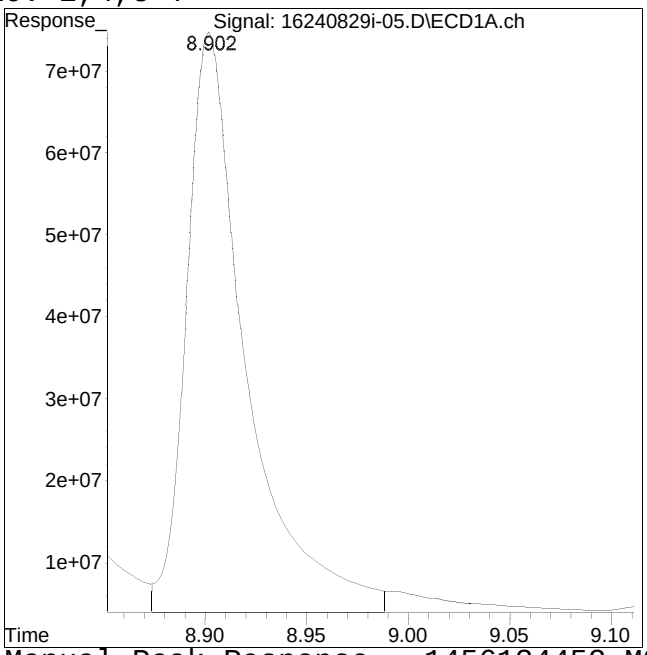
Original Peak Response = 2054975835 Manual Peak Response = 2025747591 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #10: 2,4,5-T



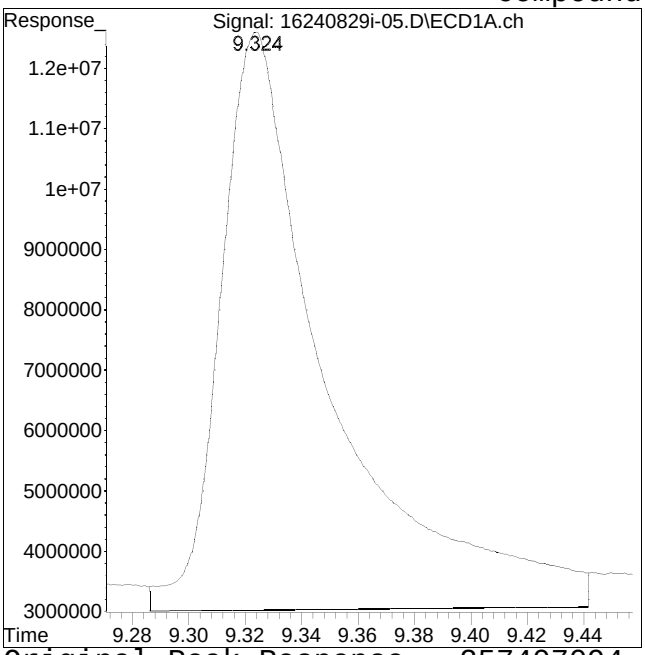


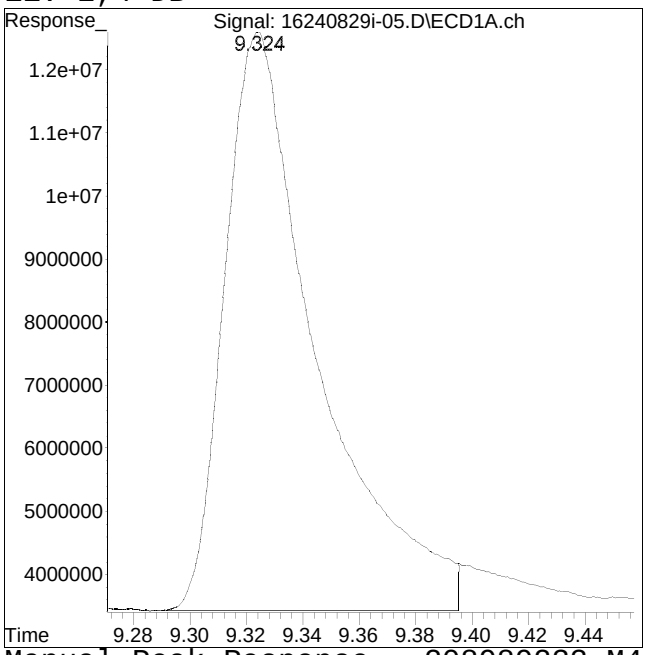
Original Peak Response = 1658097335 Manual Peak Response = 1456134452 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #11: 2,4-DB



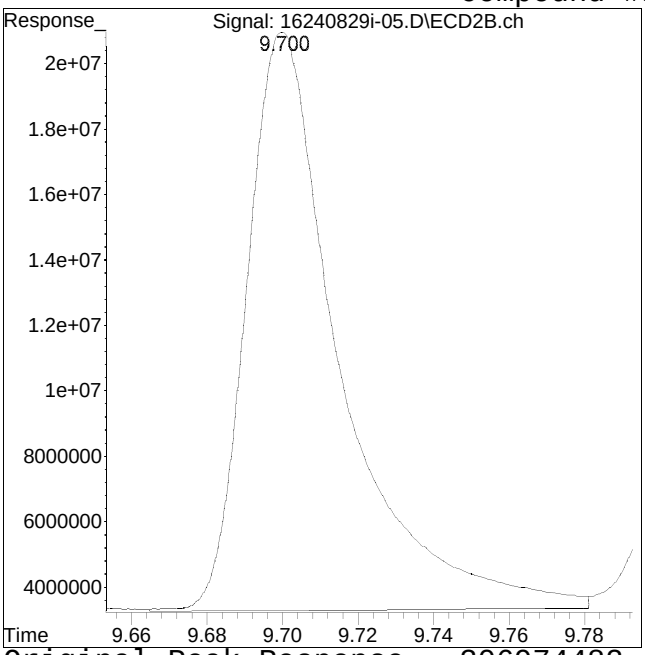


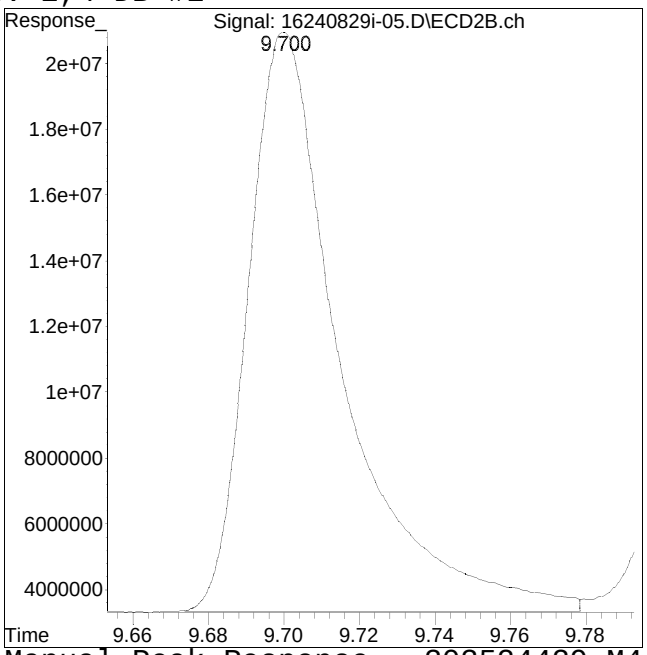
Original Peak Response = 257407094 Manual Peak Response = 208989233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #24: 2,4-DB #2



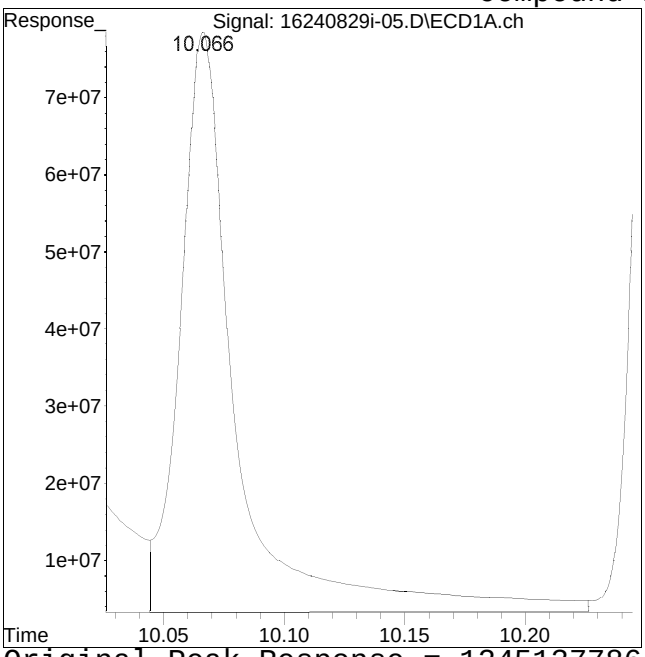


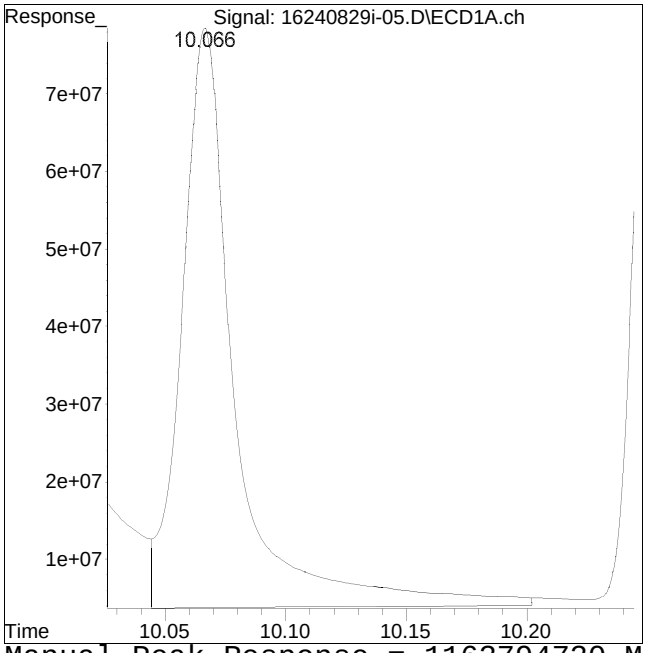
Original Peak Response = 306974482 Manual Peak Response = 303524429 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #12: Dinoseb



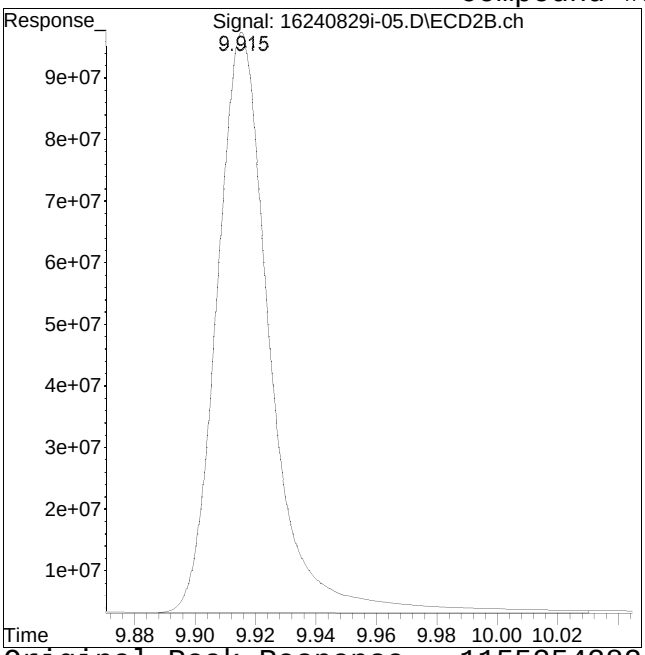


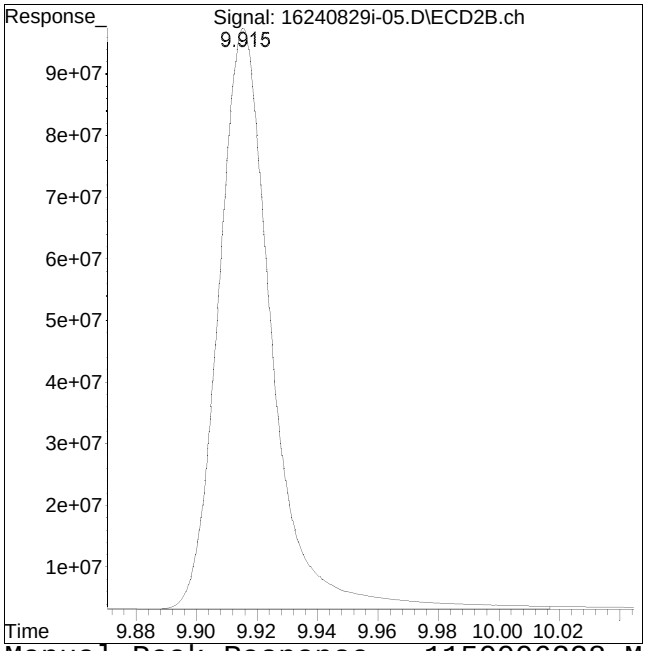
Original Peak Response = 1245137786 Manual Peak Response = 1163794730 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #25: Dinoseb #2





Original Peak Response = 1155254282 Manual Peak Response = 1150006228 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.393	8.316	1104.3E6	1426.0E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.820	7.216	691.0E6	874.8E6	0.861M4	0.856M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	172.20%#	171.20%#
		Target Compounds						
2)	t	Dalapon	1.817	1.774	742.3E6	892.0E6	0.840M4	0.842M3
4)	t	Dicamba	7.003	7.396	2266.7E6	2734.6E6	0.890M4	0.885M4
5)	t	MCPP	7.215	7.517	266.5E6	427.9E6	91.844M4	80.267M4
6)	t	MCPA	7.363	7.748	396.3E6	607.1E6	85.102M4	78.318M4
7)	t	Dichloroprop	7.720	8.069	669.2E6	846.8E6	0.872M4	0.868M4
8)	t	2,4-D	7.936	8.352	817.1E6	1073.3E6	0.912M4	0.878M4
9)	t	2,4,5-TP (Si	8.669	9.027	3117.3E6	4066.7E6	0.925M4	0.911M4
10)	t	2,4,5-T	8.895f	9.324	3003.9E6	3535.4E6	0.915M3	0.991M4
11)	t	2,4-DB	9.314f	9.696	442.8E6	627.0E6	0.946M3	0.950M4
12)	t	Dinoseb	10.065	9.915	2200.8E6	2292.7E6	0.931M4	0.913M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

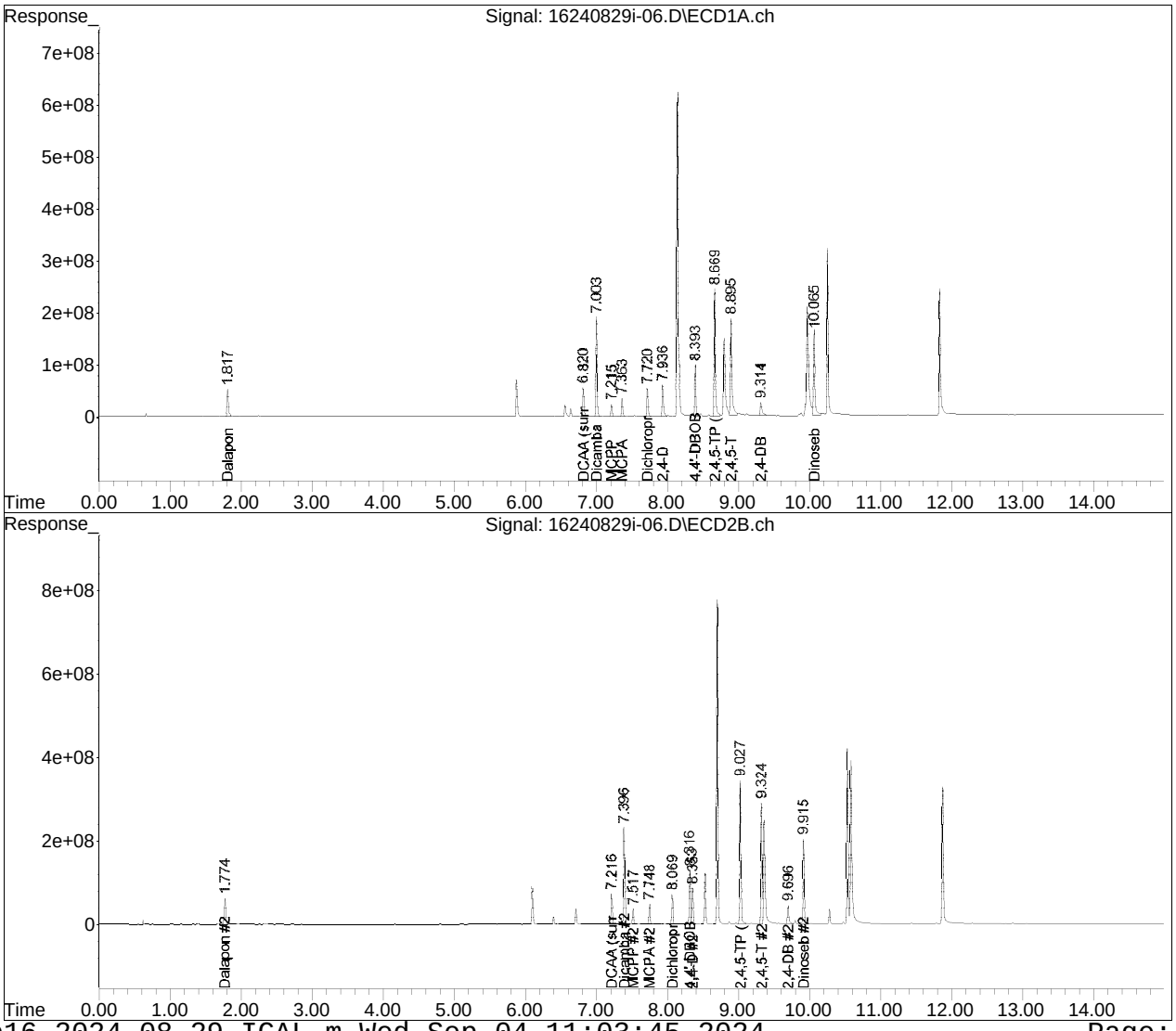
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

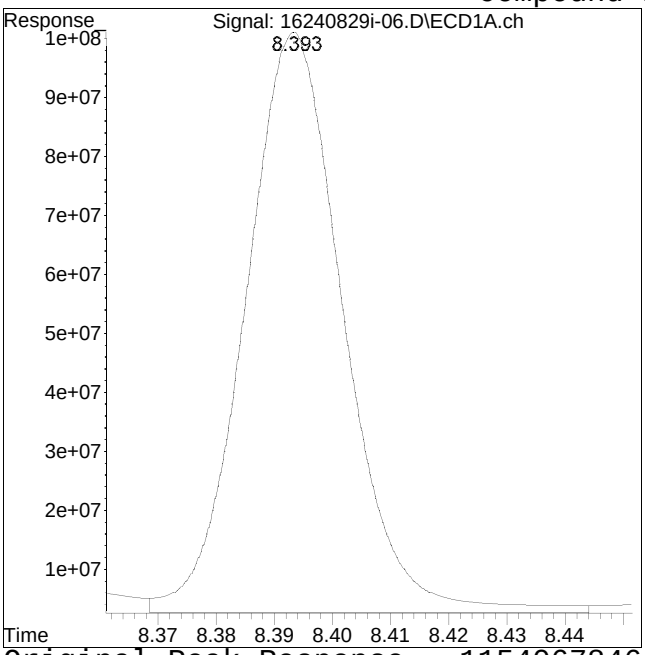
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

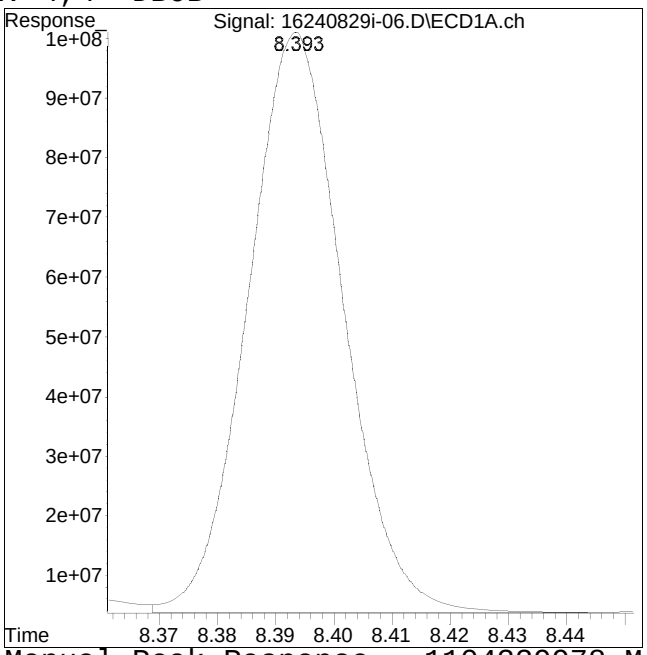


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #1: 4,4'-DBOB



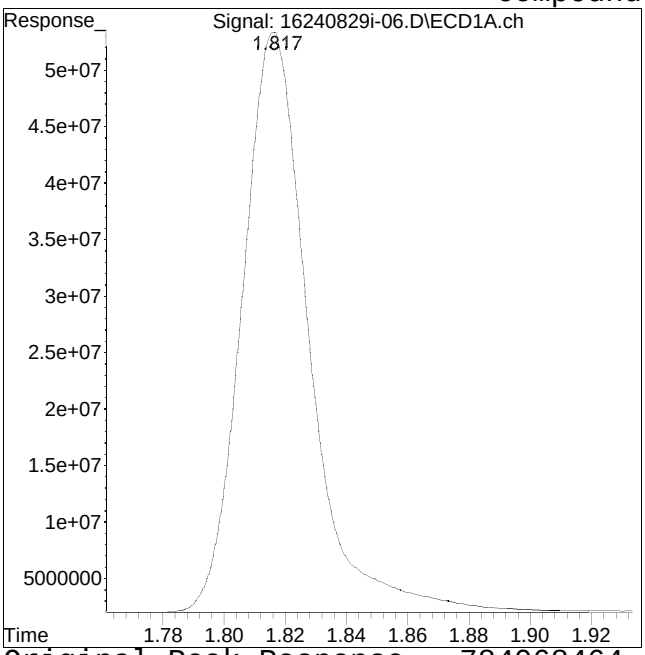


Original Peak Response = 1154067846 Manual Peak Response = 1104339978 M4
M4 = Poor automated baseline construction.

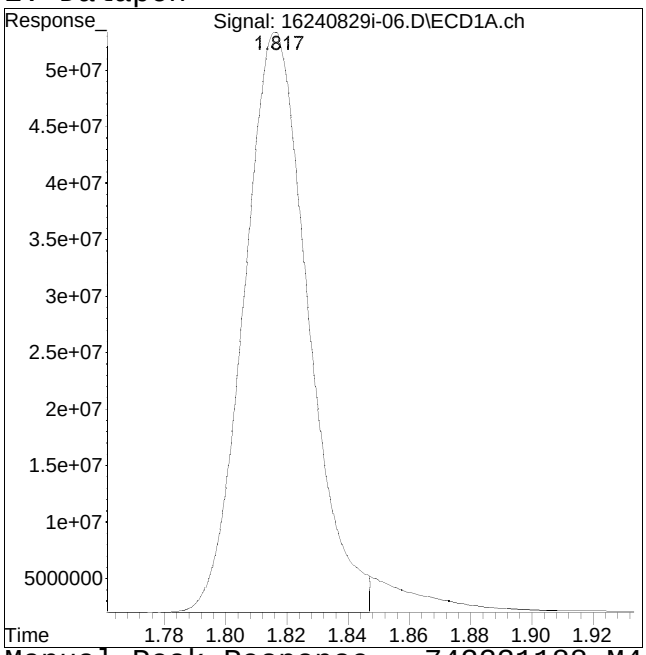
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #2: Dalapon



Original Peak Response = 784068464



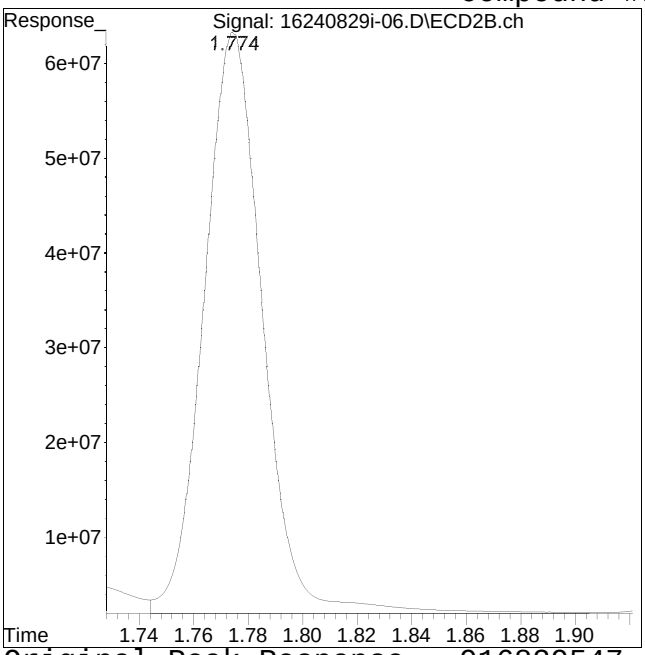
Manual Peak Response = 742331188 M4

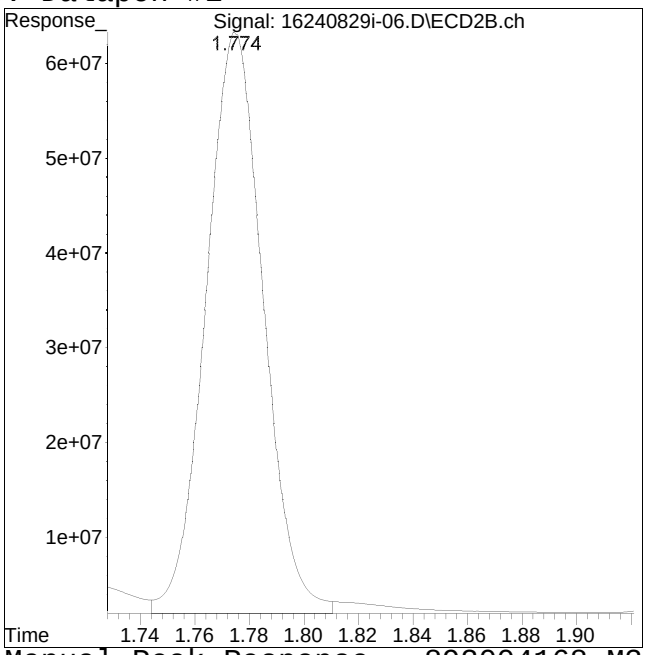
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #15: Dalapon #2



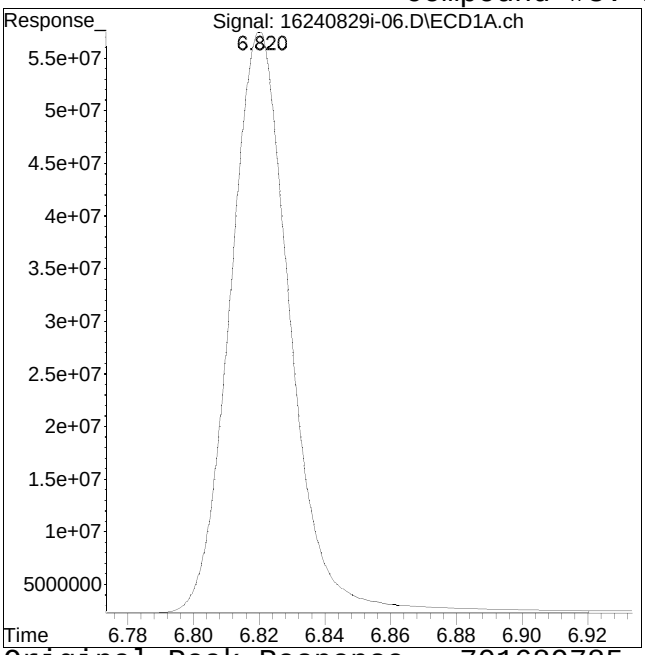


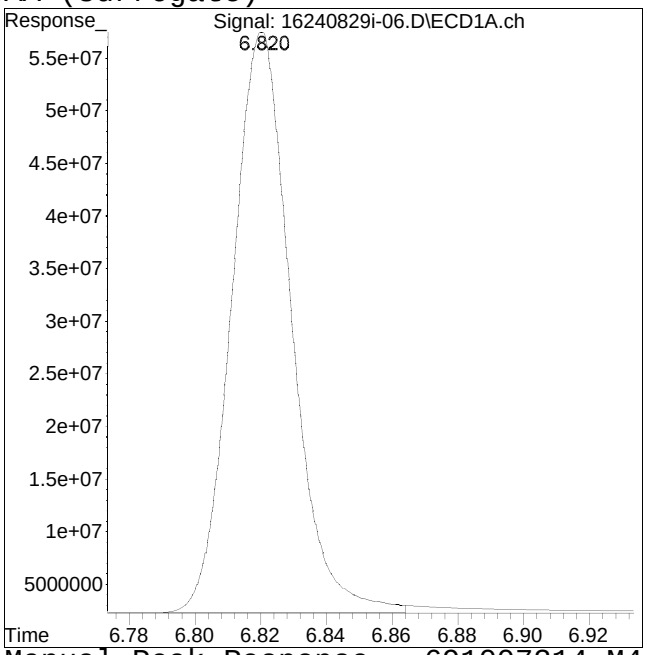
Original Peak Response = 916829547 Manual Peak Response = 892004168 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #3: DCAA (surrogate)



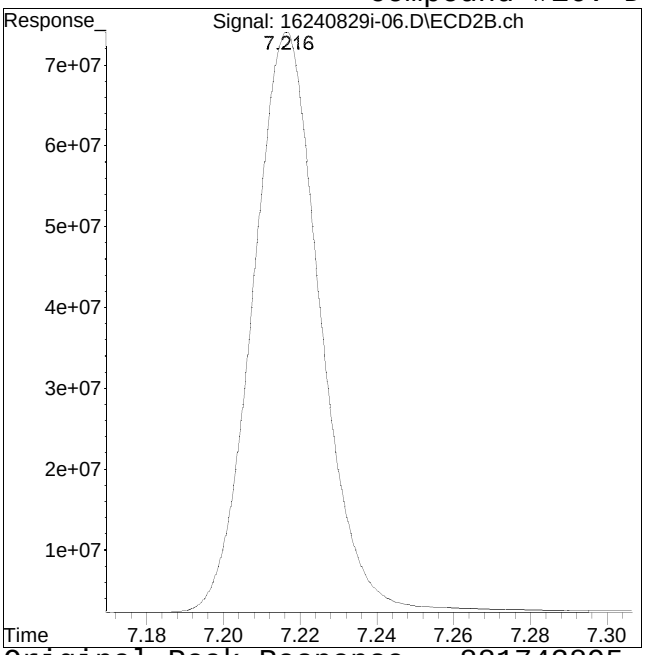


Original Peak Response = 701689785 Manual Peak Response = 691007314 M4
M4 = Poor automated baseline construction.

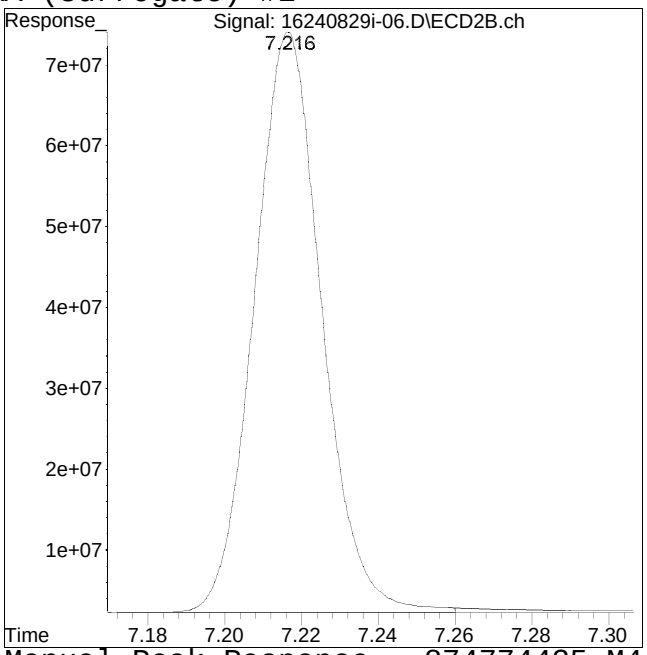
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 881743895



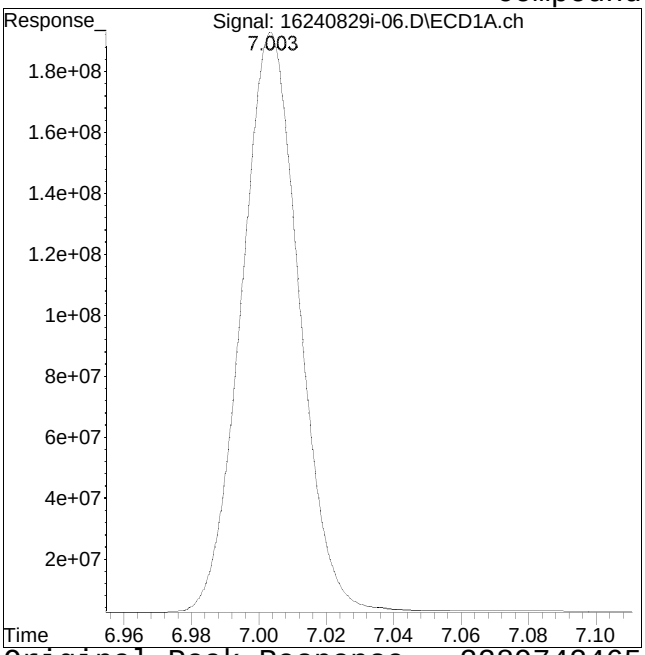
Manual Peak Response = 874774435 M4

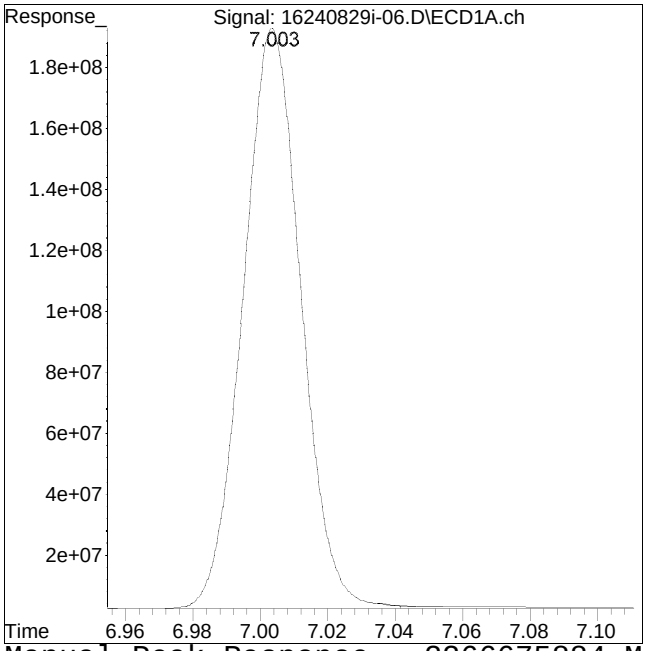
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #4: Dicamba



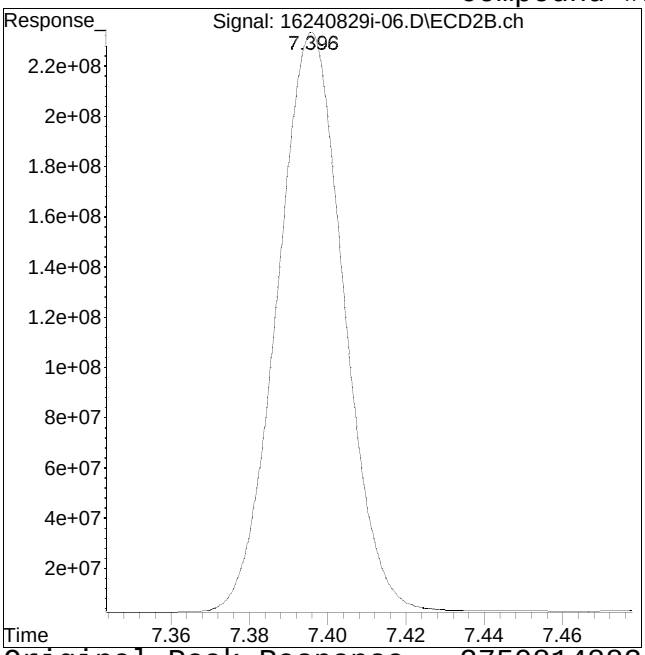


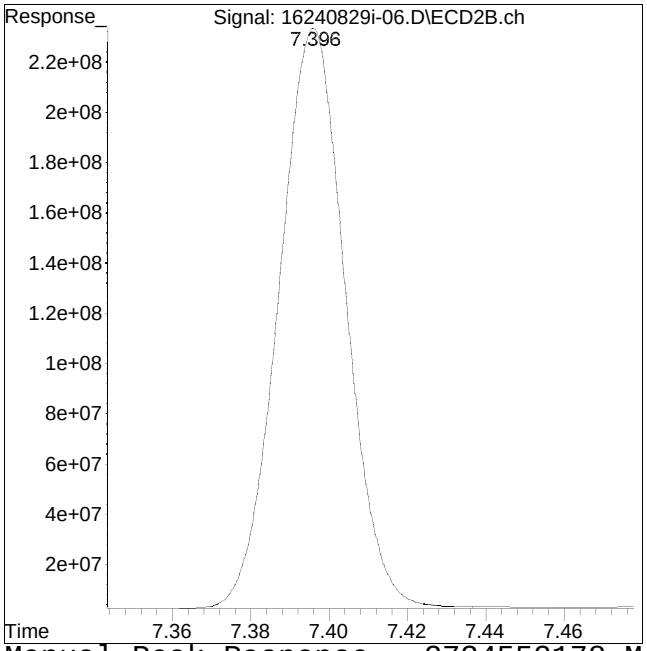
Original Peak Response = 2289742465 Manual Peak Response = 2266675884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #17: Dicamba #2



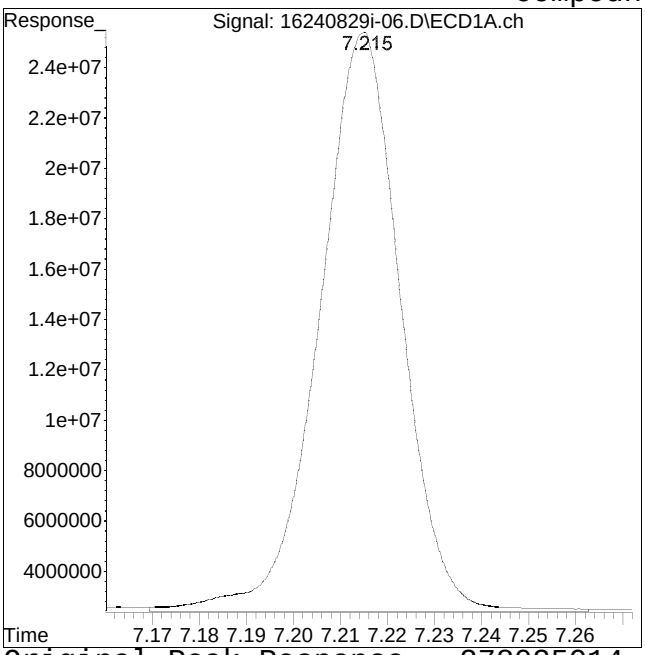


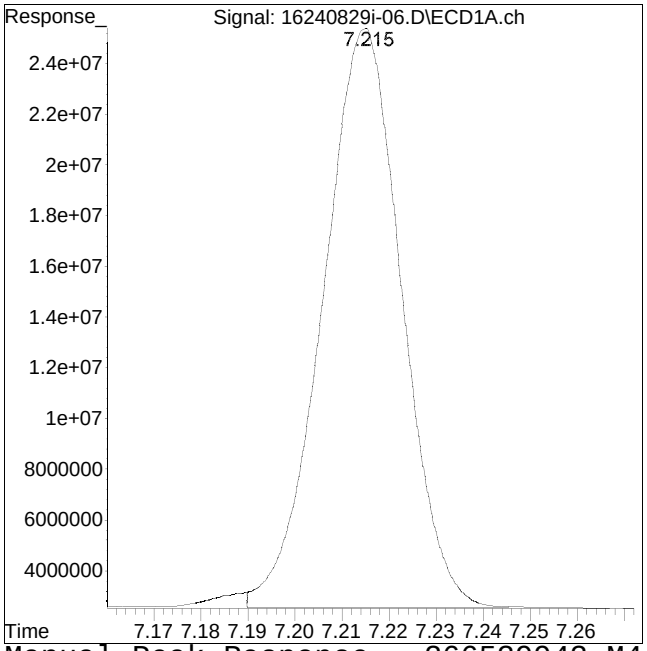
Original Peak Response = 2750814883 Manual Peak Response = 2734552178 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #5: MCPP



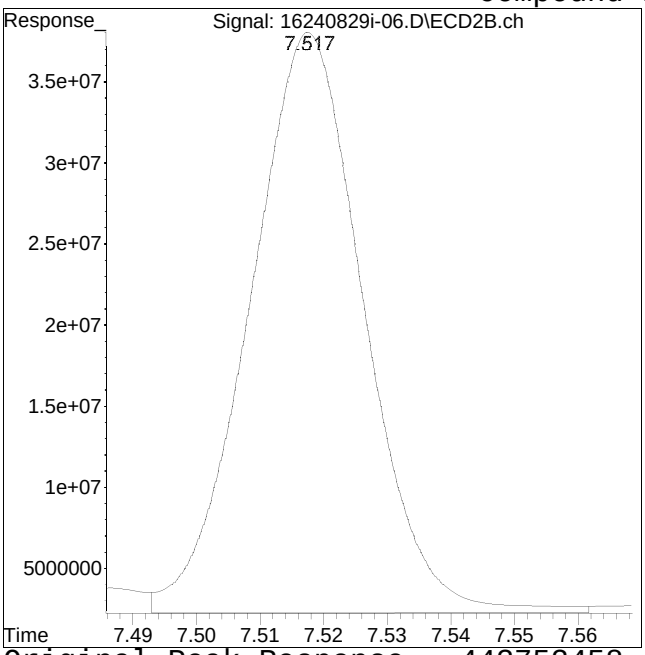


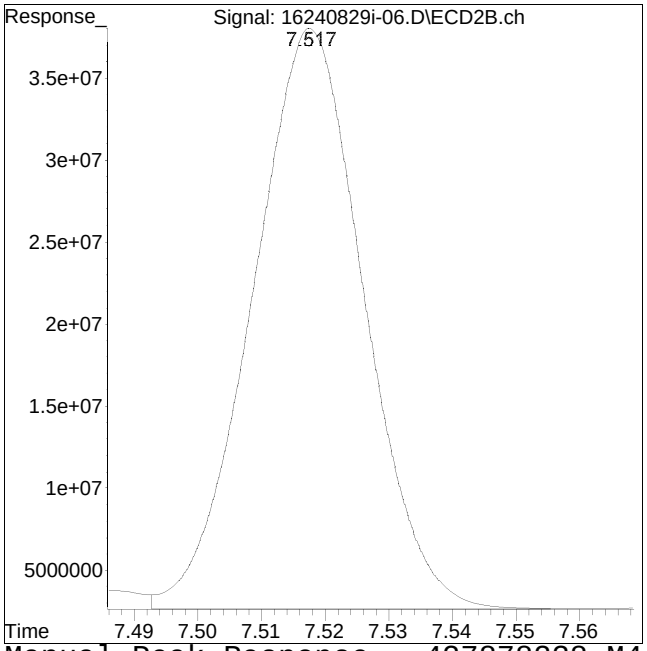
Original Peak Response = 278025914 Manual Peak Response = 266539943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #18: MCPP #2



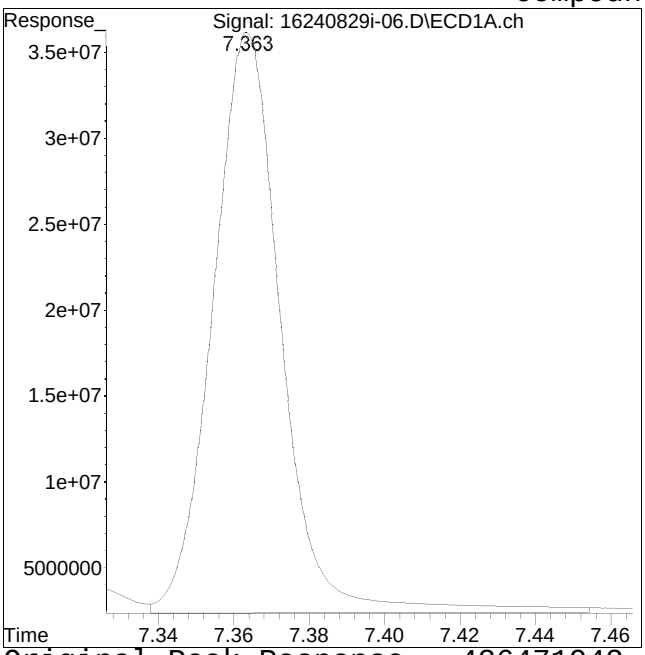


Original Peak Response = 443752458 Manual Peak Response = 427878238 M4
M4 = Poor automated baseline construction.

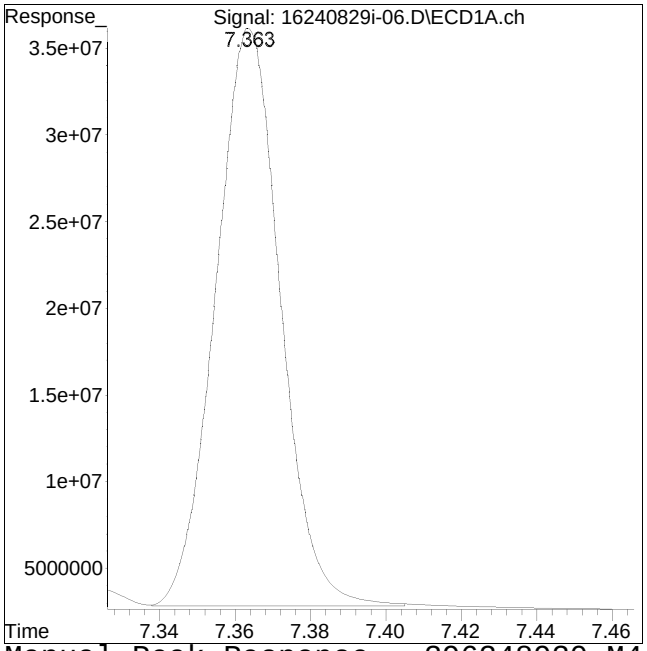
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #6: MCPA



Original Peak Response = 426471942



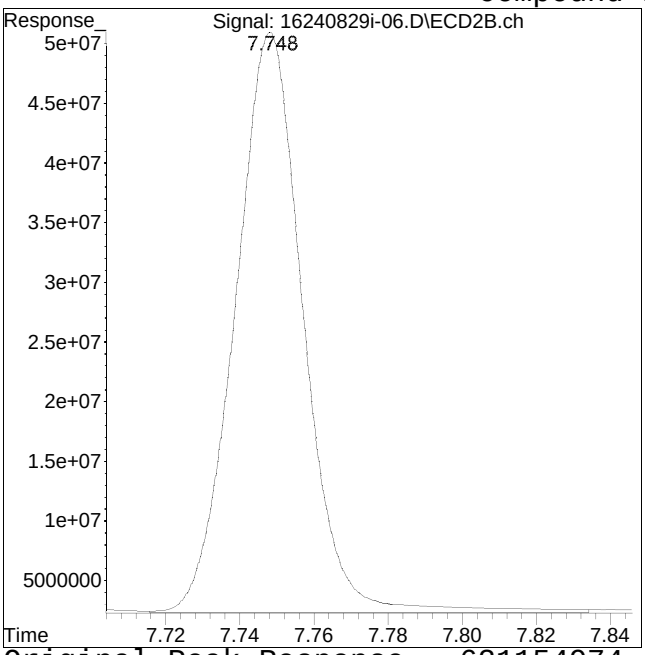
Manual Peak Response = 396348930 M4

M4 = Poor automated baseline construction.

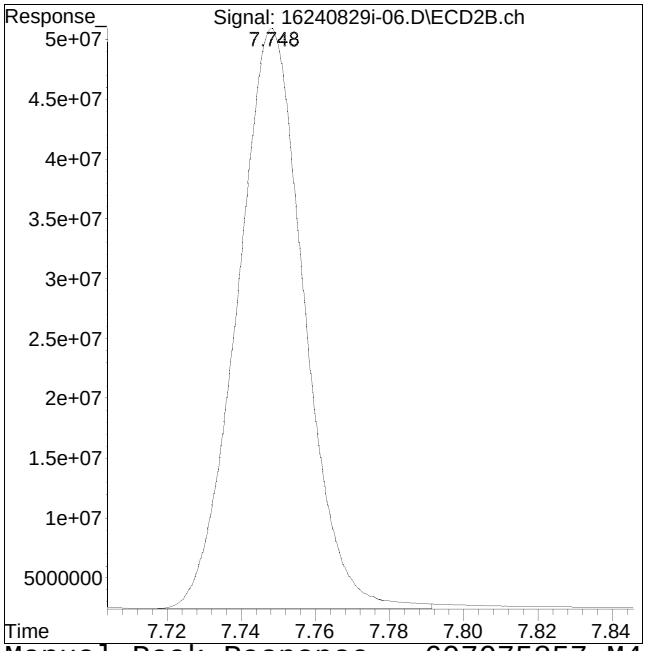
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #19: MCPA #2



Original Peak Response = 621154974

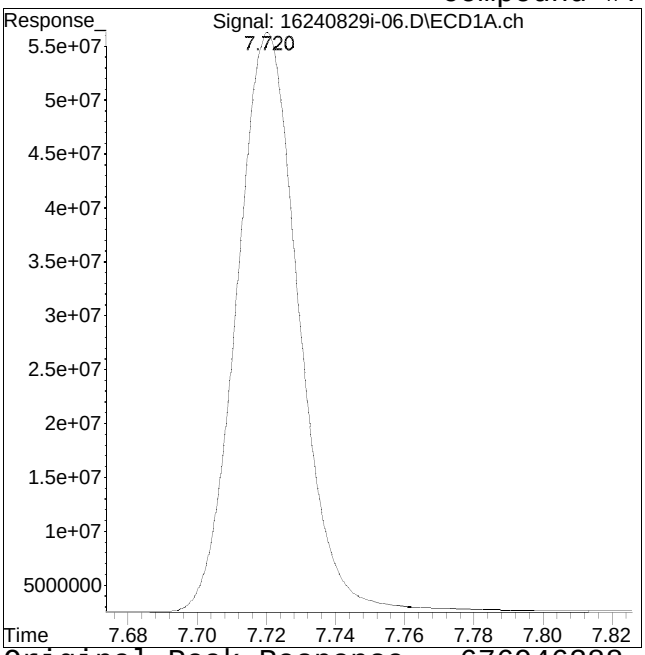


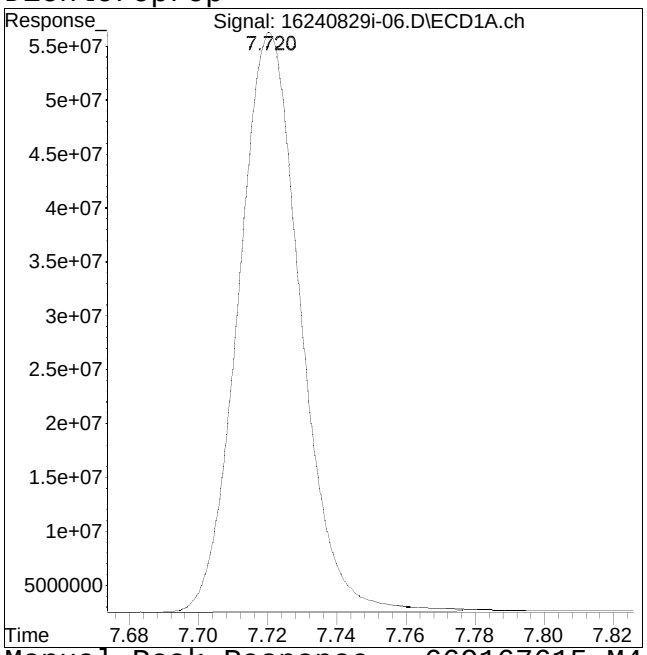
Manual Peak Response = 607075857 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #7: Dichloroprop



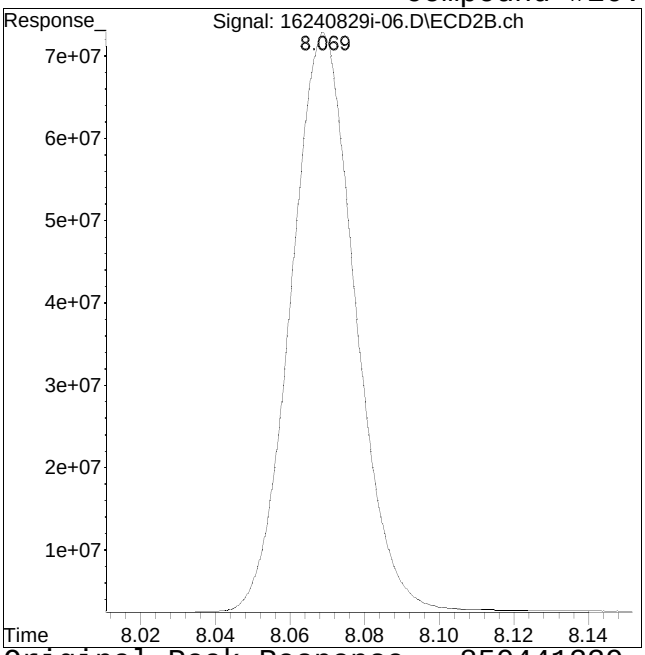


Original Peak Response = 676946388 Manual Peak Response = 669167615 M4
M4 = Poor automated baseline construction.

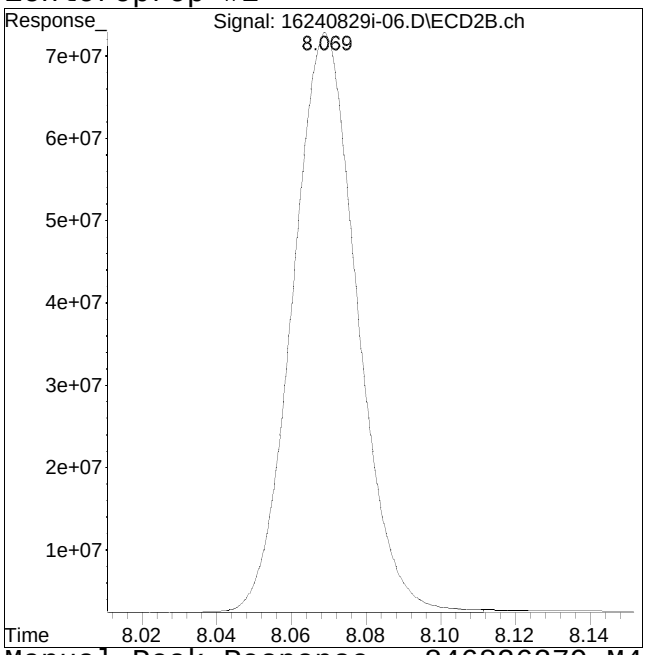
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #20: Dichloroprop #2



Original Peak Response = 850441339



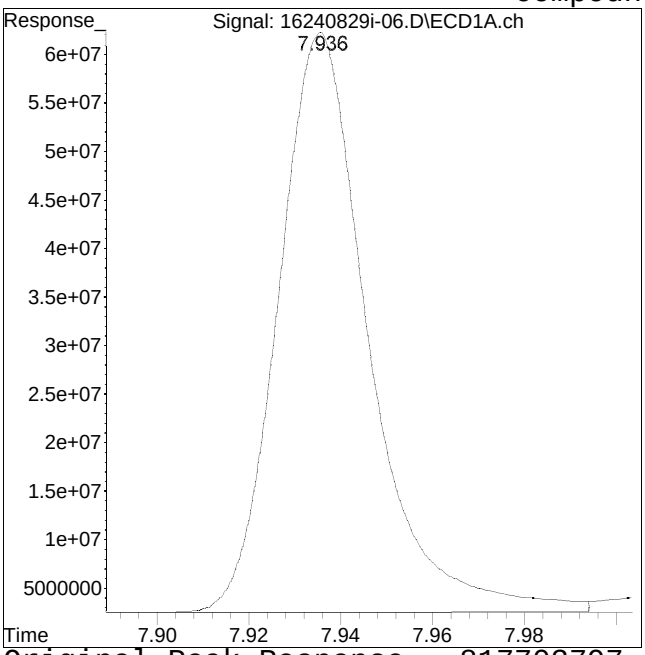
Manual Peak Response = 846826279 M4

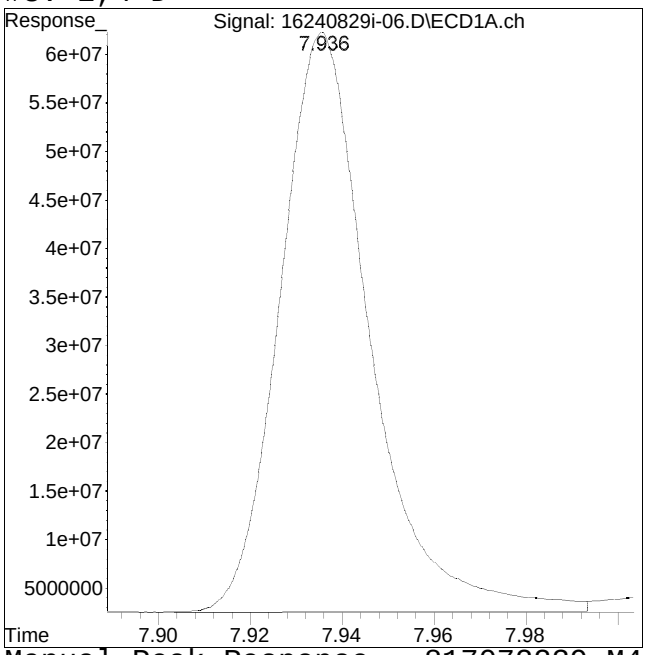
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #8: 2,4-D



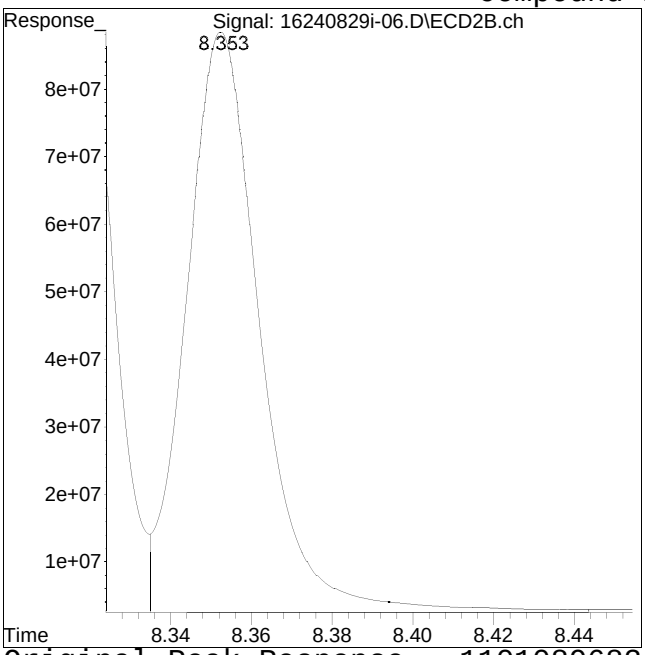


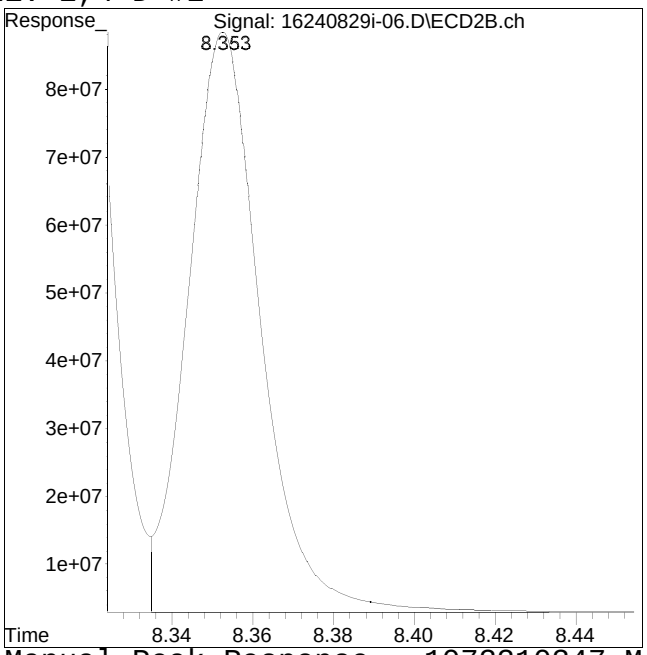
Original Peak Response = 817703797 Manual Peak Response = 817072239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #21: 2,4-D #2



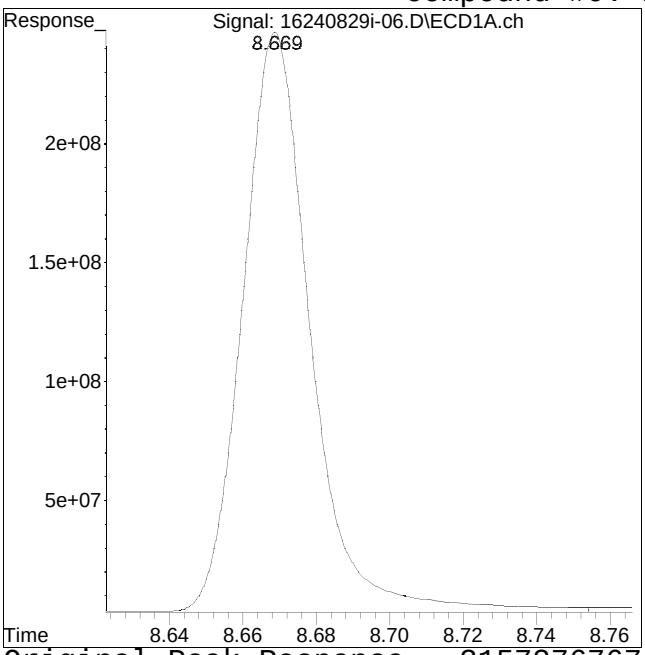


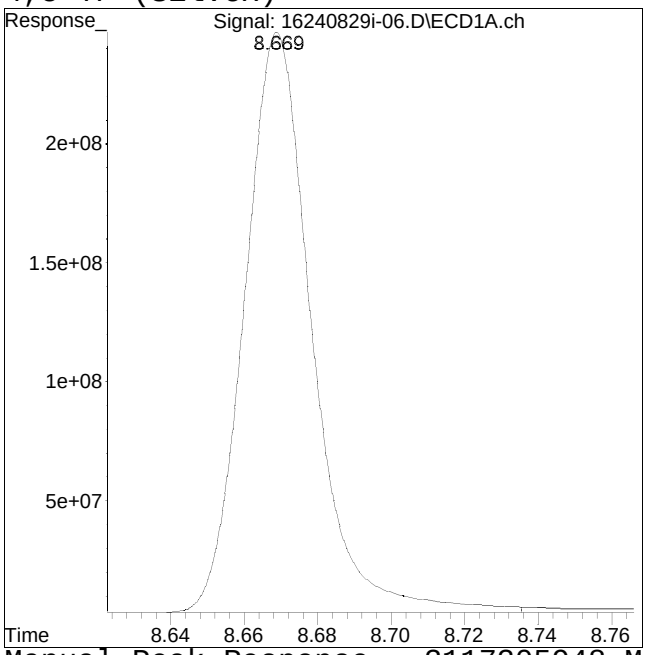
Original Peak Response = 1101089683 Manual Peak Response = 1073310347 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #9: 2,4,5-TP (Silvex)



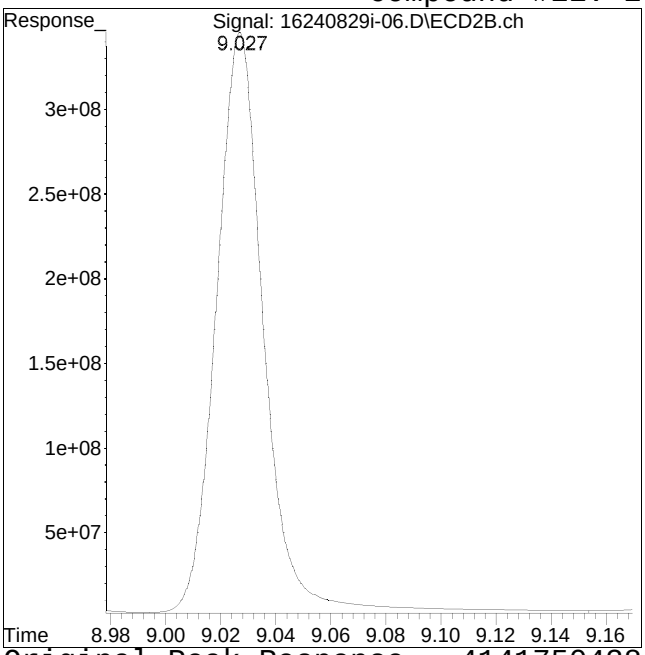


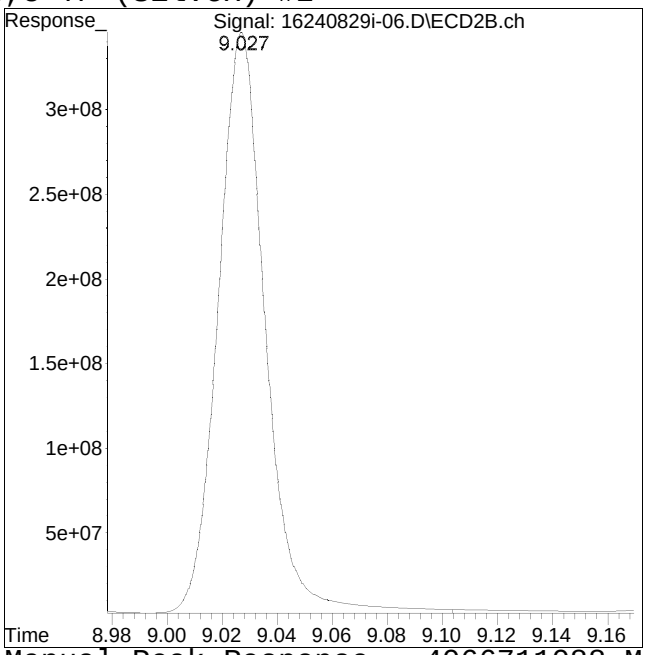
Original Peak Response = 3157376767 Manual Peak Response = 3117305948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #22: 2,4,5-TP (Silvex) #2



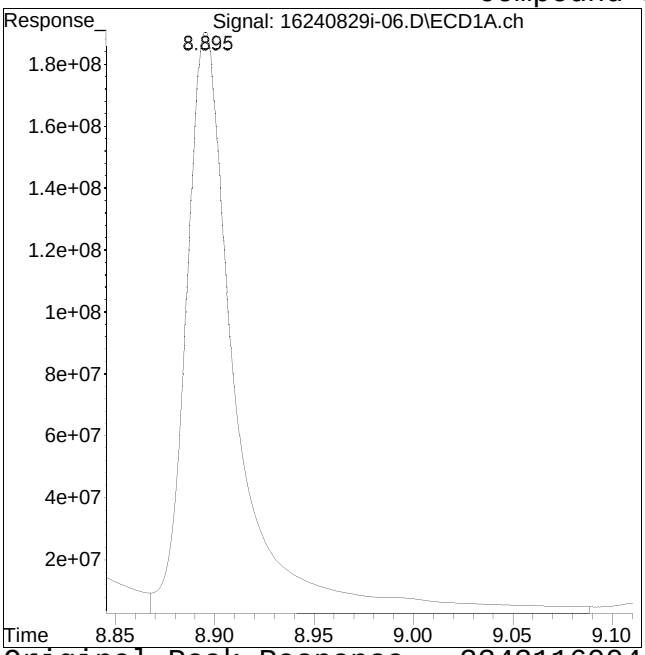


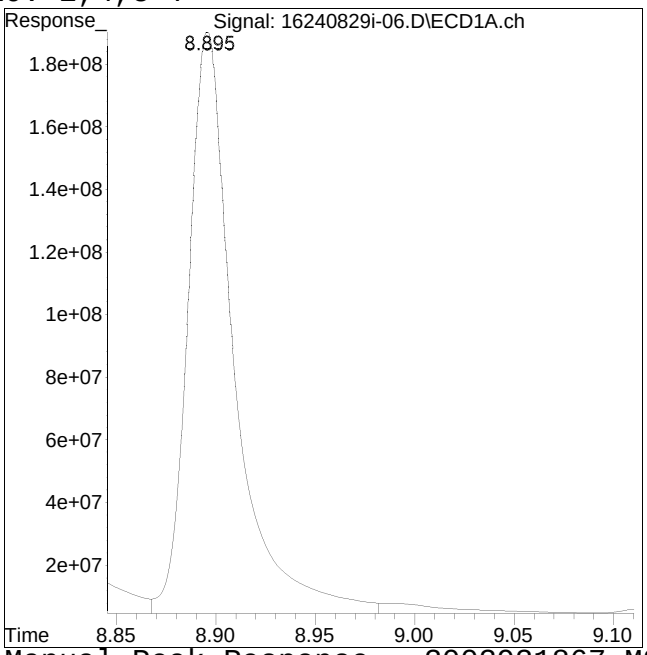
Original Peak Response = 4141750438 Manual Peak Response = 4066711088 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #10: 2,4,5-T



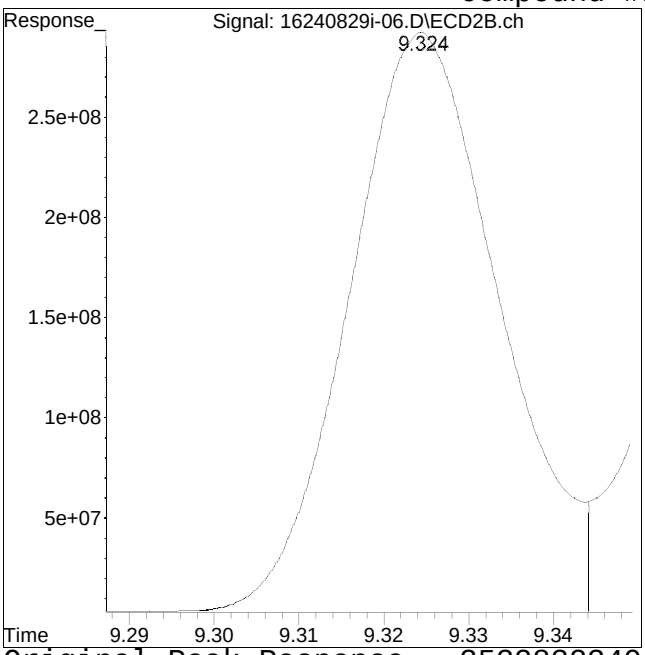


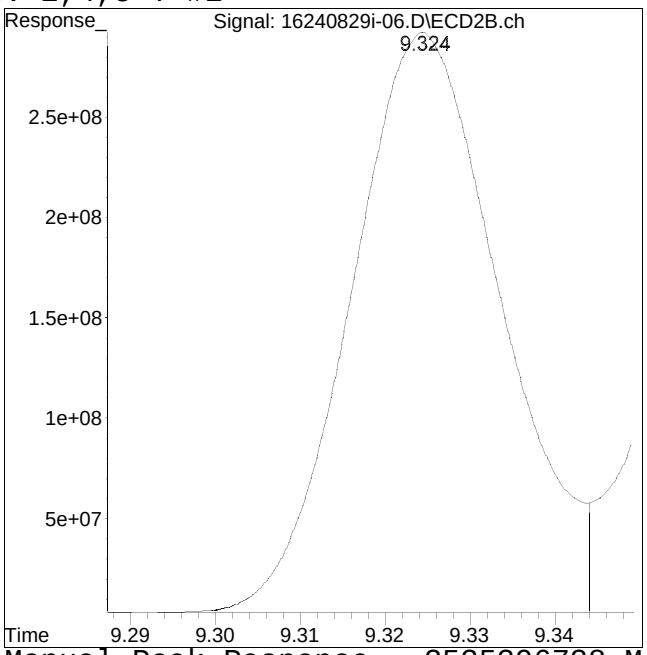
Original Peak Response = 3343116004 Manual Peak Response = 3003931867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #23: 2,4,5-T #2



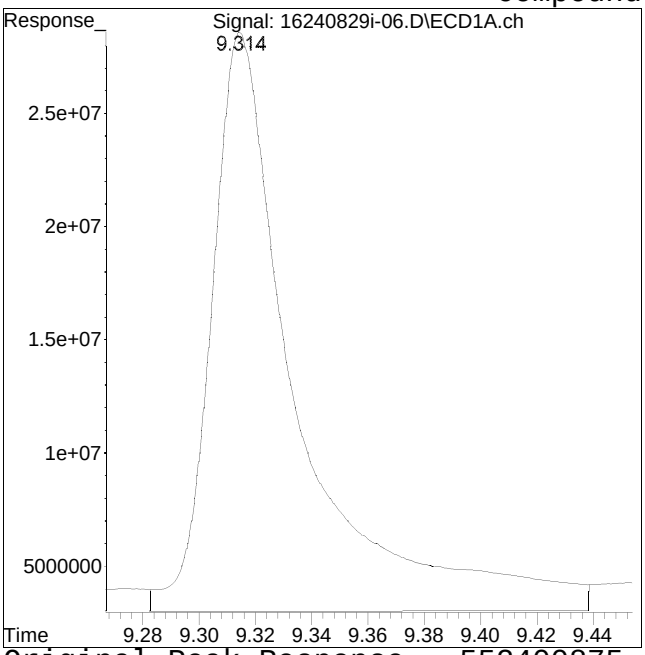


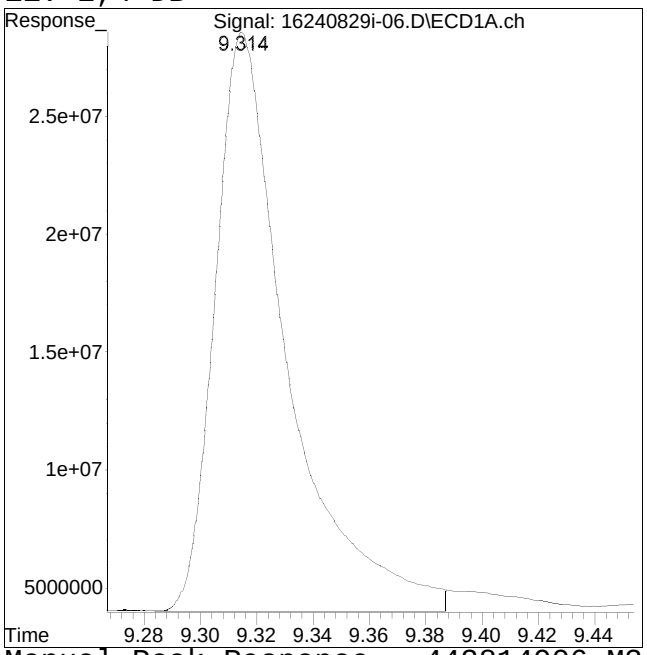
Original Peak Response = 3532832349 Manual Peak Response = 3535396738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #11: 2,4-DB



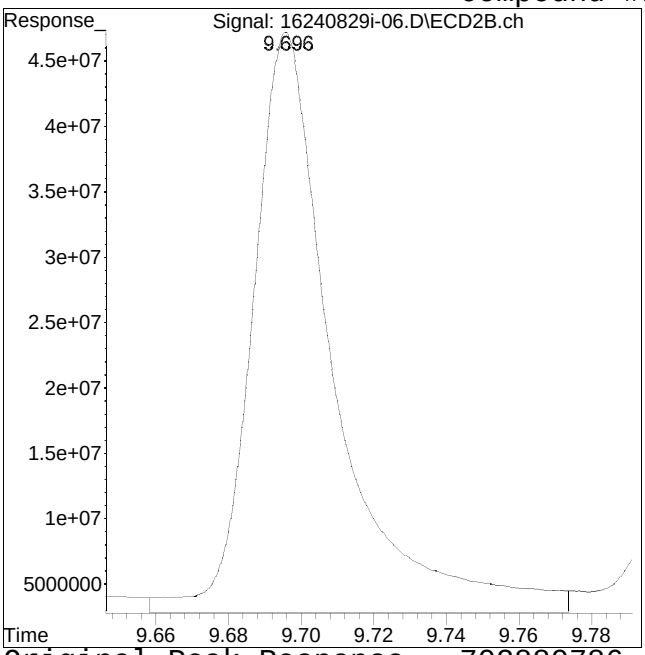


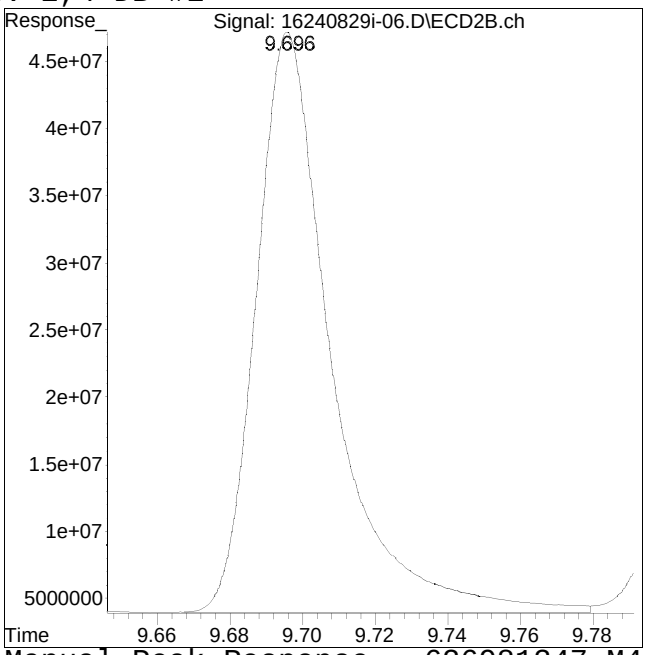
Original Peak Response = 552400875 Manual Peak Response = 442814906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #24: 2,4-DB #2



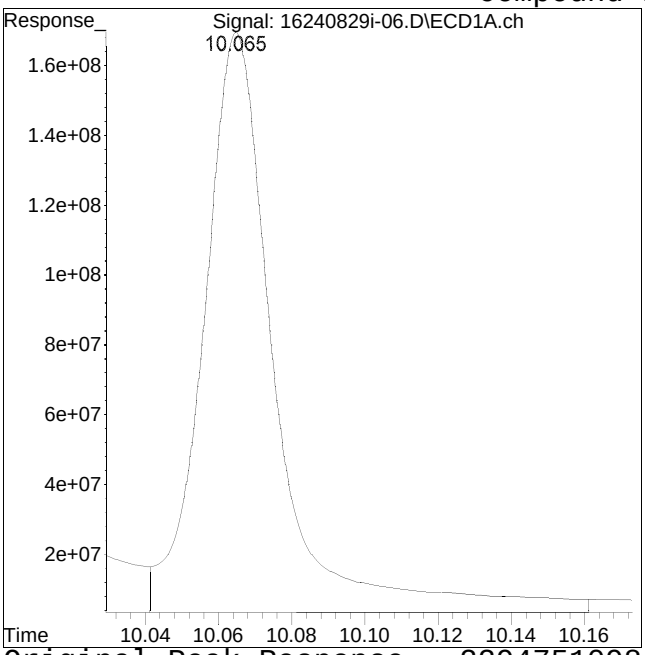


Original Peak Response = 702880786 Manual Peak Response = 626981347 M4
M4 = Poor automated baseline construction.

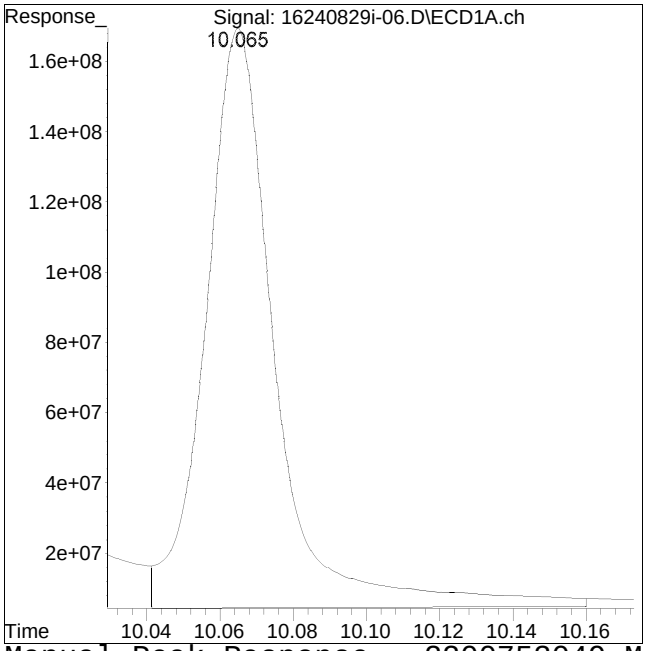
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #12: Dinoseb



Original Peak Response = 2294751098



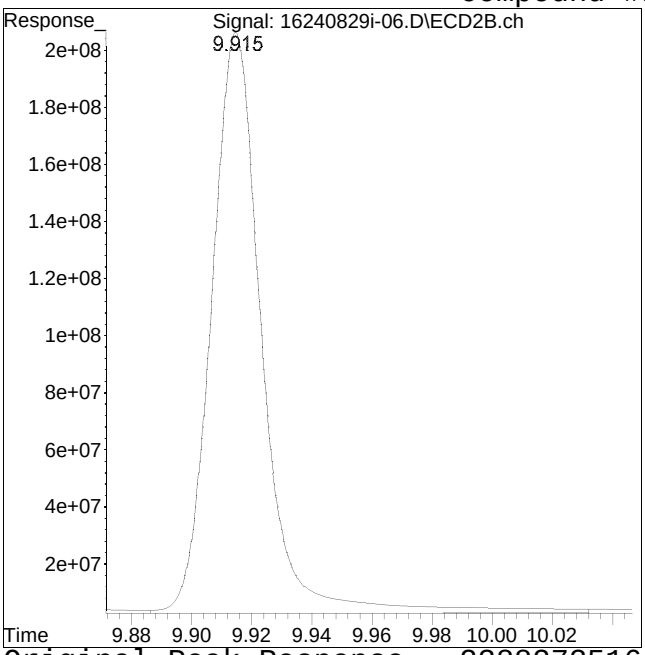
Manual Peak Response = 2200753049 M4

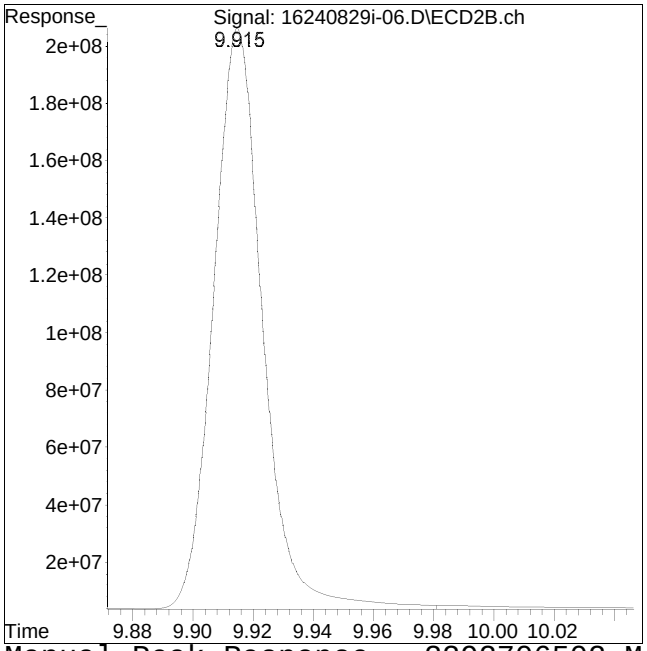
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #25: Dinoseb #2





Original Peak Response = 2388273516 Manual Peak Response = 2292706502 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:25 pm
Operator : pest16:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:57:17 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:56:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.394	8.316	1207.6E6	1455.4E6	0.250	0.250
	System Monitoring Compounds						
3) s	DCAA (surrog	6.820	7.217	1386.3E6	1728.6E6	1.523M4	1.559
	Spiked Amount	0.500	Range 30 - 150		Recovery =	304.60%#	311.80%#
	Target Compounds						
2) t	Dalapon	1.816	1.774	1512.6E6	1724.7E6	1.523	1.531
4) t	Dicamba	7.004	7.396	4690.9E6	5513.5E6	1.644M3	1.670M4
5) t	MCPP	7.217	7.521	560.9E6	819.1E6	177.876M4	186.193M4
6) t	MCPA	7.368	7.752	843.3E6	1156.6E6	166.099M4	184.510
7) t	Dichloroprop	7.721	8.069	1349.5E6	1673.2E6	1.555	1.584
8) t	2,4-D	7.935	8.353	1669.2E6	2185.7E6	1.724	1.631
9) t	2,4,5-TP (Si	8.669	9.026	6556.8E6	8344.6E6	1.754	1.764M3
10) t	2,4,5-T	8.892f	9.323	6439.1E6	7724.2E6	1.746M4	2.128
11) t	2,4-DB	9.309f	9.693	954.1E6	1291.7E6	1.900M4	1.866M4
12) t	Dinoseb	10.065	9.915	4567.7E6	4743.0E6	1.554M4	1.789M4

SemiQuant Compounds - Not Calibrated on this Instrument

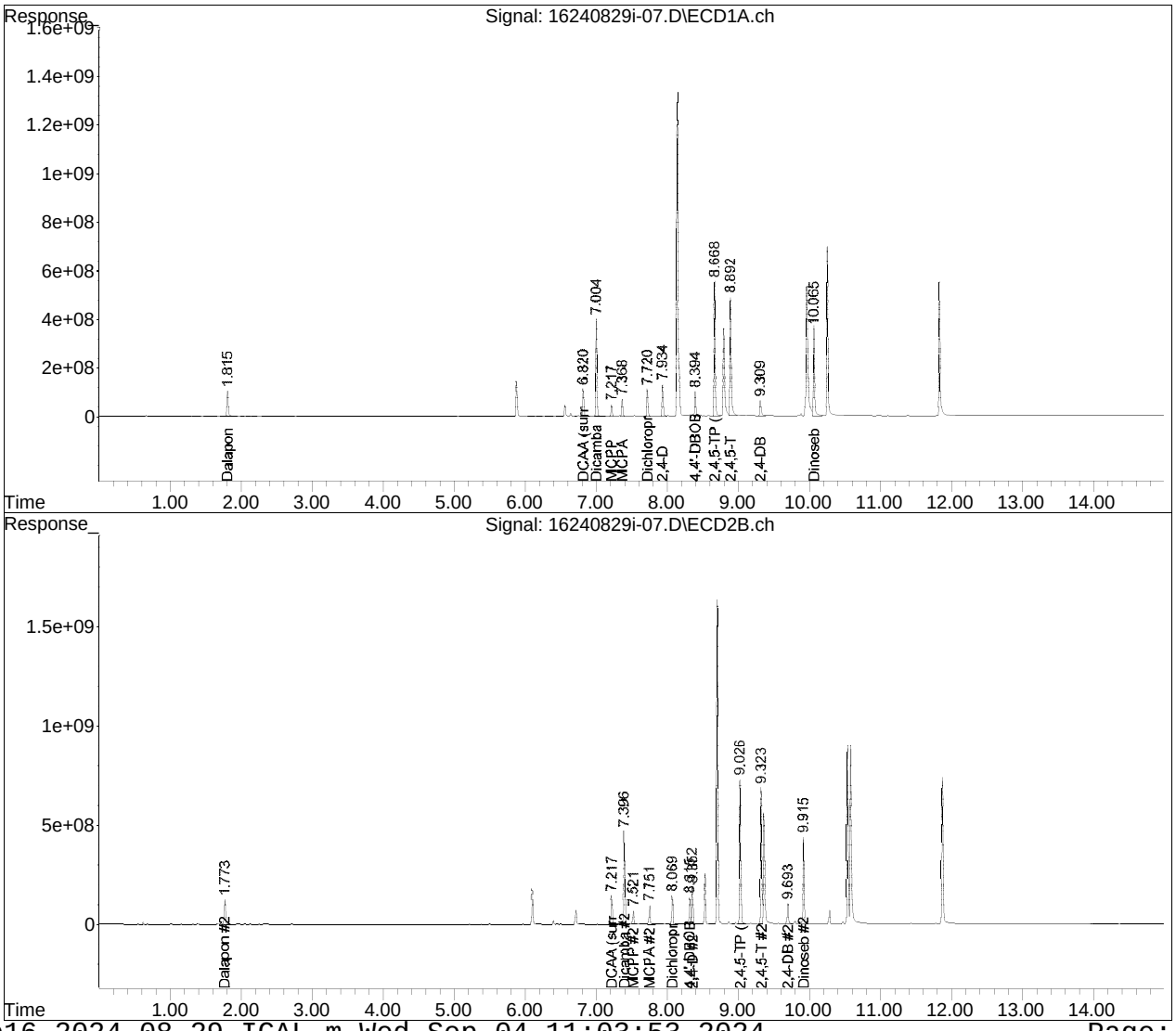
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:25 pm
Operator : pest16:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:57:17 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:56:54 2024
Response via : Initial Calibration
Integrator: ChemStation

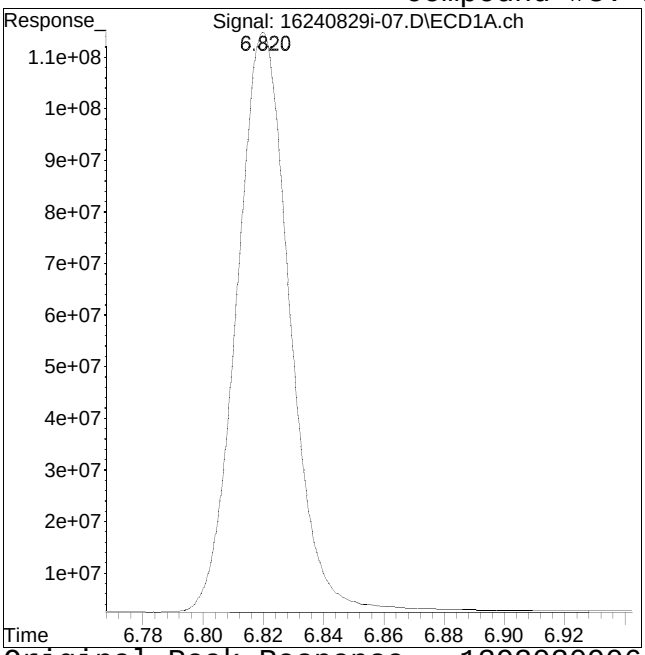
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

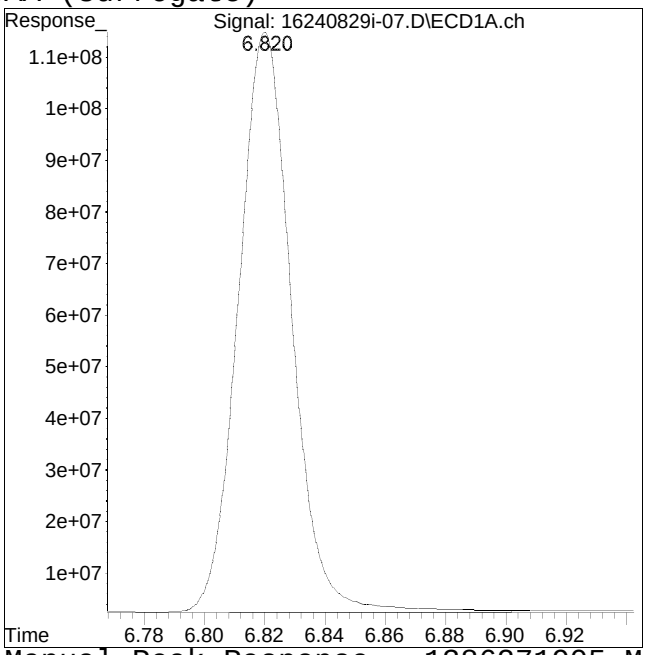


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #3: DCAA (surrogate)



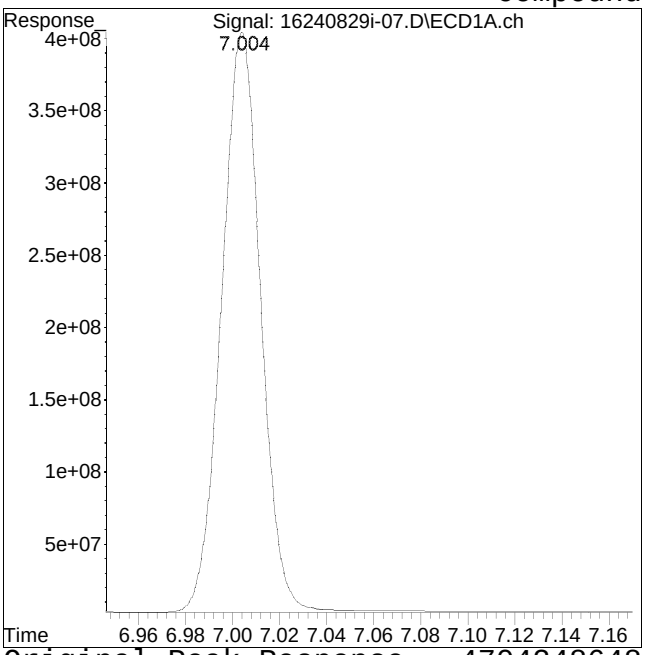


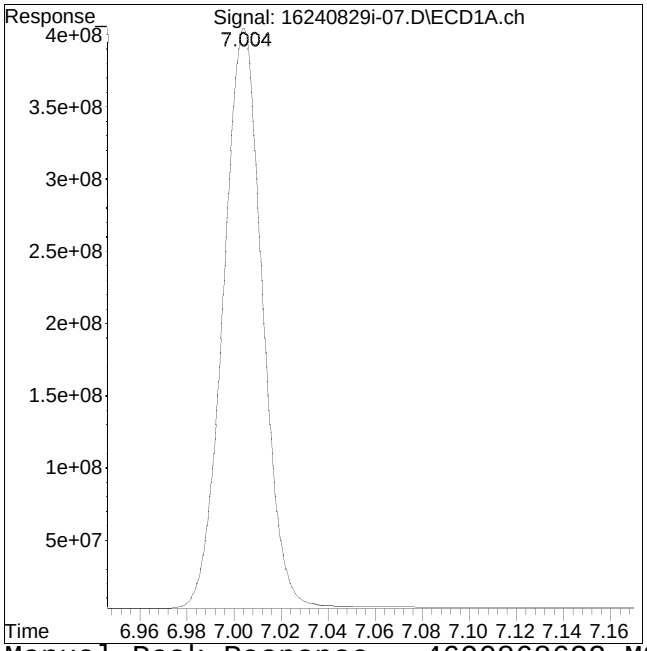
Original Peak Response = 1393030906 Manual Peak Response = 1386271905 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #4: Dicamba



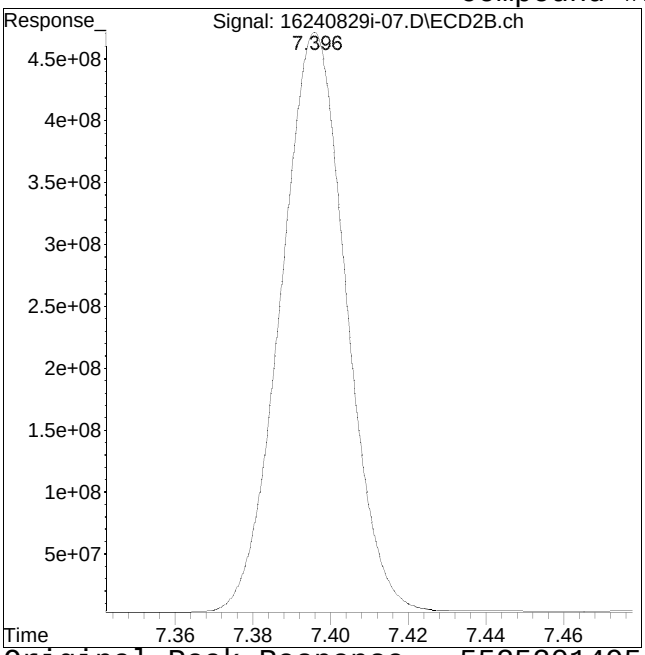


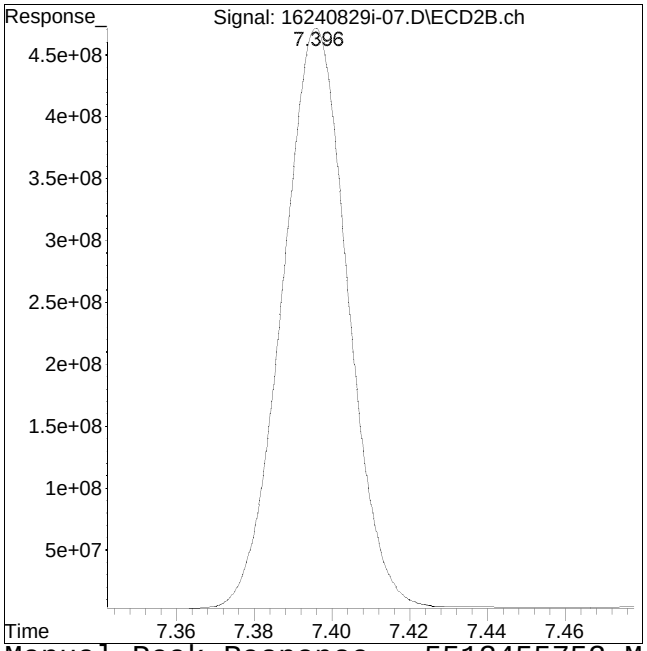
Original Peak Response = 4704248648 Manual Peak Response = 4690868622 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #17: Dicamba #2



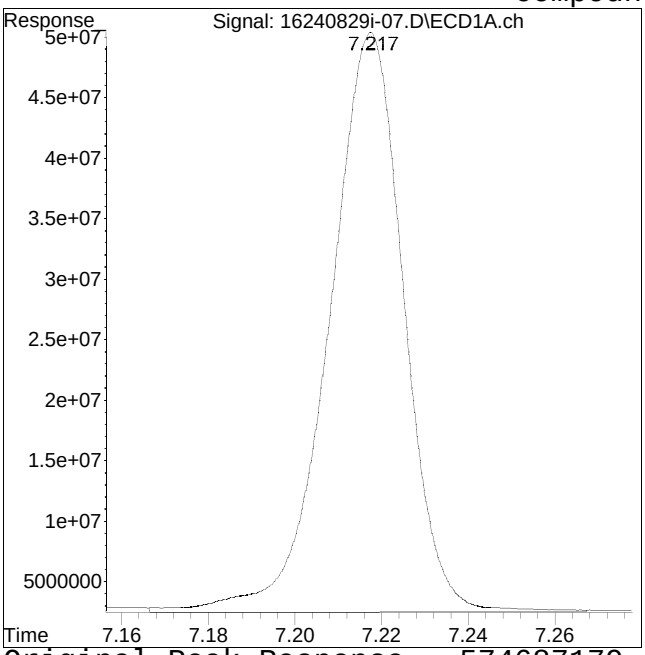


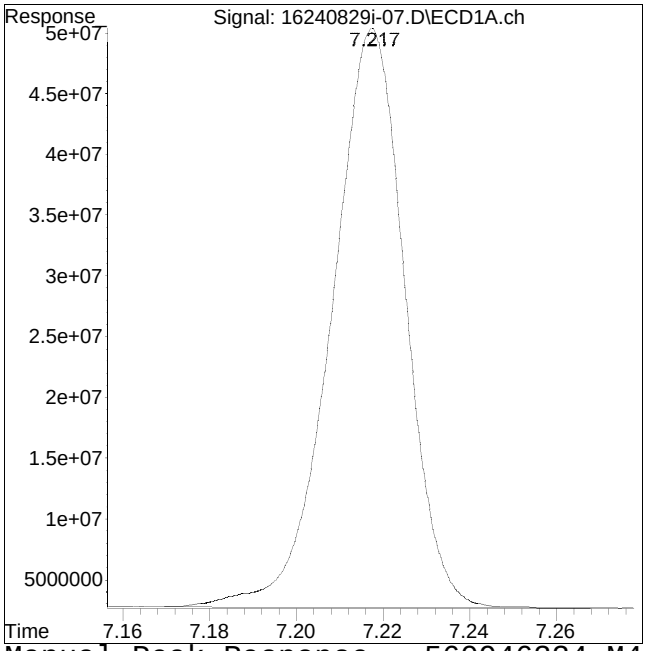
Original Peak Response = 5525201495 Manual Peak Response = 5513455753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #5: MCPP



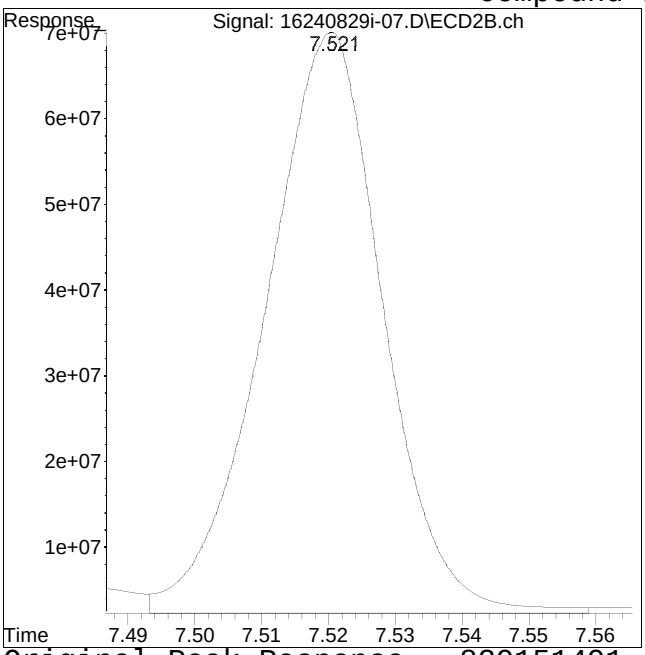


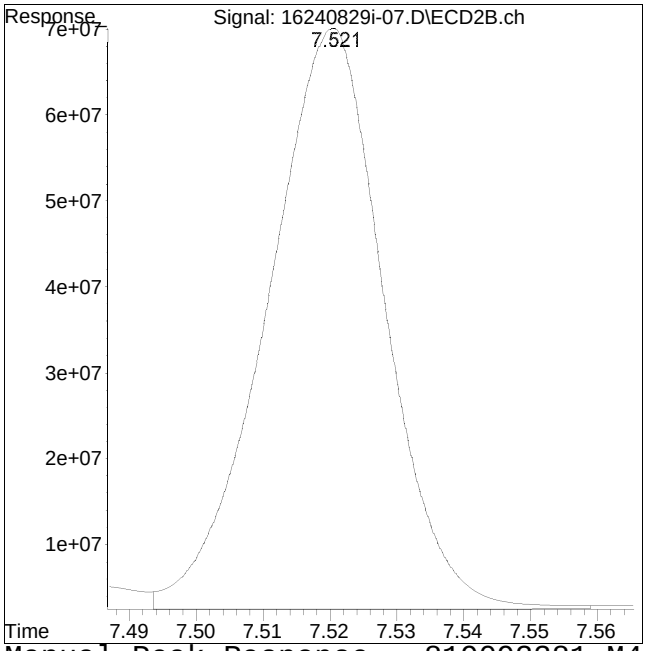
Original Peak Response = 574687179 Manual Peak Response = 560946334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #18: MCPP #2



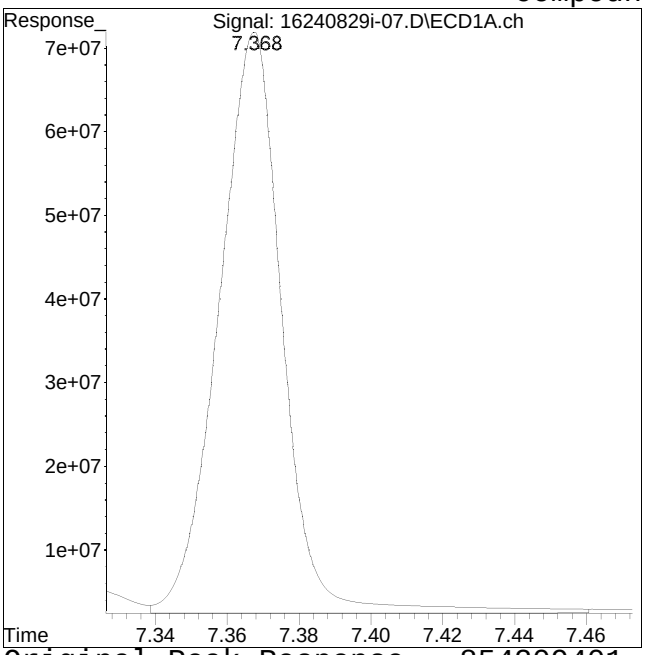


Original Peak Response = 829151491 Manual Peak Response = 819093381 M4
M4 = Poor automated baseline construction.

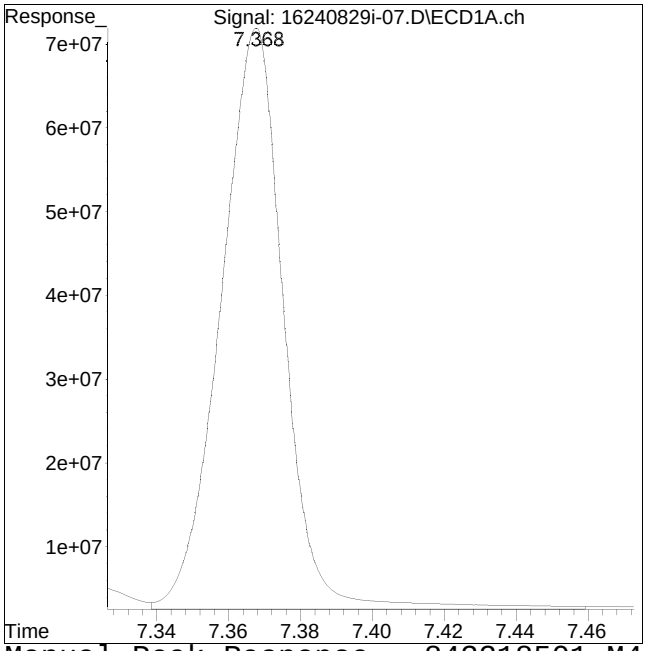
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #6: MCPA



Original Peak Response = 854209401

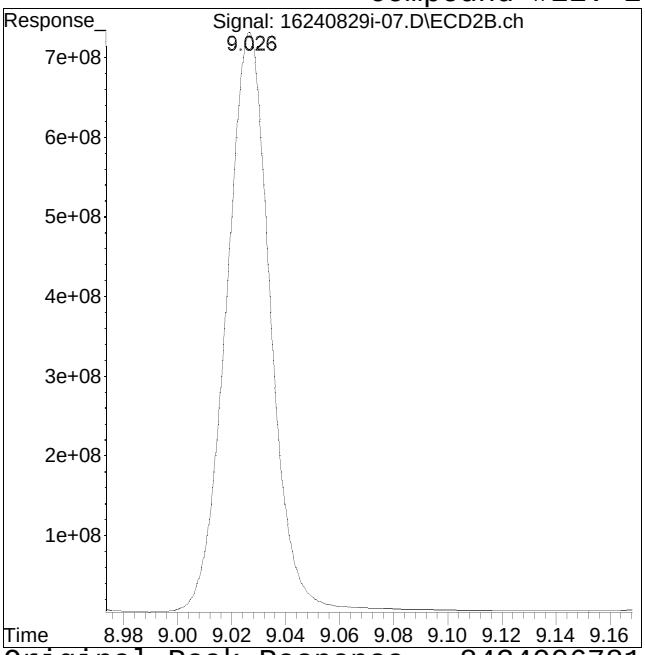


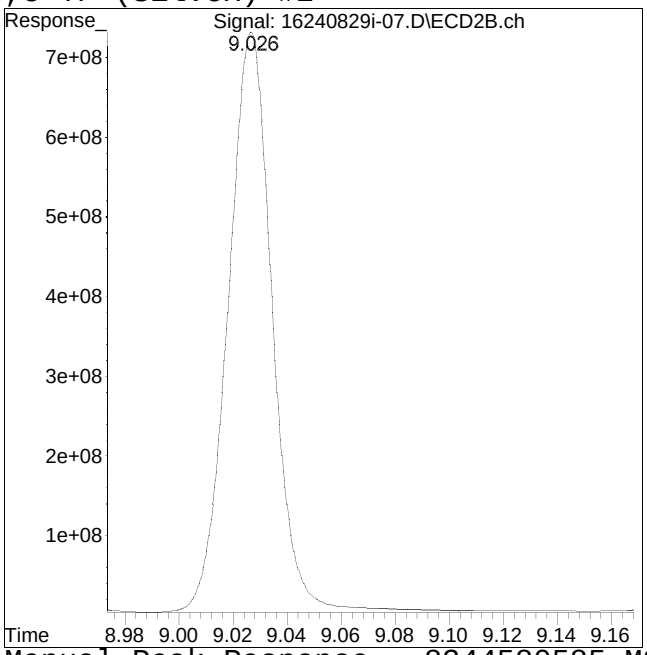
Manual Peak Response = 843318501 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #22: 2,4,5-TP (Silvex) #2



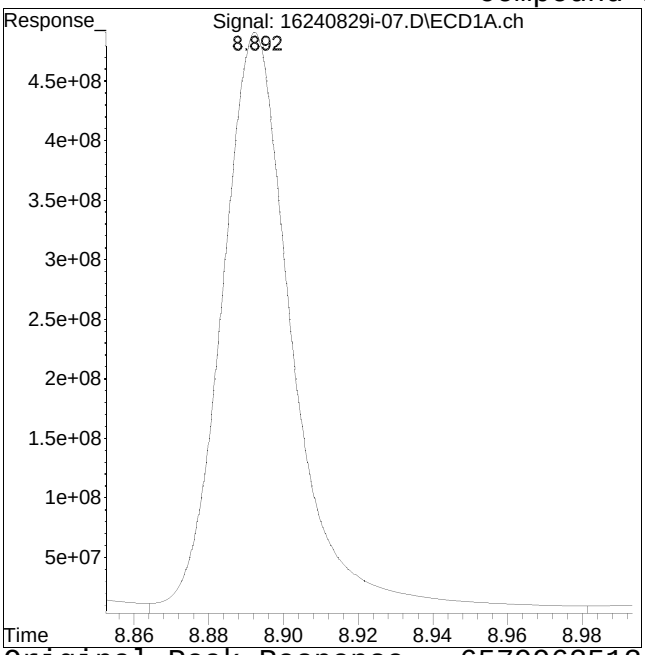


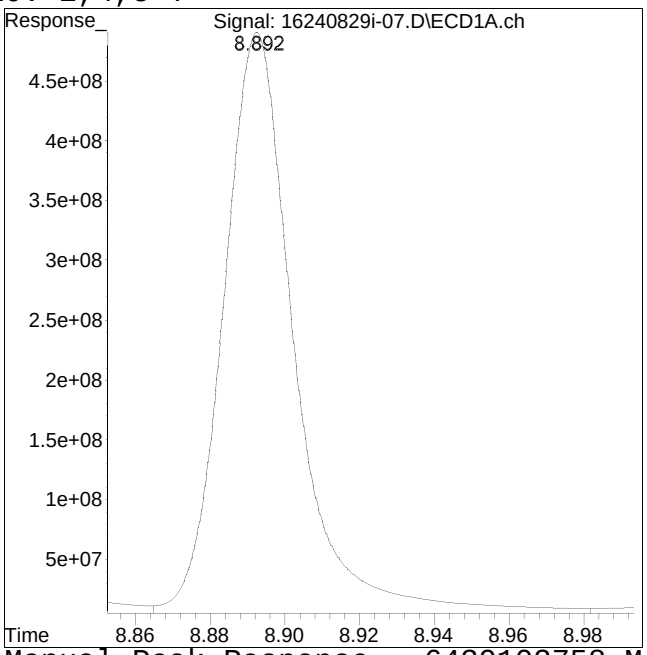
Original Peak Response = 8434006781 Manual Peak Response = 8344580585 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #10: 2,4,5-T



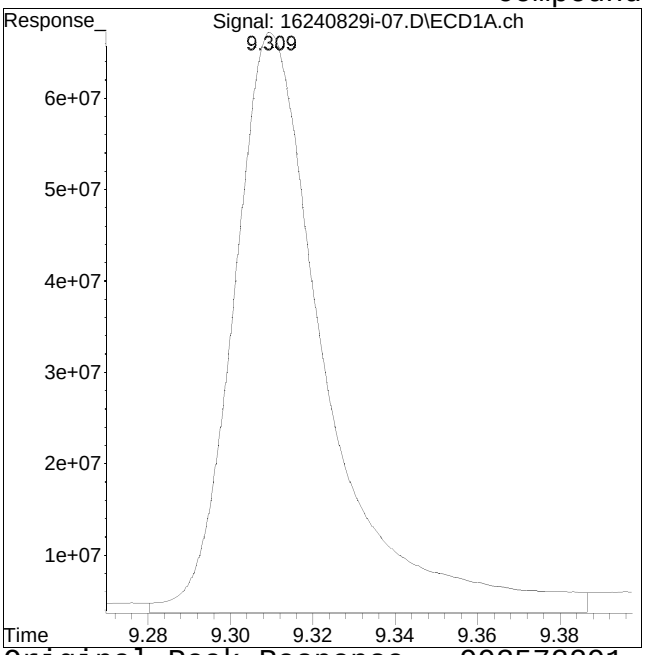


Original Peak Response = 6579963513 Manual Peak Response = 6439103758 M4
M4 = Poor automated baseline construction.

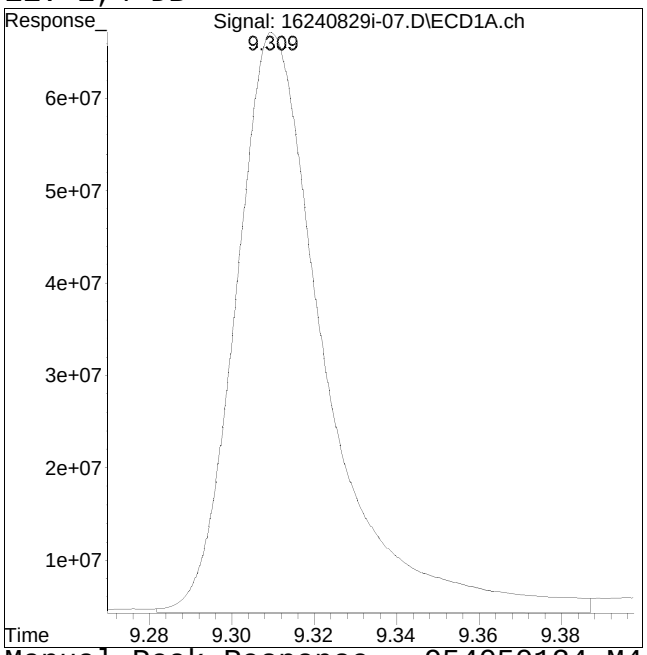
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #11: 2,4-DB



Original Peak Response = 993572291



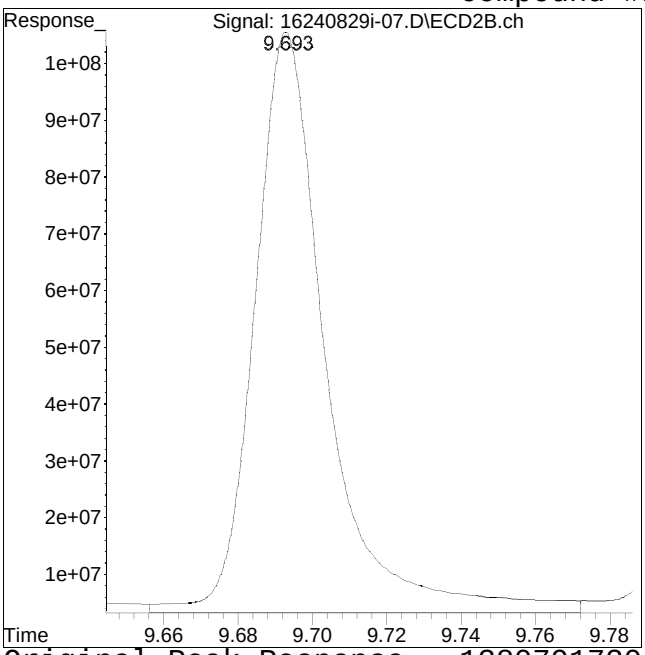
Manual Peak Response = 954050124 M4

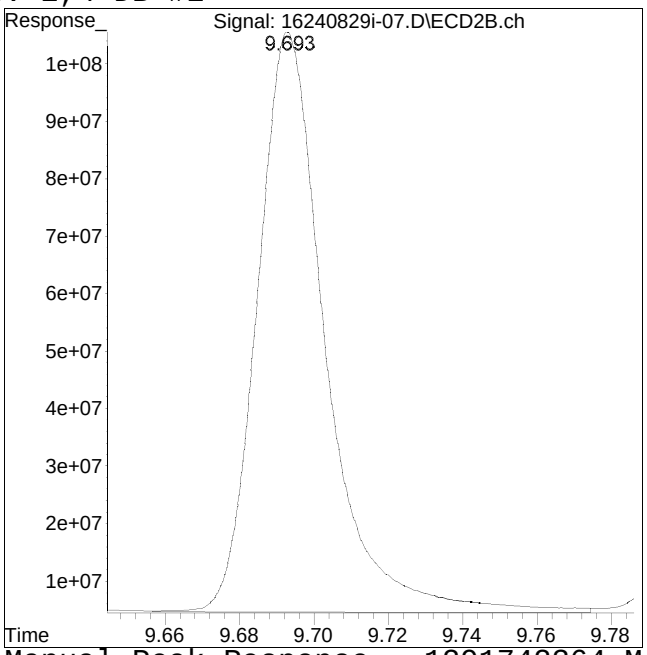
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #24: 2,4-DB #2



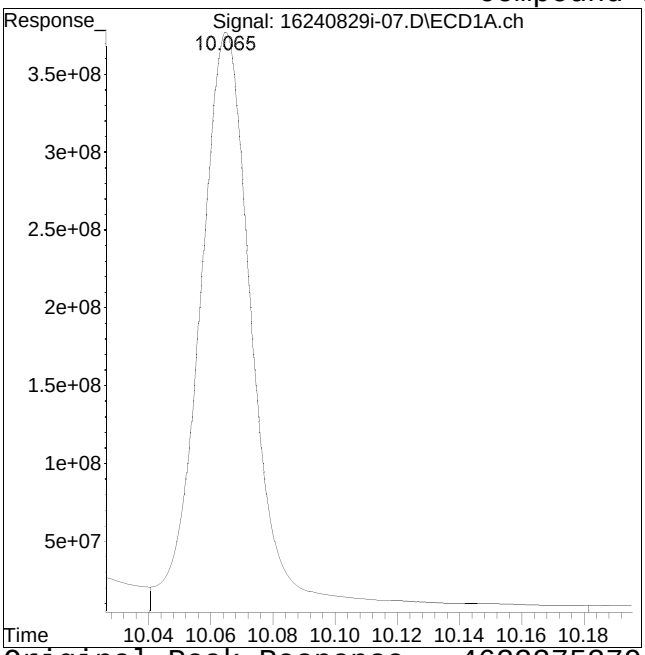


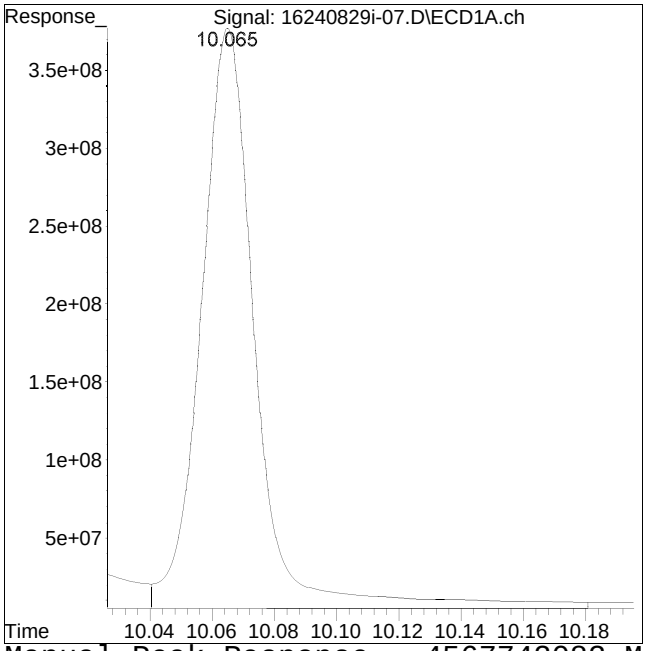
Original Peak Response = 1380791730 Manual Peak Response = 1291742364 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #12: Dinoseb



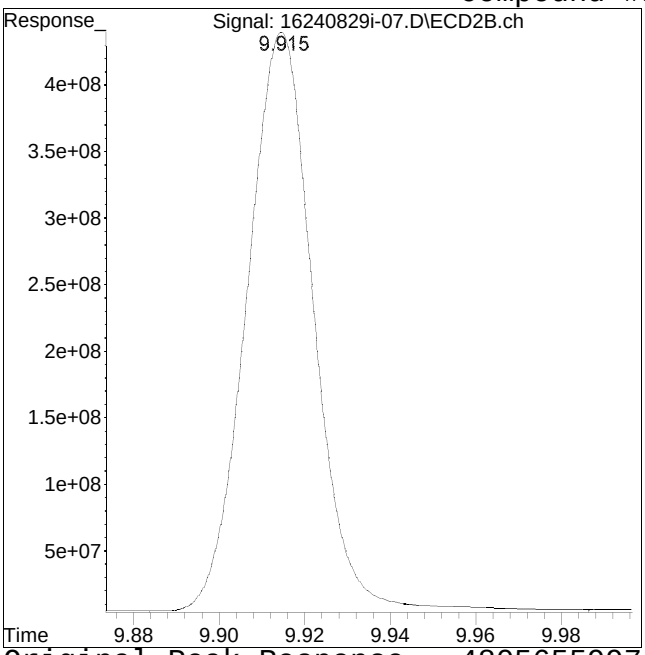


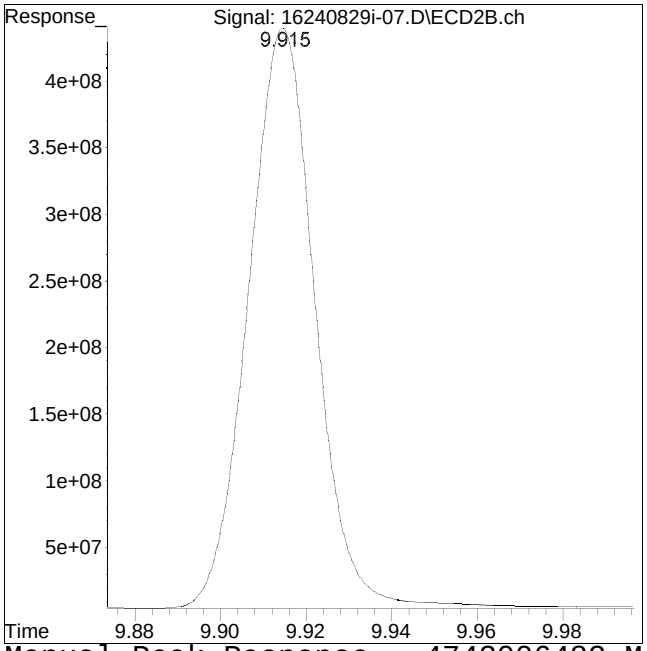
Original Peak Response = 4633375379 Manual Peak Response = 4567742083 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #25: Dinoseb #2





Original Peak Response = 4805655997 Manual Peak Response = 4743006483 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 29 Aug 2024   2:45 pm
Operator : pest16:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1967371,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	84	0.00
2	t	Dalapon		0.206	0.199	3.4	81	0.00
3	s	DCAA (surrogate)		0.187	0.186	0.5	80	0.00
4	t	Dicamba		0.588	0.584	0.7	82	0.00
5	t	MCPP		0.00065	0.00065	0.0	83	0.00
6	t	MCPA		0.00105	0.00114	-8.6	85	0.00
7	t	Dichloroprop		0.179	0.194	-8.4	87	0.00
8	t	2,4-D		0.199	0.200	-0.5	81	0.00
9	t	2,4,5-TP (Silvex)		0.768	0.744	3.1	79	0.00
10	t	2,4,5-T		0.760	0.756	0.5	82	0.00
11	t	2,4-DB		0.104	0.109	-4.8	84	0.00
12	t	Dinoseb		0.610	0.666	-9.2	81	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	86	0.00
2	t	Dalapon		0.194	0.202	-4.1	87	0.00
3	s	DCAA (surrogate)		0.191	0.197	-3.1	85	0.00
4	t	Dicamba		0.568	0.561	1.2	82	0.00
5	t	MCPP	*	18.800	20.377	-8.4	86	0.00
6	t	MCPA	*	18.600	19.976	-7.4	85	0.00
7	t	Dichloroprop		0.182	0.194	-6.6	88	0.00
8	t	2,4-D		0.231	0.230	0.4	83	0.00
9	t	2,4,5-TP (Silvex)		0.814	0.770	5.4	79	0.00
10	t	2,4,5-T		0.624	0.577	7.5	81	0.00
11	t	2,4-DB		0.119	0.111	6.7	78	0.00
12	t	Dinoseb		0.456	0.457	-0.2	84	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 29 Aug 2024   2:45 pm
Operator : pest16:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1967371,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.394	8.316	959.5E6	1264.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.821	7.217	134.6E6	187.3E6	0.187M4	0.194
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.40%	38.80%
		Target Compounds						
2)	t	Dalapon	1.817	1.774	139.3E6	185.7E6	0.176	0.189M4
4)	t	Dicamba	7.004	7.395	421.1E6	533.6E6	0.187M4	0.186M4
5)	t	MCPP	7.214	7.516	47215984	104.6E6	18.959	20.377M4
6)	t	MCPA	7.363	7.746	81253095	151.6E6	20.170	19.976M4
7)	t	Dichloroprop	7.721	8.069	140.2E6	184.8E6	0.204M4	0.201M4
8)	t	2,4-D	7.941	8.357	144.4E6	218.7E6	0.189M4	0.187M4
9)	t	2,4,5-TP (Si	8.673	9.029	542.8E6	740.1E6	0.184M4	0.180M4
10)	t	2,4,5-T	8.912	9.333	551.3E6	554.0E6	0.189M4	0.176
11)	t	2,4-DB	9.338	9.707	80493080	107.6E6	0.202M4	0.179M4
12)	t	Dinoseb	10.068	9.918	485.8E6	438.9E6	0.207M4	0.190

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

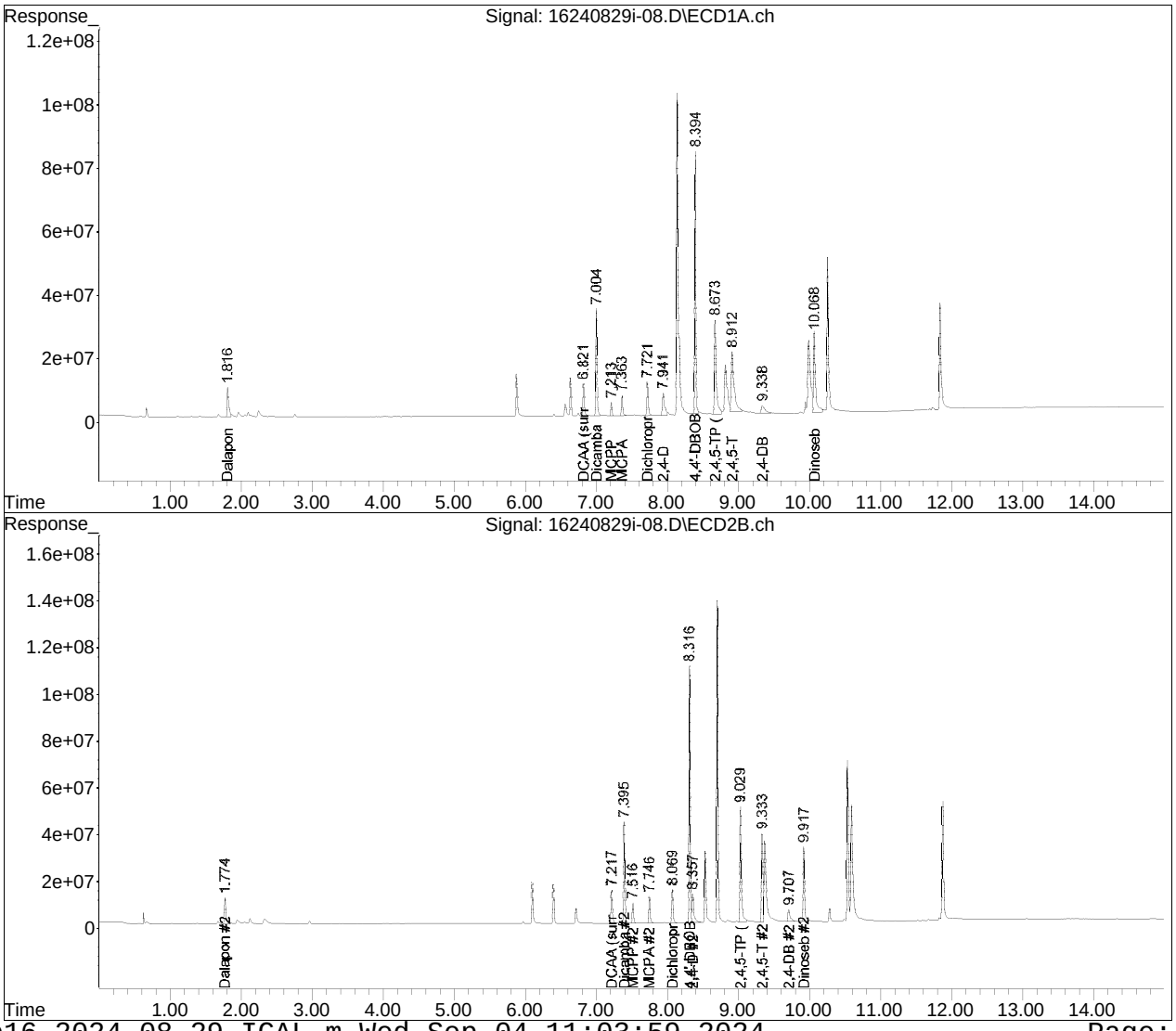
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

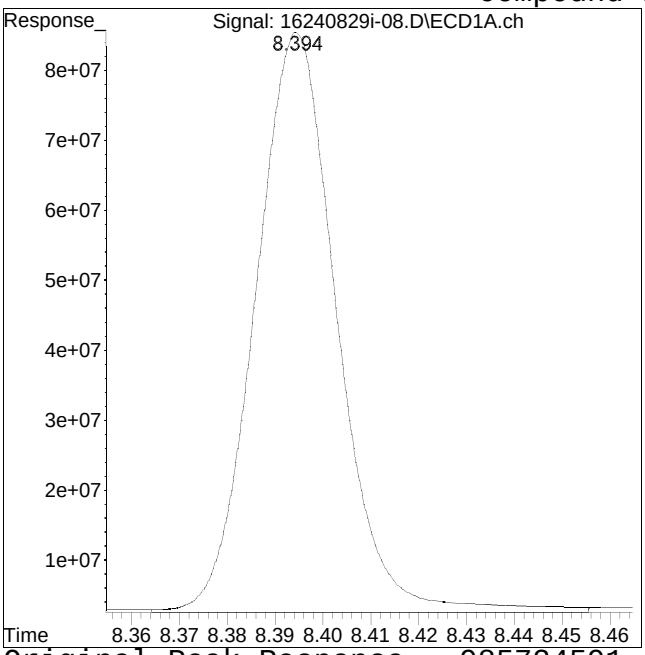
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

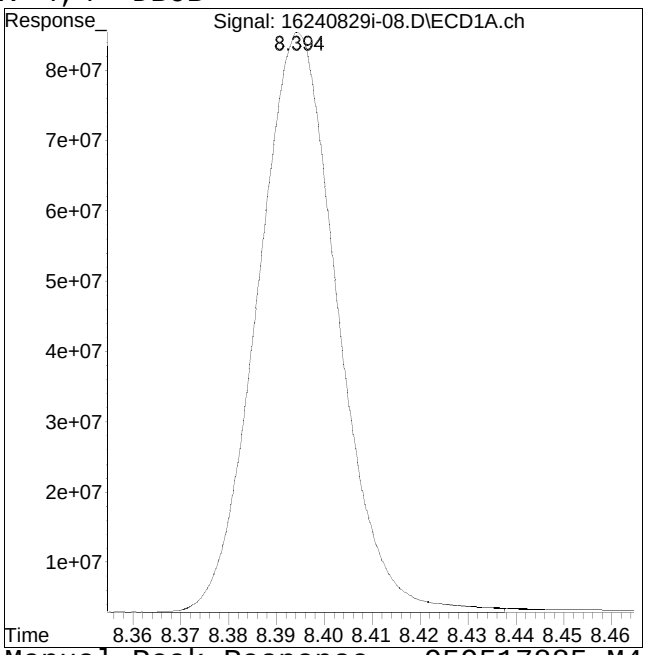


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #1: 4,4'-DBOB



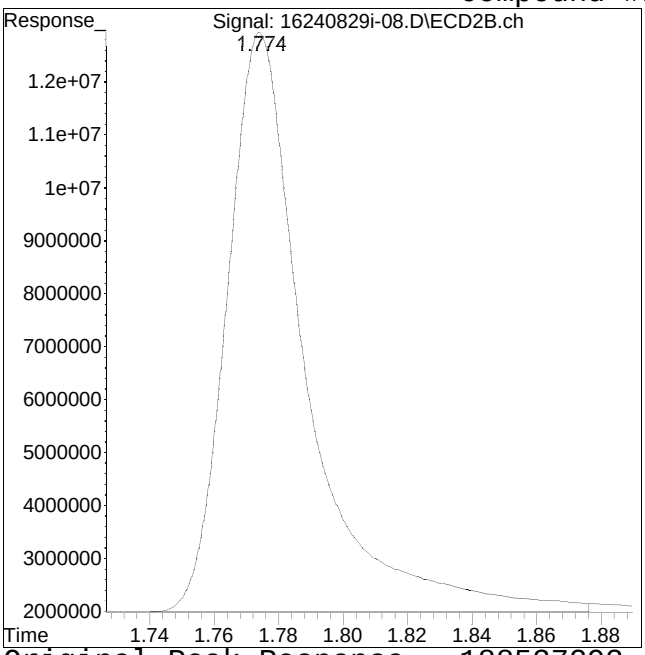


Original Peak Response = 985724591 Manual Peak Response = 959517885 M4
M4 = Poor automated baseline construction.

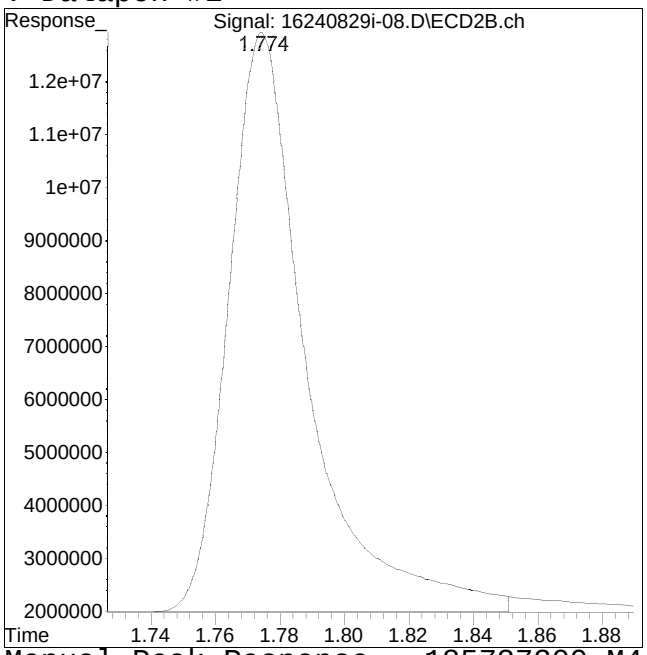
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #15: Dalapon #2



Original Peak Response = 188537293



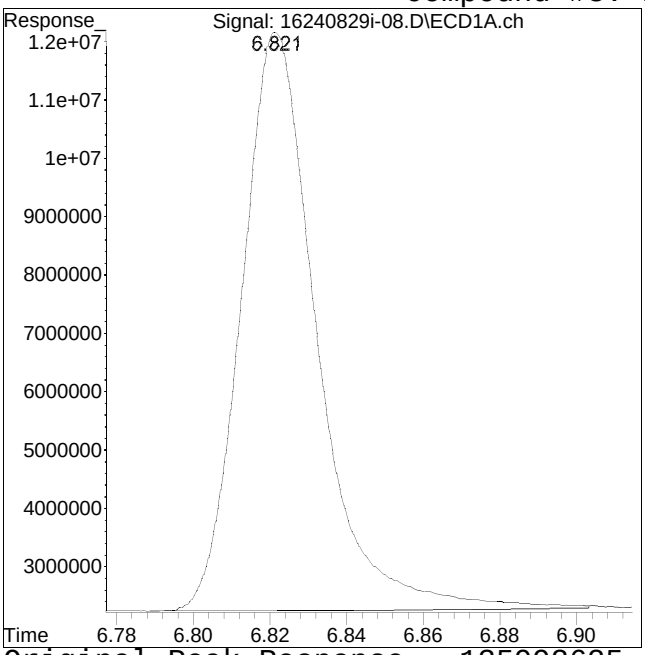
Manual Peak Response = 185737300 M4

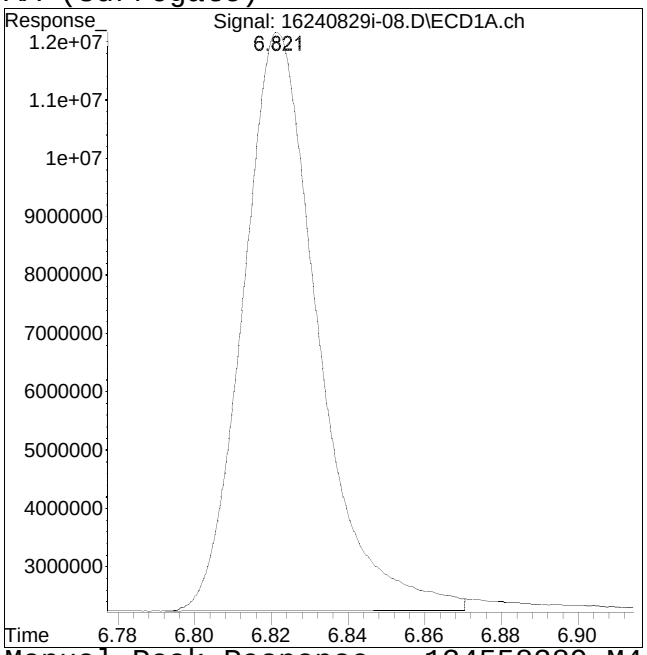
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #3: DCAA (surrogate)



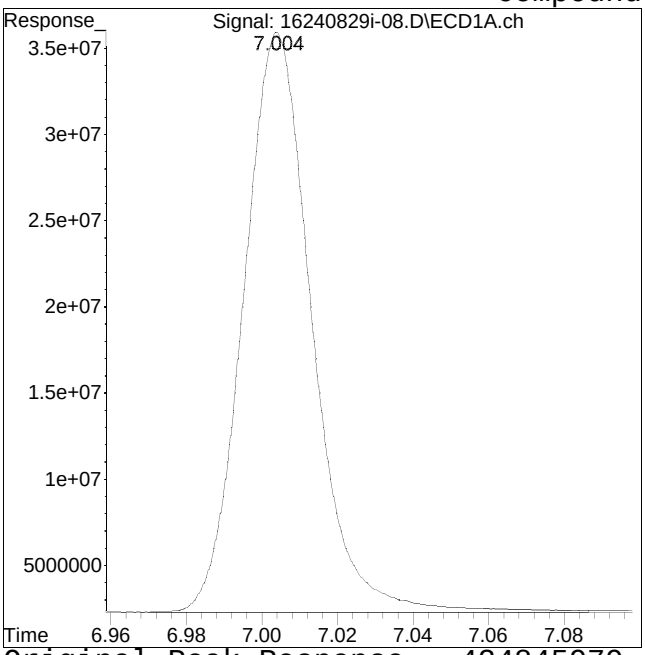


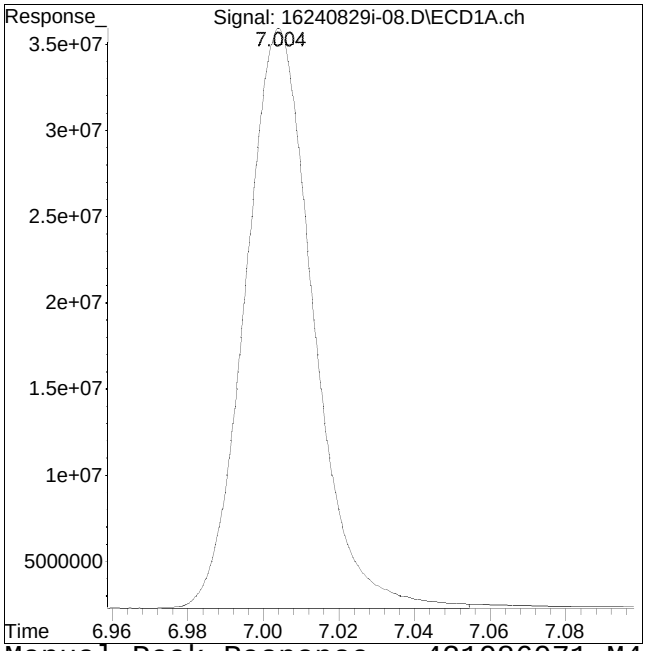
Original Peak Response = 135992625 Manual Peak Response = 134558389 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #4: Dicamba



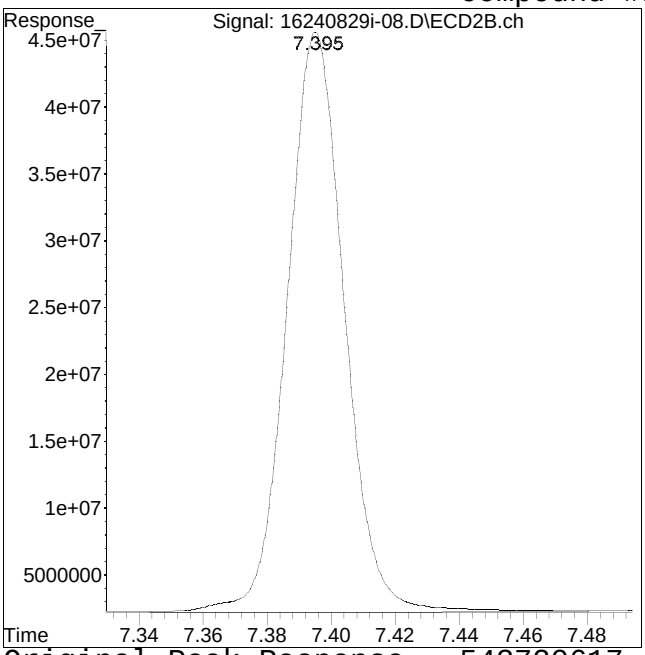


Original Peak Response = 424845979 Manual Peak Response = 421086071 M4
M4 = Poor automated baseline construction.

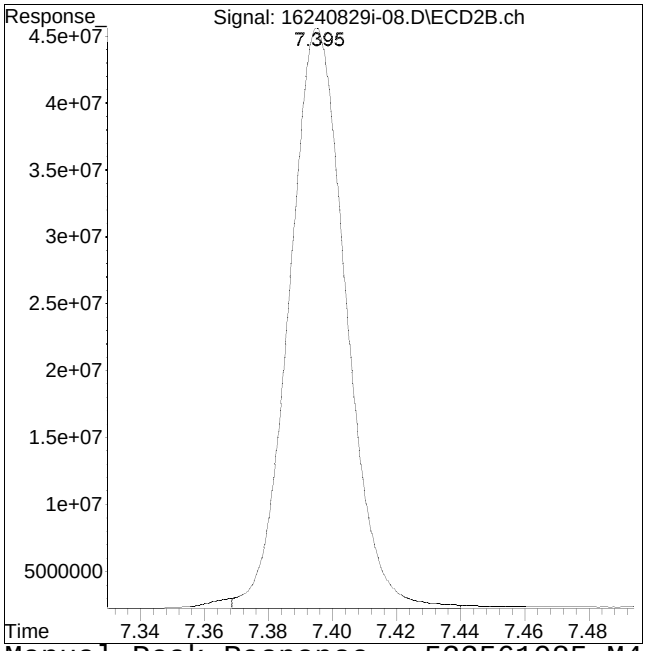
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #17: Dicamba #2



Original Peak Response = 543720617



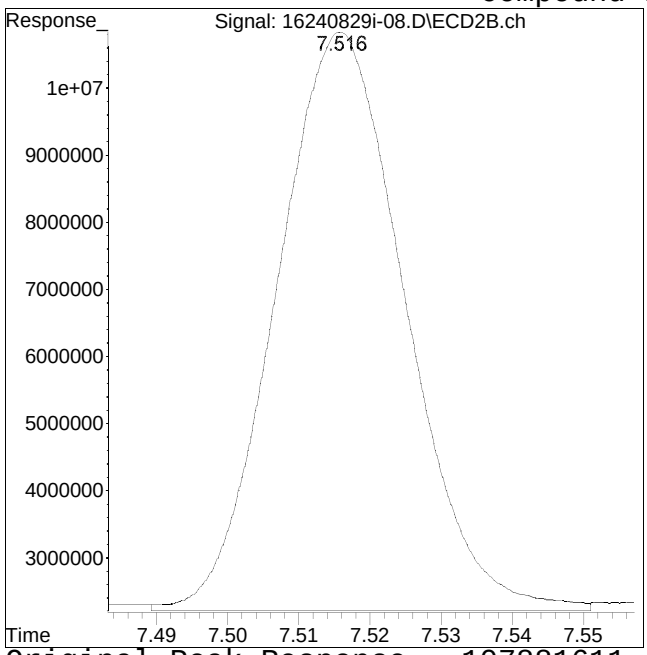
Manual Peak Response = 533561085 M4

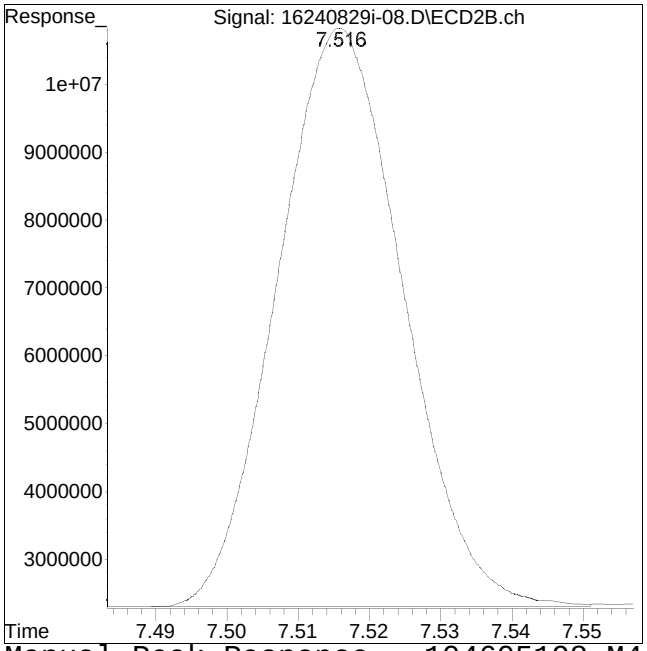
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #18: MCPP #2



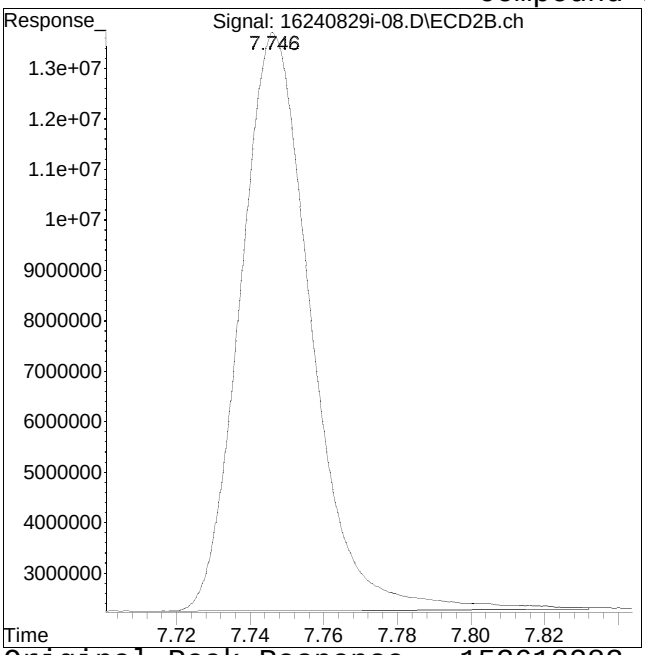


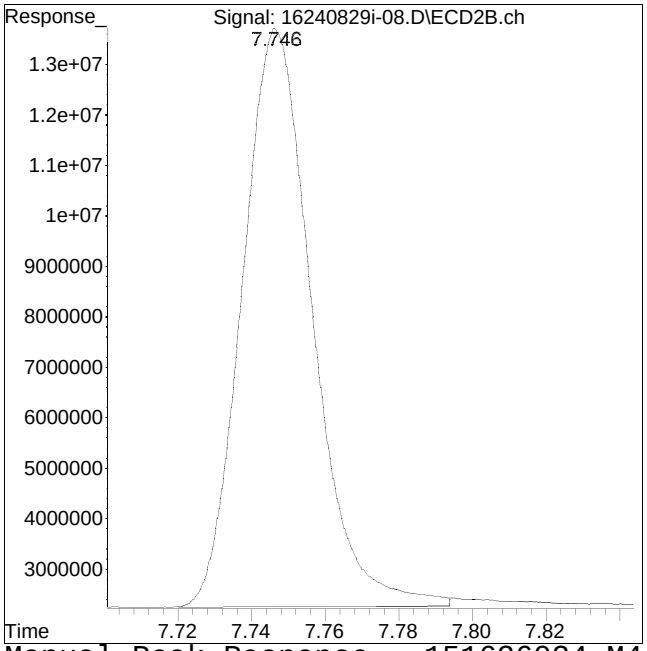
Original Peak Response = 107881611 Manual Peak Response = 104605198 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #19: MCPA #2



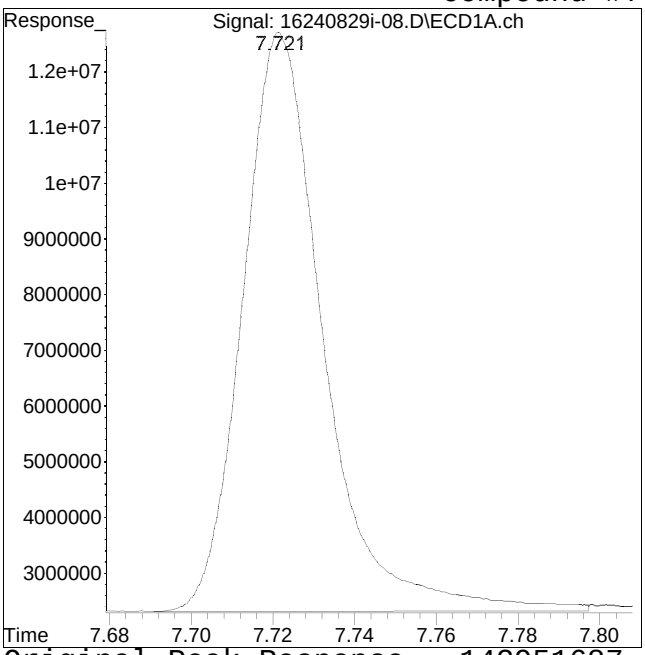


Original Peak Response = 153612283 Manual Peak Response = 151626024 M4
M4 = Poor automated baseline construction.

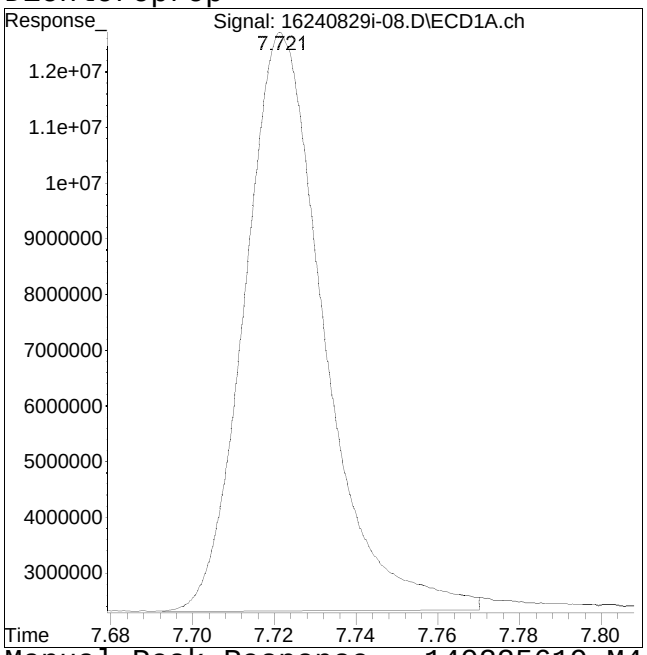
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #7: Dichloroprop



Original Peak Response = 142951687



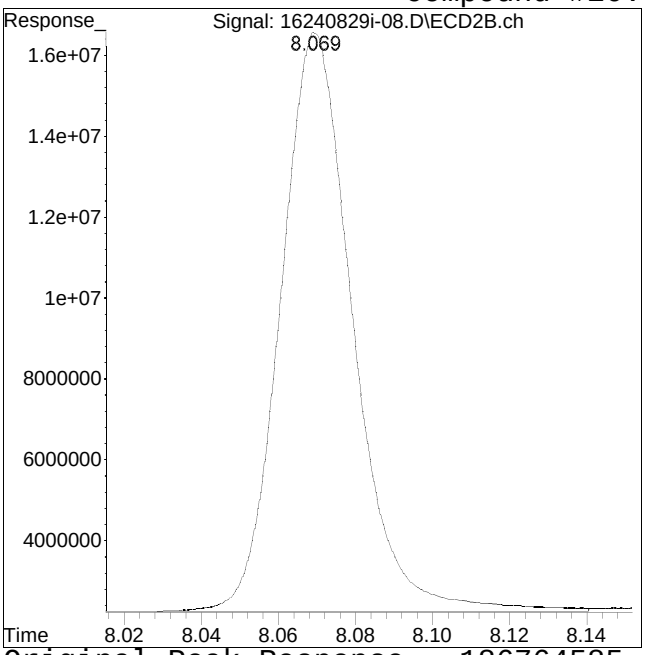
Manual Peak Response = 140225619 M4

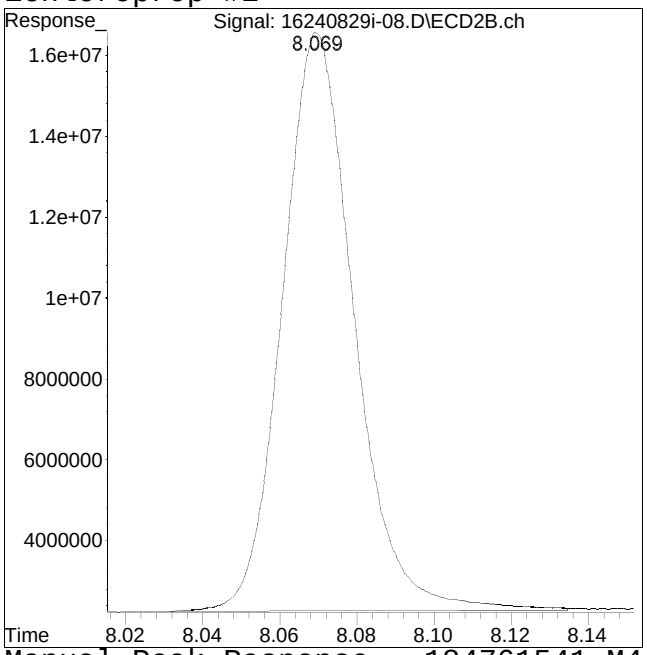
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #20: Dichloroprop #2



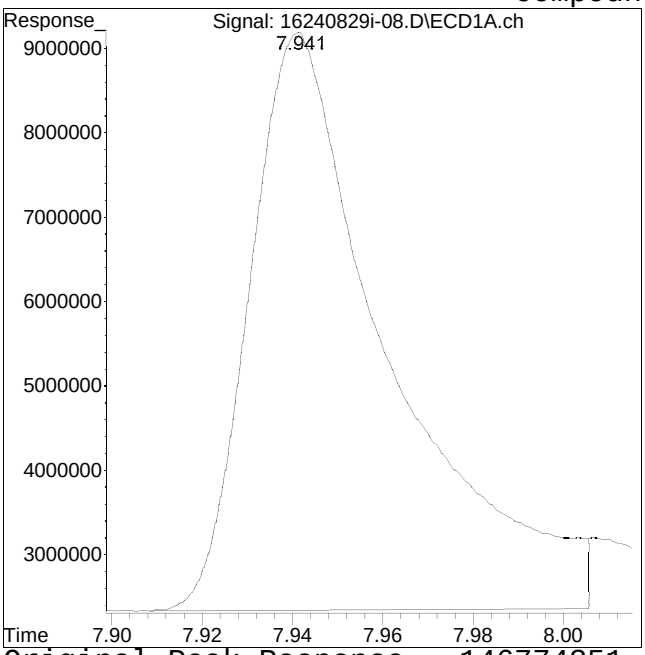


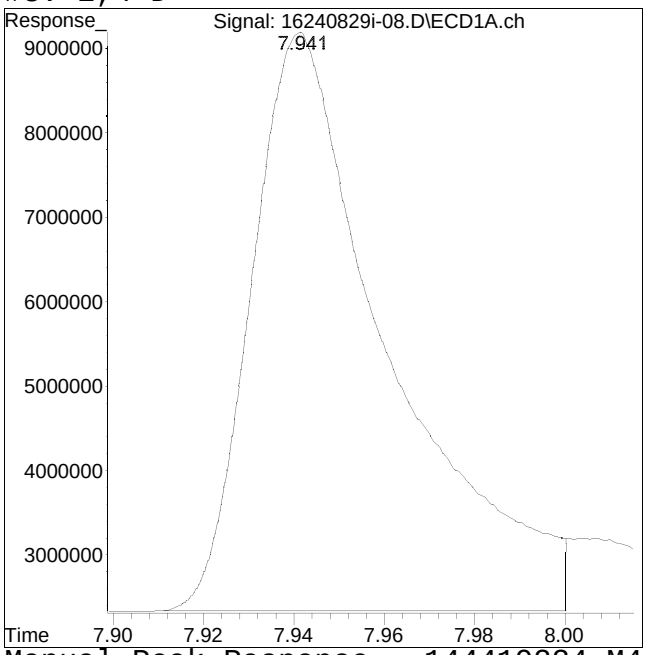
Original Peak Response = 186764585 Manual Peak Response = 184761541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #8: 2,4-D



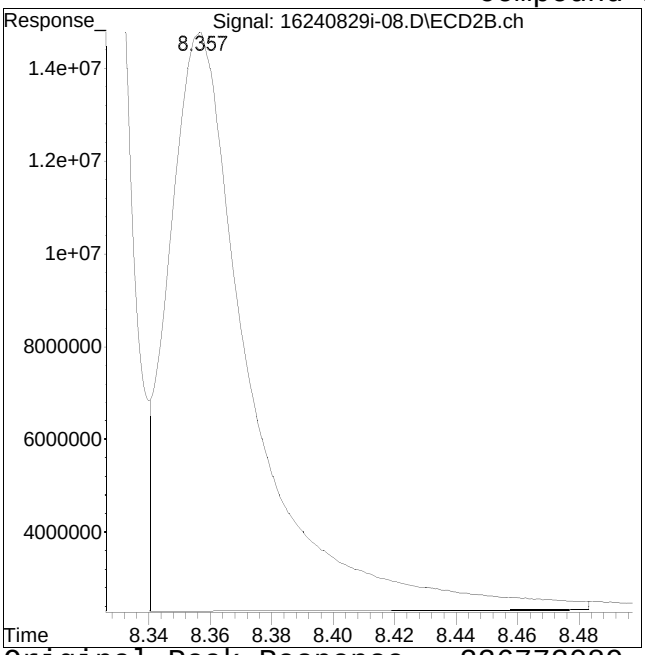


Original Peak Response = 146774351 Manual Peak Response = 144419224 M4
M4 = Poor automated baseline construction.

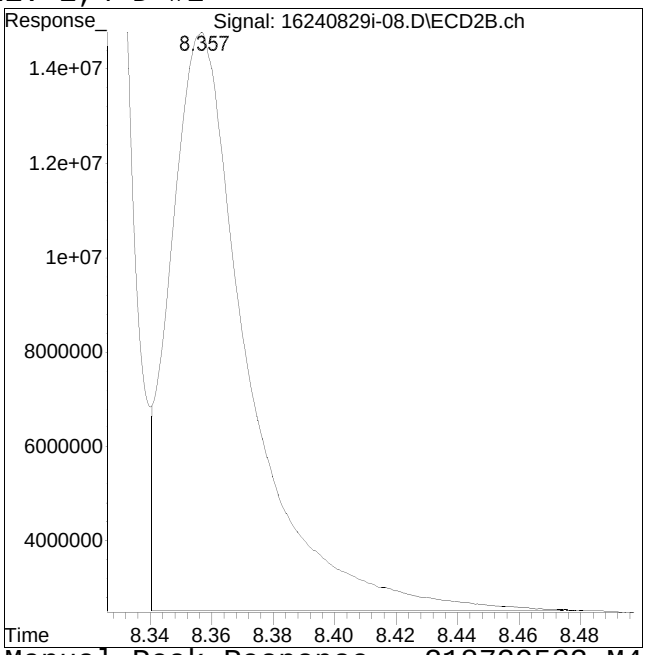
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #21: 2,4-D #2



Original Peak Response = 236773089



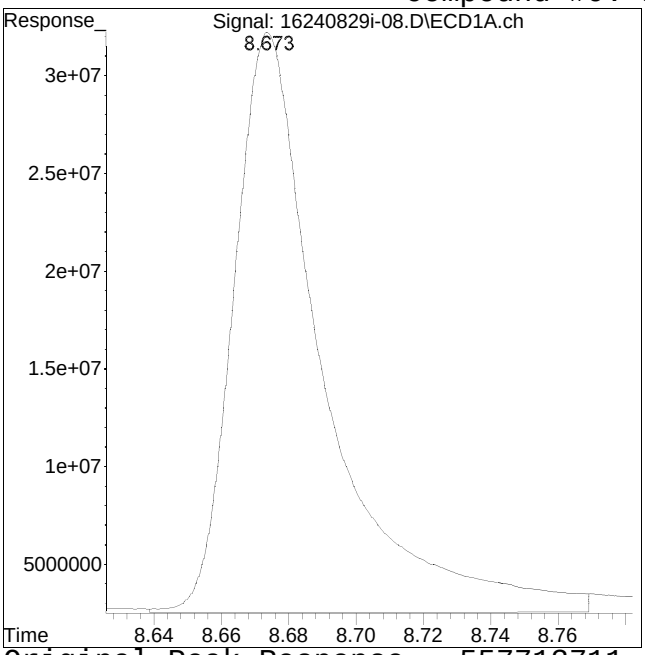
Manual Peak Response = 218739533 M4

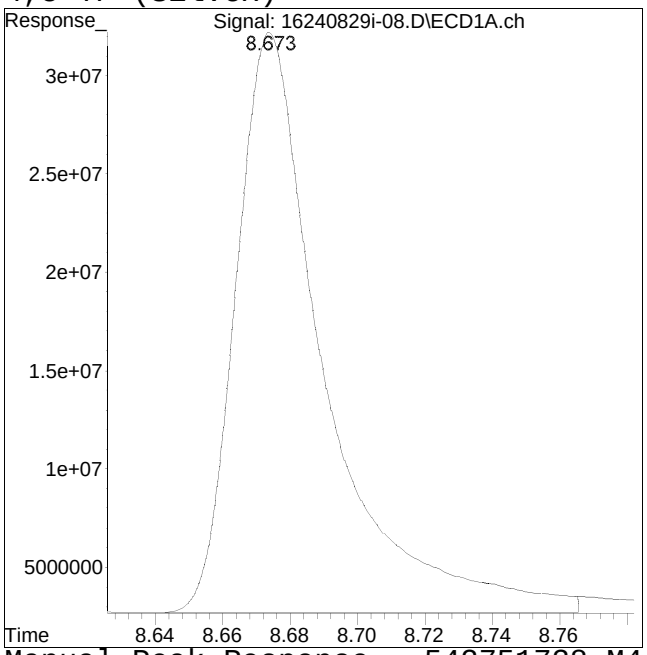
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #9: 2,4,5-TP (Silvex)



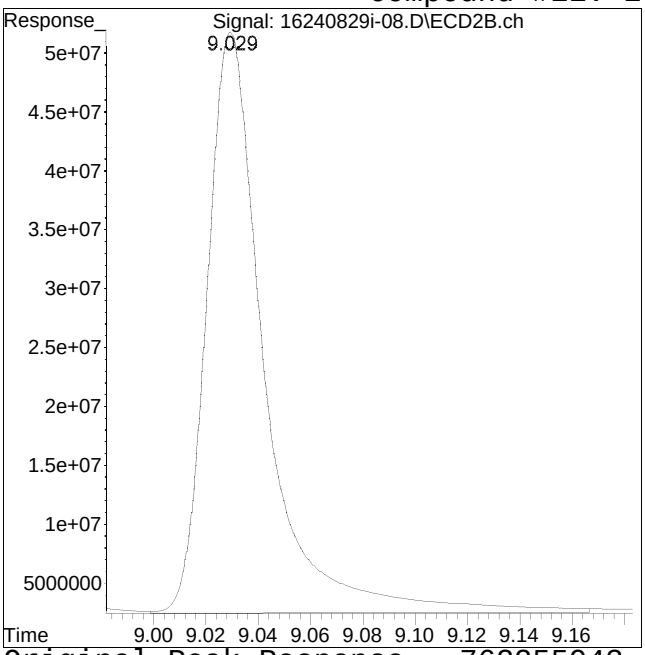


Original Peak Response = 557713711 Manual Peak Response = 542751738 M4
M4 = Poor automated baseline construction.

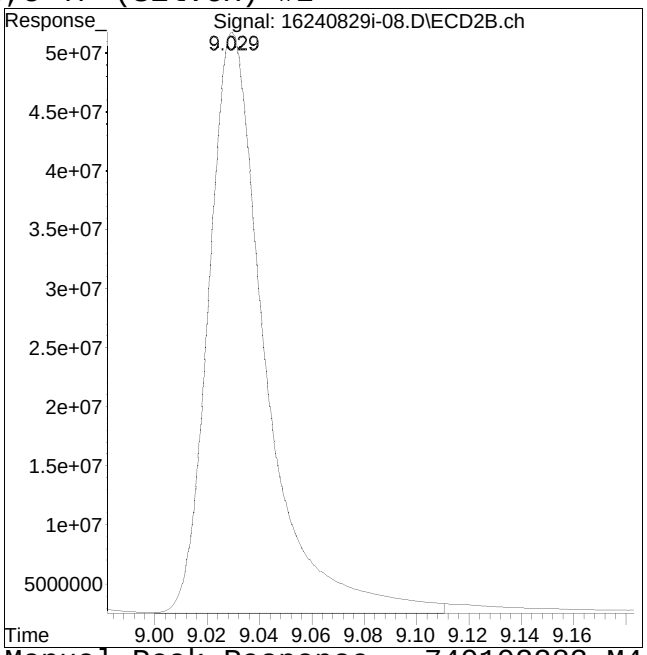
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 762255943



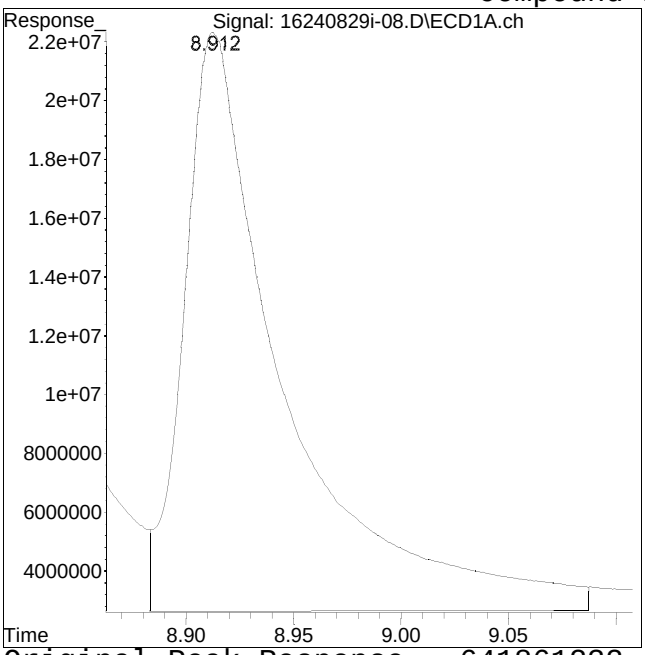
Manual Peak Response = 740102283 M4

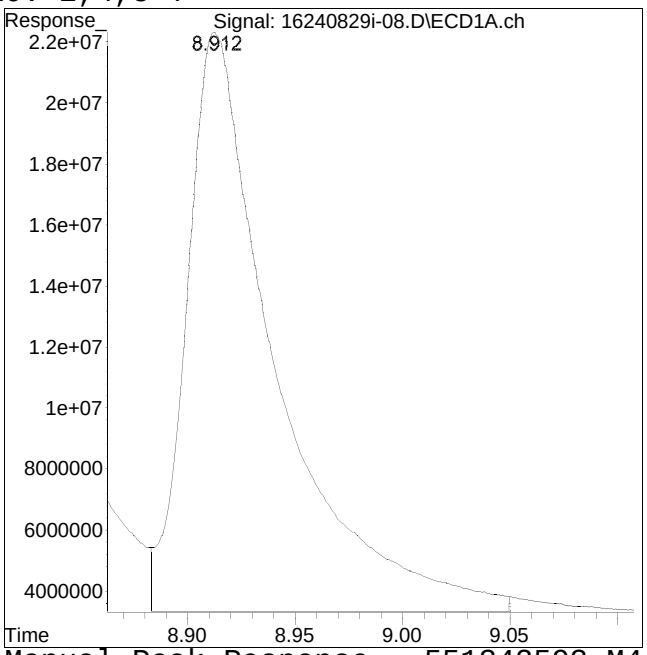
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #10: 2,4,5-T



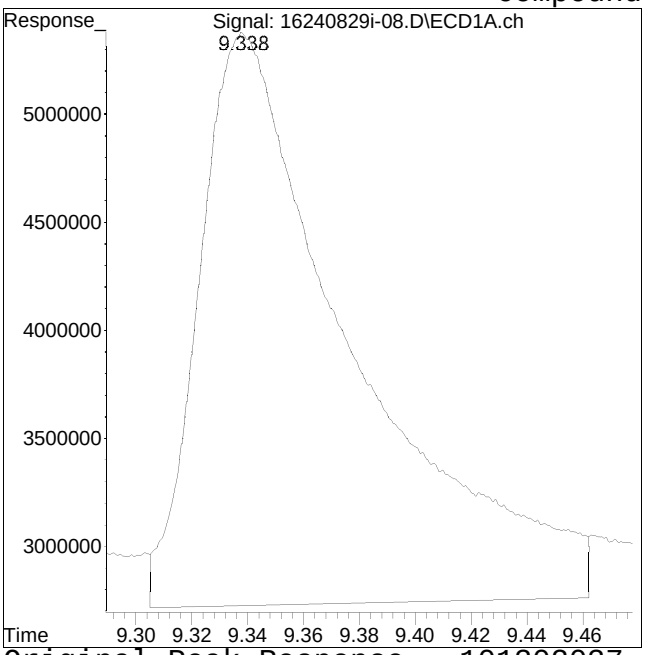


Original Peak Response = 641861232 Manual Peak Response = 551342593 M4
M4 = Poor automated baseline construction.

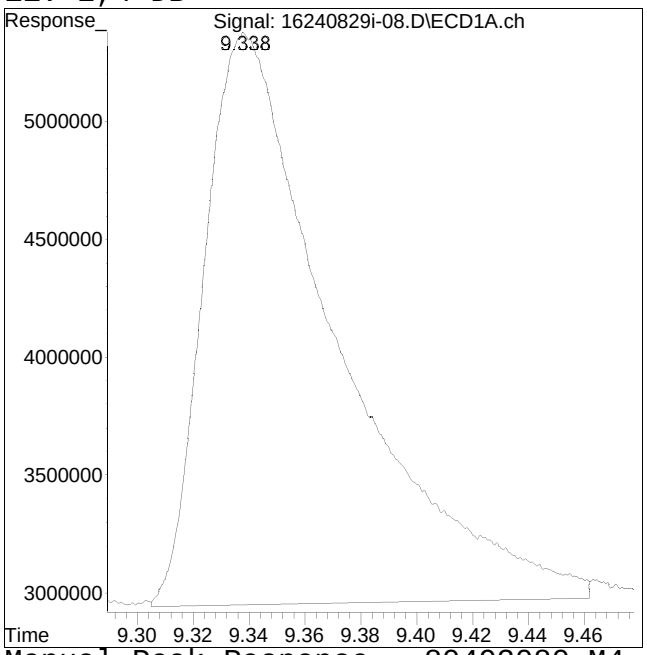
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #11: 2,4-DB



Original Peak Response = 101302037



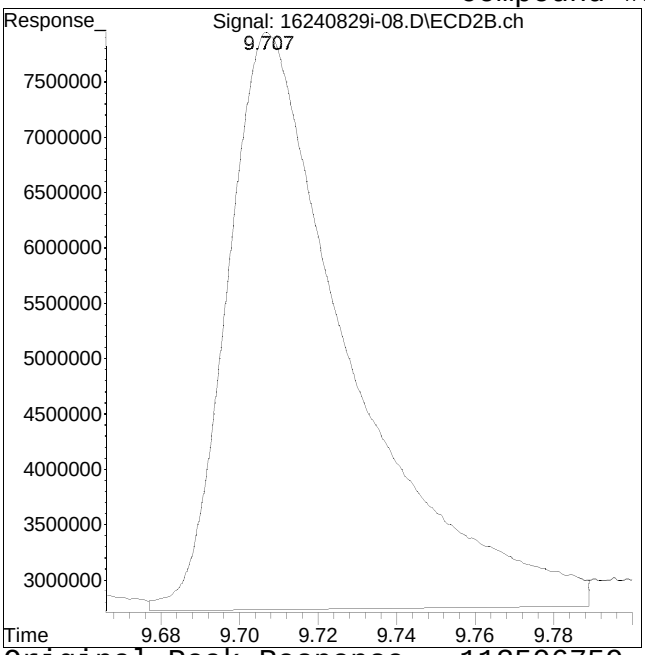
Manual Peak Response = 80493080 M4

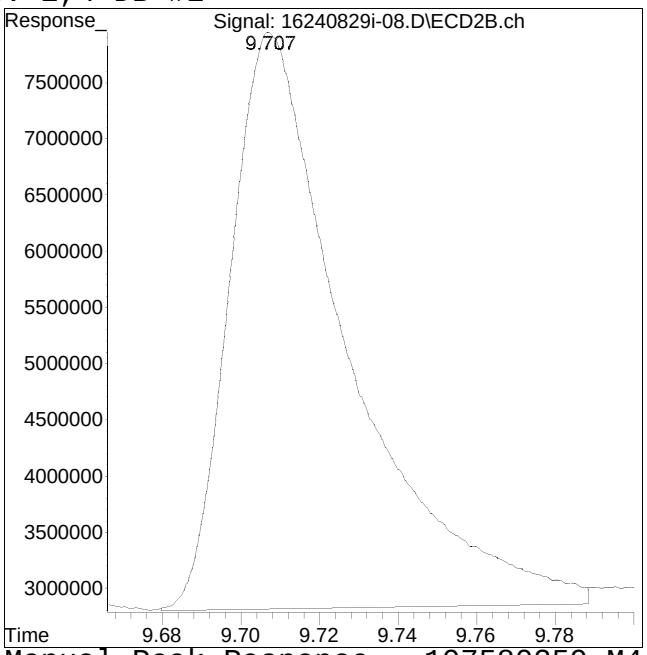
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #24: 2,4-DB #2



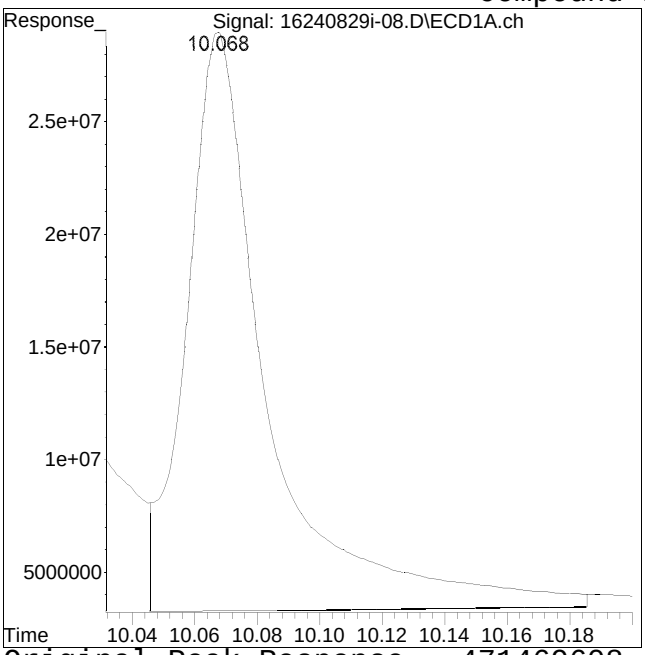


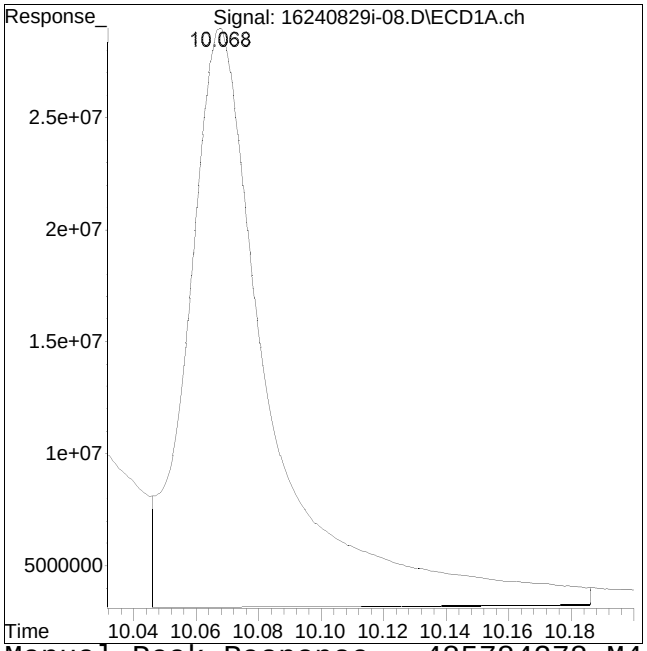
Original Peak Response = 113506759 Manual Peak Response = 107580259 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #12: Dinoseb





Original Peak Response = 471469608 Manual Peak Response = 485784278 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report PEST16

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
18	T MCPP #2	L	mg/l	18.8	20.270	7.8	9.40	8.137	-13.4
19	T MCPA #2	L	mg/l	18.6	20.118	8.2	9.30	8.036	-13.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
18	T MCPP #2	Linear	0.997275	0.000000	0.000733827	0.0229159
19	T MCPA #2	Linear	0.997291	0.000000	0.001041	0.0367334

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 06:36		
Lab File ID	: 16240925a-02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1975970-1	**Init. Calib. Times**	: 12:47	14:25	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	93	0
Dalapon	0.206	0.23	-	-11.7	15	103	0
DCAA (surrogate)	0.187	0.211	-	-12.8	15	101	0
Dicamba	0.588	0.63	-	-7.1	15	98	0
MCPP	0.00065	0.00075	-	-15.4*	15	107	0
MCPA	0.00105	0.00127	-	-21*	15	105	0
Dichloroprop	0.179	0.196	-	-9.5	15	98	0
2,4-D	0.199	0.238	-	-19.6*	15	107	0
2,4,5-TP (Silvex)	0.768	0.865	-	-12.6	15	102	0
2,4,5-T	0.76	0.841	-	-10.7	15	101	0
2,4-DB	0.104	0.126	-	-21.2*	15	109	0
Dinoseb	0.61	0.575	-	5.7	15	78	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 06:36
Lab File ID	: 16240925a-02	**Init. Calib. Date(s)**	: 08/29/24 08/29/24
Sample No	: WG1975970-1	**Init. Calib. Times**	: 12:47 14:25
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	87	0
Dalapon	0.194	0.239	-	-23.2*	15	105	0
DCAA (surrogate)	0.191	0.215	-	-12.6	15	94	0
Dicamba	0.568	0.625	-	-10	15	94	0
MCPP	18.8	13.778	-	26.7*	15	67	0
MCPA	18.6	15.245	-	18*	15	72	0
Dichloroprop	0.182	0.2	-	-9.9	15	92	0
2,4-D	0.231	0.253	-	-9.5	15	93	0
2,4,5-TP (Silvex)	0.814	0.868	-	-6.6	15	90	0
2,4,5-T	0.624	0.797	-	-27.7*	15	114	0
2,4-DB	0.119	0.137	-	-15.1*	15	98	0
Dinoseb	0.456	0.54	-	-18.4*	15	101	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 14:23	
Lab File ID	: 16240925a-24	**Init. Calib. Date(s)**	: 08/29/24	08/29/24
Sample No	: WG1975970-2	**Init. Calib. Times**	: 12:47	14:25
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	99	0
Dalapon	0.206	0.223	-	-8.3	15	106	0
DCAA (surrogate)	0.187	0.211	-	-12.8	15	107	0
Dicamba	0.588	0.639	-	-8.7	15	106	0
MCPP	0.00065	0.00074	-	-13.8	15	111	0
MCPA	0.00105	0.00125	-	-19*	15	109	0
Dichloroprop	0.179	0.2	-	-11.7	15	106	0
2,4-D	0.199	0.244	-	-22.6*	15	116	0
2,4,5-TP (Silvex)	0.768	0.884	-	-15.1*	15	111	0
2,4,5-T	0.76	0.897	-	-18*	15	114	0
2,4-DB	0.104	0.133	-	-27.9*	15	121	0
Dinoseb	0.61	0.596	-	2.3	15	86	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 14:23
Lab File ID	: 16240925a-24	**Init. Calib. Date(s)**	: 08/29/24 08/29/24
Sample No	: WG1975970-2	**Init. Calib. Times**	: 12:47 14:25
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	90	0
Dalapon	0.194	0.234	-	-20.6*	15	105	0
DCAA (surrogate)	0.191	0.218	-	-14.1	15	99	0
Dicamba	0.568	0.64	-	-12.7	15	99	0
MCPP	18.8	14.241	-	24.3*	15	71	0
MCPA	18.6	15.711	-	15.5*	15	76	0
Dichloroprop	0.182	0.202	-	-11	15	96	0
2,4-D	0.231	0.251	-	-8.7	15	95	0
2,4,5-TP (Silvex)	0.814	0.879	-	-8	15	94	0
2,4,5-T	0.624	0.842	-	-34.9*	15	124	0
2,4-DB	0.119	0.147	-	-23.5*	15	110	0
Dinoseb	0.456	0.523	-	-14.7	15	101	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 25 Sep 2024   6:36
Operator : pest16:peg
Sample   : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1975970,,ical21449
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	93	0.00
2	t	Dalapon		0.206	0.230	-11.7	103	0.00
3	s	DCAA (surrogate)		0.187	0.211	-12.8	101	0.00
4	t	Dicamba		0.588	0.630	-7.1	98	0.00
5	t	MCPP		0.00065	0.00075	-15.4#	107	0.00
6	t	MCPA		0.00105	0.00127	-21.0#	105	0.00
7	t	Dichloroprop		0.179	0.196	-9.5	98	0.00
8	t	2,4-D		0.199	0.238	-19.6#	107	0.00
9	t	2,4,5-TP (Silvex)		0.768	0.865	-12.6	102	0.00
10	t	2,4,5-T		0.760	0.841	-10.7	101	0.00
11	t	2,4-DB		0.104	0.126	-21.2#	109	0.00
12	t	Dinoseb		0.610	0.575	5.7	78	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	87	0.00
2	t	Dalapon		0.194	0.239	-23.2#	105	0.00
3	s	DCAA (surrogate)		0.191	0.215	-12.6	94	0.00
4	t	Dicamba		0.568	0.625	-10.0	94	0.00
5	t	MCPP	*	18.800	13.778	26.7#	67	0.00
6	t	MCPA	*	18.600	15.245	18.0#	72	0.00
7	t	Dichloroprop		0.182	0.200	-9.9	92	0.00
8	t	2,4-D		0.231	0.253	-9.5	93	0.00
9	t	2,4,5-TP (Silvex)		0.814	0.868	-6.6	90	0.00
10	t	2,4,5-T		0.624	0.797	-27.7#	114	0.00
11	t	2,4-DB		0.119	0.137	-15.1#	98	0.00
12	t	Dinoseb		0.456	0.540	-18.4#	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 25 Sep 2024   6:36
Operator : pest16:peg
Sample   : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1975970,,ical21449
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 6:36
Operator : pest16:peg
Sample : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
	Internal Standards							
1) i	4,4'-DBOB	8.447	8.368	1066.6E6	1287.0E6	0.250M4	0.250	
	System Monitoring Compounds							
3) s	DCAA (surrog	6.883	7.276	169.4E6	208.3E6	0.212	0.212	
	Spiked Amount	0.500	Range	30 - 150	Recovery =	42.40%	42.40%	
	Target Compounds							
2) t	Dalapon	1.893	1.849	178.4E6	224.1E6	0.203	0.224	
4) t	Dicamba	7.065	7.455	505.4E6	605.3E6	0.202	0.207	
5) t	MCPP	7.272	7.573	60506922	81541489	21.857	13.778	D
6) t	MCPA	7.420	7.803	101.0E6	129.0E6	22.554M4	15.245	
7) t	Dichloroprop	7.780	8.125	156.9E6	193.3E6	0.206	0.207	
8) t	2,4-D	7.998	8.407	191.0E6	244.8E6	0.225	0.206	
9) t	2,4,5-TP (Si	8.722	9.076	700.9E6	849.1E6	0.214	0.203	
10) t	2,4,5-T	8.948	9.372	681.5E6	779.7E6	0.210M4	0.243	
11) t	2,4-DB	9.364	9.741	103.4E6	134.9E6	0.234	0.220	
12) t	Dinoseb	10.111	9.961	465.9E6	528.0E6	0.179M4	0.225	
	SemiQuant Compounds - Not Calibrated on this Instrument							

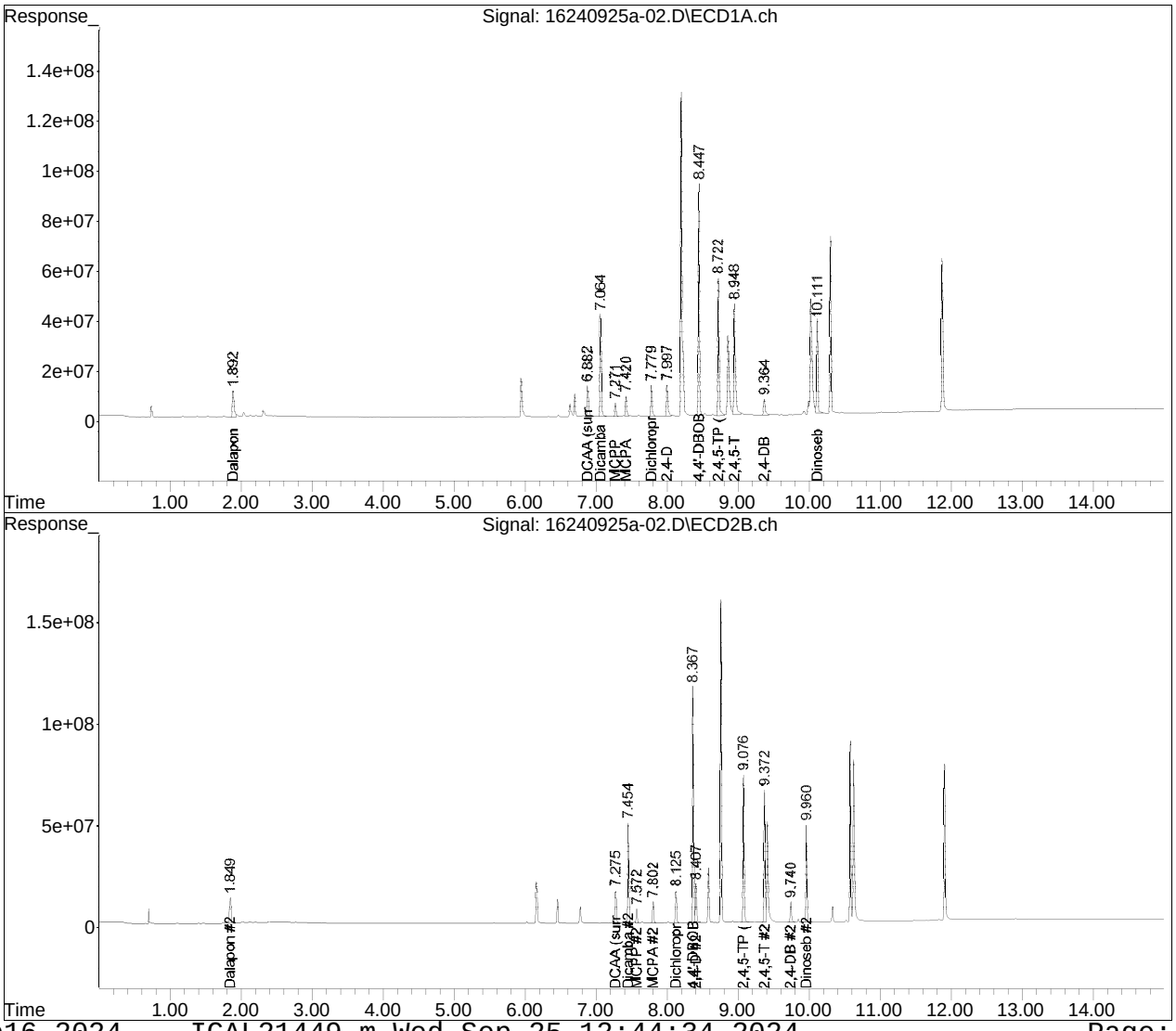
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 6:36
Operator : pest16:peg
Sample : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

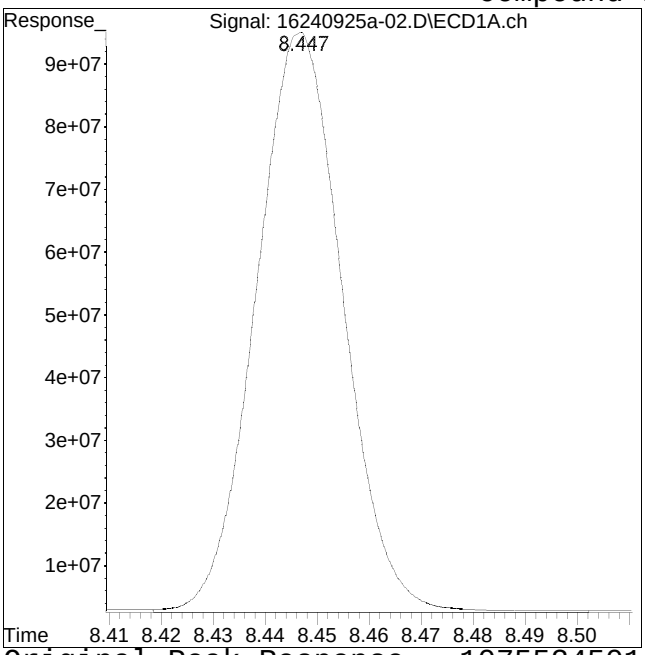
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

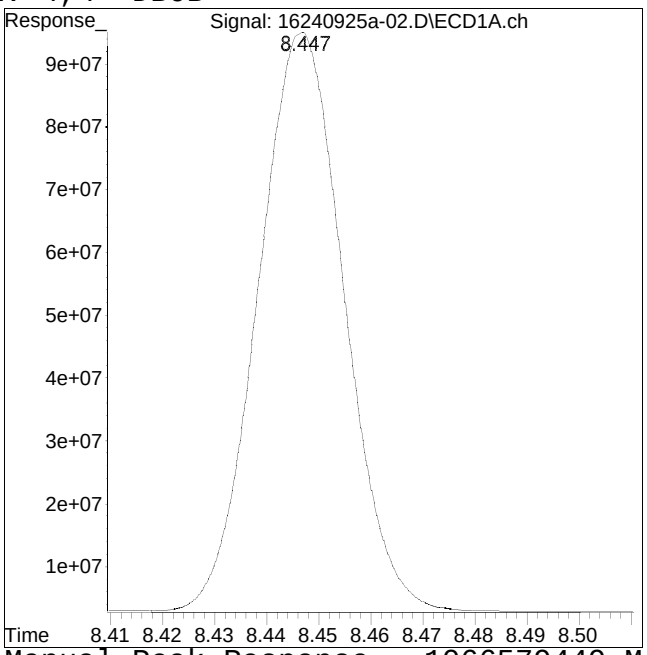


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #1: 4,4'-DBOB



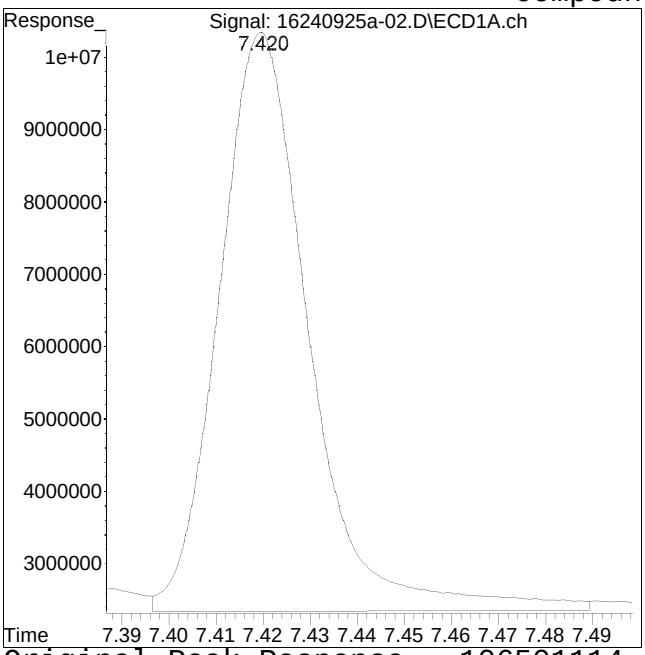


Original Peak Response = 1075524501 Manual Peak Response = 1066579449 M4
M4 = Poor automated baseline construction.

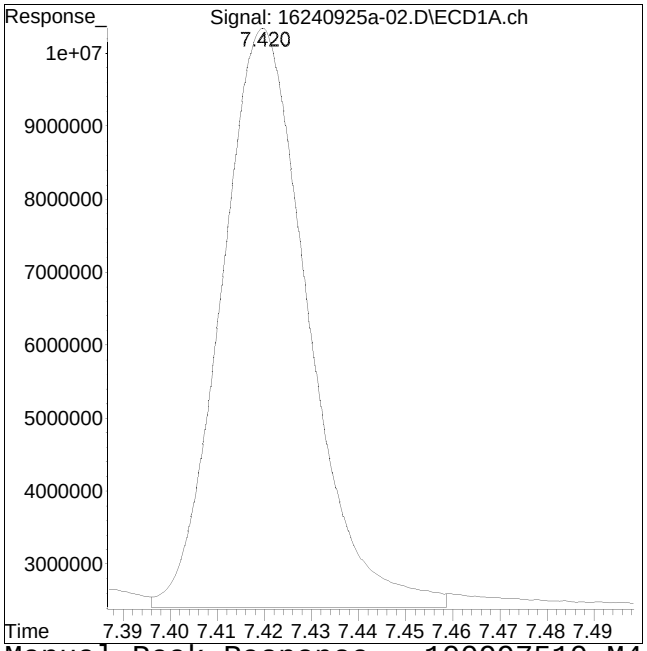
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #6: MCPA



Original Peak Response = 106501114



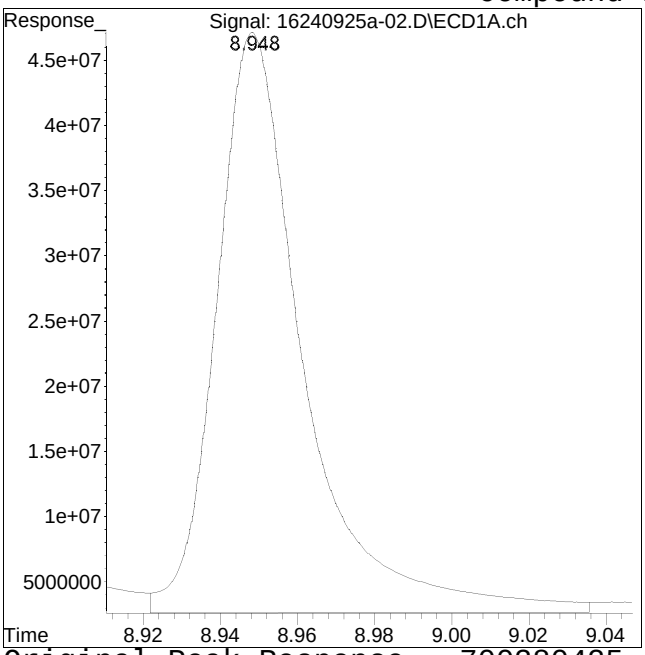
Manual Peak Response = 100997510 M4

M4 = Poor automated baseline construction.

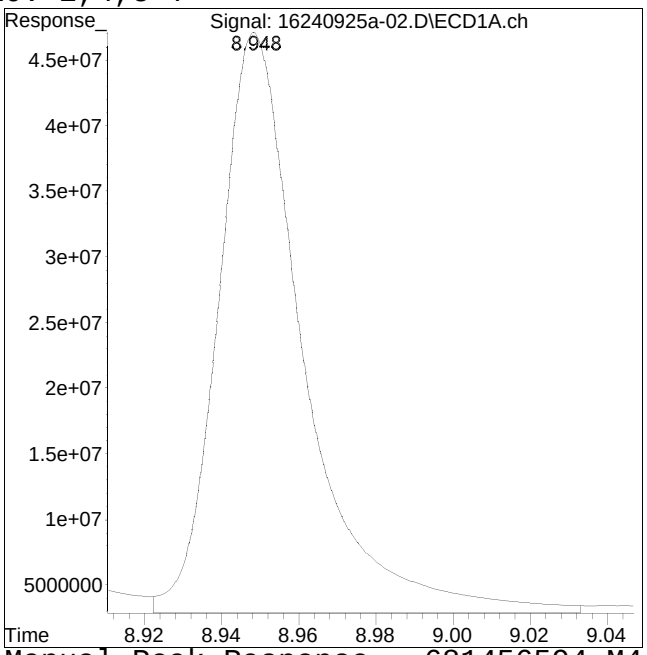
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #10: 2,4,5-T



Original Peak Response = 700380425



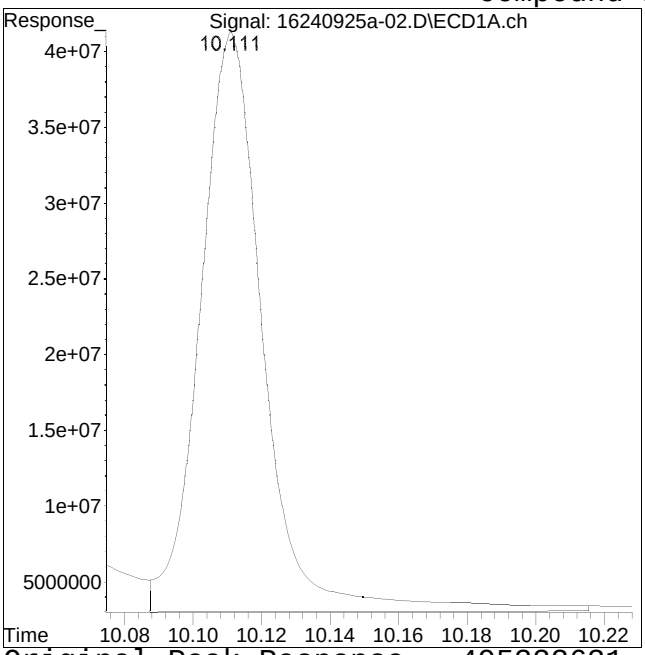
Manual Peak Response = 681456594 M4

M4 = Poor automated baseline construction.

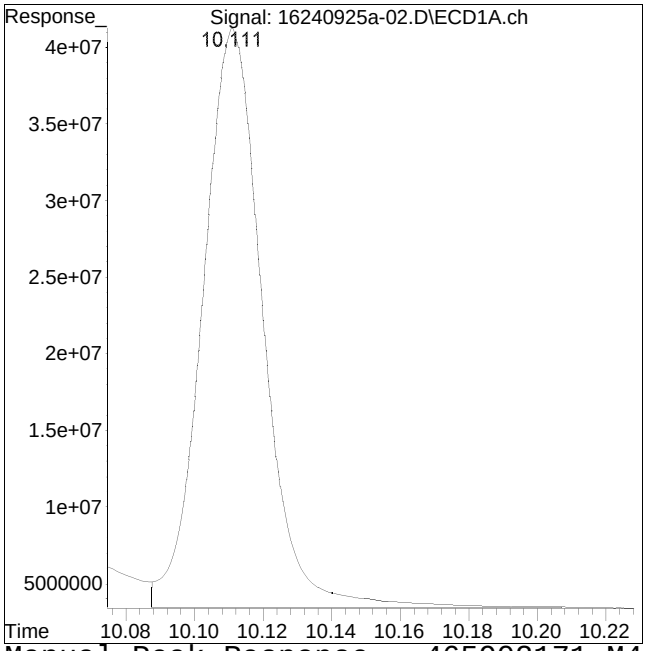
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #12: Dinoseb



Original Peak Response = 495322631



Manual Peak Response = 465902171 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:23
Operator : pest16:akm
Sample : wg1975970-2,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449 (Sig #1); wg1975970,WG1975468,ical21449 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:03:30 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	99	0.00
2	t	Dalapon		0.206	0.223	-8.3	106	0.00
3	s	DCAA (surrogate)		0.187	0.211	-12.8	107	0.00
4	t	Dicamba		0.588	0.639	-8.7	106	0.00
5	t	MCPP		0.00065	0.00074	-13.8	111	0.00
6	t	MCPA		0.00105	0.00125	-19.0#	109	0.00
7	t	Dichloroprop		0.179	0.200	-11.7	106	0.00
8	t	2,4-D		0.199	0.244	-22.6#	116	0.00
9	t	2,4,5-TP (Silvex)		0.768	0.884	-15.1#	111	0.00
10	t	2,4,5-T		0.760	0.897	-18.0#	114	0.00
11	t	2,4-DB		0.104	0.133	-27.9#	121	0.00
12	t	Dinoseb		0.610	0.596	2.3	86	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	90	0.00
2	t	Dalapon		0.194	0.234	-20.6#	105	0.00
3	s	DCAA (surrogate)		0.191	0.218	-14.1	99	0.00
4	t	Dicamba		0.568	0.640	-12.7	99	0.00
5	t	MCPP	*	18.800	14.241	24.3#	71	0.00
6	t	MCPA	*	18.600	15.711	15.5#	76	0.00
7	t	Dichloroprop		0.182	0.202	-11.0	96	0.00
8	t	2,4-D		0.231	0.251	-8.7	95	0.00
9	t	2,4,5-TP (Silvex)		0.814	0.879	-8.0	94	0.00
10	t	2,4,5-T		0.624	0.842	-34.9#	124	0.00
11	t	2,4-DB		0.119	0.147	-23.5#	110	0.00
12	t	Dinoseb		0.456	0.523	-14.7	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 25 Sep 2024 14:23
Operator : pest16:akm
Sample   : wg1975970-2,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1975970,,ical21449 (Sig #1); wg1975970,WG1975468,ical21449 (Sig #2)
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:03:30 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:23
Operator : pest16:akm
Sample : wg1975970-2,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:03:30 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
	Internal Standards							
1) i	4,4'-DBOB	8.450	8.371	1131.3E6	1328.2E6	0.250	0.250	
	System Monitoring Compounds							
3) s	DCAA (surrog	6.884	7.278	179.4E6	217.8E6	0.211	0.215	
	Spiked Amount	0.500	Range	30 - 150	Recovery =	42.20%	43.00%	
	Target Compounds							
2) t	Dalapon	1.897	1.854	183.4E6	225.8E6	0.197	0.219	
4) t	Dicamba	7.067	7.458	543.5E6	638.9E6	0.204	0.212	
5) t	MCPP	7.275	7.576	63131466	85954434	21.500	14.241	D
6) t	MCPA	7.423	7.806	105.3E6	135.7E6	22.161	15.711	
7) t	Dichloroprop	7.781	8.127	169.8E6	201.7E6	0.210	0.209	
8) t	2,4-D	7.995	8.408	207.5E6	250.3E6	0.230	0.204	
9) t	2,4,5-TP (Si	8.722	9.077	759.9E6	886.9E6	0.219	0.205	
10) t	2,4,5-T	8.944	9.372	770.9E6	850.3E6	0.224	0.257	
11) t	2,4-DB	9.357	9.739	115.7E6	150.4E6	0.247	0.238	
12) t	Dinoseb	10.113	9.962	512.1E6	527.6E6	0.185	0.218	
	SemiQuant Compounds - Not Calibrated on this Instrument							

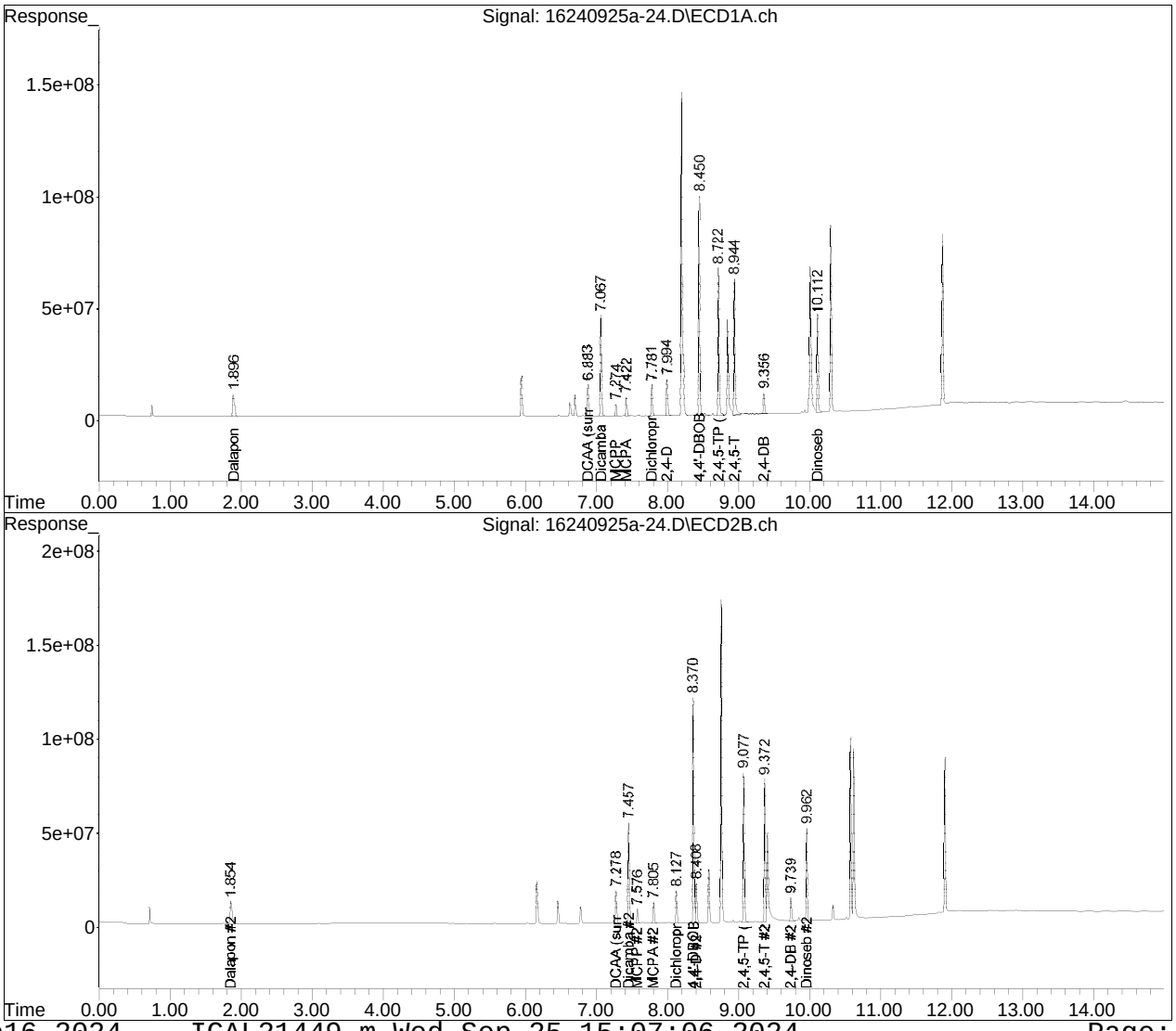
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 14:23
Operator : pest16:akm
Sample : wg1975970-2,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 15:03:30 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest16\2024\240925A	QMethod	: Herb16_2024_08_29_ICAL21
Data File	: 16240925a-24.D	Operator	: pest16:akm
Date Inj'd	: 9/25/2024 14:23	Instrument	: PEST16
Sample	: wg1975970-2,42,,herb11705	Quant Date	: 9/25/2024 3:03 pm

There are no manual integrations or false positives in this file.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 7:44
Operator : pest16:emr
Sample : WG1975468-1,42,, 5468 (Sig #1); WG1975469-1,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:29 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.458	8.376	1015.9E6	1247.8E6	0.250	0.250M4
	Standard Area 1 : #1 = 1066579449				Recovery =	95.24%	
	Standard Area 1 : #2 = 1286988911				Recovery =	96.96%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.894	7.285	347.6E6	407.5E6	0.456M4	0.428
	Spiked Amount	0.500	Range 30 - 150		Recovery =	91.20%	85.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

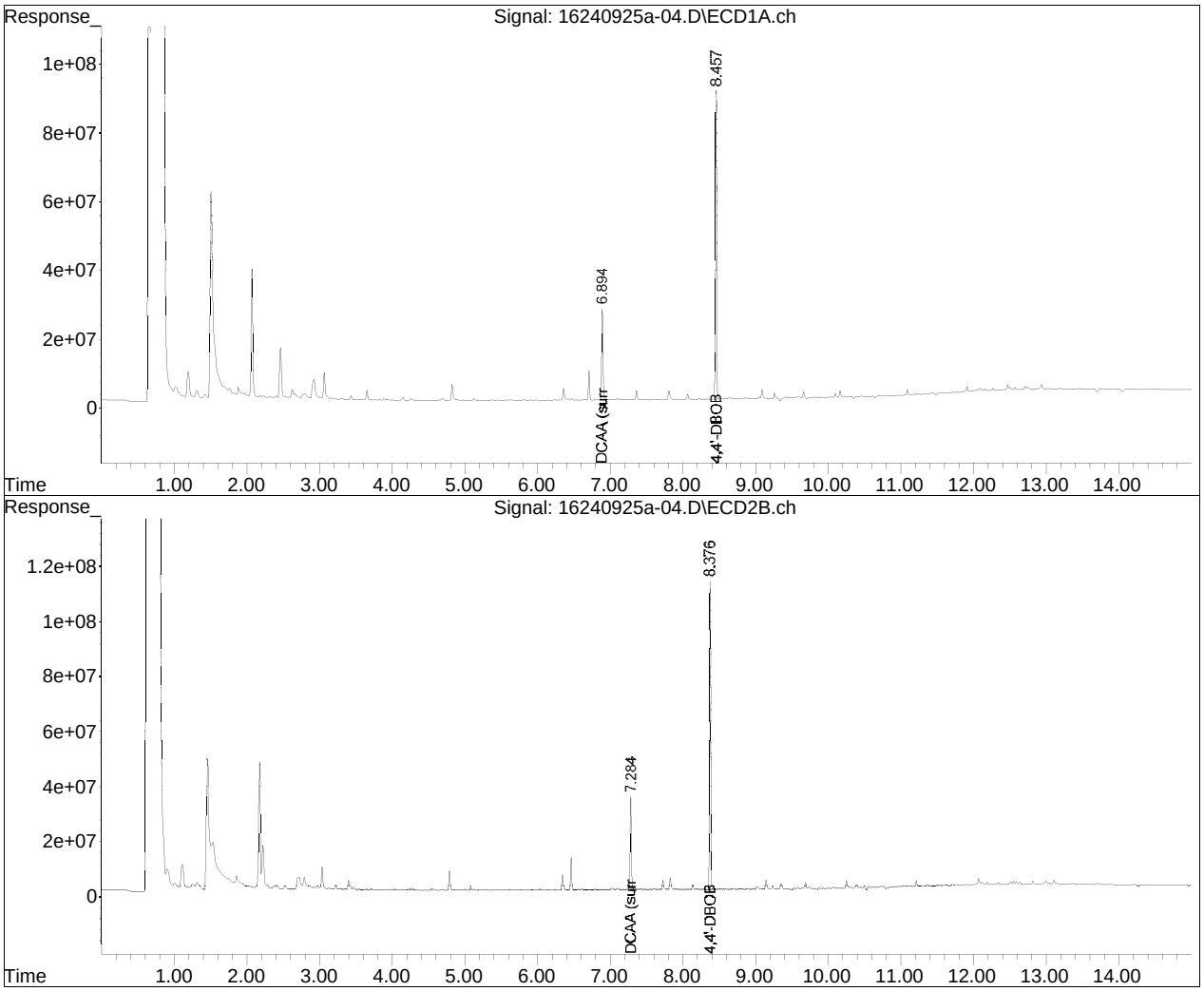
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 7:44
Operator : pest16:emr
Sample : WG1975468-1,42,, 5468 (Sig #1); WG1975469-1,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:29 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

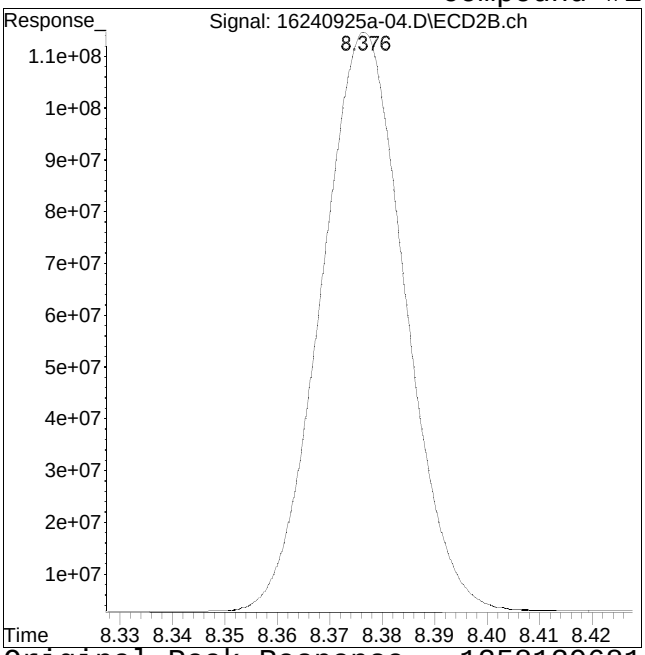
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

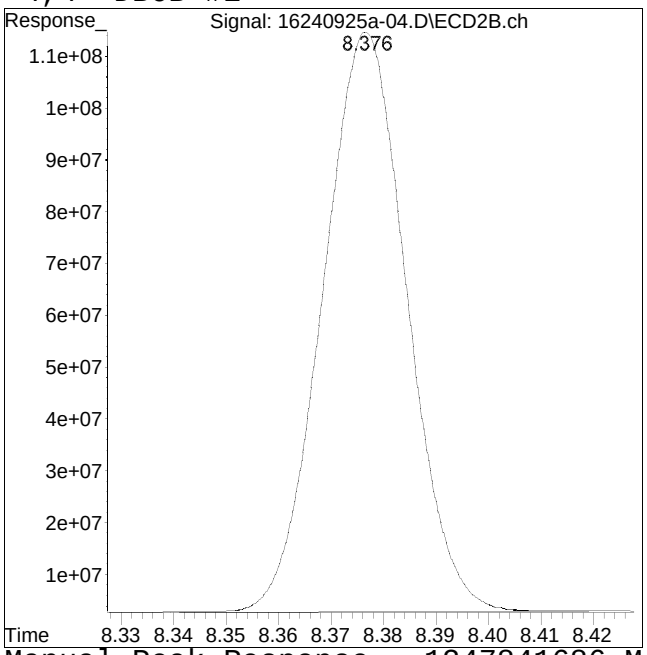


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-04.D Operator : pest16:emr
Date Inj'd : 9/25/2024 7:44 Instrument : PEST16
Sample : WG1975468-1,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #14: 4,4'-DBOB #2



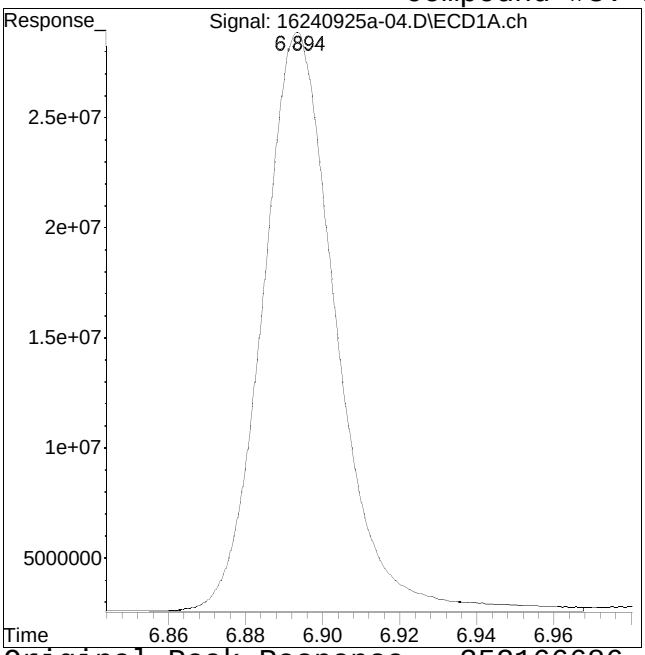


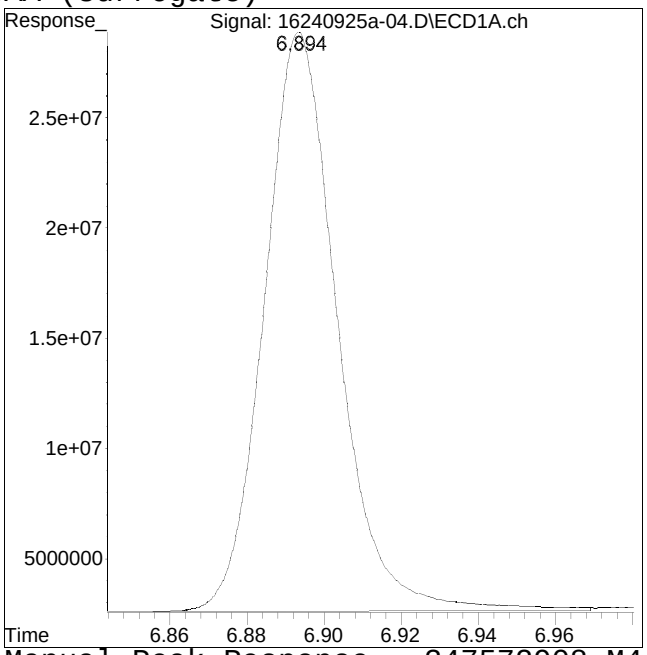
Original Peak Response = 1258129681 Manual Peak Response = 1247841686 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-04.D Operator : pest16:emr
Date Inj'd : 9/25/2024 7:44 Instrument : PEST16
Sample : WG1975468-1,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 352166686 Manual Peak Response = 347572908 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:11
Operator : pest16:emr
Sample : WG1975468-2,42,, 5468 (Sig #1); WG1975469-2,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:31 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.462f	8.378	1048.9E6	1244.5E6	0.250M4	0.250
Standard Area 1 : #1 = 1066579449				Recovery =	98.34%	
Standard Area 1 : #2 = 1286988911				Recovery =	96.70%	
System Monitoring Compounds						
3) s DCAA (surrog	6.899f	7.287	360.1E6	483.8E6	0.458	0.510
Spiked Amount	0.500	Range 30 - 150		Recovery =	91.60%	102.00%
Target Compounds						
2) t Dalapon	1.913f	1.865f	326.6E6	411.8E6	0.378M4	0.426M4
4) t Dicamba	7.082f	7.466	1266.4E6	1470.3E6	0.514	0.520
5) t MCPP	7.290f	7.585	157.3E6	196.3E6	57.773	45.939M4
6) t MCPA	7.438f	7.816	237.0E6	348.7E6	53.813	58.458
7) t Dichloroprop	7.795f	8.136	410.1E6	460.6E6	0.546M4	0.509
8) t 2,4-D	8.009	8.416	455.3E6	596.3E6	0.545M4	0.519
9) t 2,4,5-TP (Si	8.734	9.085	1656.2E6	1958.9E6	0.514M4	0.484
10) t 2,4,5-T	8.957	9.379	1688.2E6	2021.2E6	0.530M4	0.651M4
11) t 2,4-DB	9.368	9.745	243.9E6	303.6E6	0.561M4	0.512M4
12) t Dinoseb	10.123	9.969	843.5E6	888.6E6	0.329M4	0.391M4
SemiQuant Compounds - Not Calibrated on this Instrument						

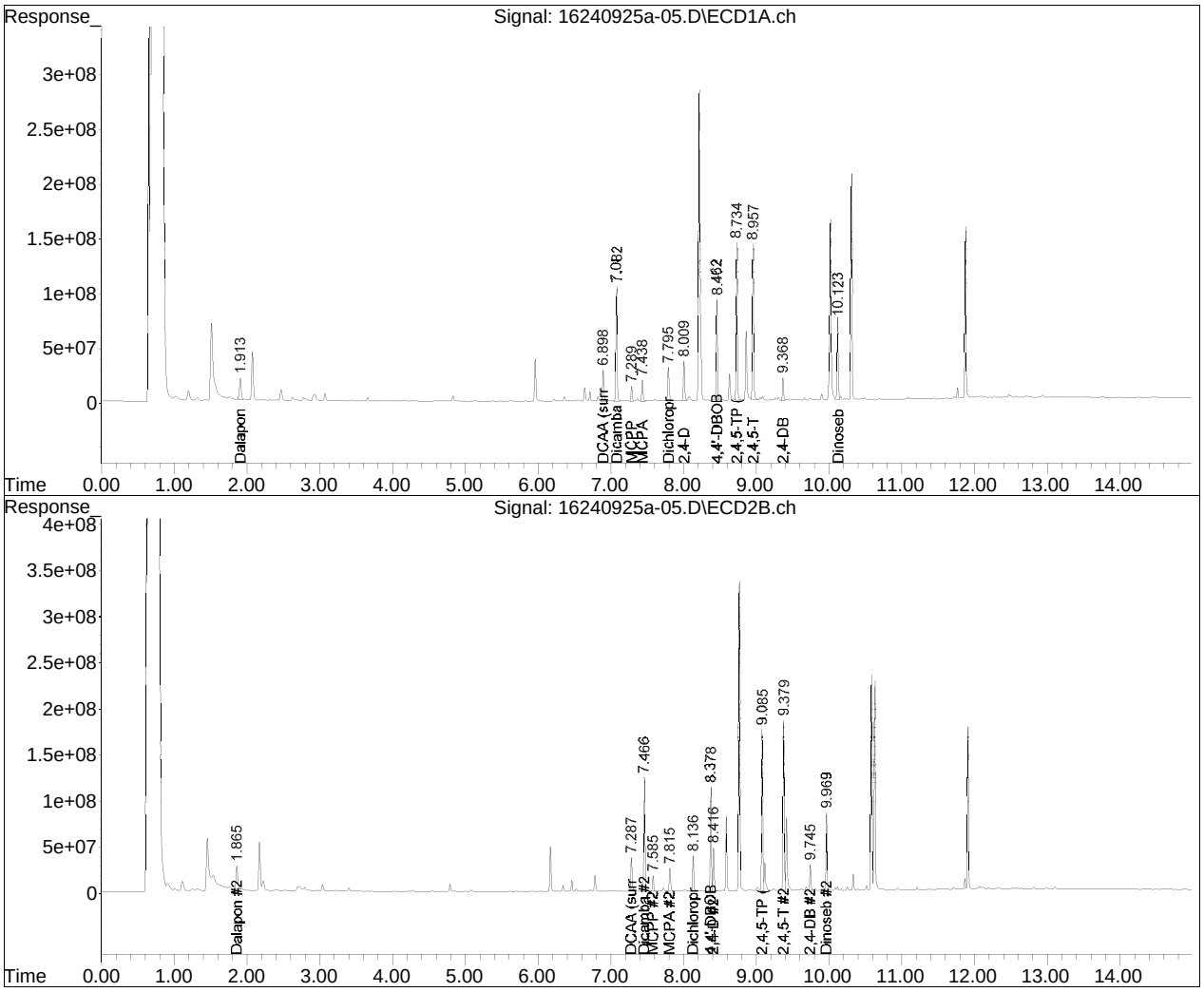
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:11
Operator : pest16:emr
Sample : WG1975468-2,42,, 5468 (Sig #1); WG1975469-2,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:31 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

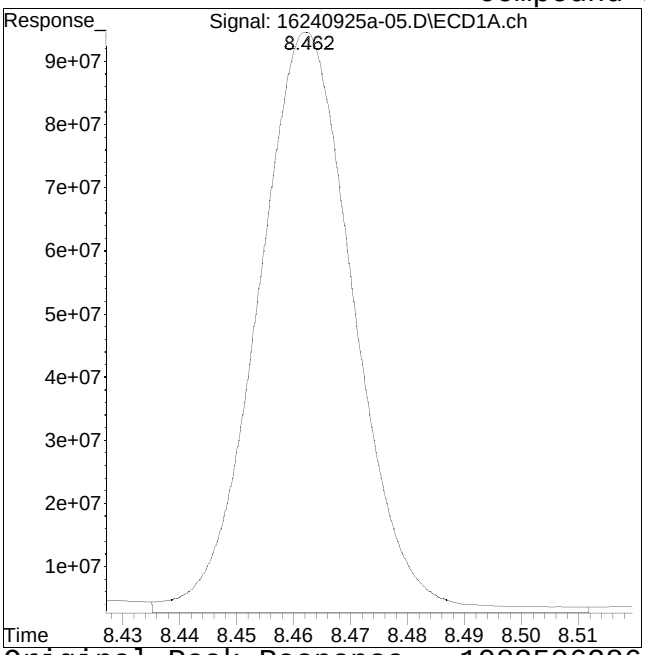
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

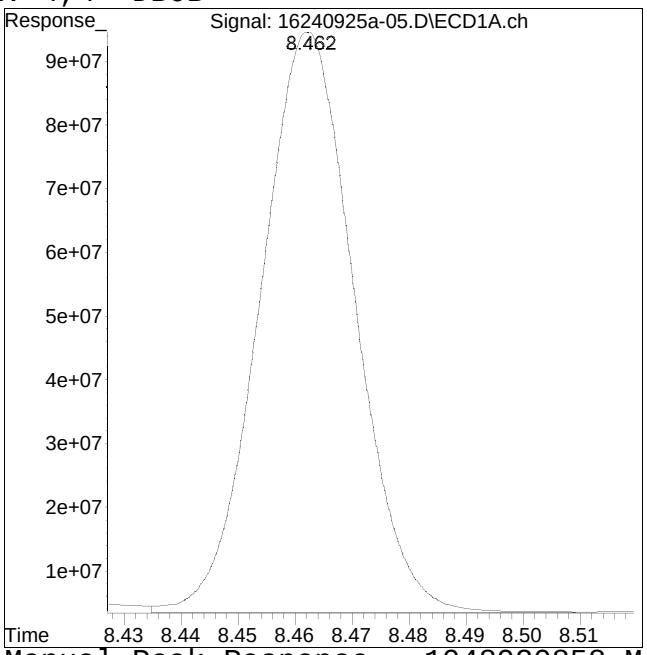


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #1: 4,4'-DBOB



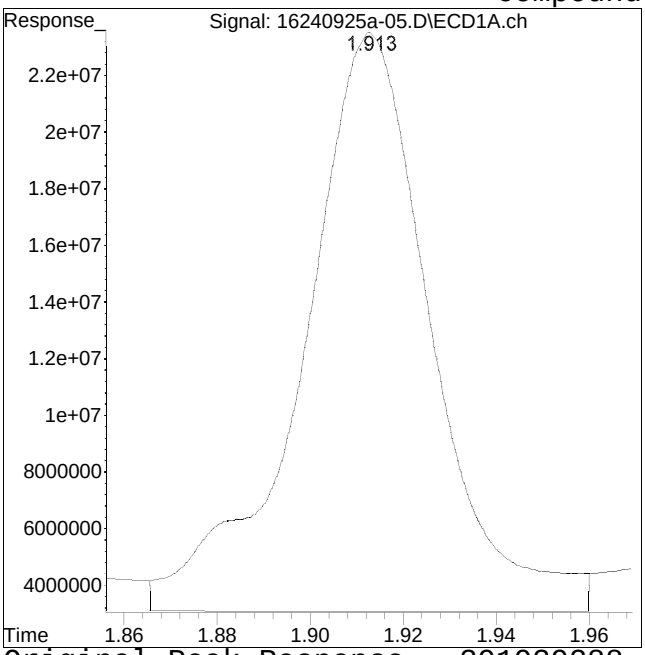


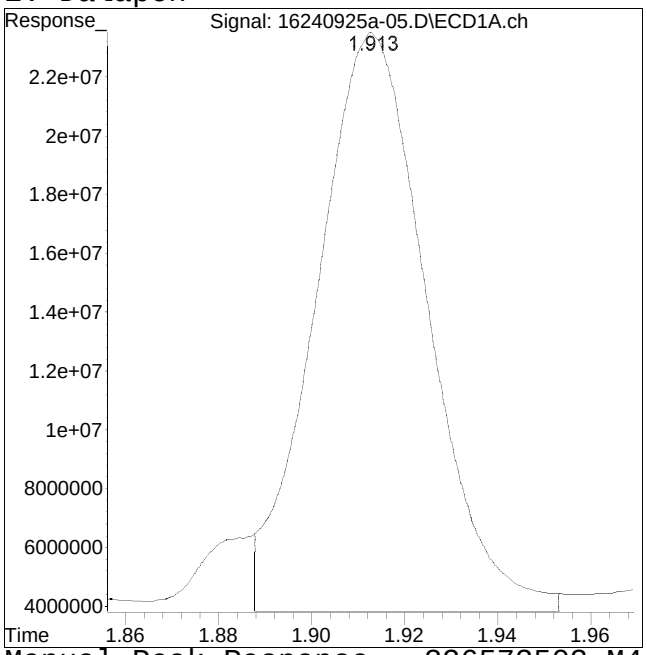
Original Peak Response = 1083596286 Manual Peak Response = 1048920858 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #2: Dalapon



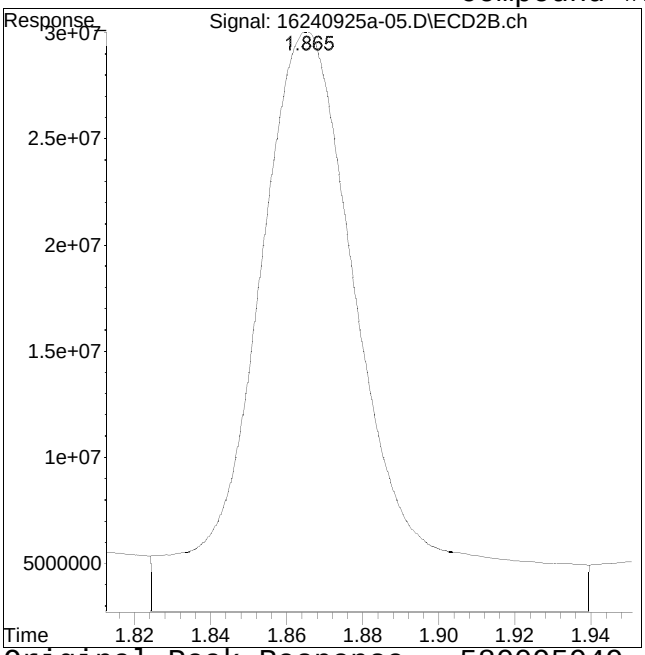


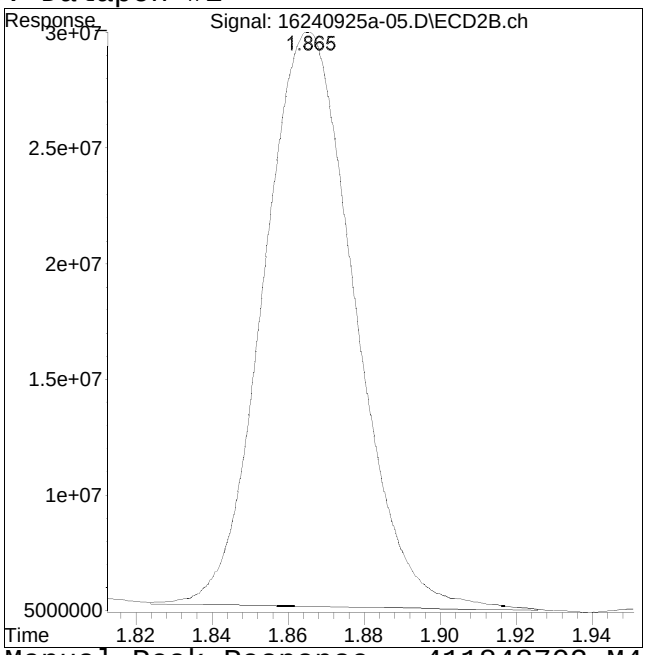
Original Peak Response = 391939288 Manual Peak Response = 326573503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #15: Dalapon #2



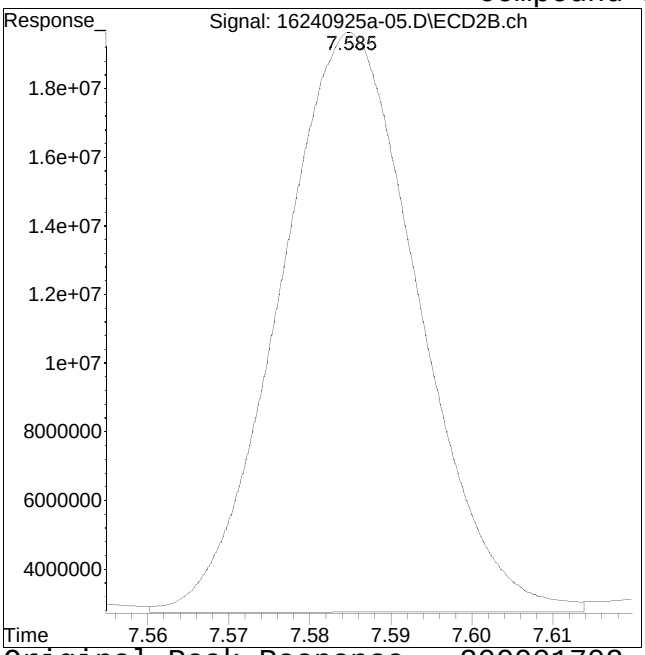


Original Peak Response = 580095949 Manual Peak Response = 411848702 M4
M4 = Poor automated baseline construction.

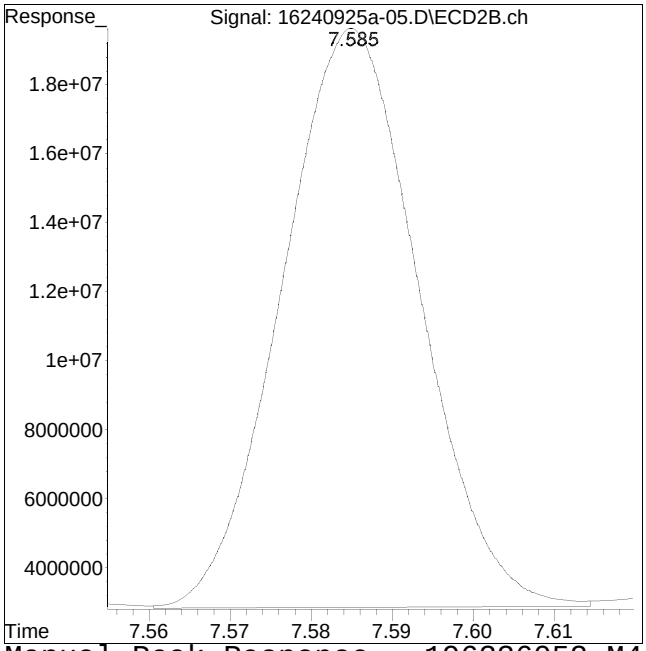
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #18: MCPP #2



Original Peak Response = 200001702



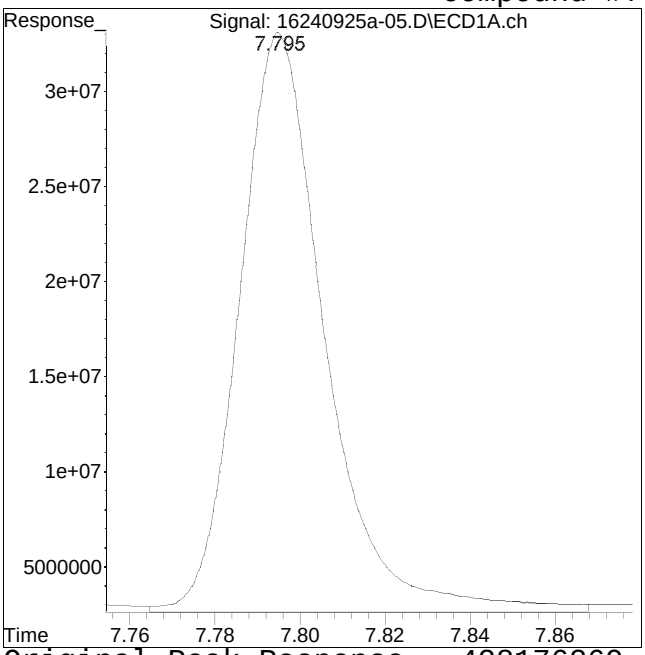
Manual Peak Response = 196336052 M4

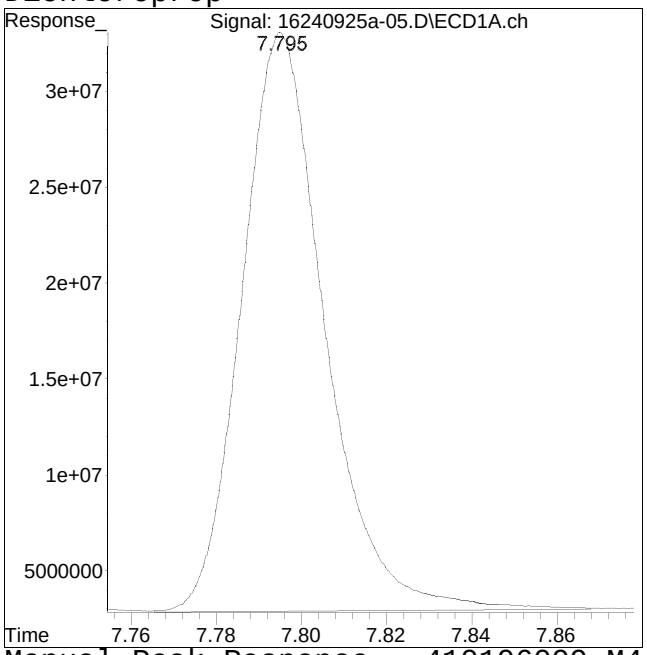
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #7: Dichloroprop



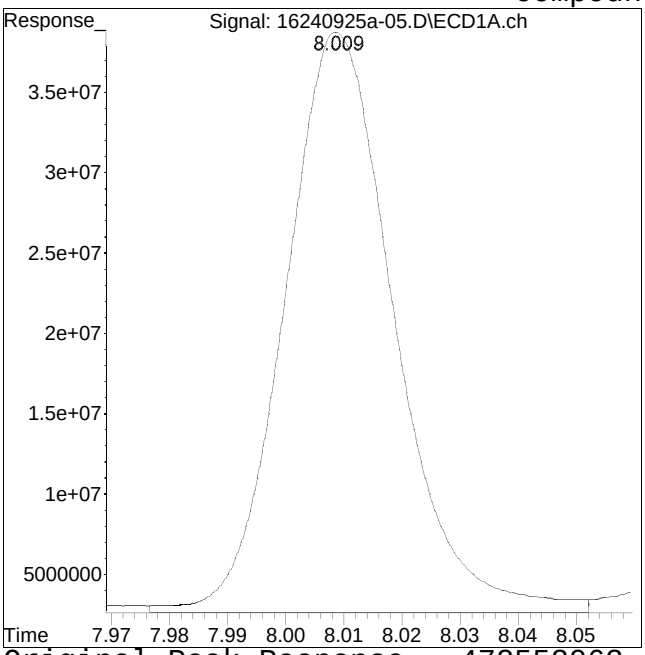


Original Peak Response = 428176269 Manual Peak Response = 410106099 M4
M4 = Poor automated baseline construction.

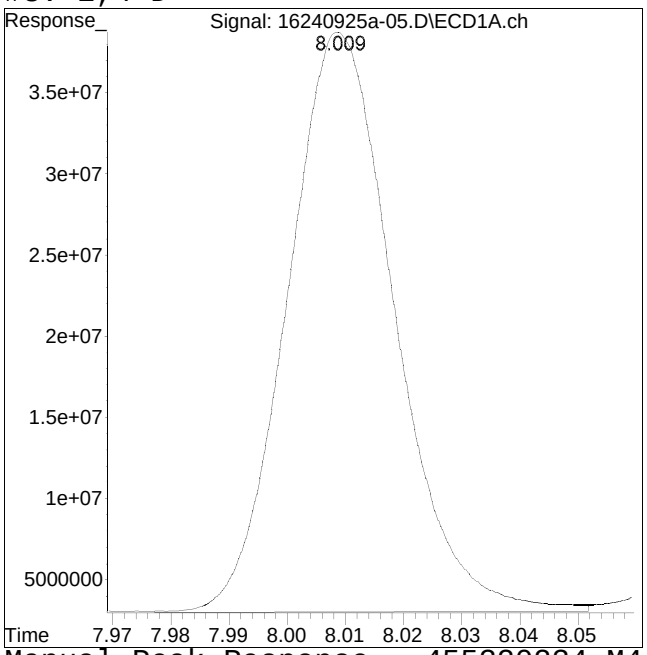
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #8: 2,4-D



Original Peak Response = 472552963



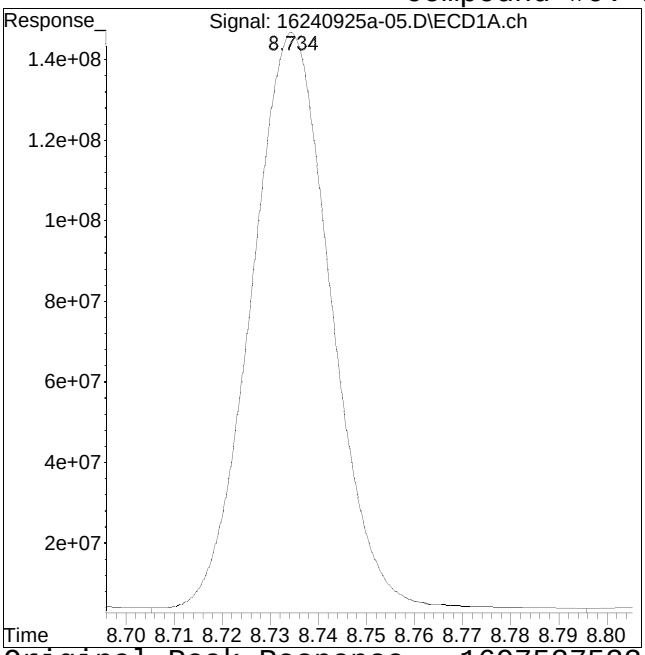
Manual Peak Response = 455320234 M4

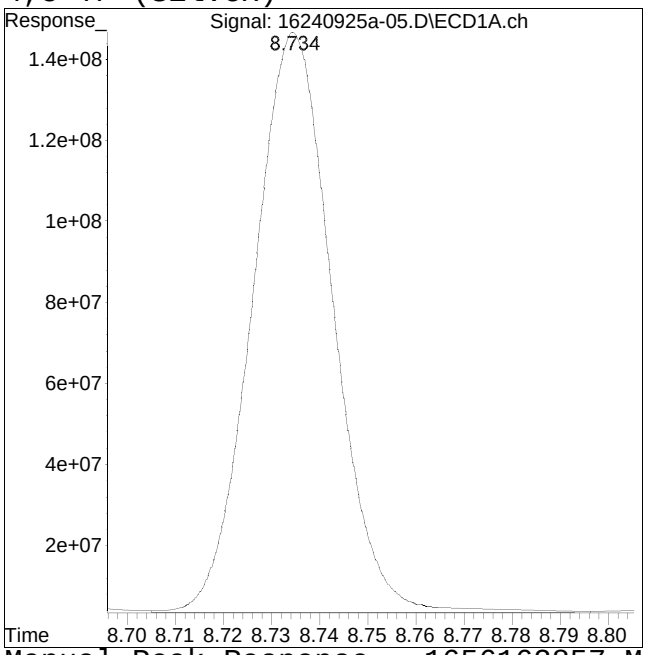
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #9: 2,4,5-TP (Silvex)



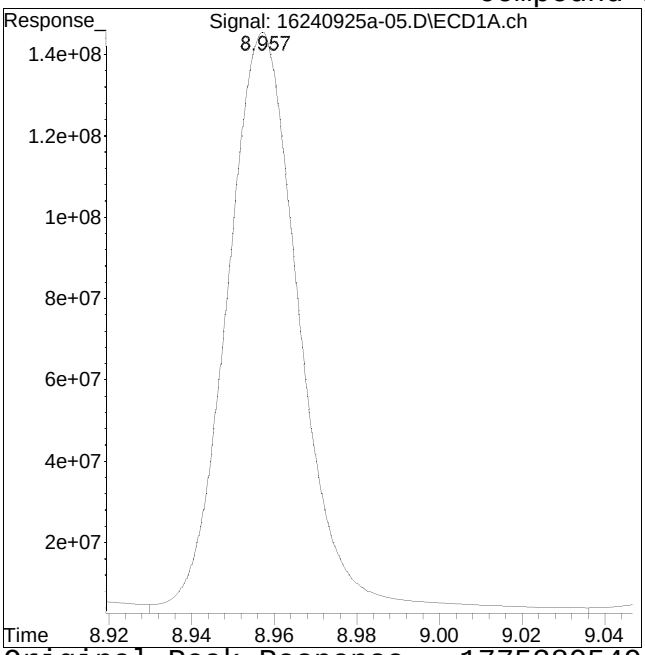


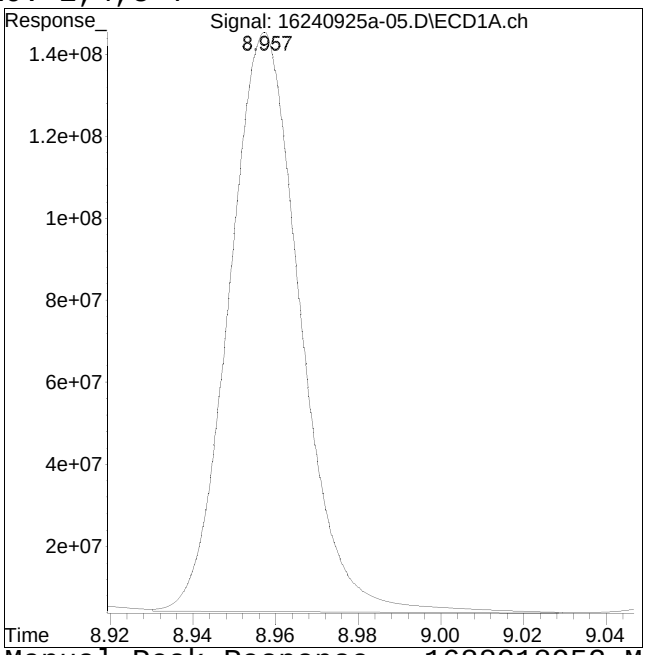
Original Peak Response = 1697527533 Manual Peak Response = 1656162857 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #10: 2,4,5-T



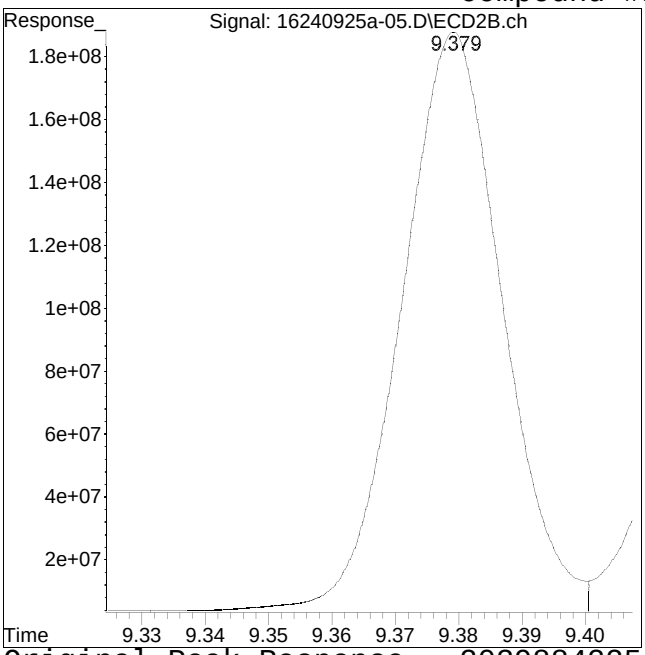


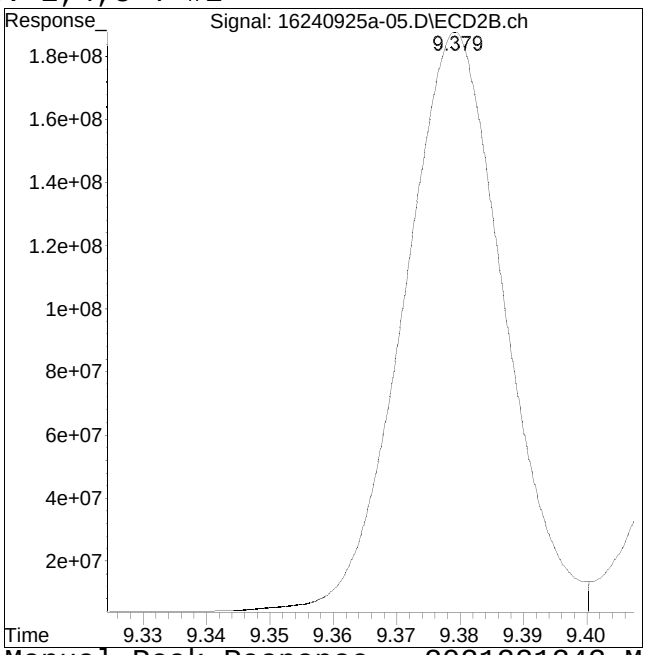
Original Peak Response = 1775389549 Manual Peak Response = 1688218952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #23: 2,4,5-T #2



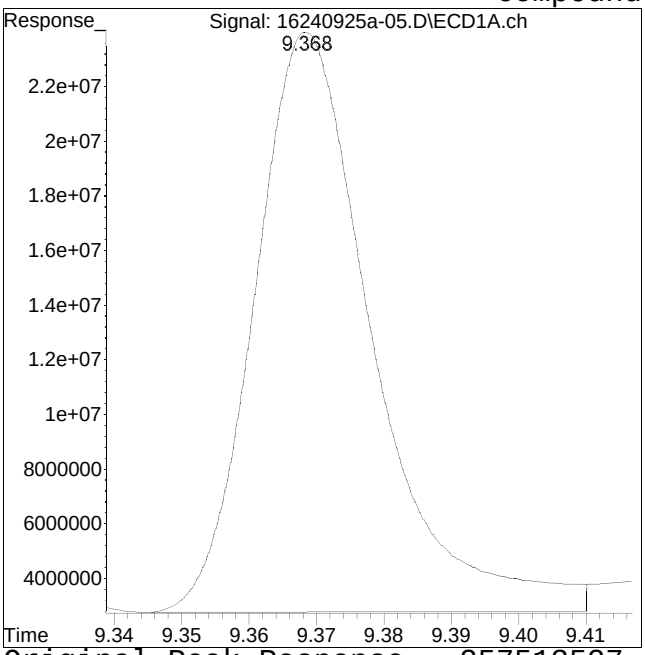


Original Peak Response = 2039884225 Manual Peak Response = 2021221243 M4
M4 = Poor automated baseline construction.

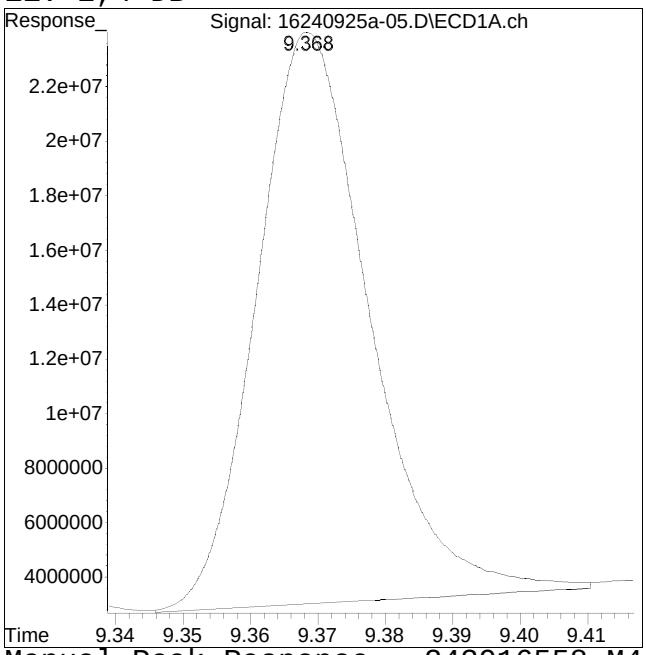
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #11: 2,4-DB



Original Peak Response = 257513527



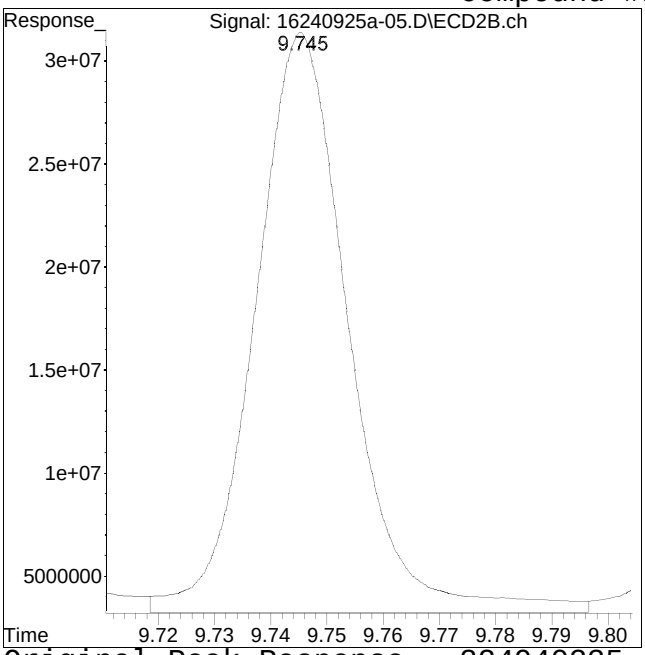
Manual Peak Response = 243916558 M4

M4 = Poor automated baseline construction.

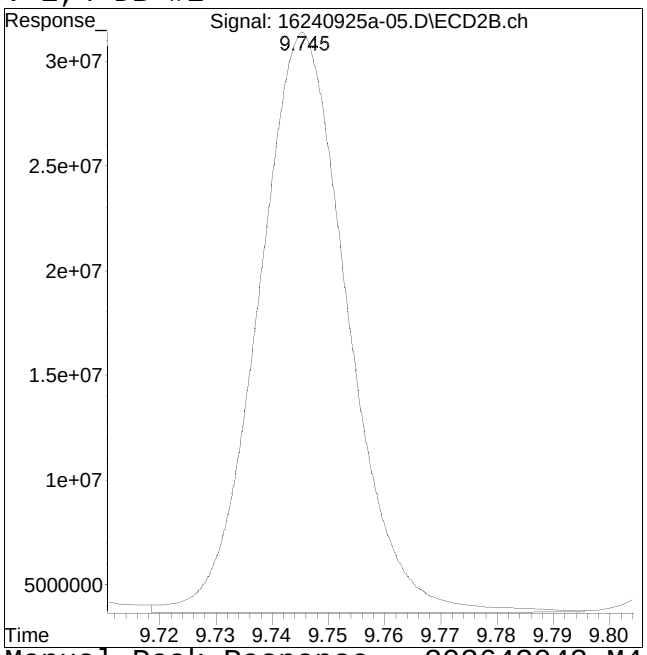
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #24: 2,4-DB #2



Original Peak Response = 324940335

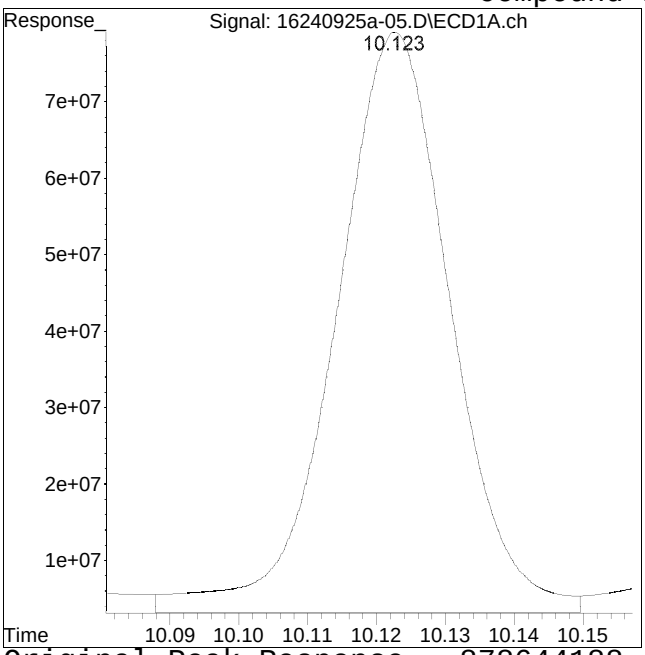


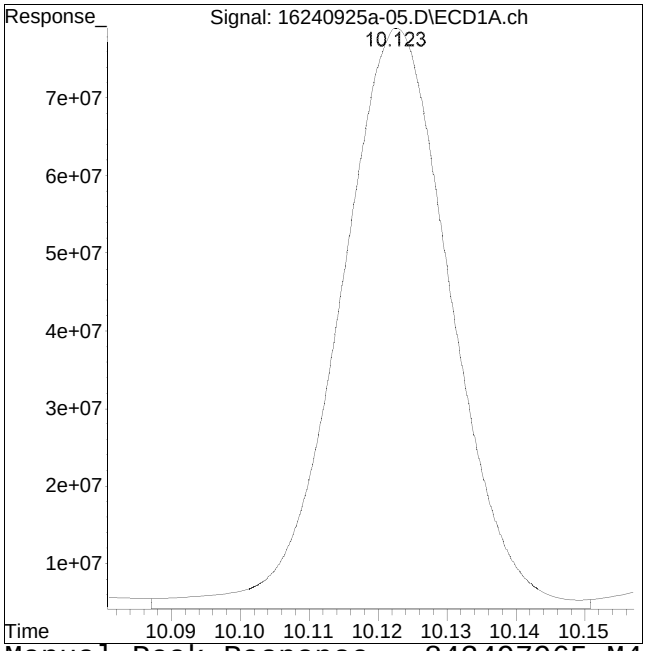
Manual Peak Response = 303643043 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #12: Dinoseb



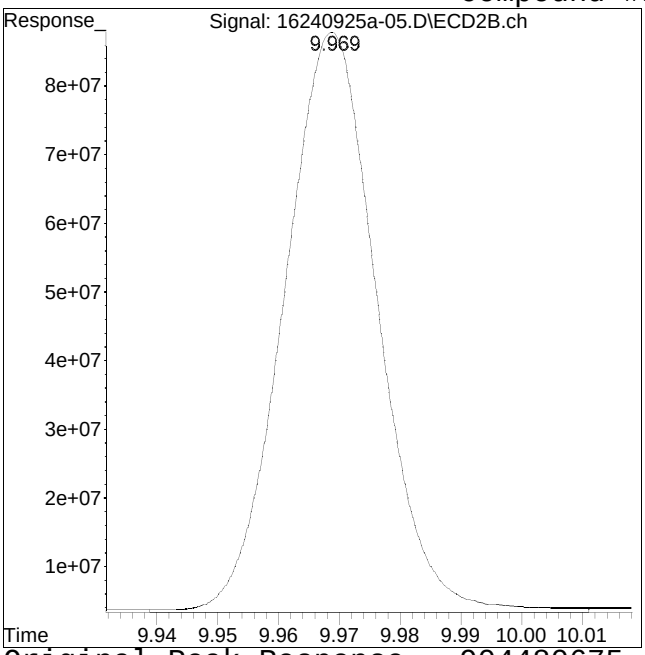


Original Peak Response = 878644188 Manual Peak Response = 843497965 M4
M4 = Poor automated baseline construction.

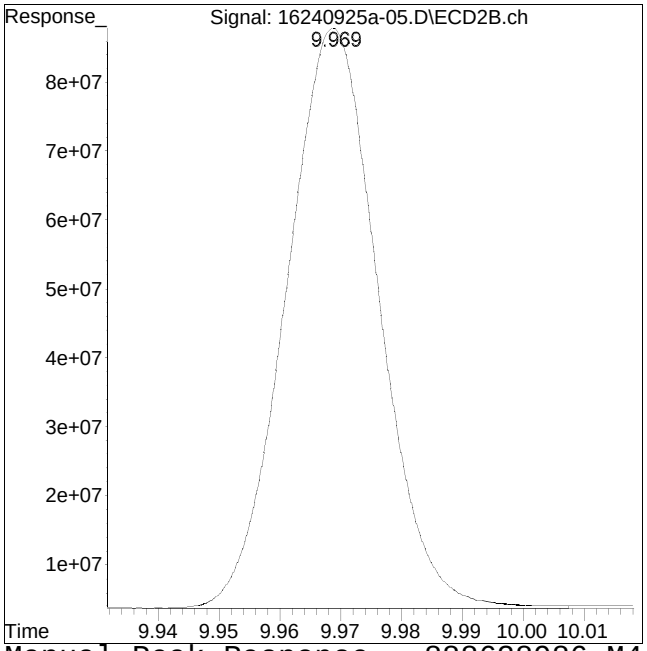
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #25: Dinoseb #2



Original Peak Response = 904480675



Manual Peak Response = 888638986 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:30
Operator : pest16:emr
Sample : WG1975468-3,42,, 5468 (Sig #1); WG1975469-3,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:32 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.454	8.374	1116.7E6	1345.0E6	0.250M4	0.250
Standard Area 1 : #1 = 1066579449				Recovery =	104.70%	
Standard Area 1 : #2 = 1286988911				Recovery =	104.51%	
System Monitoring Compounds						
3) s DCAA (surrog	6.889	7.282	369.3E6	500.4E6	0.441	0.488
Spiked Amount	0.500	Range 30 - 150		Recovery =	88.20%	97.60%
Target Compounds						
2) t Dalapon	1.911f	1.867f	385.2E6	473.7E6	0.419M4	0.454M4
4) t Dicamba	7.072	7.462	1283.5E6	1491.8E6	0.489	0.489
5) t MCPP	7.280	7.581	156.5E6	199.4E6	54.010	42.712
6) t MCPA	7.428	7.811	236.3E6	357.7E6	50.392	55.052
7) t Dichloroprop	7.786	8.131	432.5E6	463.7E6	0.541	0.474
8) t 2,4-D	8.000	8.412	472.4E6	612.9E6	0.531	0.494
9) t 2,4,5-TP (Si	8.726	9.081	1661.4E6	1927.1E6	0.484M4	0.440M4
10) t 2,4,5-T	8.949	9.375	1721.6E6	2049.6E6	0.507M4	0.611
11) t 2,4-DB	9.361	9.742	259.2E6	317.8E6	0.560M4	0.496M4
12) t Dinoseb	10.116	9.964	910.2E6	932.1E6	0.334M4	0.380M4
SemiQuant Compounds - Not Calibrated on this Instrument						

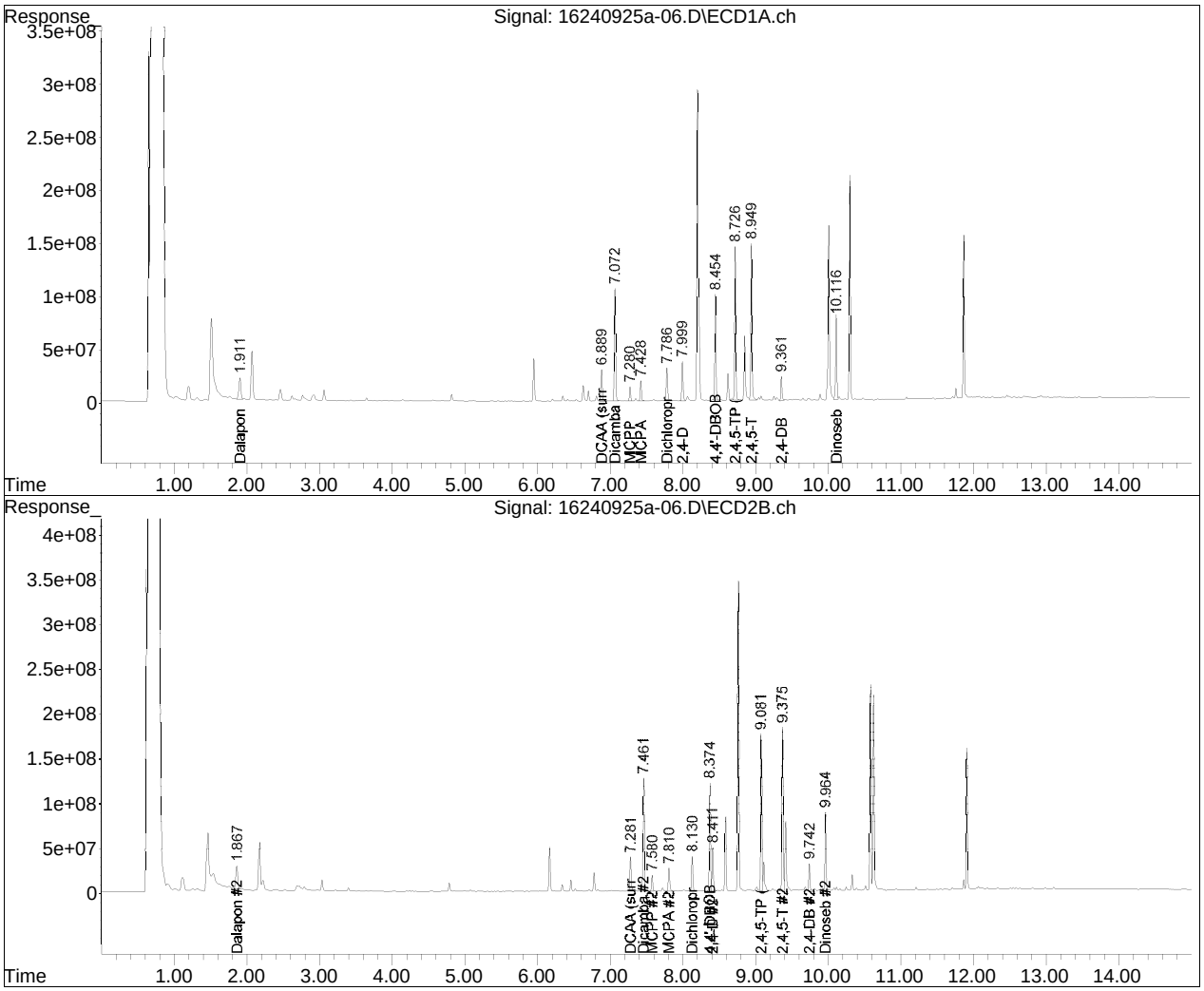
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:30
Operator : pest16:emr
Sample : WG1975468-3,42,, 5468 (Sig #1); WG1975469-3,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:32 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

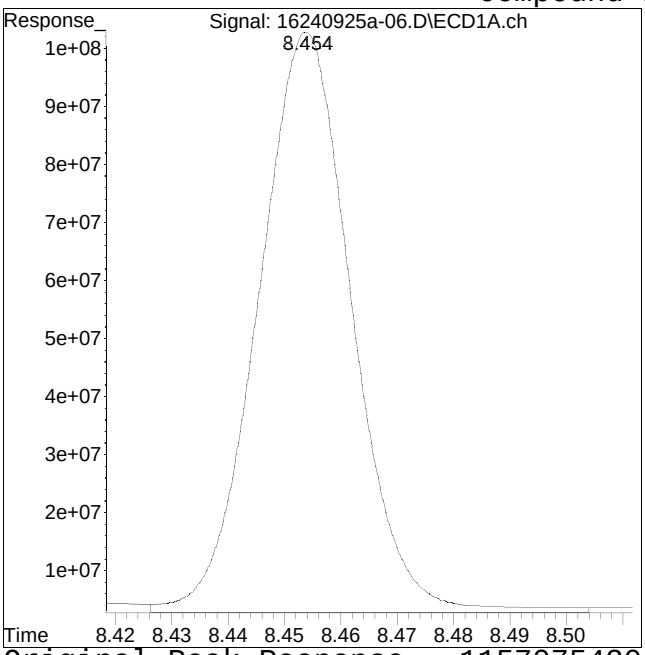
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

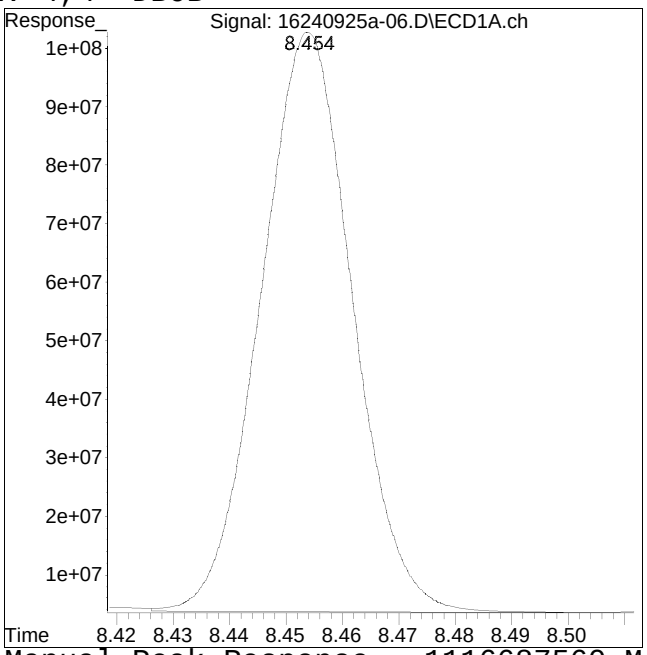


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #1: 4,4'-DBOB



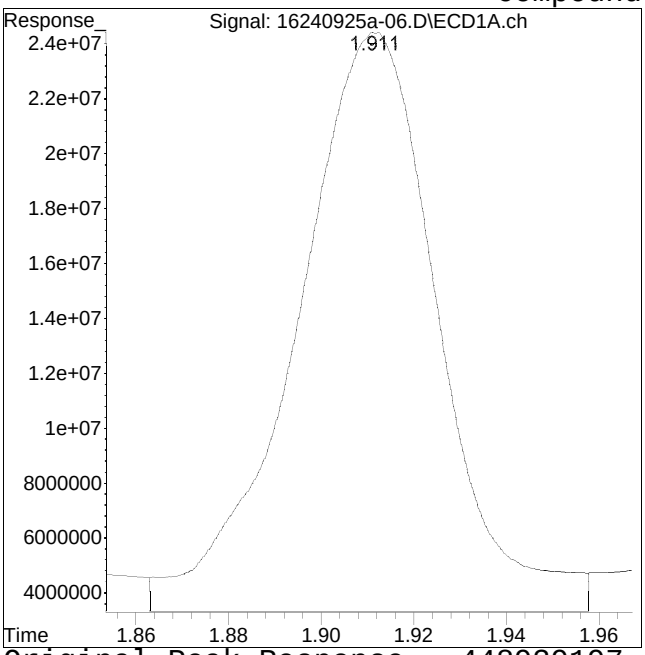


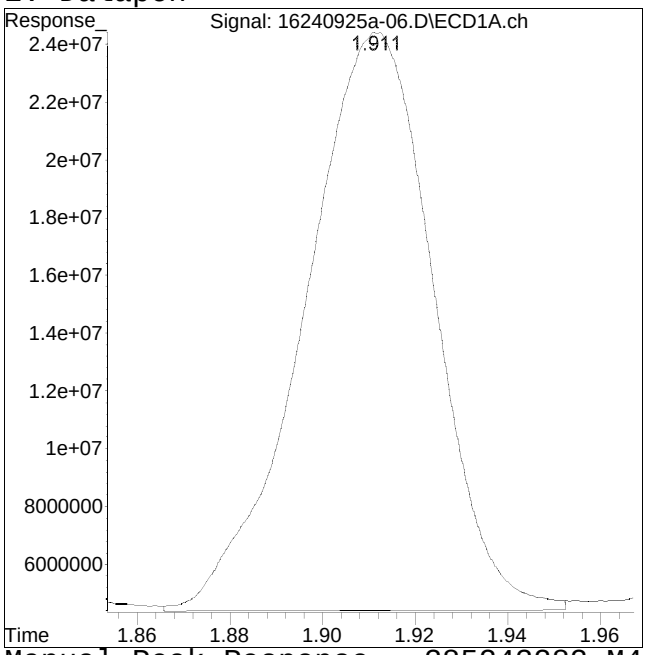
Original Peak Response = 1157075420 Manual Peak Response = 1116687560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #2: Dalapon



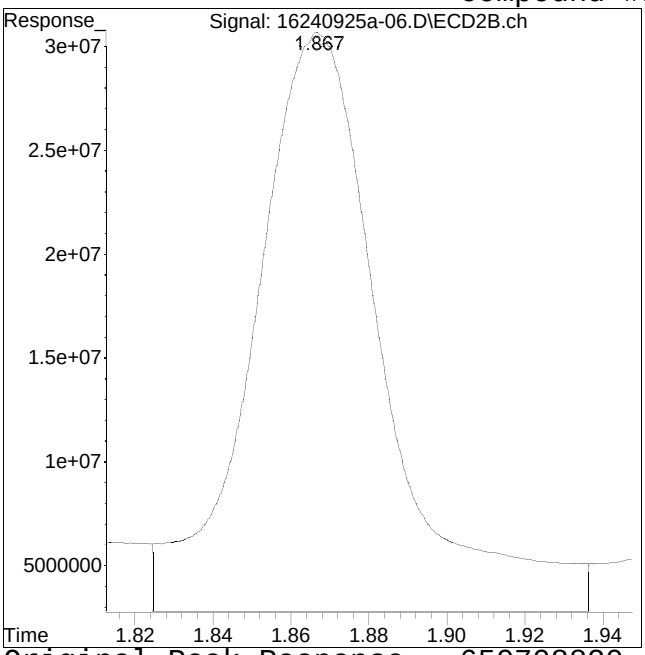


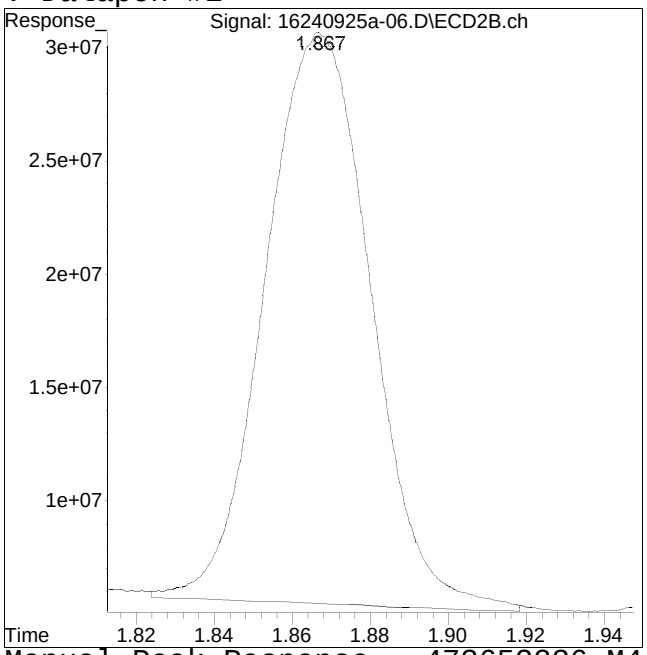
Original Peak Response = 448939197 Manual Peak Response = 385243282 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #15: Dalapon #2



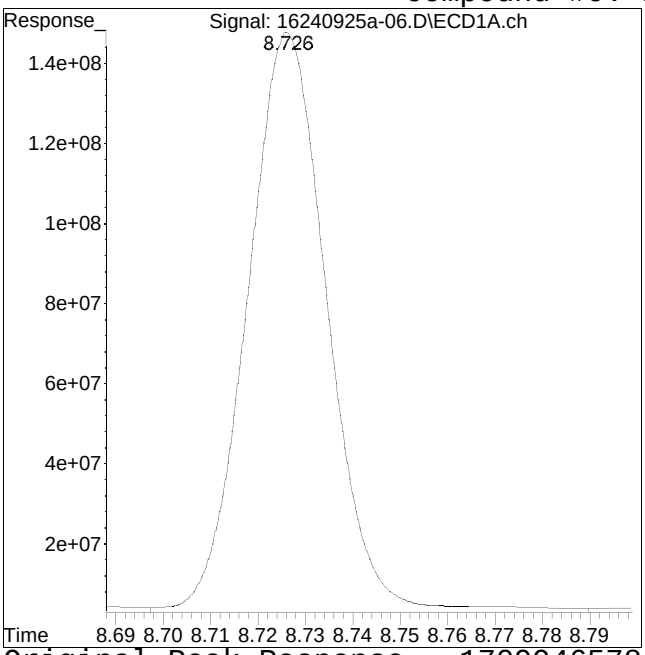


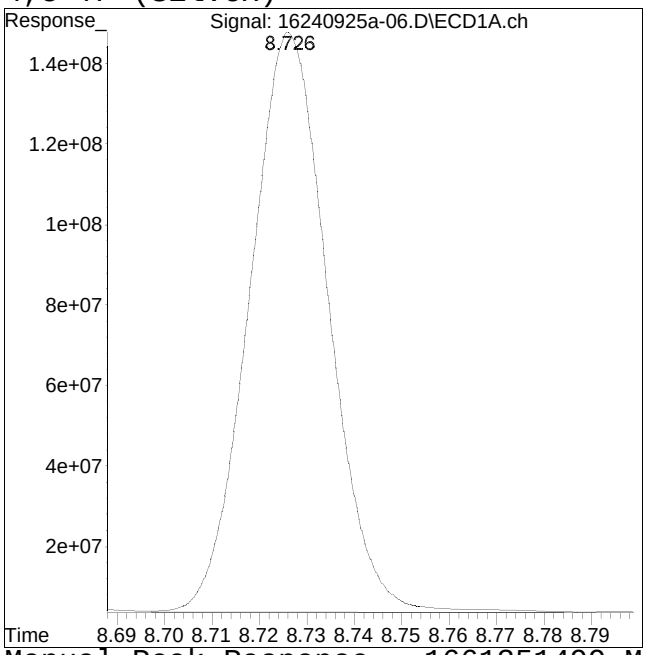
Original Peak Response = 650708820 Manual Peak Response = 473653236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #9: 2,4,5-TP (Silvex)



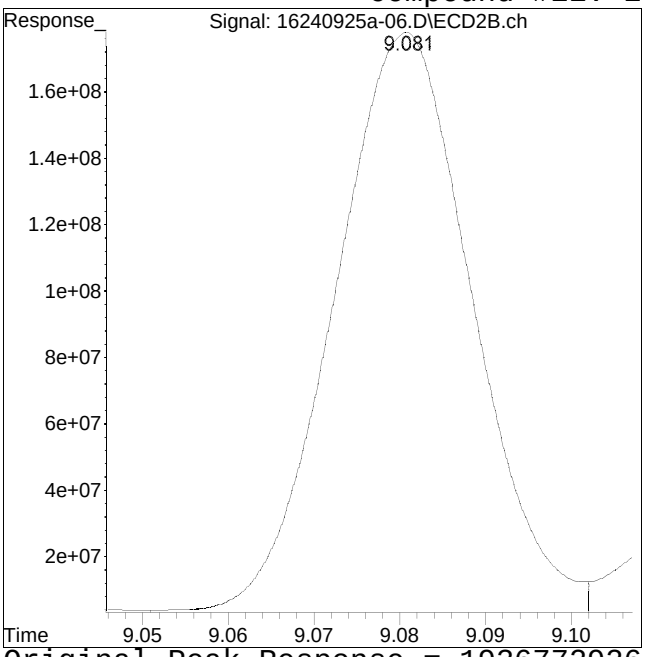


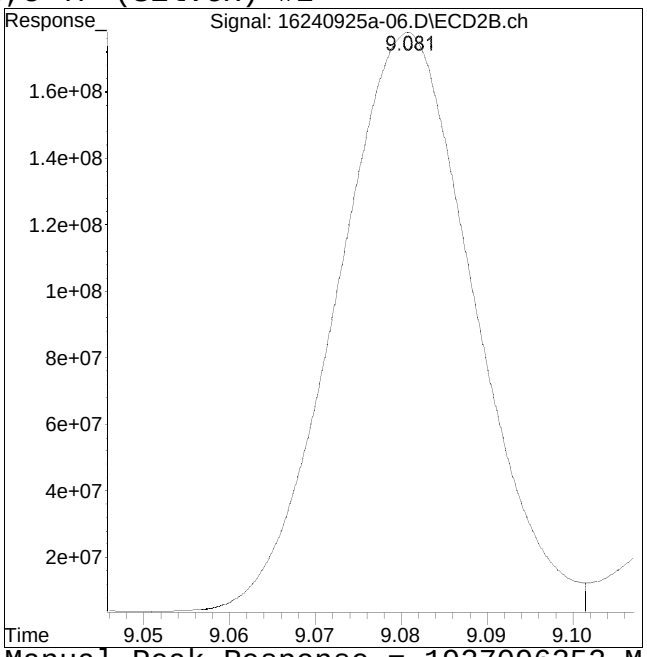
Original Peak Response = 1709946578 Manual Peak Response = 1661351499 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #22: 2,4,5-TP (Silvex) #2



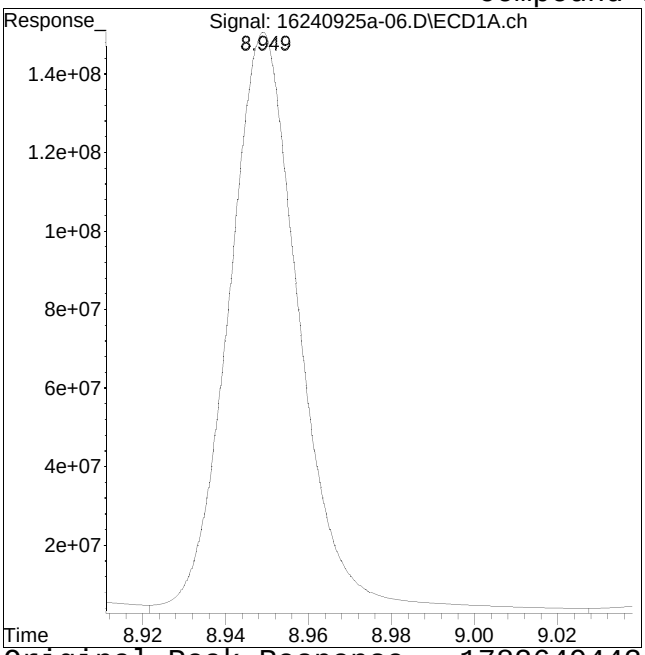


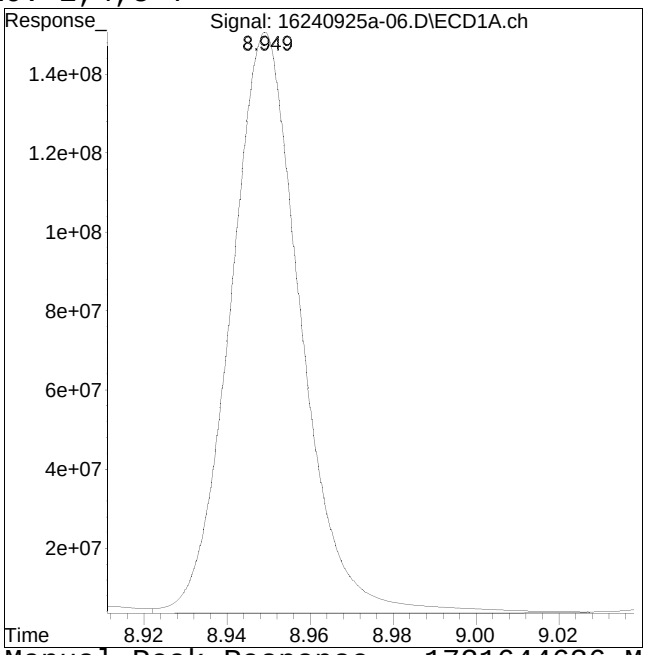
Original Peak Response = 1936772926 Manual Peak Response = 1927096352 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #10: 2,4,5-T



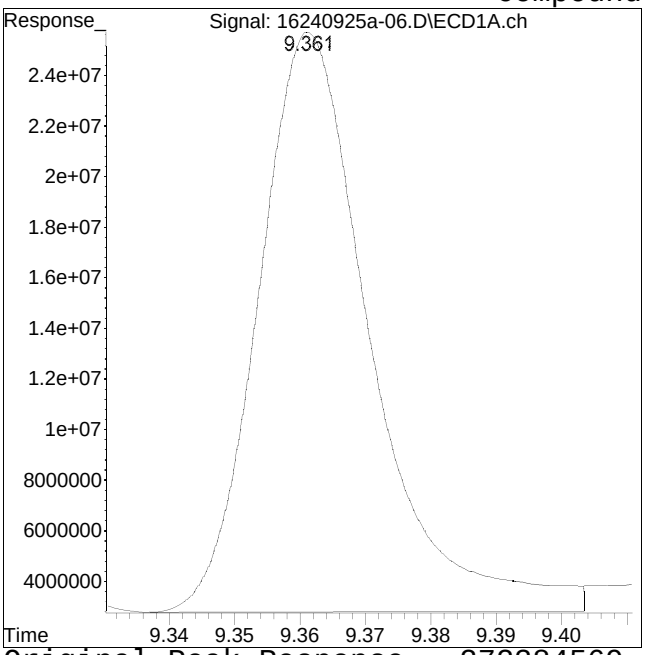


Original Peak Response = 1782649443 Manual Peak Response = 1721644636 M4
M4 = Poor automated baseline construction.

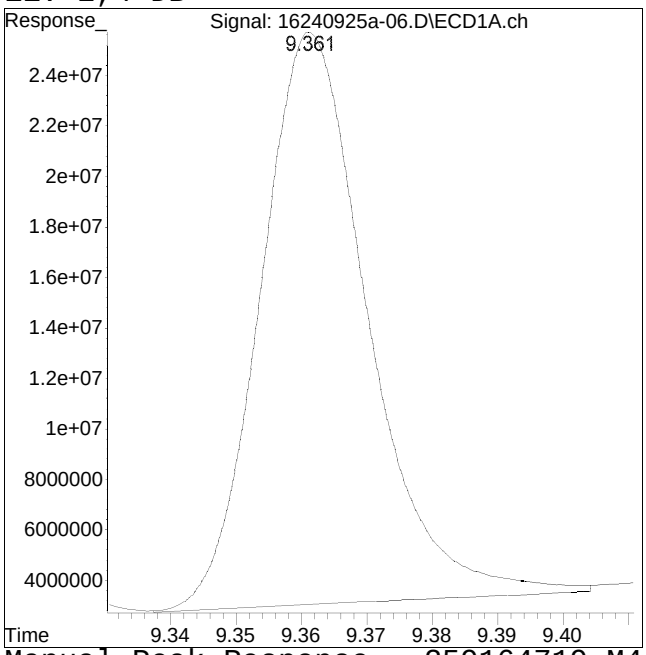
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #11: 2,4-DB



Original Peak Response = 272384569



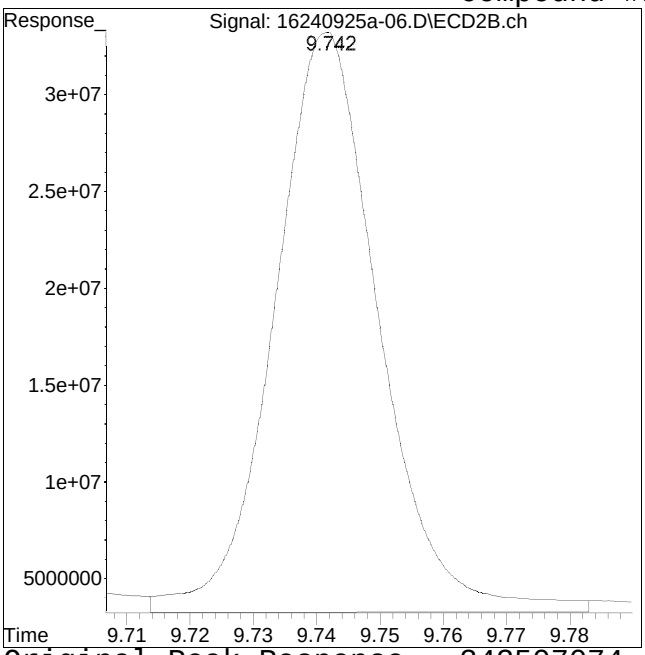
Manual Peak Response = 259164719 M4

M4 = Poor automated baseline construction.

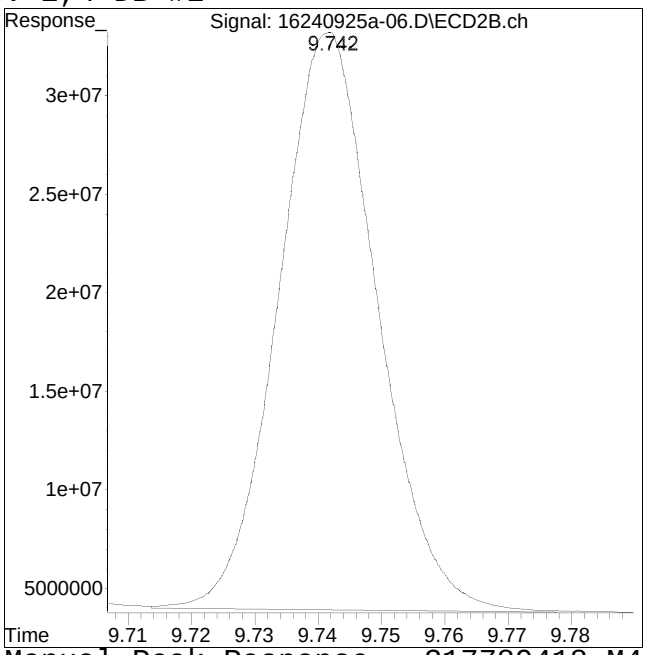
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #24: 2,4-DB #2



Original Peak Response = 343507074



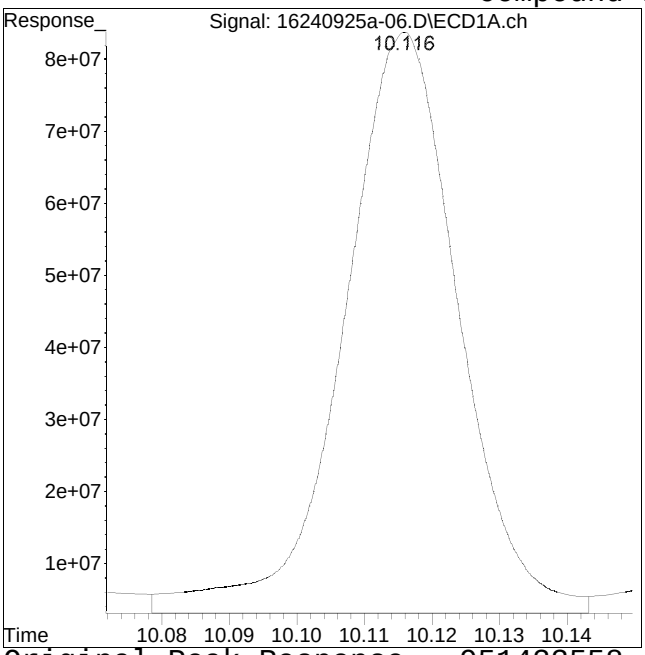
Manual Peak Response = 317789418 M4

M4 = Poor automated baseline construction.

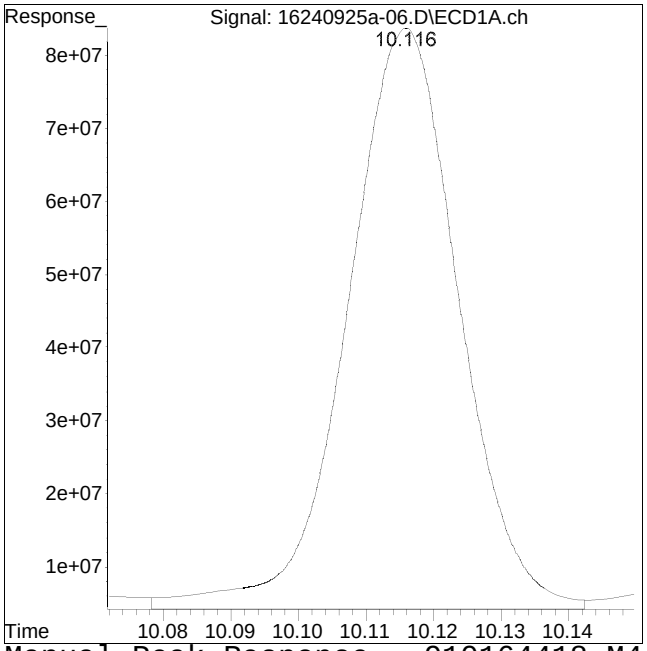
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #12: Dinoseb



Original Peak Response = 951433558



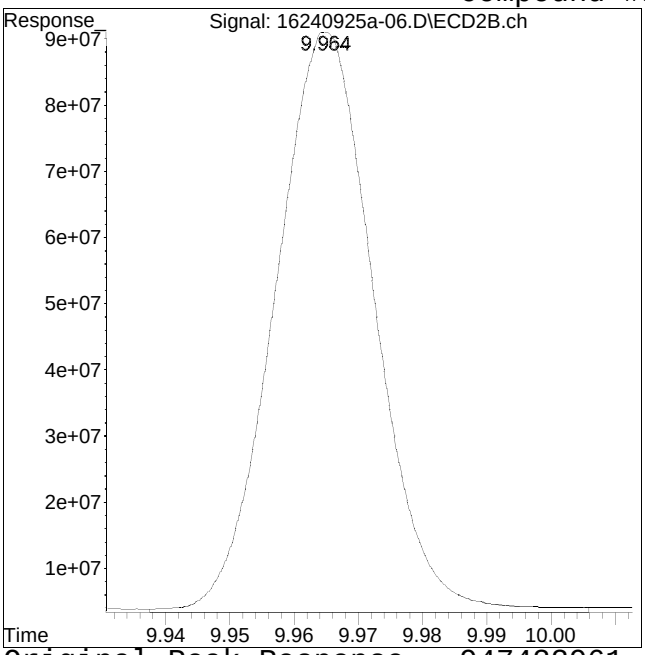
Manual Peak Response = 910164418 M4

M4 = Poor automated baseline construction.

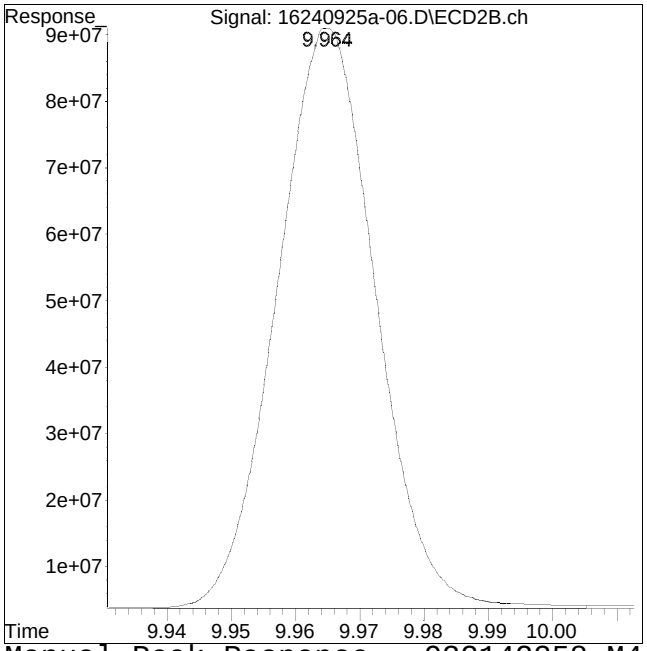
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #25: Dinoseb #2



Original Peak Response = 947422961



Manual Peak Response = 932142258 M4

M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: PEST
Inst: Pest_16
Date: **08/29/24**
Run: ical

Method
GC: 8151

Seq: WG1967371
IS: pp11555

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	16240829i-01	blank,42e,,pp 11555 ---				
2	16240829i-02	il1herb,42e,,pp 11633 L0.005/5				PEG 8/30
3	16240829i-03	il2herb,42e,,pp 11632 L0.1/10				PEG 8/30
4	16240829i-04	il3herb,42e,,pp 11631 L0.2/20				PEG 8/30
5	16240829i-05	il4herb,42e,,pp 11630 L0.5/50				PEG 8/30
6	16240829i-06	il5herb,42e,,pp 11629 L1/100				PEG 8/30
7	16240829i-07	il6herb,42e,,pp 11628 L2/200				PEG 8/30
8	16240829i-08	cicv,42e,,pp 11634 L0.2/20 ICV			akm	PEG 8/30

Dep.: PEST
Inst: Pest_16
Date: **09/25/24**
Run: a

Method
GC: 8151

Seq: wg1975970
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	16240925a-01	blank				
2	16240925a-02	herb11705				EMR 9/25
3	16240925a-03	blank				
4	16240925a-04	WG1975469-1,42,, 5468				EMR 9/25
5	16240925a-05	WG1975469-2,42,, 5468				EMR 9/25
6	16240925a-06	WG1975469-3,42,, 5468				EMR 9/25
7	16240925a-07	L2453311-05,42,,				EMR 9/25
8	16240925a-08	WG1975565-1,42,, 530/529				EMR 9/25
9	16240925a-09	WG1975565-2,42,, 530/529				EMR 9/25
10	16240925a-10	WG1975565-3,42,, 530/529				EMR 9/25
11	16240925a-11	L2454436-02,42,,,R3C p				EMR 9/25
12	16240925a-12	WG1975529-4,42,, ms				EMR 9/25
13	16240925a-13	WG1975529-5,42,, dup				EMR 9/25
14	16240925a-14	L2454436-05,42,,,R3C				EMR 9/25
15	16240925a-15	WG1975814-1,42,, t	t 21-sep-24 13:57			EMR 9/25
16	16240925a-16	WG1975814-2,42,, t	t 21-sep-24 13:57			EMR 9/25
17	16240925a-17	WG1975814-3,42,, t	t 21-sep-24 13:57		akm	EMR 9/25
18	16240925a-18	L2453601-01,42,, t	t 21-sep-24 13:57			EMR 9/25
19	16240925a-19	L2453645-03,42,, t	t 21-sep-24 13:57			EMR 9/25
20	16240925a-20	L2454432-01,42,,,R3C t	t 22-sep-24 07:00			EMR 9/25
21	16240925a-21	L2454436-02,42,,,R3C t	t 22-sep-24 07:00		peg	EMR 9/25
22	16240925a-22	L2454436-05,42,,,R3C t	t 22-sep-24 07:00			EMR 9/25
23	16240925a-23	L2453342-06,42,,				EMR 9/25
24	16240925a-24	herb11705	a/b many high			EMR 9/25
25	16240925a-25	L2453342-07,42,,				EMR 9/25
26	16240925a-26	L2453342-08,42,,				EMR 9/25
27	16240925a-27	L2453342-10,42,,				EMR 9/25
28	16240925a-28	WG1975758-1,42,,			peg	JAG 9/25
29	16240925a-29	WG1975758-2,42,,				JAG 9/25
30	16240925a-30	WG1975758-3,42,,				JAG 9/25
31	16240925a-31	L2453391-11,42,,				JAG 9/25
32	16240925a-32	L2453342-01,42,,				JAG 9/25
33	16240925a-33	L2453342-02,42,,				JAG 9/25
34	16240925a-34	L2453342-03,42,,				JAG 9/25
35	16240925a-35	L2453342-04,42,,				JAG 9/25
36	16240925a-36	L2453342-05,42,,			akm	JAG 9/25

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 07:10 pm

Work Group: WG1975468 for Department: 2 Organic Preparation

Created: 24-SEP-24 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453342-01	MP-1	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-02	MP-1D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-03	MW-13D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-04	MW-13S	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-05	MW-10D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-06	MW-10S	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-07	MW-6D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-08	PZ-6	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-10	EQUIPMENT BLANK	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453720-01	MW-8S	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-02	MW-8D	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-03	DUP_091824	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-04	EQUIPMENT BLANK	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-06	MW-5D	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-07	PZ-5	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-08	MW-12S	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2453720-09	MW-12D	S	HERB-8151	WATER	EXT	U	0925	0925	S0	Amber-A1
L2454380-01	24I2734-01	S	HERB-8151	WATER	EXT	U	0925	1004	S0	Amber-A1
L2454380-02	24I2734-02	S	HERB-8151	WATER	EXT	U	0925	1004	S0	Amber-A1
WG1975468-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1975468-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1975468-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				
WG1975468-4	Matrix Spike	S	HERB-8151	WATER	EXT	U				
WG1975468-5	Matrix Spike Duplica	S	HERB-8151	WATER	EXT	U				

Comments:

WG1975468-3	WG1975468-2
WG1975468-4	L2453720-02
WG1975468-5	L2453720-02

ORGANIC ELN REPORT

Workgroup: WG1975468

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24050143
Surrogate Type: Herbicide **Lot #:** PP11710BC-012625
Spike Type: Herbicides **Lot #:** PP11709AD-012525
Spike Verify by: MAD
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A091224
25% NaOH	Na091024
Acidified Na2SO4	AS092424
DCM	EJ089
Diethyl ether	24050143
Na2S2O3	NA
NaCl	24C2556110

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 24050143

Additional Reagents/Stds

Acidified Na2SO4	AS092424
Diazomethane	D091924
Hexane	EJ061
Isooctane	STBK8849
Methanol	64039
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2453342-01 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-02 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-03 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-04 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-05 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7

Reported: 25-SEP-24 07:10 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2453342-06 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-07 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-08 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-10 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453720-01 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-02 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-03 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-04 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-06 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						

Reported: 25-SEP-24 07:10 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2453720-07 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-08 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2453720-09 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2454380-01 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
L2454380-02 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45						
WG1975468-1 BLANK	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-2 LCS	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5	.5	09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-3 LCSD	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5	.5	09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-4 MS	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45						

Reported: 25-SEP-24 07:10 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1975468-5 MSD	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45						

Reported: 25-SEP-24 07:10 PM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MP-1 (L2453342-01)	72	63	79	70			0
MP-1D (L2453342-02)	70	61	72	68			0
MW-13D (L2453342-03)	78	68	88	80			0
MW-13S (L2453342-04)	75	64	90	79			0
MW-10D (L2453342-05)	79	69	83	73			0
MW-10S (L2453342-06)	72	62	76	72			0
MW-6D (L2453342-07)	76	66	84	72			0
PZ-6 (L2453342-08)	77	66	83	78			0
EQUIPMENT BLANK (L2453342-10)	77	64	79	69			0
WG1974859-1BLANK	83	74	81	76			0
WG1974859-2LCS	85	76	84	78			0
WG1974859-3LCSD	84	74	85	77			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974859-2 **Analysis Date** : 09/23/24 09:39	**File ID**	: P2240923a-18
LCSD Sample ID	: WG1974859-3 **Analysis Date** : 09/23/24 09:48	**File ID**	: P2240923a-19

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.51	85	1.78	1.52	85	1	40-140	50
Aroclor 1260	1.78	1.52	85	1.78	1.55	87	2	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974859-1	**Lab File ID**	: P2240923a-17
Matrix	: WATER	**Extraction Date**	: 09/22/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 09/23/24 09:30	**Analysis Date (2)**	: 09/23/24 09:30
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1974859-2LCS	WG1974859-2	09/23/24 09:39	09/23/24 09:39
WG1974859-3LCSD	WG1974859-3	09/23/24 09:48	09/23/24 09:48
MP-1	L2453342-01	09/24/24 17:51	09/24/24 17:51
MP-1D	L2453342-02	09/24/24 18:00	09/24/24 18:00
MW-13D	L2453342-03	09/24/24 18:09	09/24/24 18:09
MW-13S	L2453342-04	09/24/24 18:17	09/24/24 18:17
MW-10D	L2453342-05	09/24/24 18:26	09/24/24 18:26
MW-10S	L2453342-06	09/24/24 18:35	09/24/24 18:35
MW-6D	L2453342-07	09/24/24 18:43	09/24/24 18:43
PZ-6	L2453342-08	09/24/24 18:52	09/24/24 18:52
EQUIPMENT BLANK	L2453342-10	09/24/24 19:01	09/24/24 19:01

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 09/16/24 09/16/24

Client ID	Lab ID	Date/Time Analyzed
1016/1260 L1 (4ug/L)	R1876926-1	09/16/24 15:29
1016/1260 L2 (10ug/L)	R1876926-2	09/16/24 15:38
1016/1260 L3 (20ug/L)	R1876926-3	09/16/24 15:47
1016/1260 L4 (30ug/L)	R1876926-4	09/16/24 15:55
1016/1260 L5 (40ug/L)	R1876926-5	09/16/24 16:04
1016/1260 L6 (50ug/L)	R1876926-6	09/16/24 16:13
1016/1260 L7 (100ug/L)	R1876926-8	09/16/24 16:22
1016/1260 L8 (250ug/L)	R1876926-7	09/16/24 16:30
1016/1260 L9 (500ug/L)	R1876926-9	09/16/24 16:39
1016/1260 L10 (1000ug/L)	R1876926-10	09/16/24 16:48
R1876926-11 ICV	R1876926-11	09/16/24 16:56
1221/1254 L8 (250ug/L)	R1876926-12	09/16/24 17:14
1248 L8 (250ug/L)	R1876926-13	09/16/24 17:23
1232/1262 L8 (250ug/L)	R1876926-14	09/16/24 17:32
1242/1268 L8 (250ug/L)	R1876926-15	09/16/24 17:41
R1876926-16 ICV	R1876926-16	09/16/24 17:49
R1876926-17 ICV	R1876926-17	09/16/24 17:58
R1876926-19 ICV	R1876926-19	09/16/24 18:07
R1876926-18 ICV	R1876926-18	09/16/24 18:15
WG1974934-1 CCAL	WG1974934-1	09/23/24 05:57
WG1974859-1 BLANK	WG1974859-1	09/23/24 09:30
WG1974859-2 LCS	WG1974859-2	09/23/24 09:39
WG1974859-3 LCSD	WG1974859-3	09/23/24 09:48
WG1975391-5 CCAL	WG1975391-5	09/24/24 13:57
MP-1	L2453342-01	09/24/24 17:51
MP-1D	L2453342-02	09/24/24 18:00
MW-13D	L2453342-03	09/24/24 18:09
MW-13S	L2453342-04	09/24/24 18:17
MW-10D	L2453342-05	09/24/24 18:26
MW-10S	L2453342-06	09/24/24 18:35
MW-6D	L2453342-07	09/24/24 18:43
PZ-6	L2453342-08	09/24/24 18:52
EQUIPMENT BLANK	L2453342-10	09/24/24 19:01

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:51
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-55	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-56	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:09
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-57	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:17
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-58	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:26
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-59	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:35
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-60	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:43
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-61	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:52
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-62	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:01
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240924a-63	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974859-1	**Date Collected**	: NA
Client ID	: WG1974859-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 09:30
Sample Matrix	: WATER	**Date Extracted**	: 09/22/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240923a-17	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-55.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 17:51
Operator : pest2:meo
Sample : L2453342-01,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 55 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:24 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.249	246.6E6	307.9E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	119.86%	
	Standard Area 1 : #2 = 279636966				Recovery =	110.10%	
14) i	2154_1br2nb	1.184	1.249	246.6E6	307.9E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.249	246.6E6	307.9E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.249	246.6E6	307.9E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.249	246.6E6	307.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.617	206.1E6	254.4E6	14.403	12.608
	Spiked Amount 20.000	Range 30 - 150			Recovery =	72.02%	63.04%
3) s	Decachlorobi	4.010	4.515f	179.7E6	189.2E6	15.787M4	13.956
	Spiked Amount 20.000	Range 30 - 150			Recovery =	78.94%	69.78%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-55.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 17:51
Operator : pest2:meo
Sample : L2453342-01,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 55 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:24 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-55.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 17:51
Operator : pest2:meo
Sample : L2453342-01,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 55 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:24 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

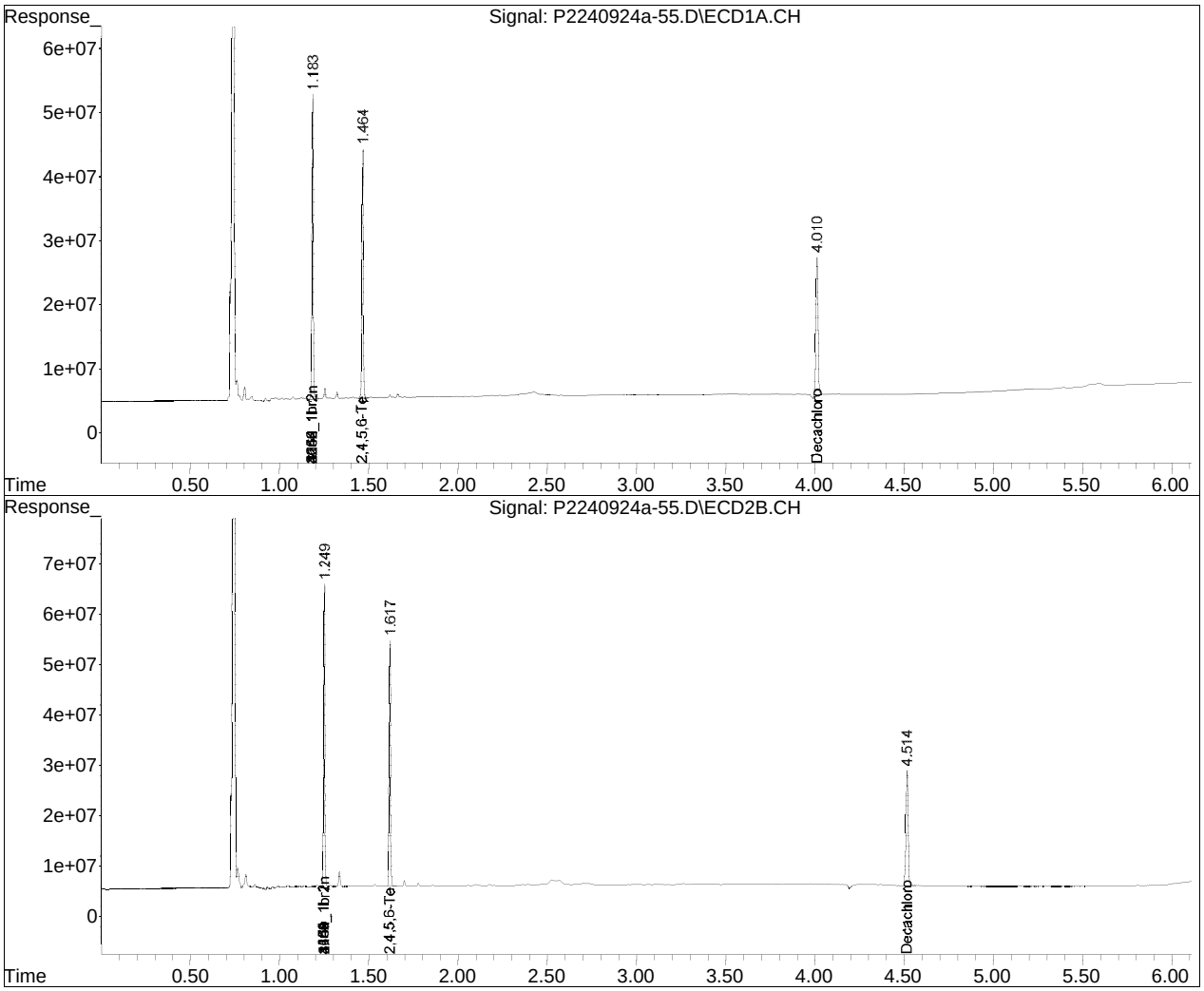
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-55.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 17:51
Operator : pest2:meo
Sample : L2453342-01,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 55 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:24 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

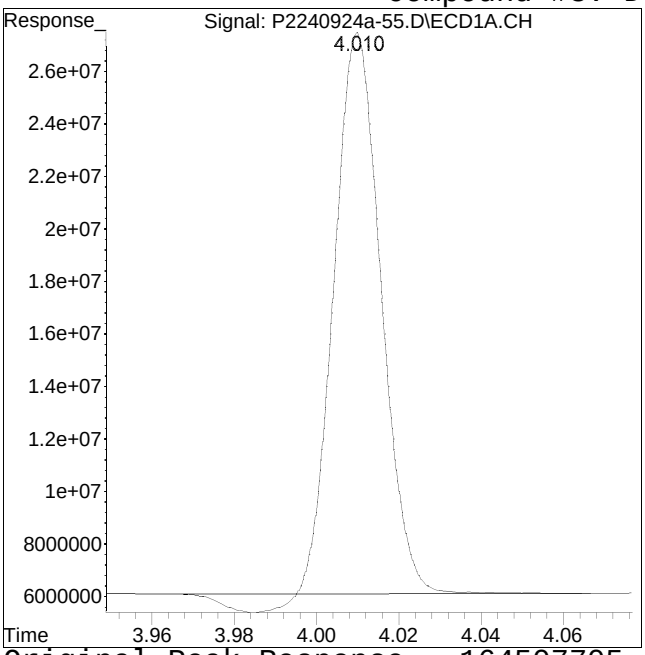
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



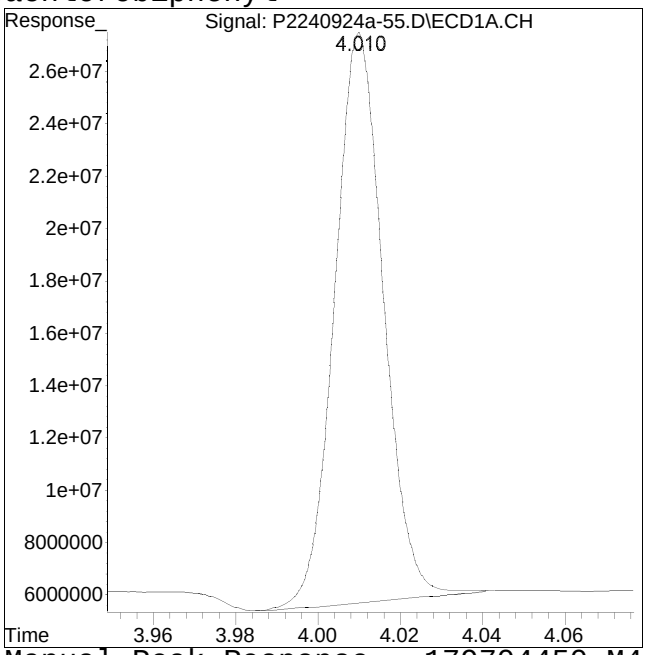
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-55.D Operator : pest2:meo
Date Inj'd : 9/24/2024 17:51 Instrument : Pest 2
Sample : L2453342-01,42,, Quant Date : 9/25/2024 9:11 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 164507705



Manual Peak Response = 179704450 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:00
Operator : pest2:meo
Sample : L2453342-02,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:27 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.250	259.9E6	319.7E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	126.32%	
	Standard Area 1 : #2 = 279636966				Recovery =	114.32%	
14) i	2154_1br2nb	1.183	1.250	259.9E6	319.7E6	25.000	25.000
23) i	4268_1br2nb	1.183	1.250	259.9E6	319.7E6	25.000	25.000
34) i	1248_1br2nb	1.183	1.250	259.9E6	319.7E6	25.000	25.000
40) i	3262_1br2nb	1.183	1.250	259.9E6	319.7E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	210.5E6	254.2E6	13.954	12.136
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.77%	60.68%
3) s	Decachlorobi	4.008	4.514f	172.6E6	192.4E6	14.390M4	13.662
	Spiked Amount 20.000	Range 30 - 150			Recovery =	71.95%	68.31%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:00
Operator : pest2:meo
Sample : L2453342-02,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:27 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:00
Operator : pest2:meo
Sample : L2453342-02,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:27 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

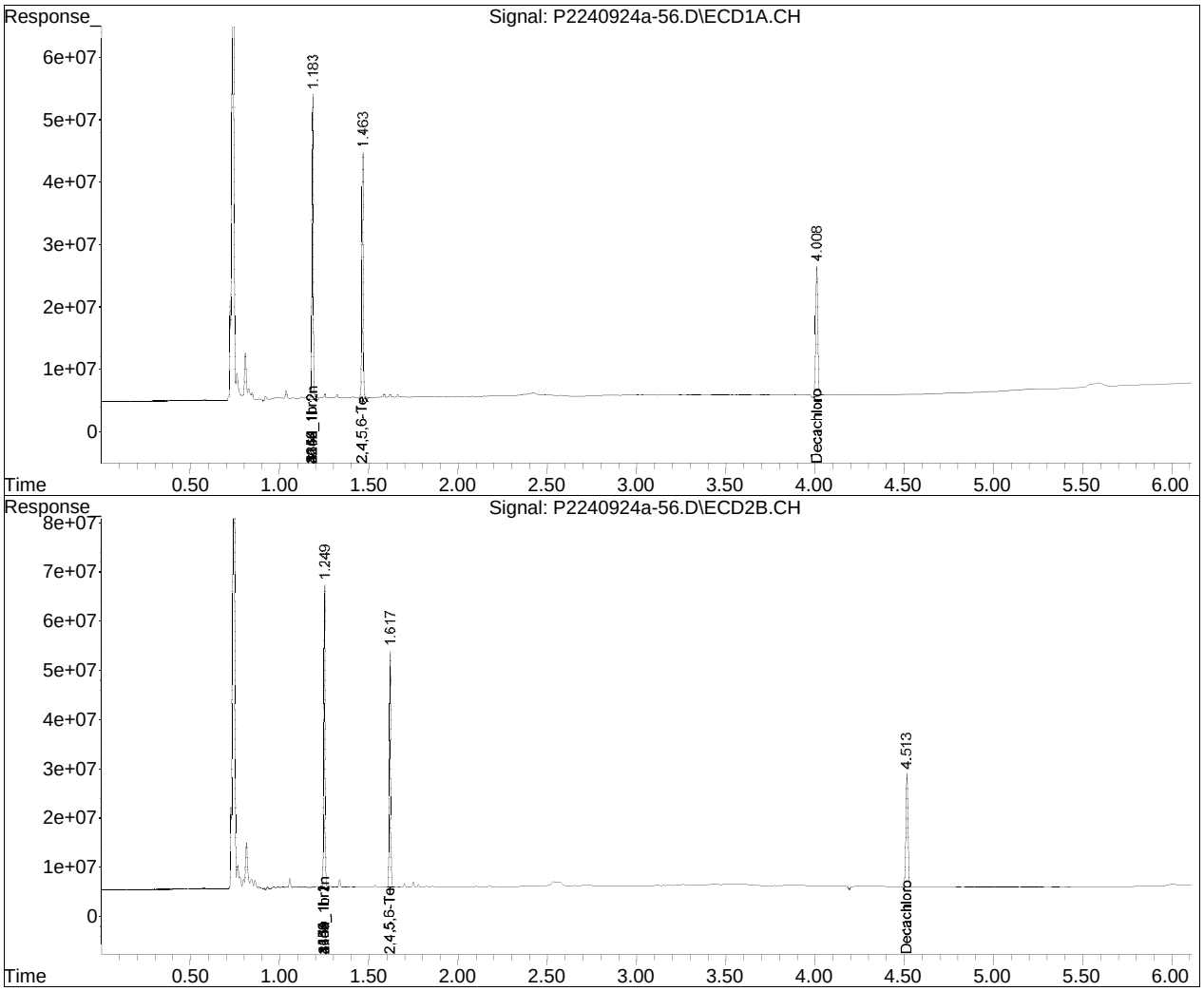
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:00
Operator : pest2:meo
Sample : L2453342-02,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:27 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

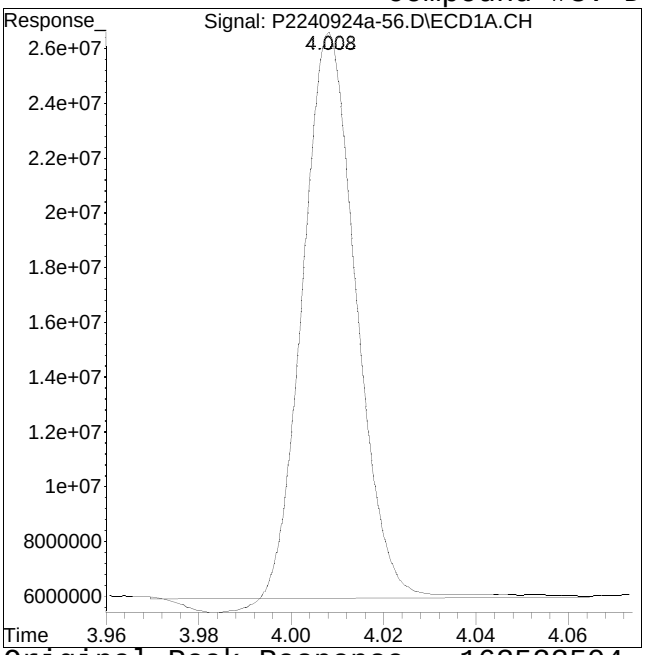
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

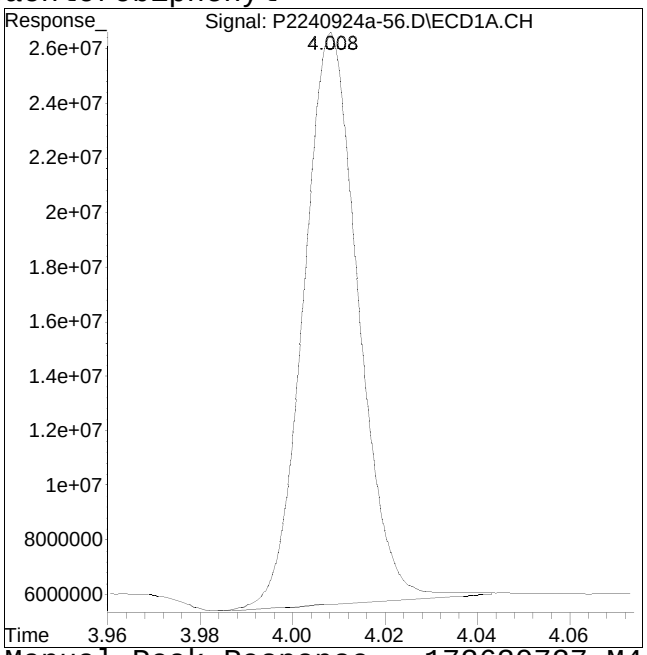


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-56.D Operator : pest2:meo
Date Inj'd : 9/24/2024 18:00 Instrument : Pest 2
Sample : L2453342-02,42,, Quant Date : 9/25/2024 9:11 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 163523504 Manual Peak Response = 172630727 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-57.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:09
Operator : pest2:meo
Sample : L2453342-03,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 57 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:29 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.250	248.0E6	309.5E6	25.000	25.000
Standard Area 1 : #1 = 205756949				Recovery =	120.55%	
Standard Area 1 : #2 = 279636966				Recovery =	110.68%	
14) i 2154_1br2nb	1.184	1.250	248.0E6	309.5E6	25.000	25.000
23) i 4268_1br2nb	1.184	1.250	248.0E6	309.5E6	25.000	25.000
34) i 1248_1br2nb	1.184	1.250	248.0E6	309.5E6	25.000	25.000
40) i 3262_1br2nb	1.184	1.250	248.0E6	309.5E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.618	224.7E6	274.9E6	15.613	13.554
Spiked Amount 20.000	Range 30 - 150		Recovery =	78.06%	67.77%	
3) s Decachlorobi	4.010	4.515f	202.3E6	217.5E6	17.675	15.953
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.38%	79.77%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-57.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:09
Operator : pest2:meo
Sample : L2453342-03,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 57 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:29 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-57.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:09
Operator : pest2:meo
Sample : L2453342-03,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 57 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:29 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

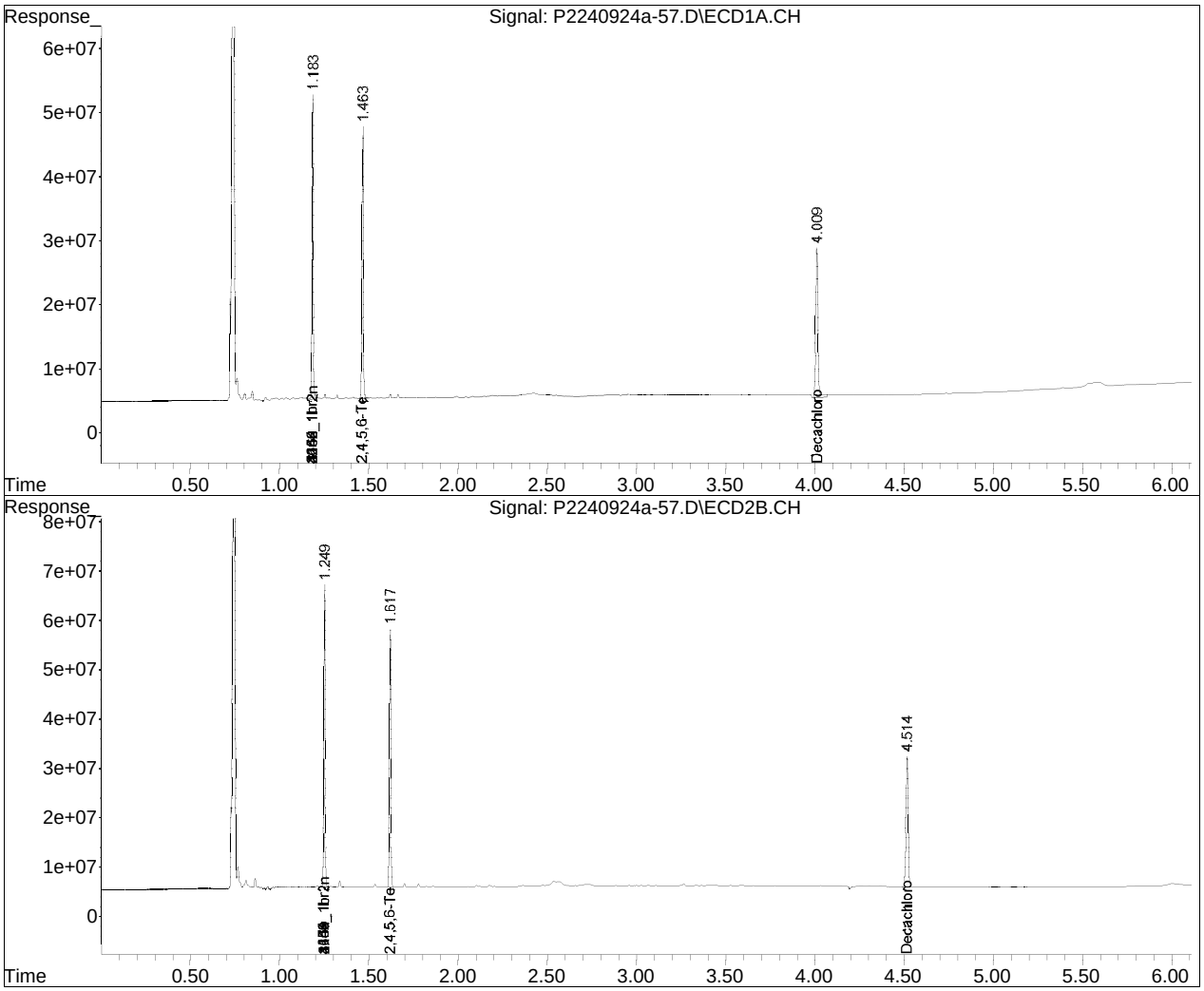
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-57.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:09
Operator : pest2:meo
Sample : L2453342-03,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 57 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:29 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240924a\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240924a-57.D	Operator	: pest2:meo
Date Inj'd	: 9/24/2024 18:09	Instrument	: Pest 2
Sample	: L2453342-03,42,,	Quant Date	: 9/25/2024 9:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-58.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:17
Operator : pest2:meo
Sample : L2453342-04,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 58 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:32 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	244.2E6	307.4E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	118.66%	
	Standard Area 1 : #2 = 279636966				Recovery =	109.92%	
14) i	2154_1br2nb	1.184	1.250	244.2E6	307.4E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.250	244.2E6	307.4E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.250	244.2E6	307.4E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.250	244.2E6	307.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	211.7E6	259.3E6	14.939	12.873
	Spiked Amount 20.000	Range 30 - 150			Recovery =	74.69%	64.36%
3) s	Decachlorobi	4.009	4.515f	202.0E6	212.8E6	17.924	15.722
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.62%	78.61%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-58.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:17
Operator : pest2:meo
Sample : L2453342-04,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 58 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:32 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-58.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:17
Operator : pest2:meo
Sample : L2453342-04,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 58 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:32 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

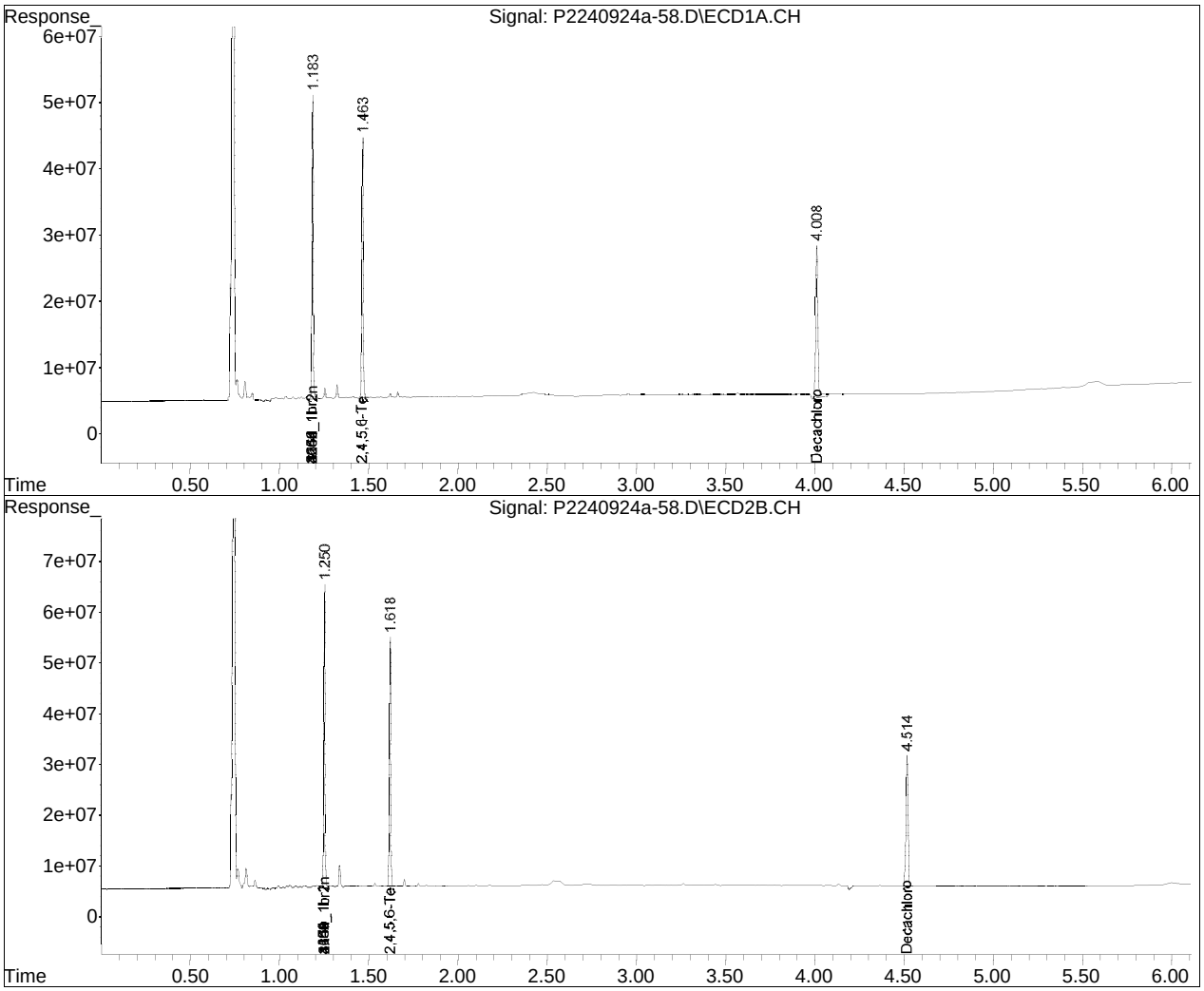
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-58.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:17
Operator : pest2:meo
Sample : L2453342-04,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 58 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:32 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240924a\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240924a-58.D	Operator	: pest2:meo
Date Inj'd	: 9/24/2024 18:17	Instrument	: Pest 2
Sample	: L2453342-04,42,,	Quant Date	: 9/25/2024 9:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-59.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:26
Operator : pest2:meo
Sample : L2453342-05,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 59 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:35 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	222.7E6	270.5E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	108.24%	
	Standard Area 1 : #2 = 279636966				Recovery =	96.73%	
14) i	2154_1br2nb	1.184	1.250	222.7E6	270.5E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.250	222.7E6	270.5E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.250	222.7E6	270.5E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.250	222.7E6	270.5E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	203.8E6	242.9E6	15.767	13.703
	Spiked Amount 20.000	Range 30 - 150			Recovery =	78.83%	68.51%
3) s	Decachlorobi	4.009	4.514f	171.0E6	174.0E6	16.639	14.608
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.19%	73.04%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-59.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:26
Operator : pest2:meo
Sample : L2453342-05,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 59 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:35 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-59.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:26
Operator : pest2:meo
Sample : L2453342-05,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 59 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:35 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

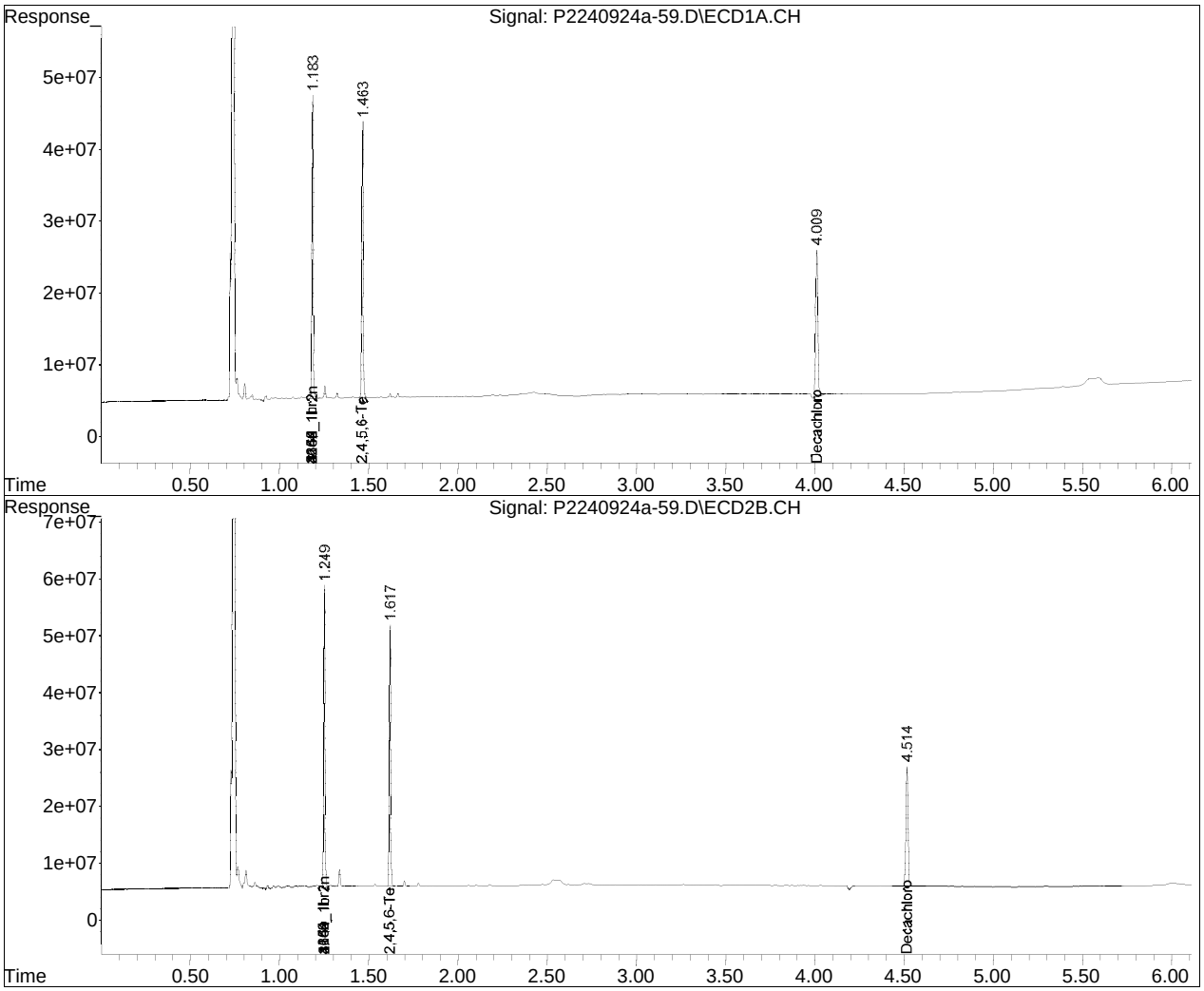
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-59.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:26
Operator : pest2:meo
Sample : L2453342-05,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 59 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:35 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240924a\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240924a-59.D	Operator	: pest2:meo
Date Inj'd	: 9/24/2024 18:26	Instrument	: Pest 2
Sample	: L2453342-05,42,,	Quant Date	: 9/25/2024 9:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-60.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:35
Operator : pest2:meo
Sample : L2453342-06,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 60 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:38 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	247.2E6	313.2E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	120.14%	
	Standard Area 1 : #2 = 279636966				Recovery =	112.00%	
14) i	2154_1br2nb	1.184	1.250	247.2E6	313.2E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.250	247.2E6	313.2E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.250	247.2E6	313.2E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.250	247.2E6	313.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	206.6E6	254.4E6	14.403	12.395
	Spiked Amount 20.000	Range 30 - 150			Recovery =	72.02%	61.98%
3) s	Decachlorobi	4.009	4.515f	174.5E6	199.8E6	15.293M4	14.485M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	76.46%	72.42%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-60.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:35
Operator : pest2:meo
Sample : L2453342-06,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 60 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:38 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-60.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:35
Operator : pest2:meo
Sample : L2453342-06,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 60 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:38 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

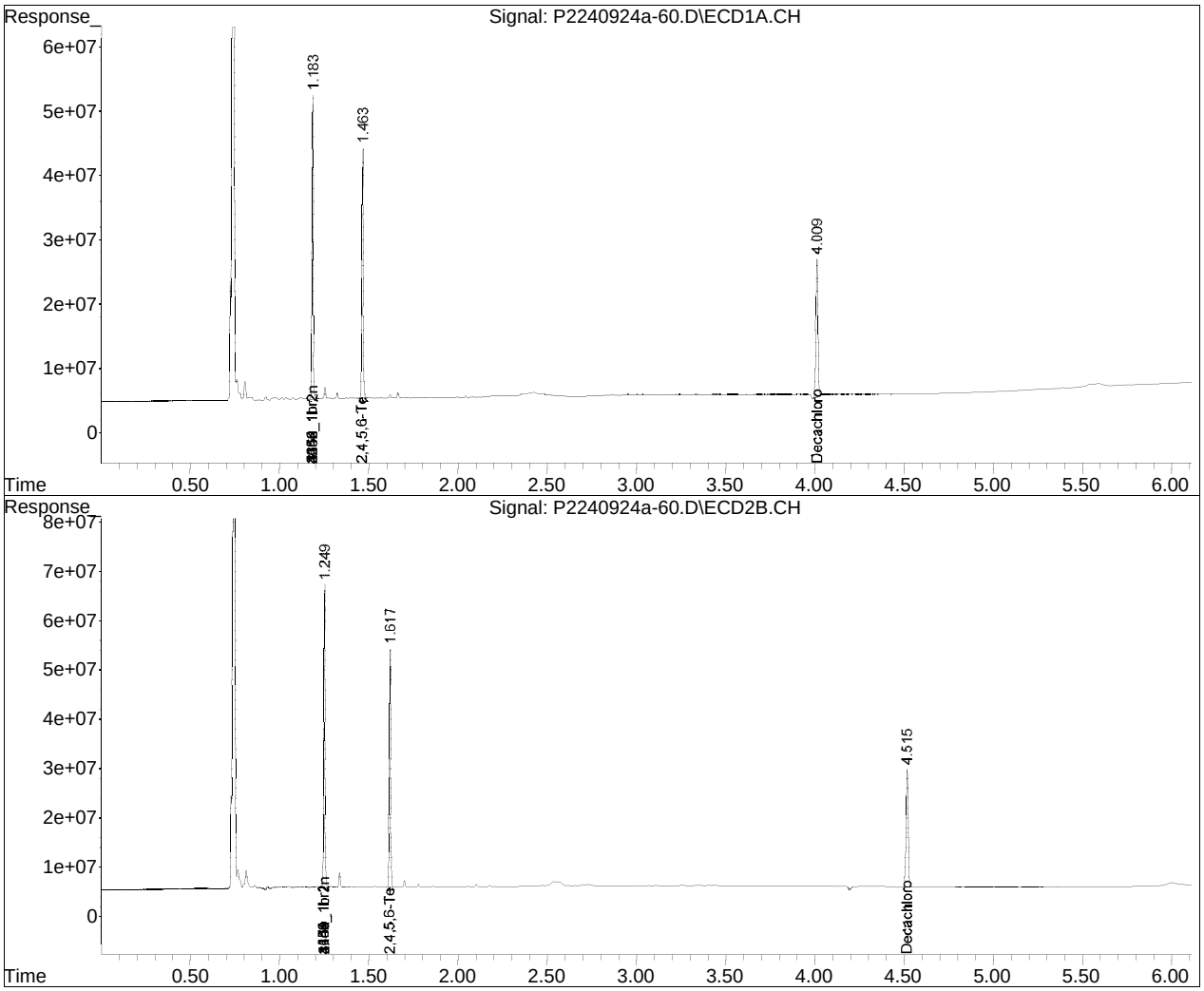
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-60.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:35
Operator : pest2:meo
Sample : L2453342-06,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 60 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:38 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

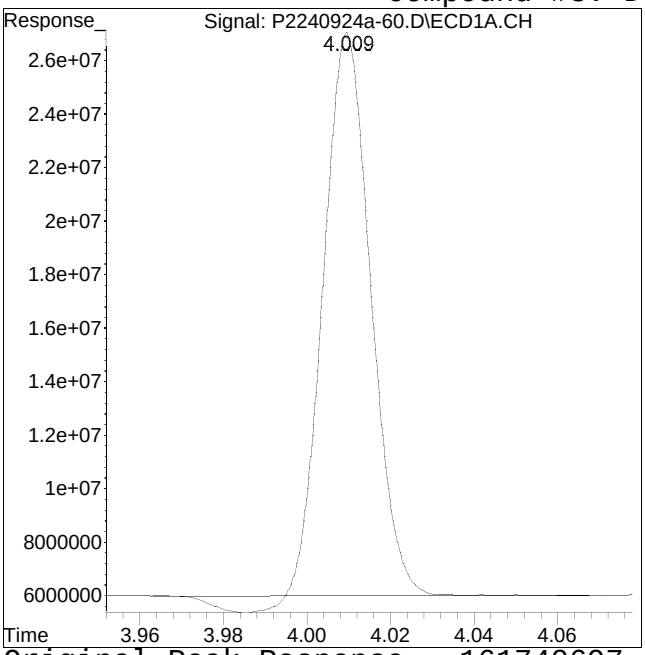
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



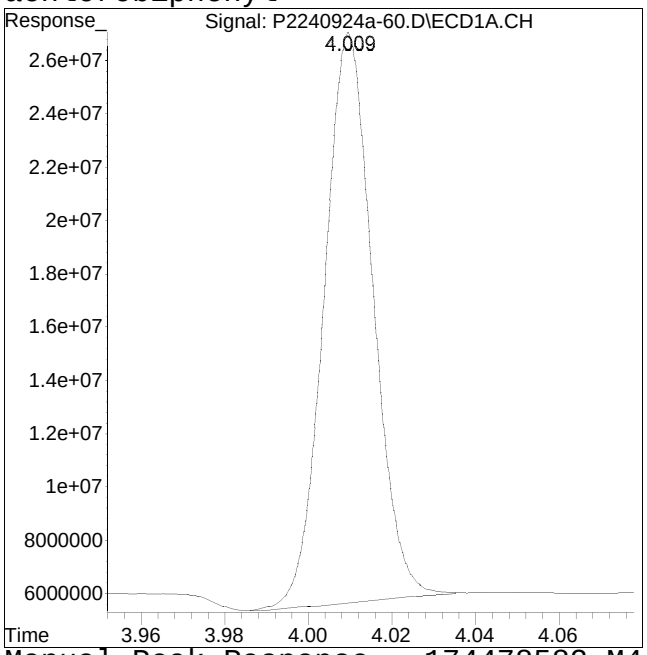
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-60.D Operator : pest2:meo
Date Inj'd : 9/24/2024 18:35 Instrument : Pest 2
Sample : L2453342-06,42,, Quant Date : 9/25/2024 9:11 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 161740697



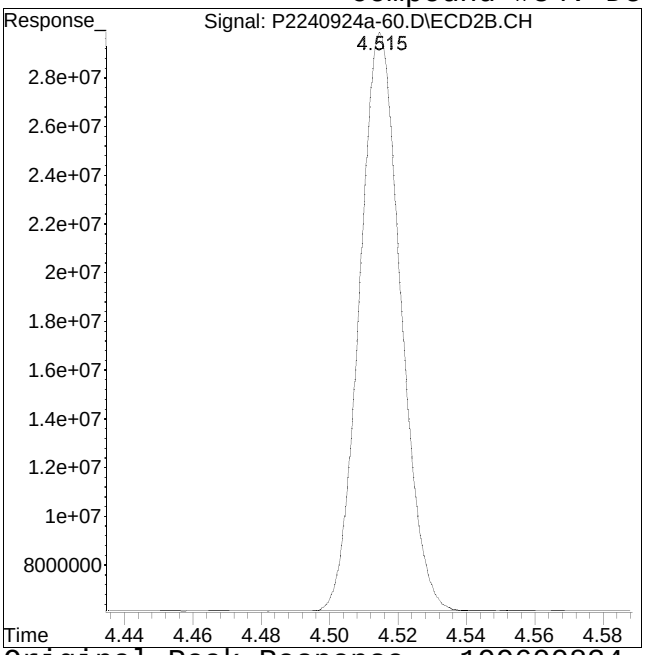
Manual Peak Response = 174478582 M4

M4 = Poor automated baseline construction.

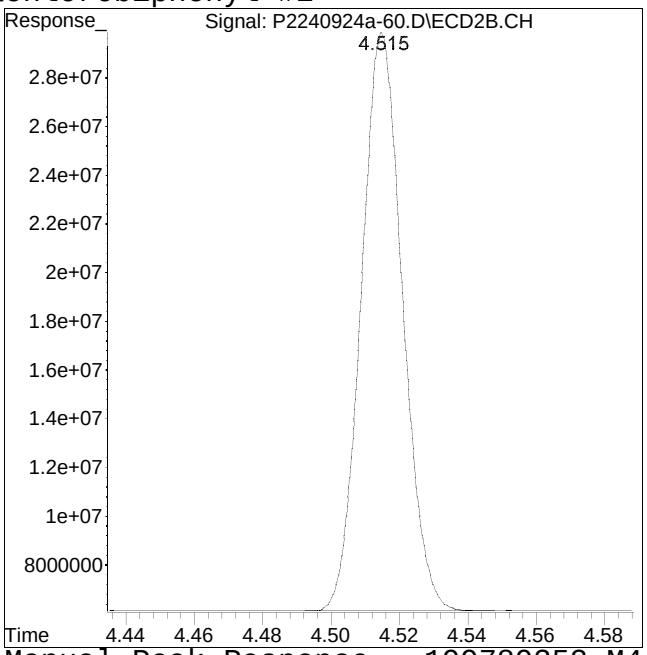
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-60.D Operator : pest2:meo
Date Inj'd : 9/24/2024 18:35 Instrument : Pest 2
Sample : L2453342-06,42,, Quant Date : 9/25/2024 9:11 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 199600834



Manual Peak Response = 199789352 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-61.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:43
Operator : pest2:meo
Sample : L2453342-07,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 61 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:41 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.250	262.8E6	316.4E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	127.73%	
	Standard Area 1 : #2 = 279636966				Recovery =	113.15%	
14) i	2154_1br2nb	1.183	1.250	262.8E6	316.4E6	25.000	25.000
23) i	4268_1br2nb	1.183	1.250	262.8E6	316.4E6	25.000	25.000
34) i	1248_1br2nb	1.183	1.250	262.8E6	316.4E6	25.000	25.000
40) i	3262_1br2nb	1.183	1.250	262.8E6	316.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.463	1.618	230.7E6	275.6E6	15.125	13.290
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.63%	66.45%
3) s	Decachlorobi	4.009	4.514f	204.1E6	200.0E6	16.829	14.354
	Spiked Amount 20.000	Range 30 - 150			Recovery =	84.15%	71.77%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-61.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:43
Operator : pest2:meo
Sample : L2453342-07,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 61 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:41 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-61.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:43
Operator : pest2:meo
Sample : L2453342-07,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 61 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:41 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

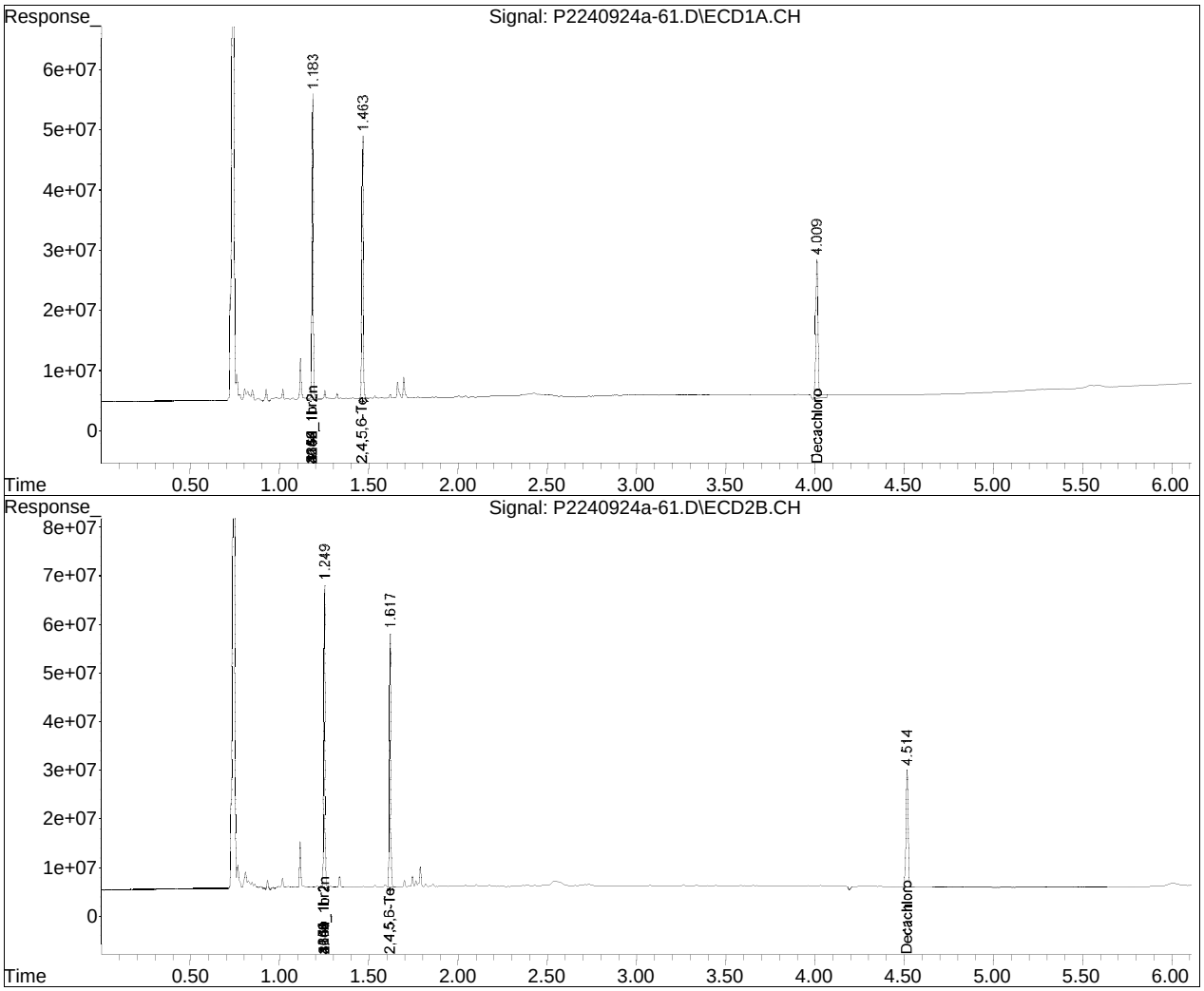
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-61.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:43
Operator : pest2:meo
Sample : L2453342-07,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 61 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:41 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240924a\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240924a-61.D	Operator	: pest2:meo
Date Inj'd	: 9/24/2024 18:43	Instrument	: Pest 2
Sample	: L2453342-07,42,,	Quant Date	: 9/25/2024 9:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-62.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:52
Operator : pest2:meo
Sample : L2453342-08,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 62 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:44 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.250	236.2E6	298.7E6	25.000	25.000
Standard Area 1 : #1 = 205756949				Recovery =	114.79%	
Standard Area 1 : #2 = 279636966				Recovery =	106.82%	
14) i 2154_1br2nb	1.184	1.250	236.2E6	298.7E6	25.000	25.000
23) i 4268_1br2nb	1.184	1.250	236.2E6	298.7E6	25.000	25.000
34) i 1248_1br2nb	1.184	1.250	236.2E6	298.7E6	25.000	25.000
40) i 3262_1br2nb	1.184	1.250	236.2E6	298.7E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.618	211.1E6	258.8E6	15.399	13.221
Spiked Amount 20.000	Range 30 - 150		Recovery =		76.99%	66.11%
3) s Decachlorobi	4.009	4.514f	180.9E6	204.8E6	16.598M4	15.569
Spiked Amount 20.000	Range 30 - 150		Recovery =		82.99%	77.85%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-62.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:52
Operator : pest2:meo
Sample : L2453342-08,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 62 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:44 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-62.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:52
Operator : pest2:meo
Sample : L2453342-08,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 62 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:44 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

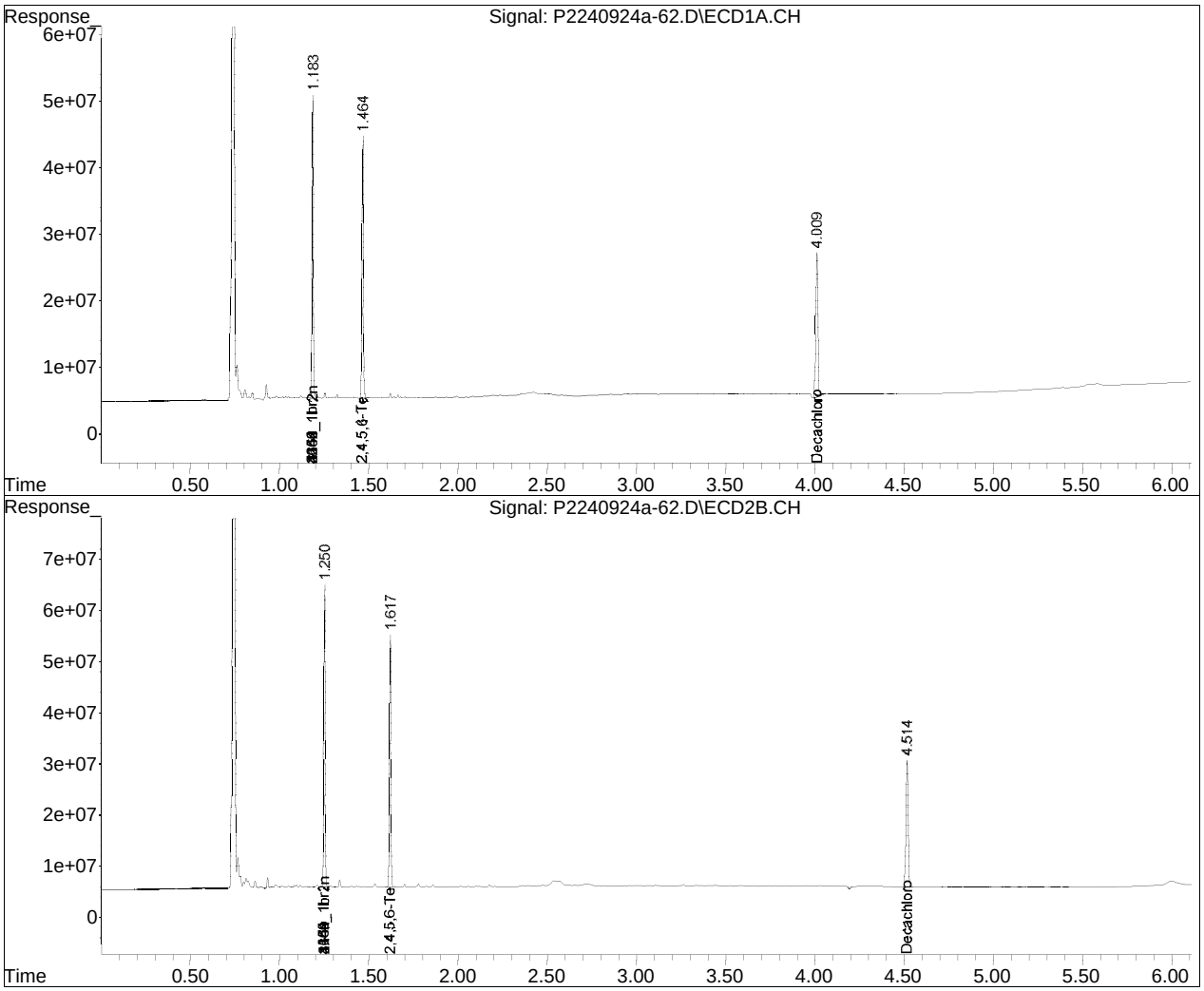
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-62.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 18:52
Operator : pest2:meo
Sample : L2453342-08,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 62 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:44 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

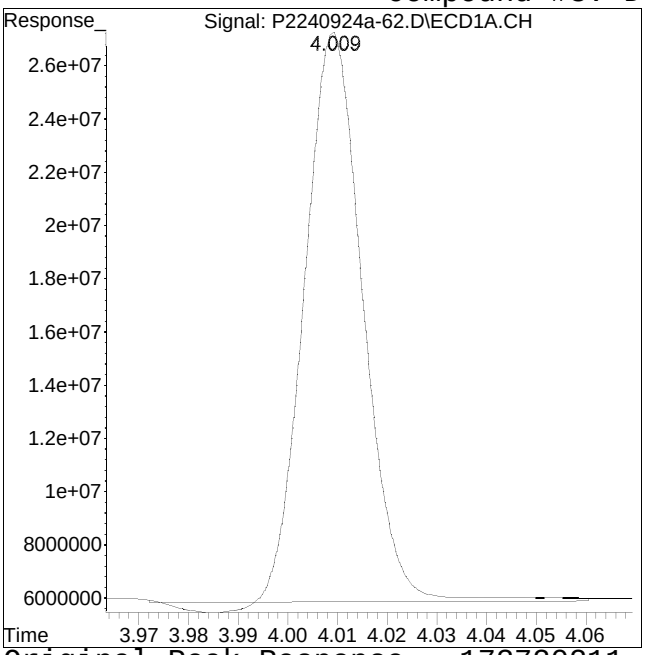
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



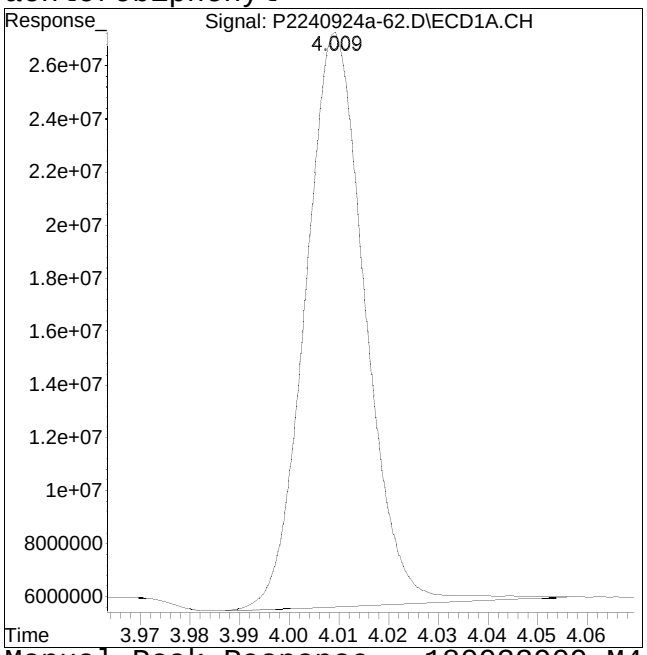
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-62.D Operator : pest2:meo
Date Inj'd : 9/24/2024 18:52 Instrument : Pest 2
Sample : L2453342-08,42,, Quant Date : 9/25/2024 9:11 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 173720211



Manual Peak Response = 180933909 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-63.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 19:01
Operator : pest2:meo
Sample : L2453342-10,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 63 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:46 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	227.8E6	292.7E6	25.000	25.000
	Standard Area 1 : #1 = 205756949				Recovery =	110.69%	
	Standard Area 1 : #2 = 279636966				Recovery =	104.67%	
14) i	2154_1br2nb	1.184	1.250	227.8E6	292.7E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.250	227.8E6	292.7E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.250	227.8E6	292.7E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.250	227.8E6	292.7E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	202.9E6	247.0E6	15.350	12.876
	Spiked Amount 20.000	Range 30 - 150			Recovery =	76.75%	64.38%
3) s	Decachlorobi	4.009	4.514f	165.9E6	178.4E6	15.777M4	13.842
	Spiked Amount 20.000	Range 30 - 150			Recovery =	78.88%	69.21%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-63.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 19:01
Operator : pest2:meo
Sample : L2453342-10,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 63 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:46 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-63.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 19:01
Operator : pest2:meo
Sample : L2453342-10,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 63 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:46 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240924a\P2240924a-41.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

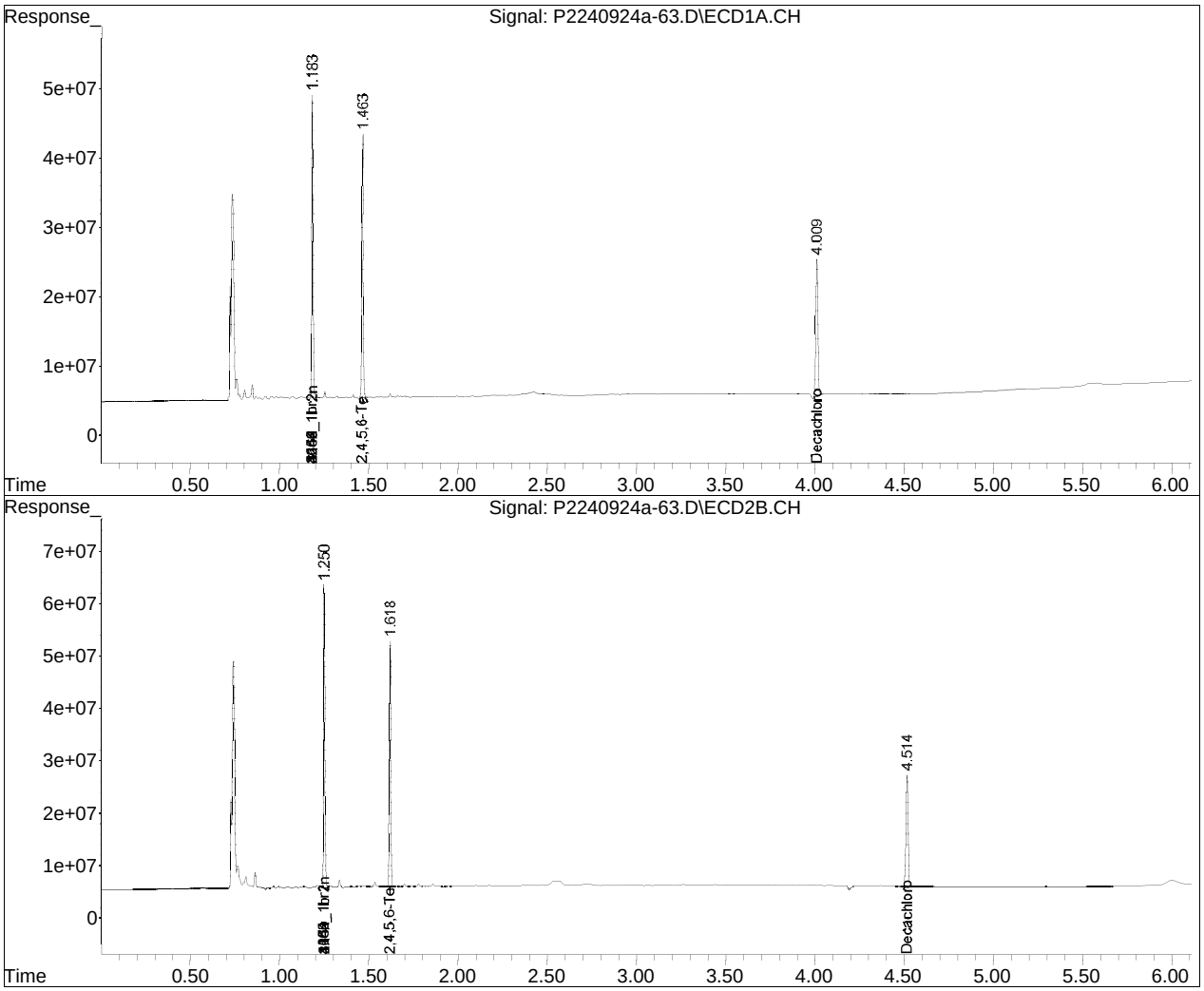
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240924a-41.D•

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-63.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 19:01
Operator : pest2:meo
Sample : L2453342-10,42,,
Misc : wg1975391,WG1974859,ICAL21500
ALS Vial : 63 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 09:11:46 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

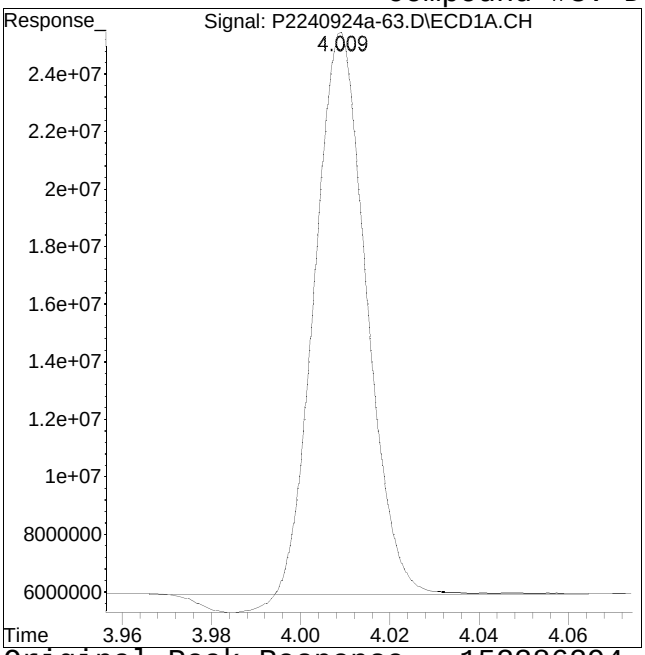
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

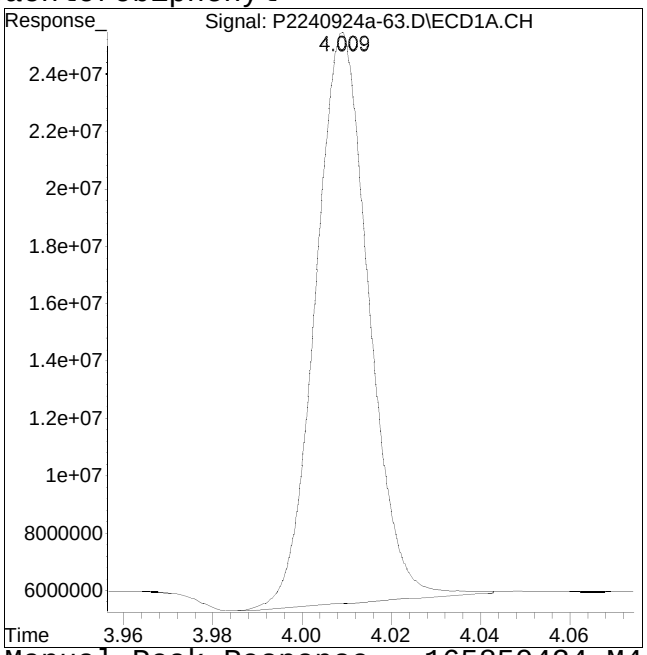


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-63.D Operator : pest2:meo
Date Inj'd : 9/24/2024 19:01 Instrument : Pest 2
Sample : L2453342-10,42,, Quant Date : 9/25/2024 9:11 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 152386294 Manual Peak Response = 165850424 M4
M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7 1248-3								0.070			0.070	0.00
38) l7 1248-4								0.060			0.060	0.00
39) l7 1248-5								0.056			0.056	0.00
40) i 3262_1br2nb	----------ISTD----------											
41) l5 1232-1								0.029			0.029	0.00
42) l5 1232-2								0.027			0.027	0.00
43) l5 1232-3								0.055			0.055	0.00
44) l5 1232-4								0.023			0.023	0.00
45) l5 1232-5								0.017			0.017	0.00
46) l8 1262-1								0.083			0.083	0.00
47) l8 1262-2								0.105			0.105	0.00
48) l8 1262-3								0.091			0.091	0.00
49) l8 1262-4								0.185			0.185	0.00
50) l8 1262-5								0.059			0.059	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3)	s	Decachlorobip	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4)	l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5)	l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6)	l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7)	l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8)	l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9)	l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10)	l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11)	l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12)	l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.053			0.053	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.067			0.067	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.030			0.030	0.00
42) l5	1232-2								0.031			0.031	0.00
43) l5	1232-3								0.060			0.060	0.00
44) l5	1232-4								0.024			0.024	0.00
45) l5	1232-5								0.018			0.018	0.00
46) l8	1262-1								0.073			0.073	0.00
47) l8	1262-2								0.101			0.101	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.174			0.174	0.00
50) l8	1262-5								0.062			0.062	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip...	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00
37)	l7	1248-3								0.070			0.070	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.056			0.056	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.029			0.029	0.00
42)	l5	1232-2								0.027			0.027	0.00
43)	l5	1232-3								0.055			0.055	0.00
44)	l5	1232-4								0.023			0.023	0.00
45)	l5	1232-5								0.017			0.017	0.00
46)	l8	1262-1								0.083			0.083	0.00
47)	l8	1262-2								0.105			0.105	0.00
48)	l8	1262-3								0.091			0.091	0.00
49)	l8	1262-4								0.185			0.185	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
50) l8	1262-5								0.059			0.059	0.00

Signal #2 Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------											
2) s	2,4,5,6-Tetra...	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3) s	Decachlorobip...	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4) l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5) l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6) l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7) l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8) l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9) l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10) l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11) l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12) l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00
37)	l7	1248-3								0.053			0.053	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.067			0.067	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.030			0.030	0.00
42)	l5	1232-2								0.031			0.031	0.00
43)	l5	1232-3								0.060			0.060	0.00
44)	l5	1232-4								0.024			0.024	0.00
45)	l5	1232-5								0.018			0.018	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
46)	l8 1262-1								0.073			0.073	0.00
47)	l8 1262-2								0.101			0.101	0.00
48)	l8 1262-3								0.091			0.091	0.00
49)	l8 1262-4								0.174			0.174	0.00
50)	l8 1262-5								0.062			0.062	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.252	223.1E6	252.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.623	3404182	4646960	0.265M4	0.269
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.05%#	0.05%#
3) s	Decachlorobi	4.024	4.542	6221294	7133944	0.584M4	0.584
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.12%#	0.12%#
	Target Compounds						
4) l1	1016-1	1.601	1.822	1029923	1469461	3.981M2	4.440
5) l1	1016-2	1.741	1.992	2300019	2790342	4.056M4	3.950M4
6) l1	1016-3	1.928	2.193	4483244	6158924	4.263	4.314M1
7) l1	1016-4	1.984	2.253	1839001	2560108	4.022	4.457
8) l1	1016-5	2.152	2.463	2234094	1986914	4.476M4	4.427
Sum	1016-1			11886280	14965749	20.798	21.588
Average	1016-1					4.160	4.318
9) l2	1260-1	2.693	3.072	2975268	3811020	4.339M3	4.214
10) l2	1260-2	2.824	3.173	4378607	4567332	4.215M3	4.284
11) l2	1260-3	3.139	3.565	2430624	3790654	3.979M4	4.412

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.294	3.694	5691017	7034236	4.216M4	4.209
13) l2	1260-5	3.442	3.894	4203645	4879989	4.289M1	4.038M4
Sum	1260-1			19679161	24083232	NoCal	NoCal D
Average	1260-1					4.208	4.231
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

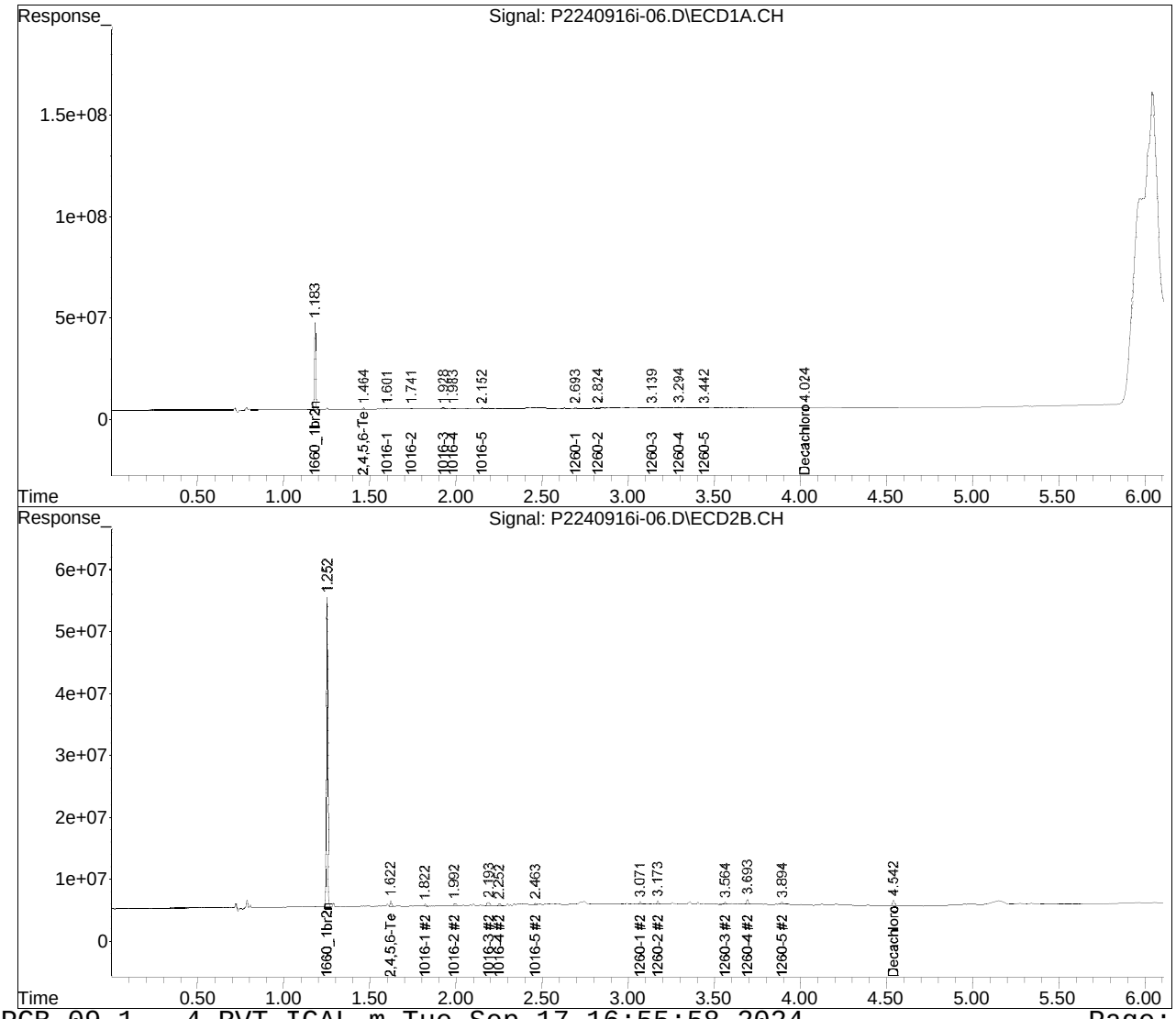
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

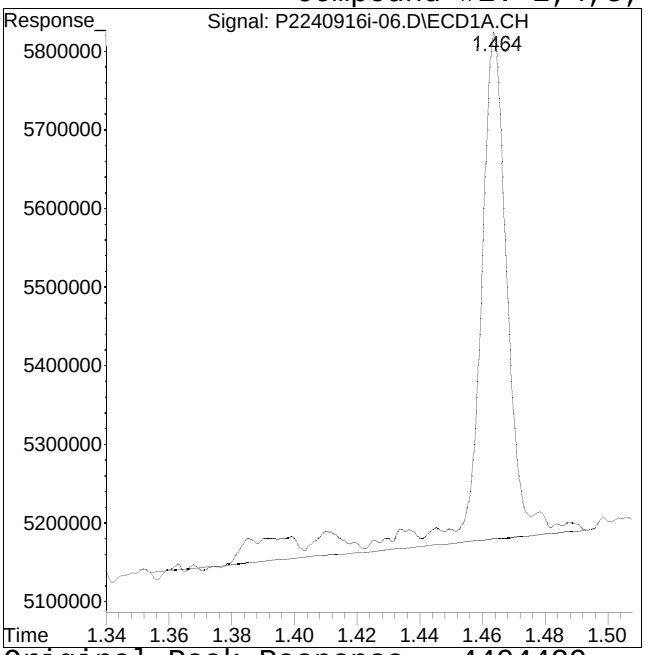
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



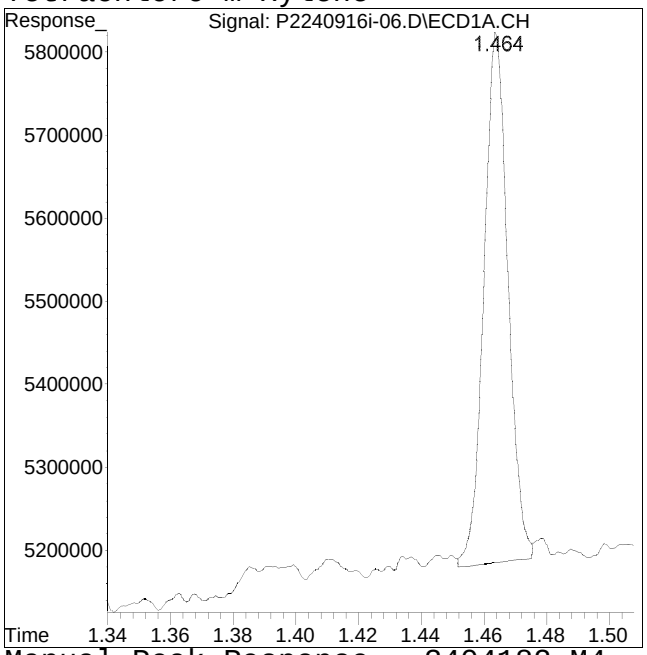
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 4404429



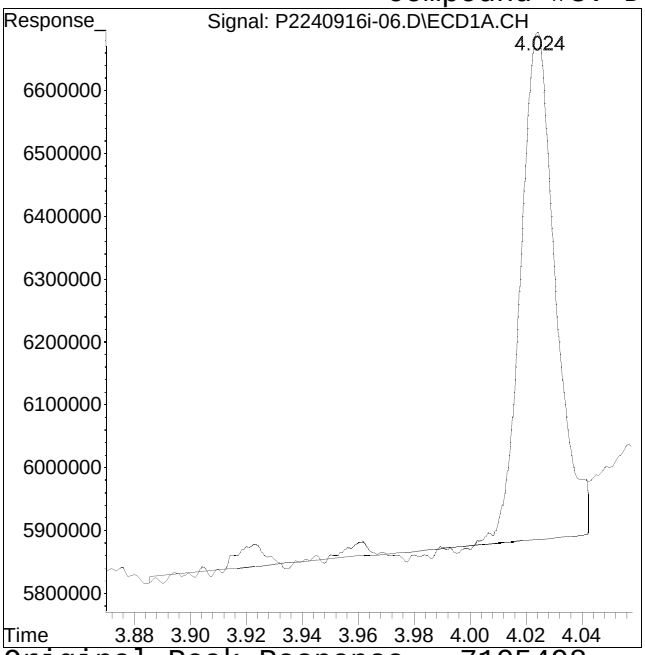
Manual Peak Response = 3404182 M4

M4 = Poor automated baseline construction.

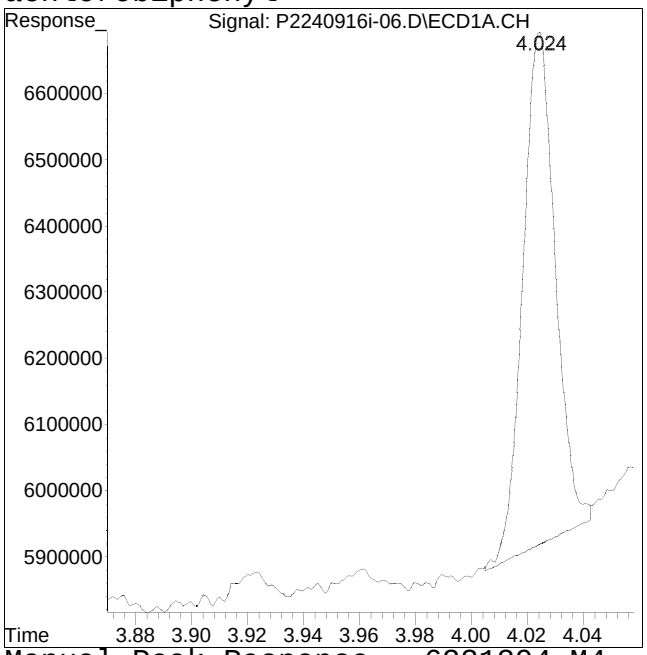
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 7105498



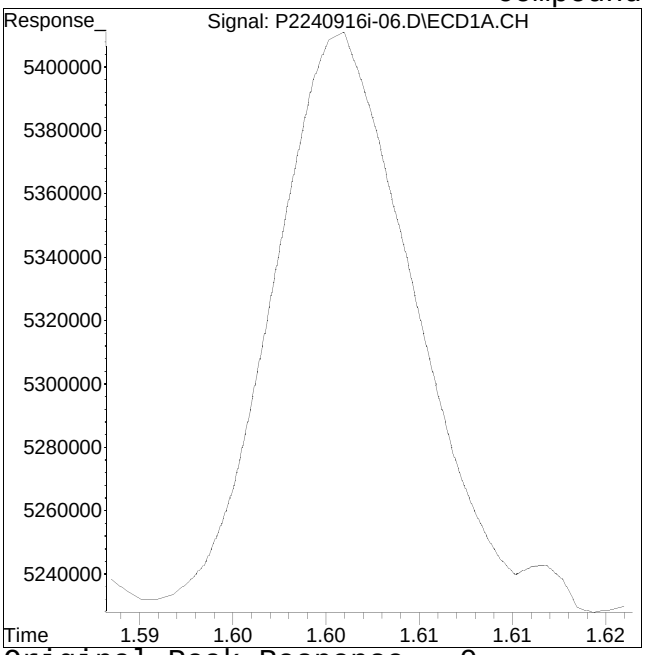
Manual Peak Response = 6221294 M4

M4 = Poor automated baseline construction.

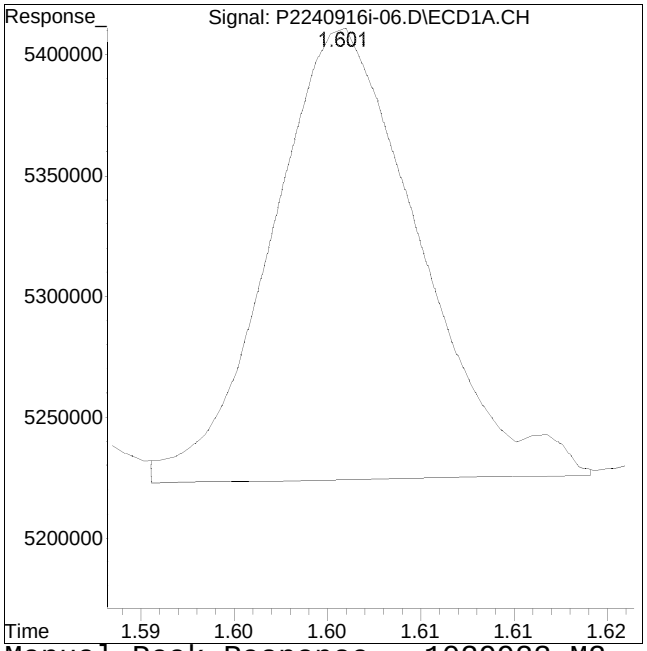
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #4: 1016-1



Original Peak Response = 0



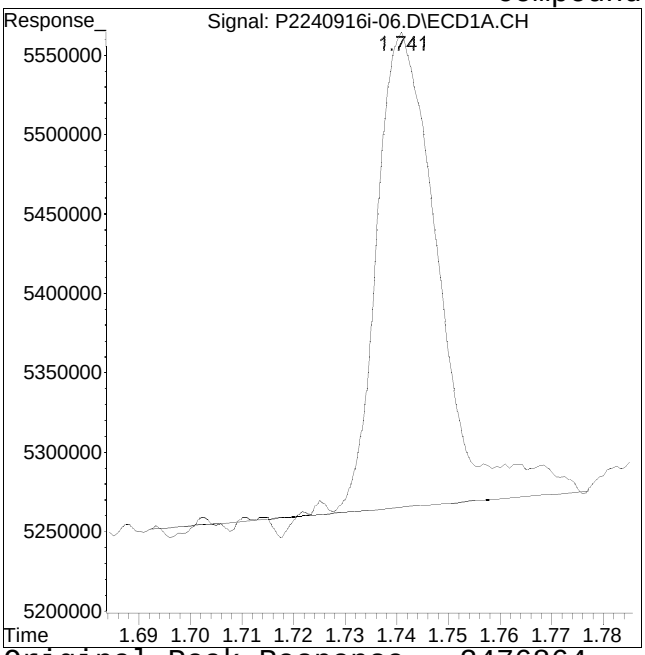
Manual Peak Response = 1029923 M2

M2 = Peak not found by automatic integration algorithm.

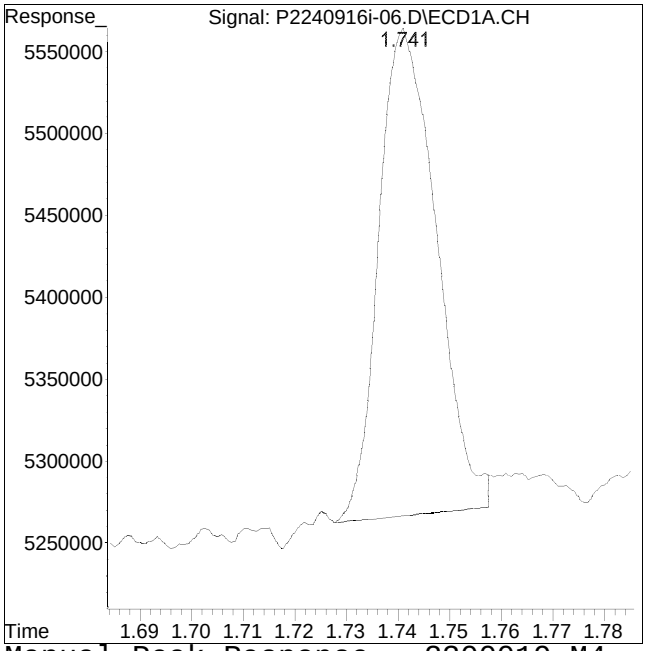
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #5: 1016-2



Original Peak Response = 2476864



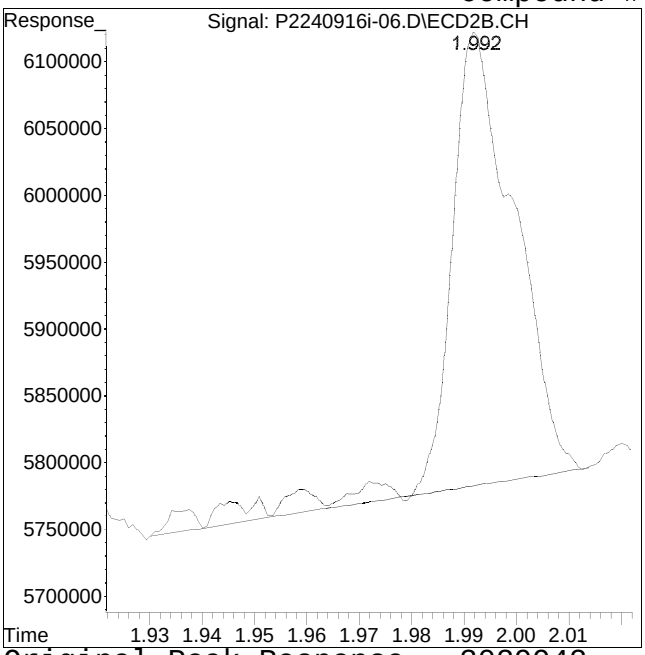
Manual Peak Response = 2300019 M4

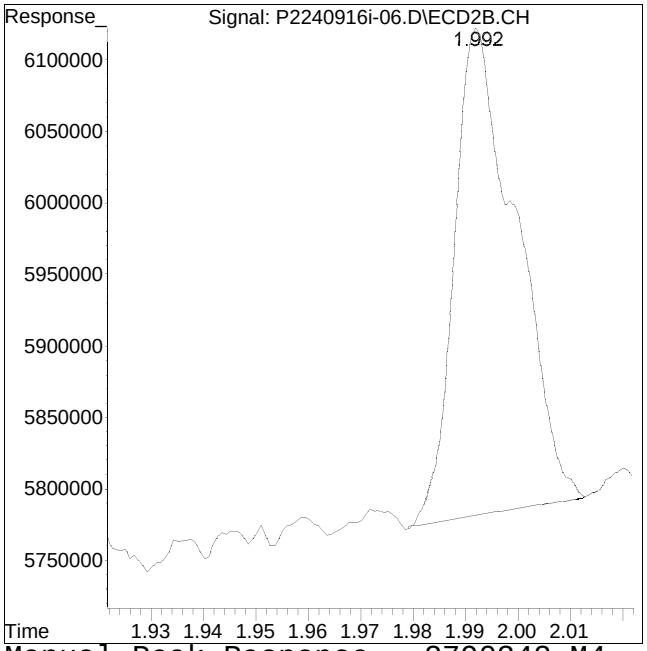
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #56: 1016-2 #2



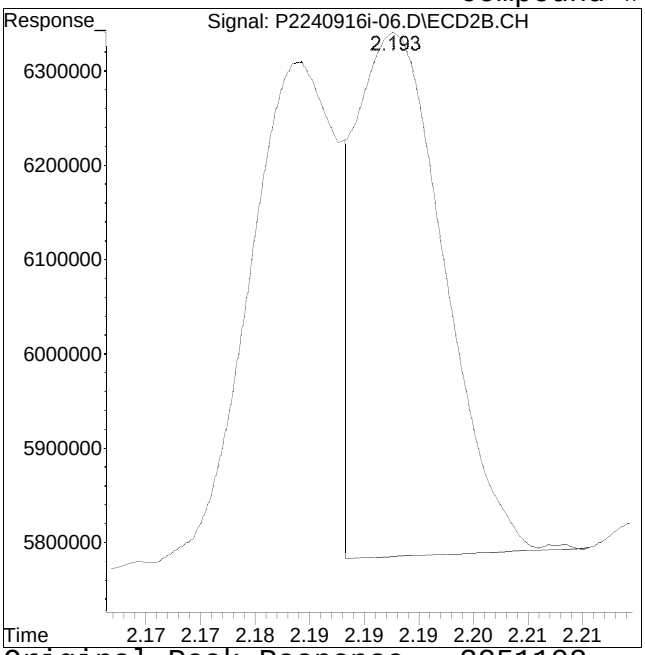


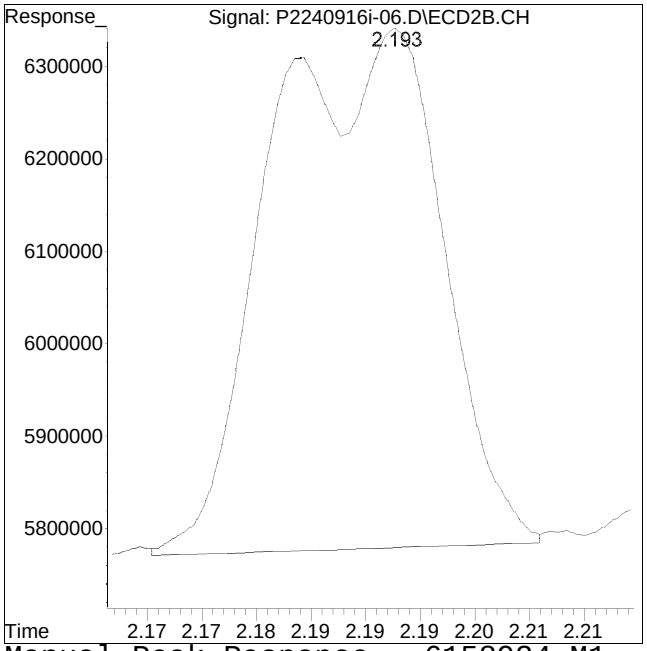
Original Peak Response = 3029942 Manual Peak Response = 2790342 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #57: 1016-3 #2



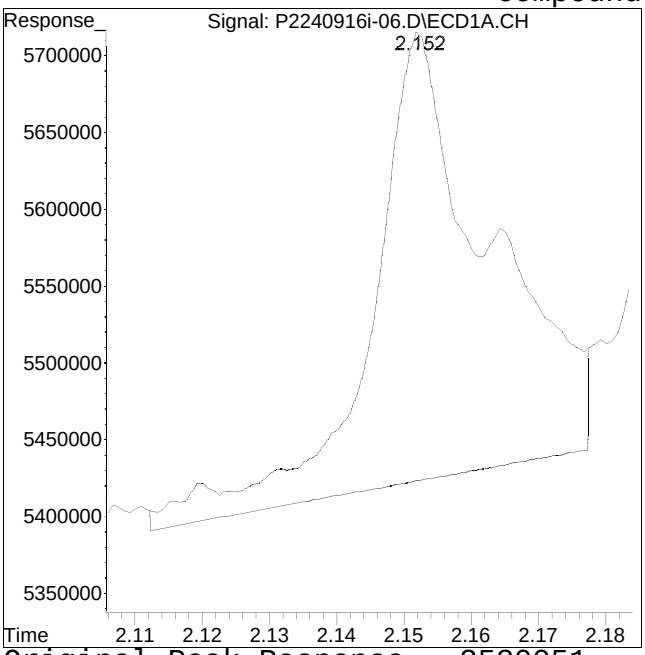


Original Peak Response = 3251102 Manual Peak Response = 6158924 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

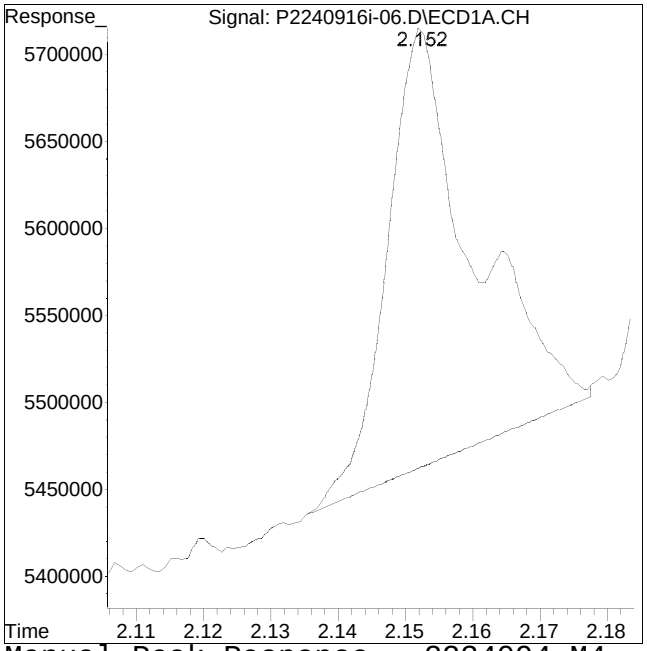
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #8: 1016-5



Original Peak Response = 3530051



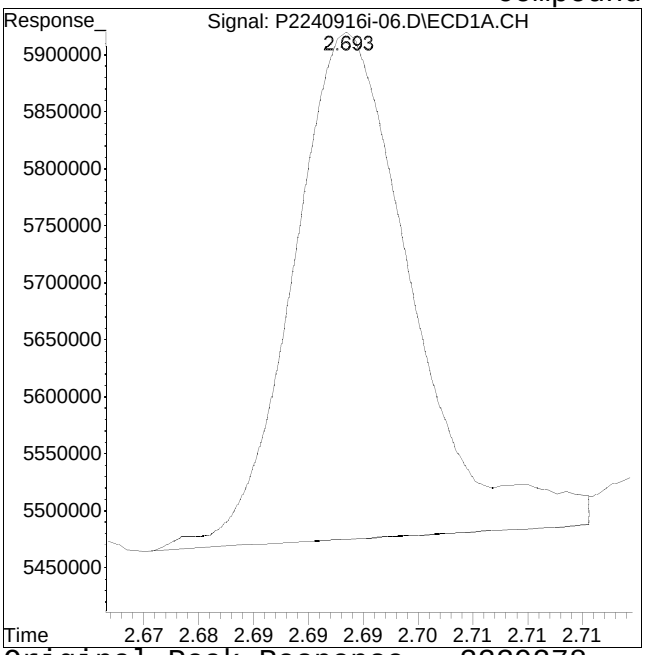
Manual Peak Response = 2234094 M4

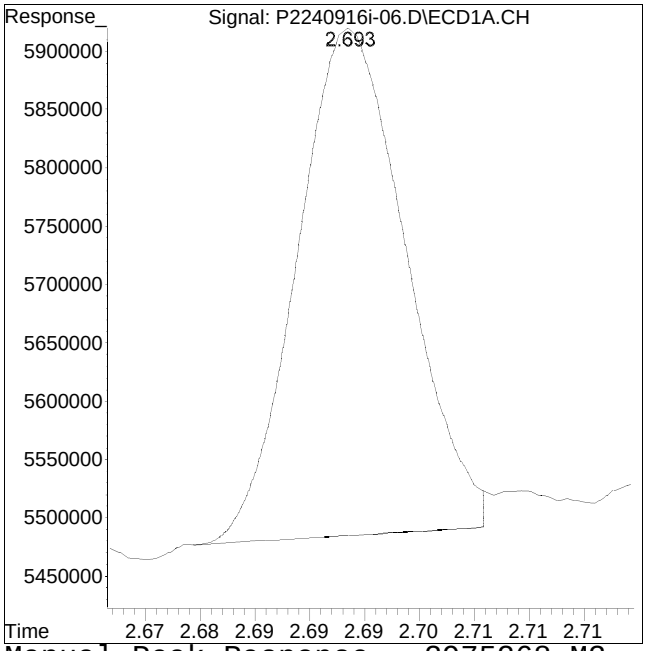
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #9: 1260-1



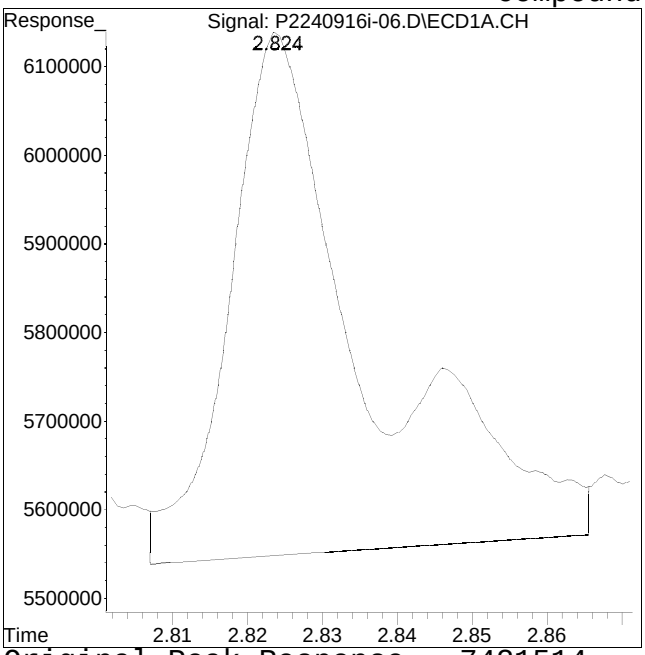


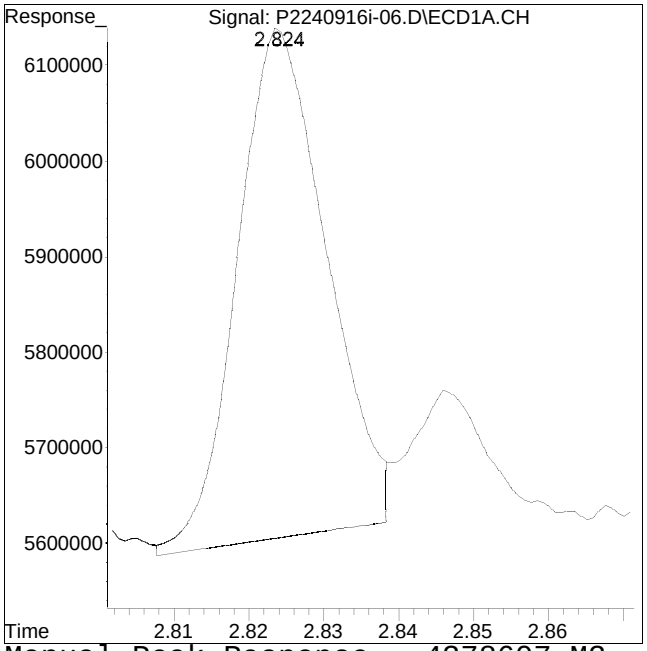
Original Peak Response = 3339278 Manual Peak Response = 2975268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #10: 1260-2



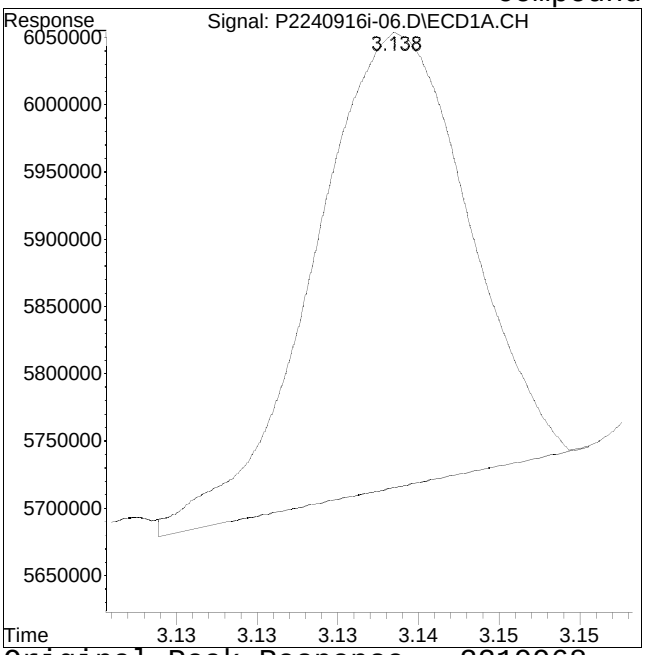


Original Peak Response = 7421514 Manual Peak Response = 4378607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

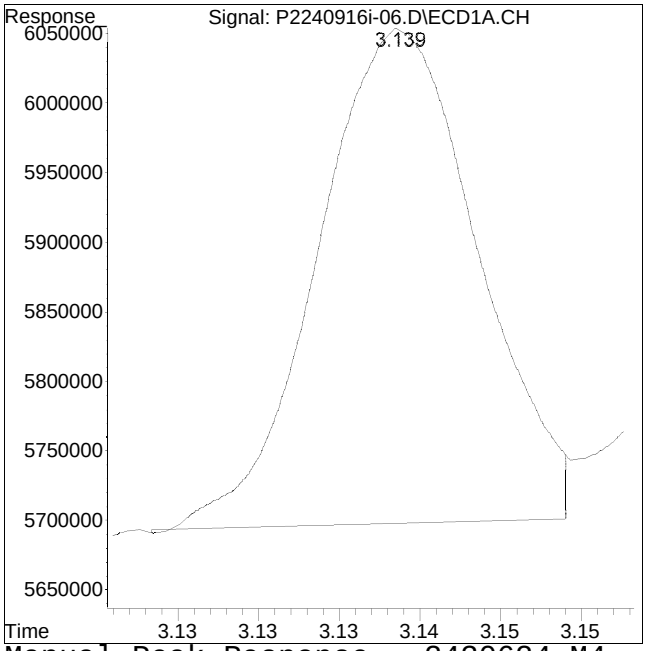
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #11: 1260-3



Original Peak Response = 2219968



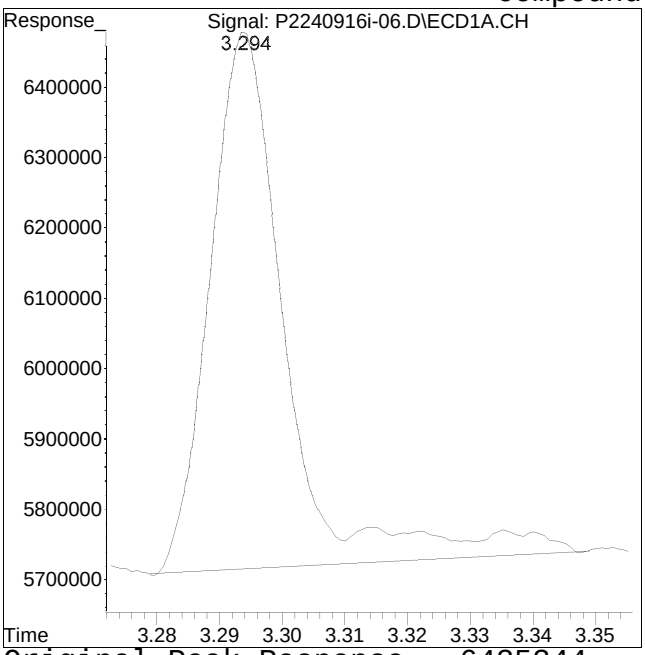
Manual Peak Response = 2430624 M4

M4 = Poor automated baseline construction.

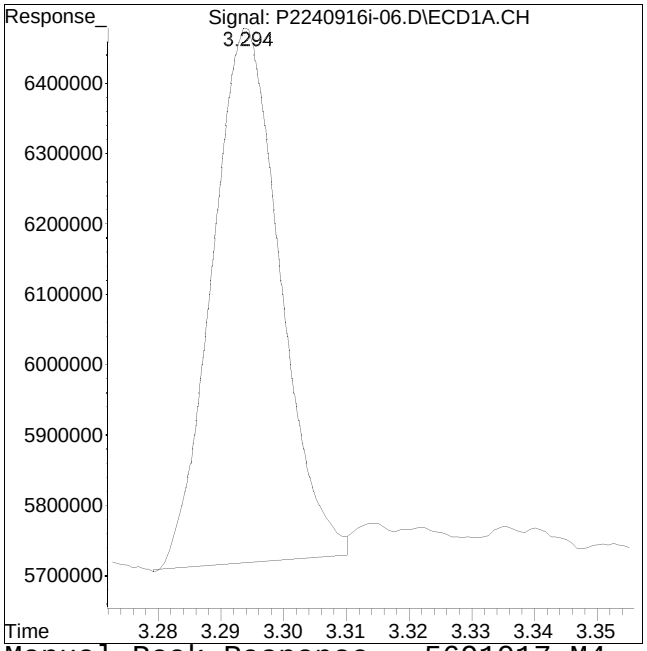
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #12: 1260-4



Original Peak Response = 6435344



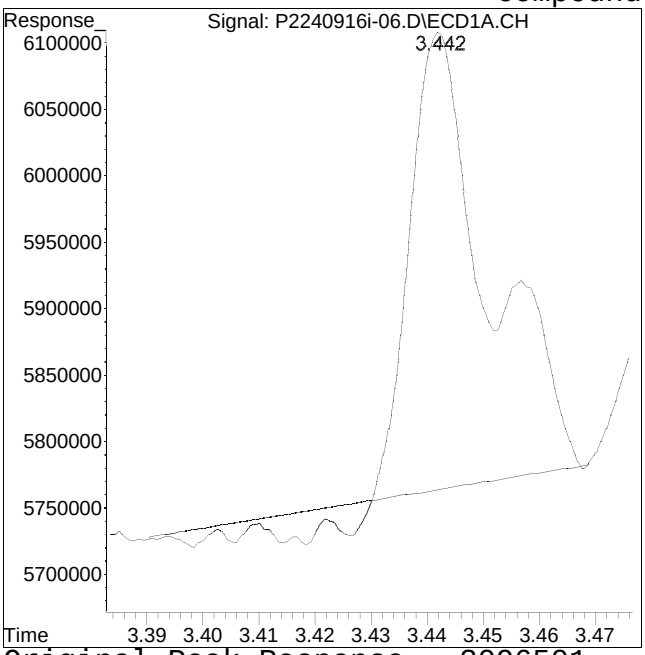
Manual Peak Response = 5691017 M4

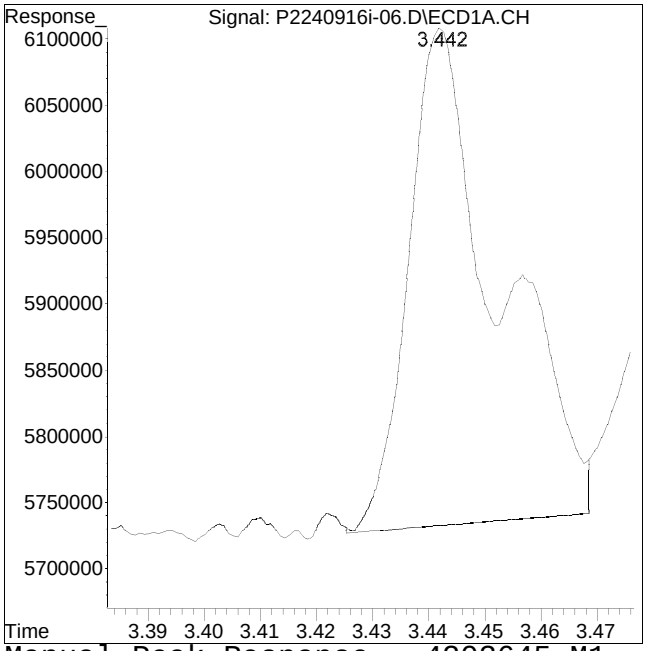
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #13: 1260-5



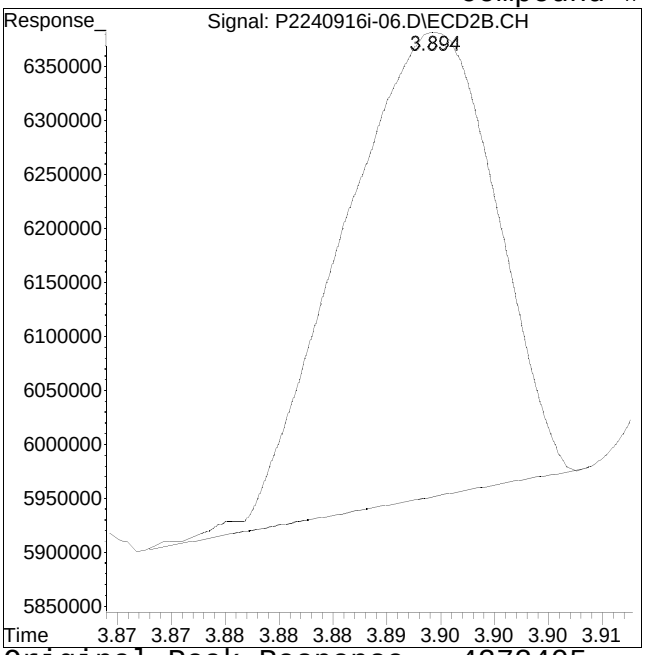


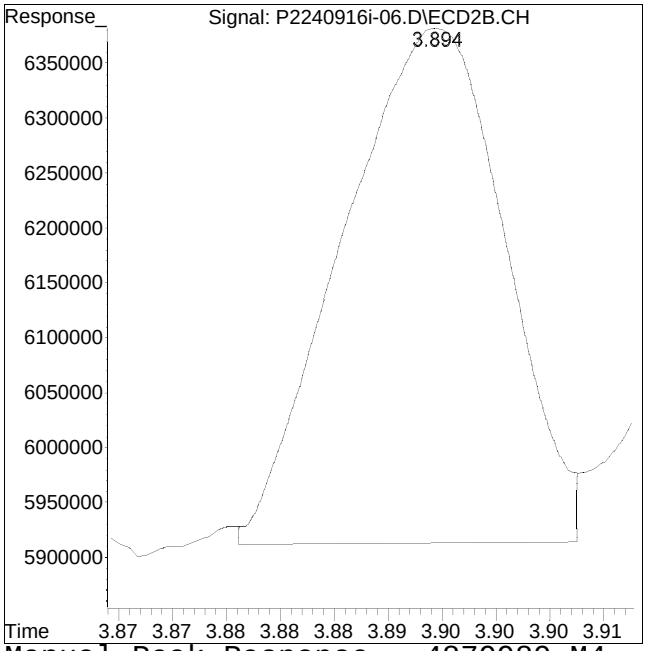
Original Peak Response = 3096501 Manual Peak Response = 4203645 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #64: 1260-5 #2





Original Peak Response = 4272405 Manual Peak Response = 4879989 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.252	219.1E6	243.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	7987682	10752059	0.631M4	0.646
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.13%#	0.13%#
3) s	Decachlorobi	4.026	4.544	13731354	15996221	1.331	1.395
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.27%#	0.28%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	2592848	3299517	10.311	10.472
5) l1	1016-2	1.743	1.992	5479904	6752278	9.761	9.828M4
6) l1	1016-3	1.930	2.193	9836137	14142824	9.300M4	10.371M4
7) l1	1016-4	1.984	2.253	4120248	5578996	8.812M4	10.068
8) l1	1016-5	2.154	2.464	4247732	4514739	8.123	10.618
Sum	1016-1			26276868	34288354	46.305	51.358
Average	1016-1					9.261	10.272
9) l2	1260-1	2.695	3.073	6922616	9057396	10.423M4	10.546
10) l2	1260-2	2.825	3.174	10390964	10827414	10.279M4	10.775
11) l2	1260-3	3.140	3.566	5904233	8783091	9.765M4	10.885
12) l2	1260-4	3.295	3.695	13679789	16641459	10.484M4	10.453

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.443	3.896	9648416	12378615	10.036M4	10.915M4
Sum	1260-1			46546019	57687975	NoCal	NoCal D
Average	1260-1					10.197	10.715
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

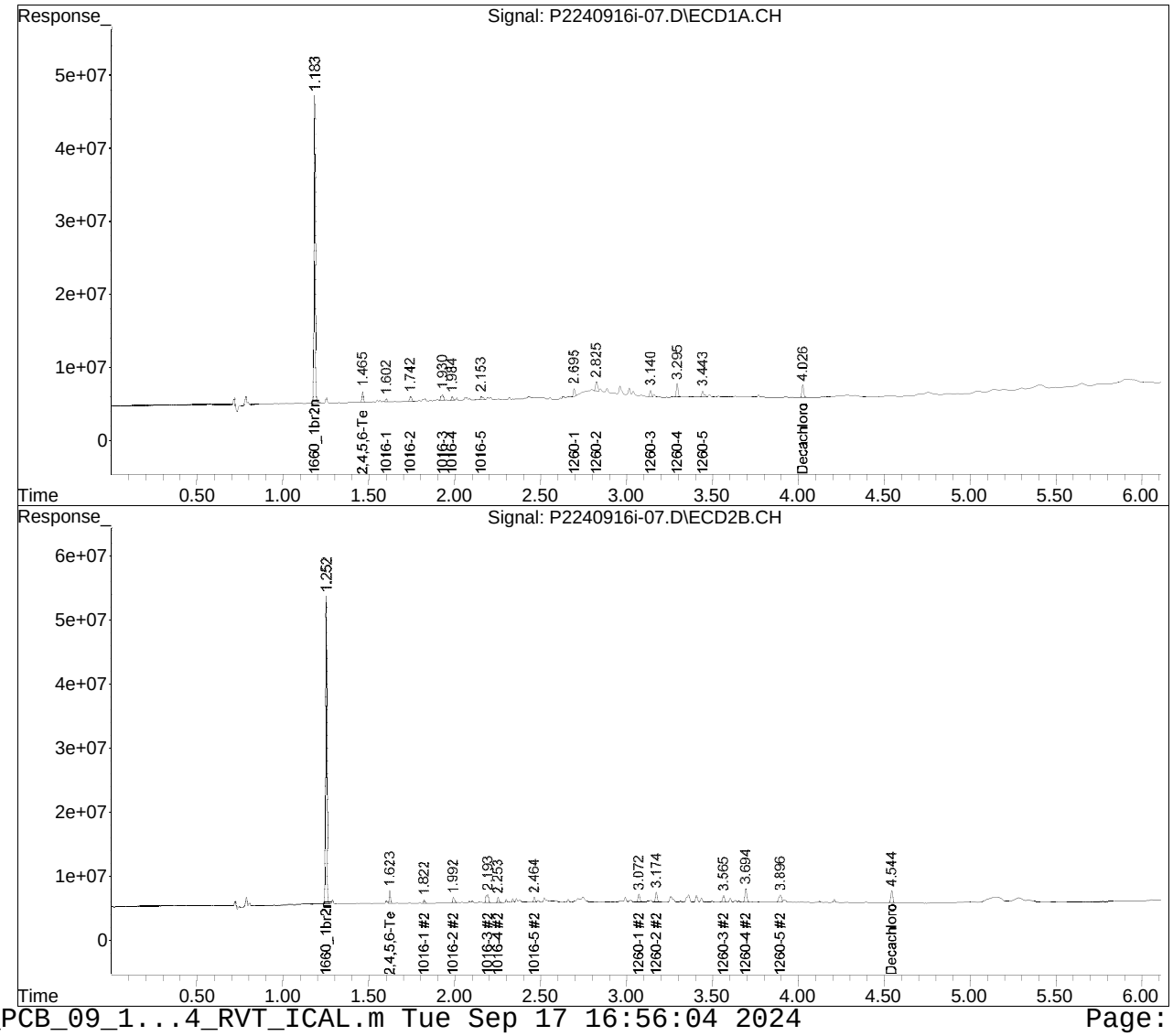
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

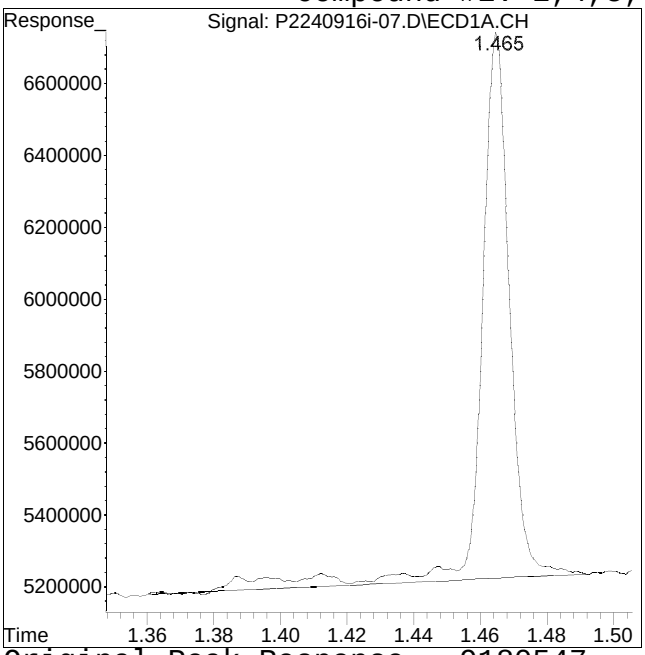
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



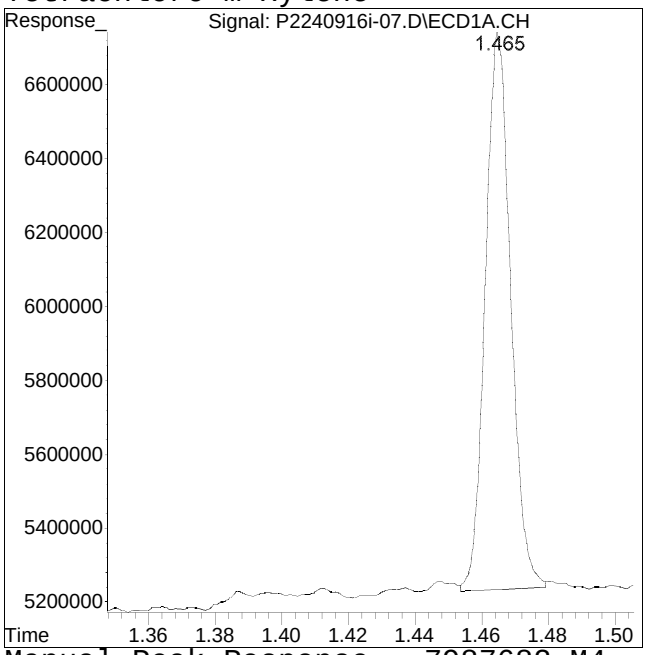
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 9180547



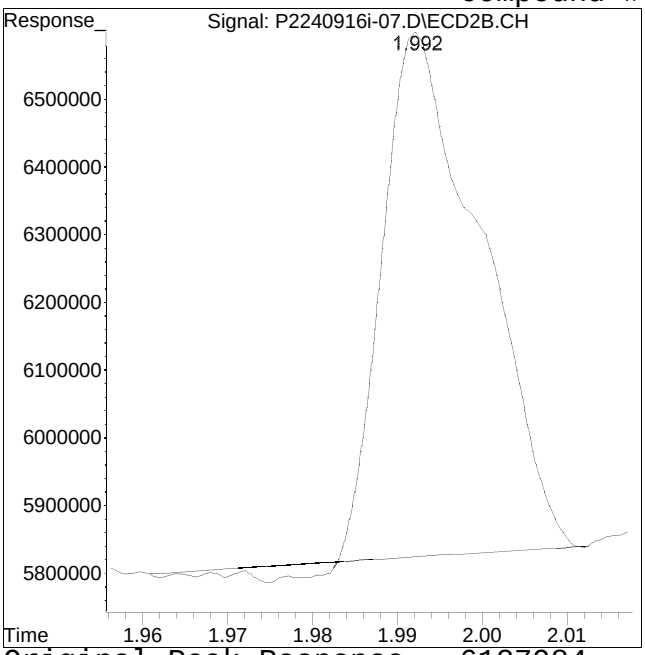
Manual Peak Response = 7987682 M4

M4 = Poor automated baseline construction.

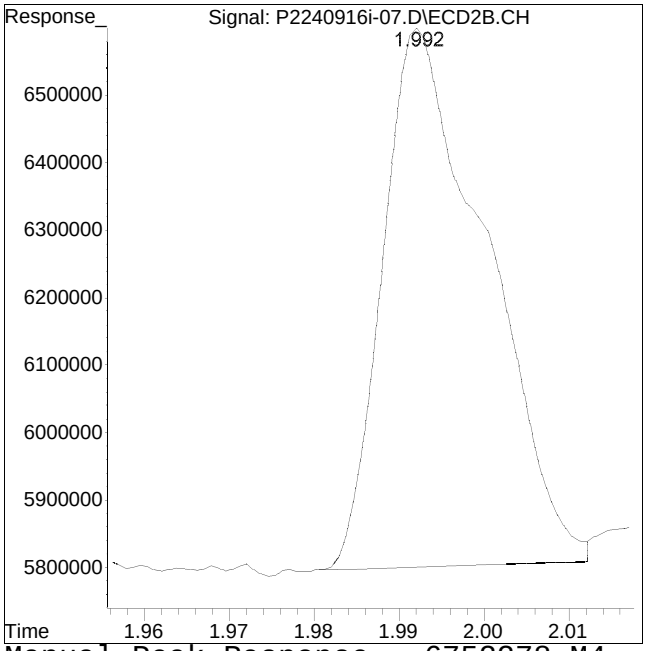
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #56: 1016-2 #2



Original Peak Response = 6127984



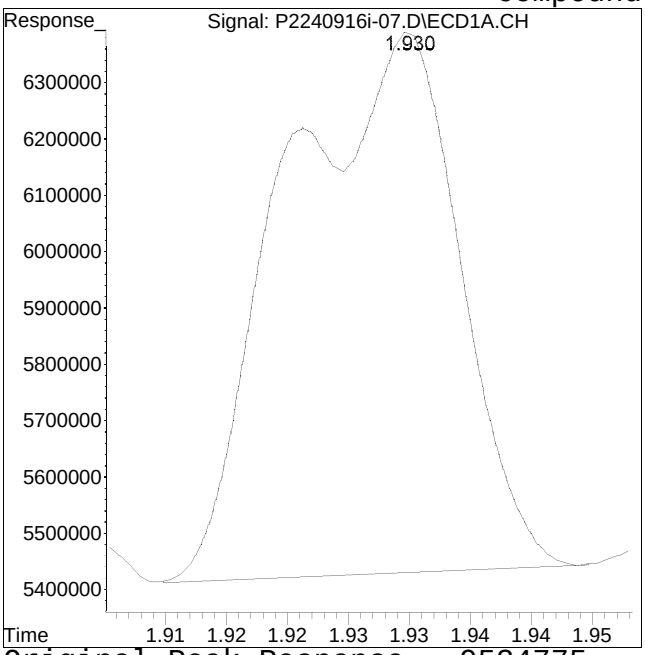
Manual Peak Response = 6752278 M4

M4 = Poor automated baseline construction.

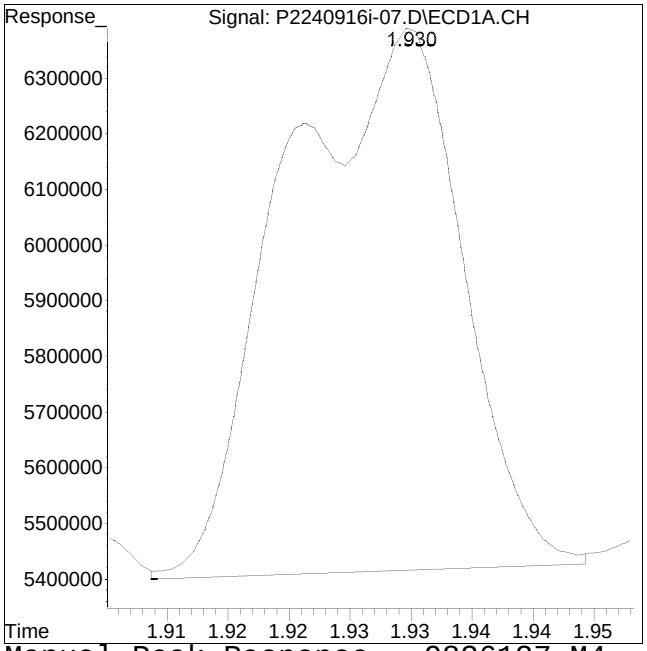
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #6: 1016-3



Original Peak Response = 9534775



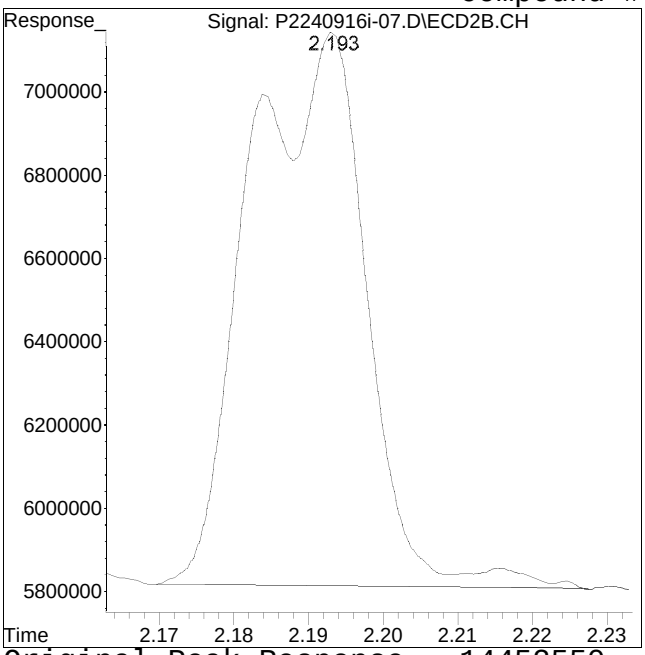
Manual Peak Response = 9836137 M4

M4 = Poor automated baseline construction.

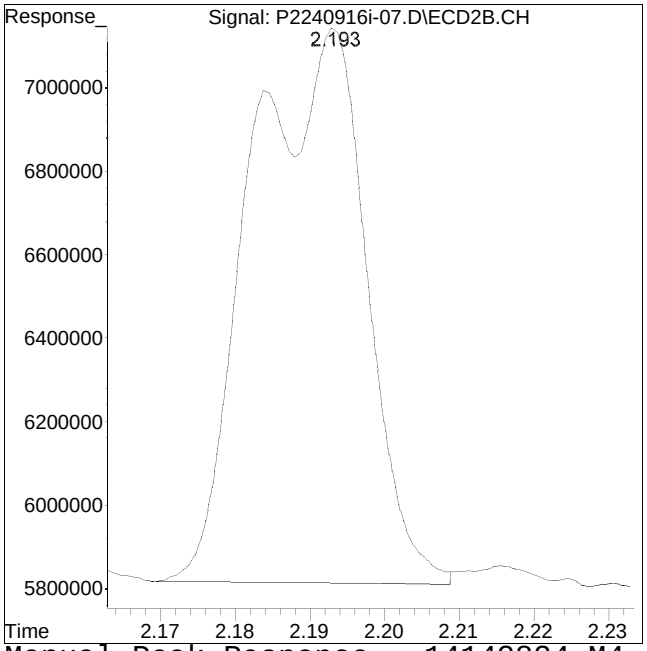
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #57: 1016-3 #2



Original Peak Response = 14452550



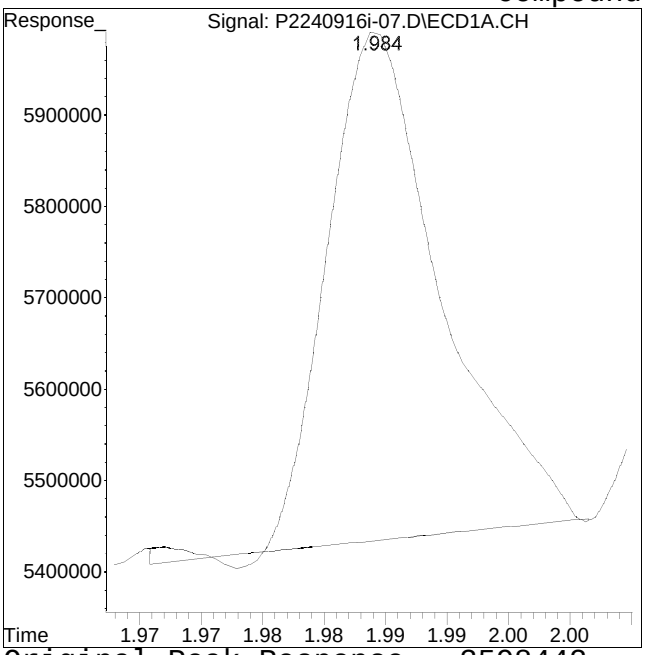
Manual Peak Response = 14142824 M4

M4 = Poor automated baseline construction.

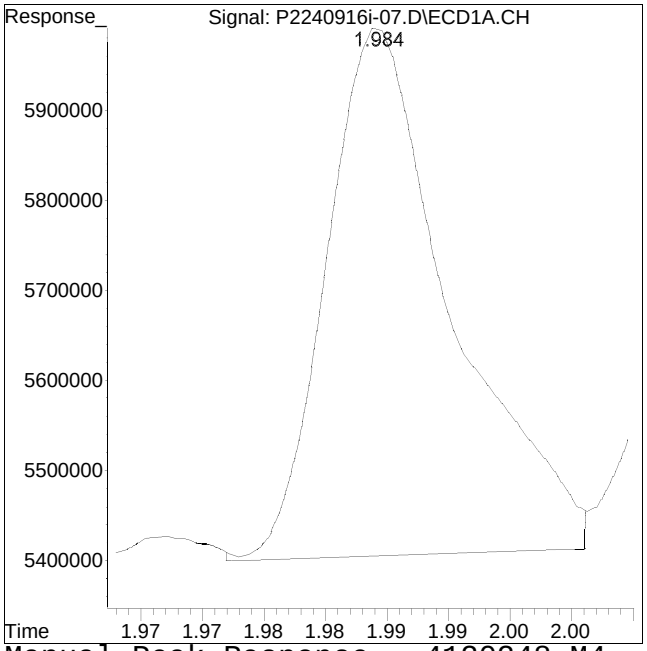
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #7: 1016-4



Original Peak Response = 3598442



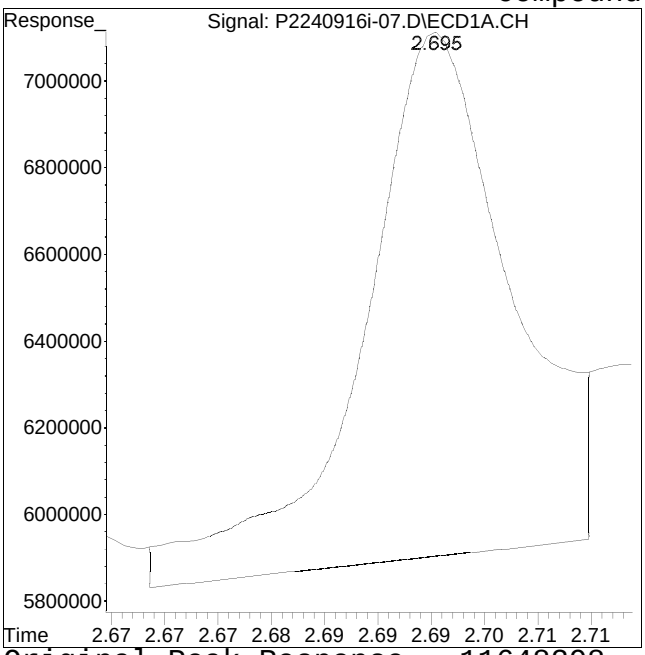
Manual Peak Response = 4120248 M4

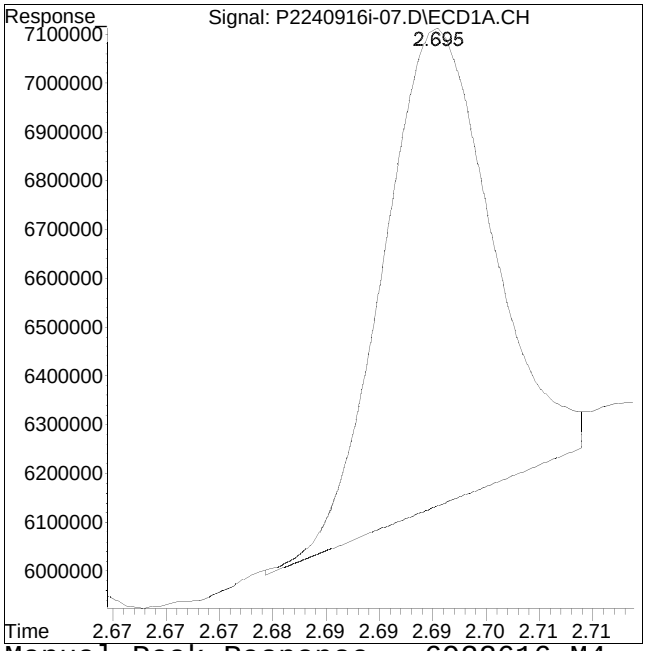
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #9: 1260-1



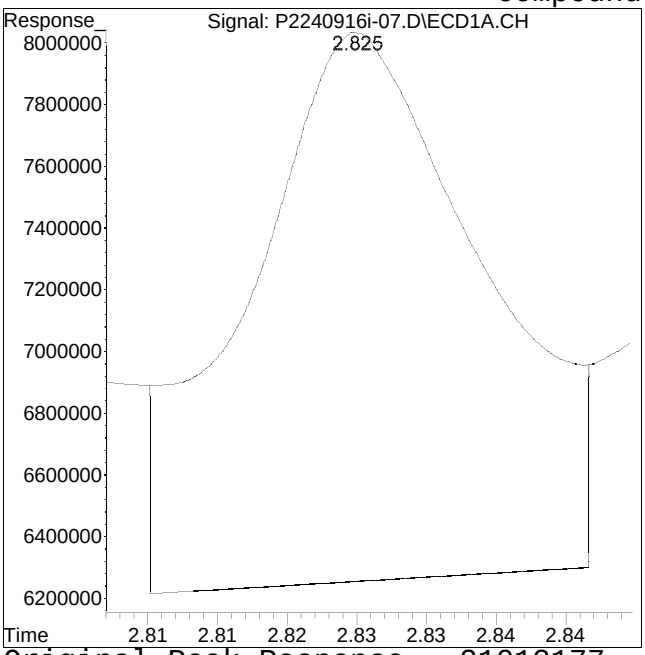


Original Peak Response = 11648298 Manual Peak Response = 6922616 M4
M4 = Poor automated baseline construction.

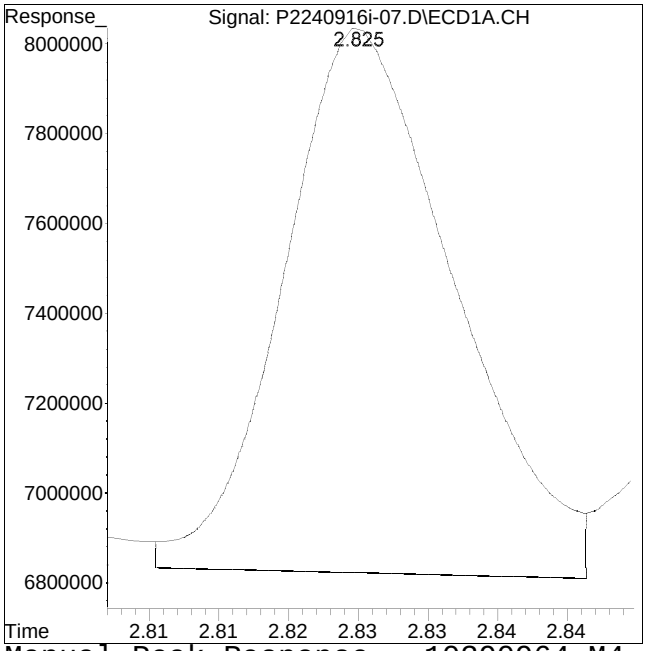
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #10: 1260-2



Original Peak Response = 21012177



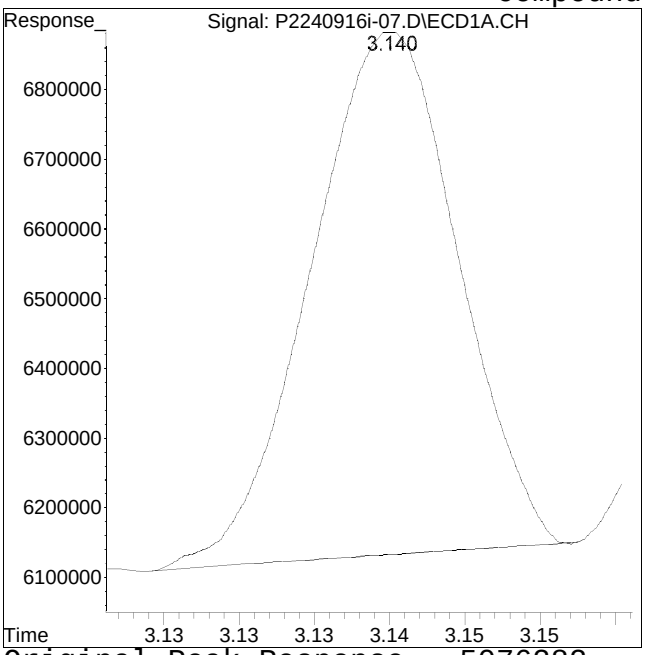
Manual Peak Response = 10390964 M4

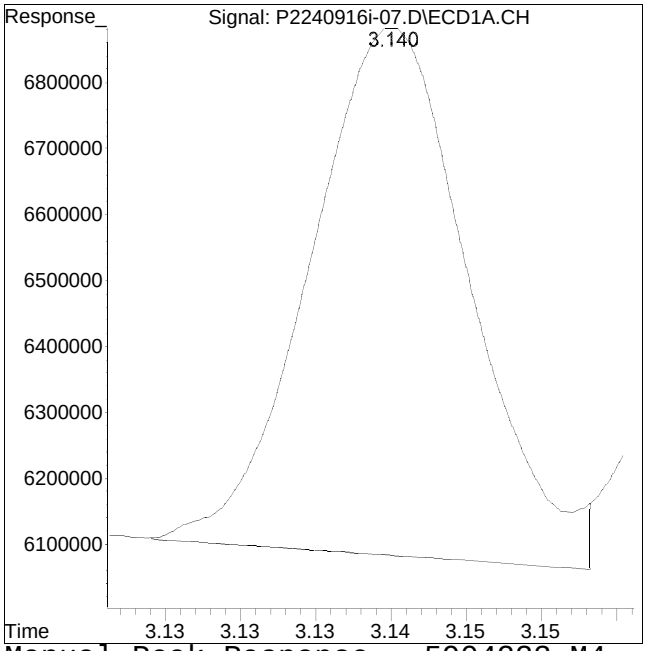
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #11: 1260-3



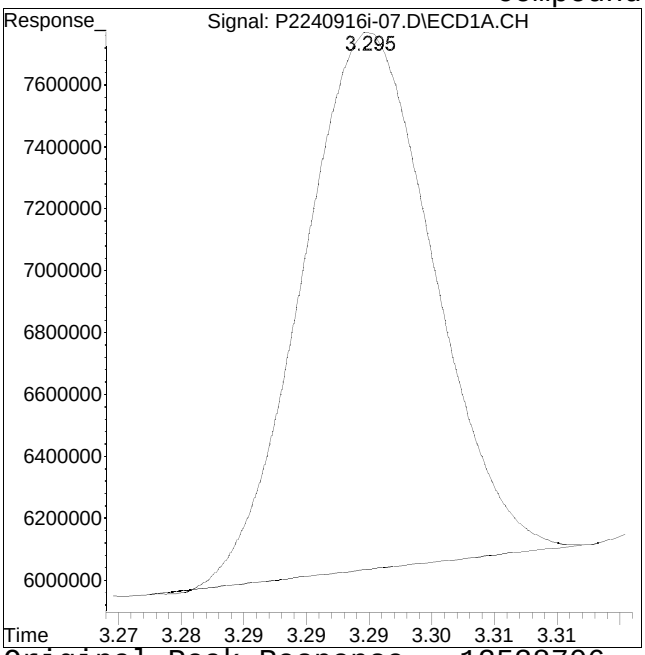


Original Peak Response = 5076282 Manual Peak Response = 5904233 M4
M4 = Poor automated baseline construction.

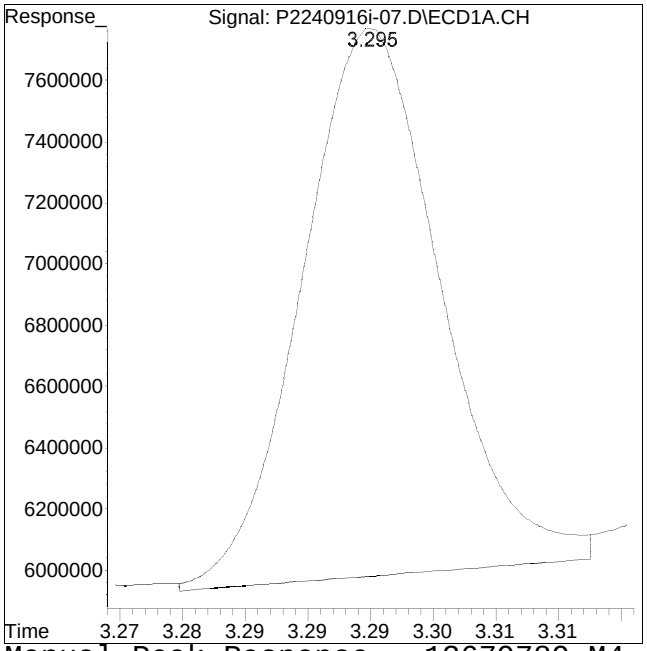
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #12: 1260-4



Original Peak Response = 12538706



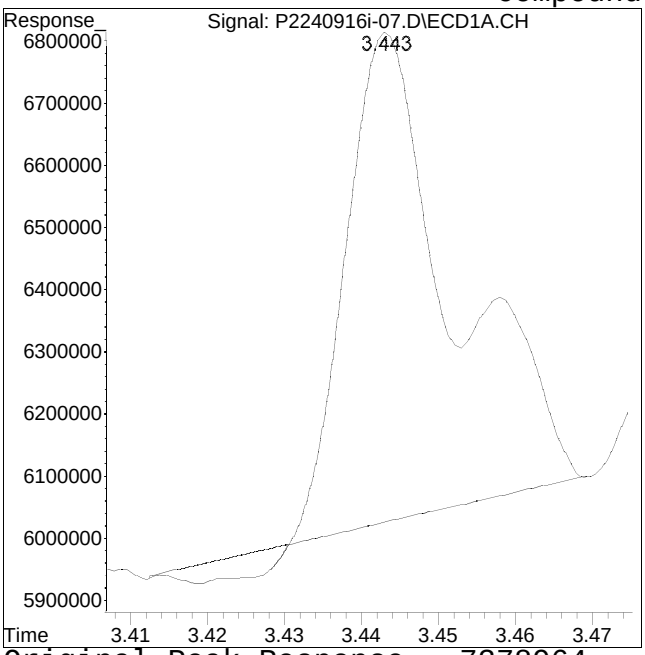
Manual Peak Response = 13679789 M4

M4 = Poor automated baseline construction.

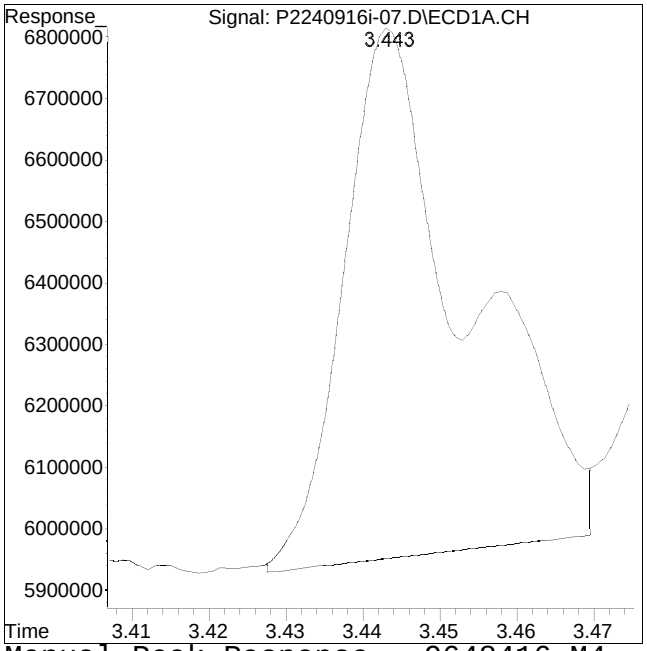
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #13: 1260-5



Original Peak Response = 7378964



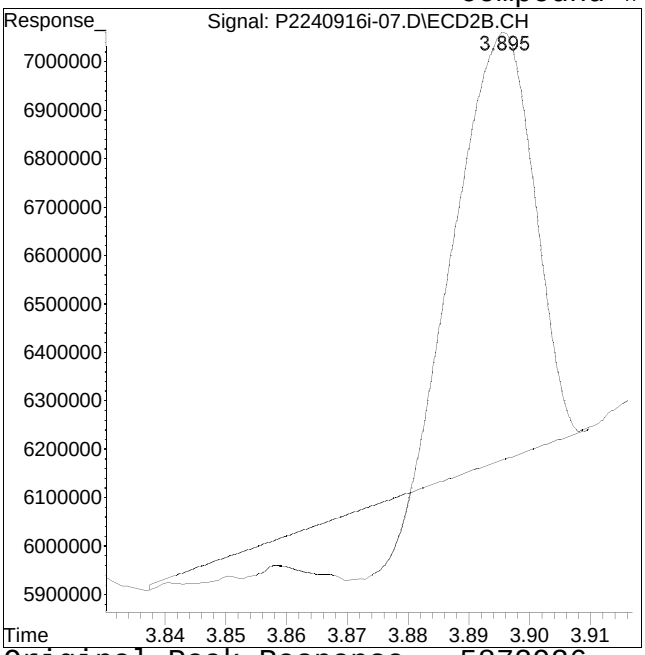
Manual Peak Response = 9648416 M4

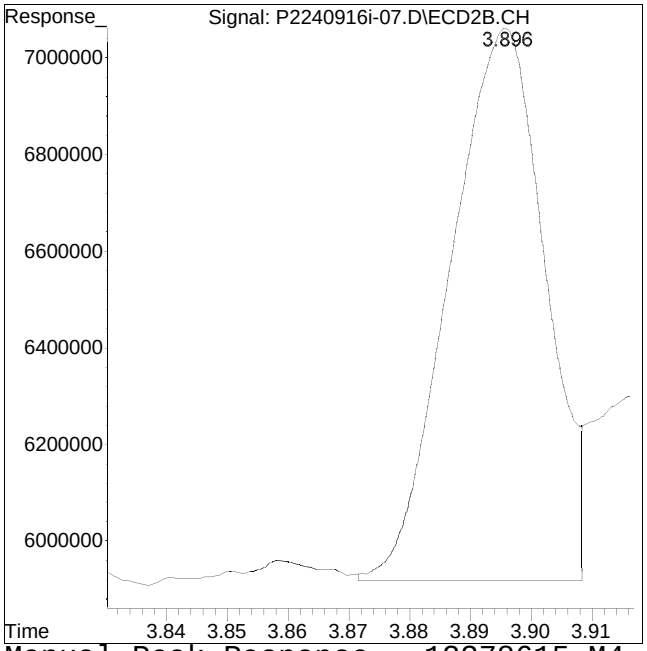
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #64: 1260-5 #2





Original Peak Response = 5872926 Manual Peak Response = 12378615 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	214.3E6	243.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	16020654	22117529	1.309M4	1.384
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.26%#	0.28%#
3) s	Decachlorobi	4.026	4.544	25914732	30032686	2.576	2.688
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.52%#	0.54%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	5018375	6360232	20.831	20.435
5) l1	1016-2	1.743	1.992	10998480	13977131	20.066	20.762M4
6) l1	1016-3	1.930	2.194	21149857	27872165	20.918	20.960
7) l1	1016-4	1.985	2.253	9501897	11367344	21.624	21.119
8) l1	1016-5	2.154	2.464	10607500	8713170	21.543	21.072
	Sum 1016-1			57276108	68290042	104.982	104.349
	Average 1016-1					20.996	20.870
9) l2	1260-1	2.696	3.072	13204544	17107728	20.673	19.899
10) l2	1260-2	2.826	3.174	19987171	20486116	20.441	20.853
11) l2	1260-3	3.140	3.566	11909007	16402627	20.284M4	20.730
12) l2	1260-4	3.295	3.695	25682756	32138585	20.258M4	20.438
13) l2	1260-5	3.443	3.896	18874650	23027119	20.154M1	20.680
	Sum 1260-1			89658127	109.2E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					20.362	20.520
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

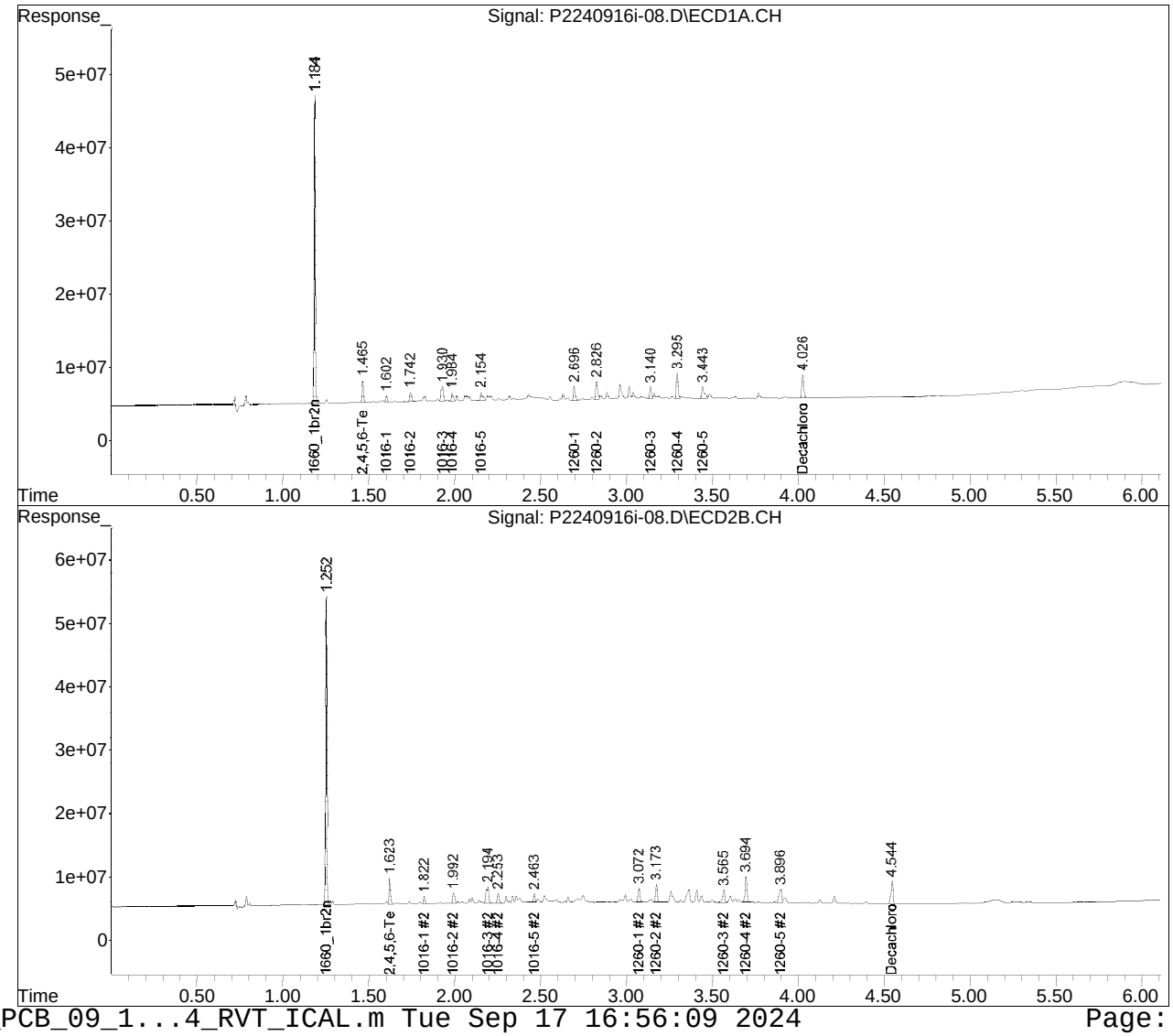
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

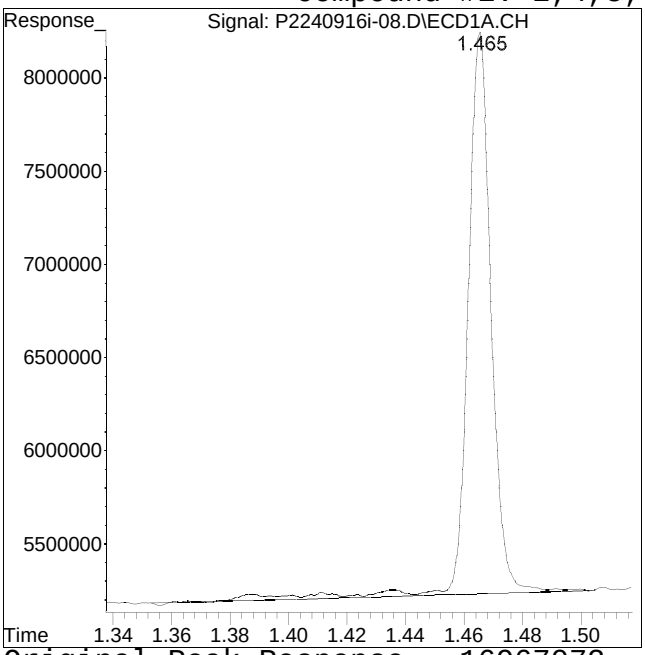
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

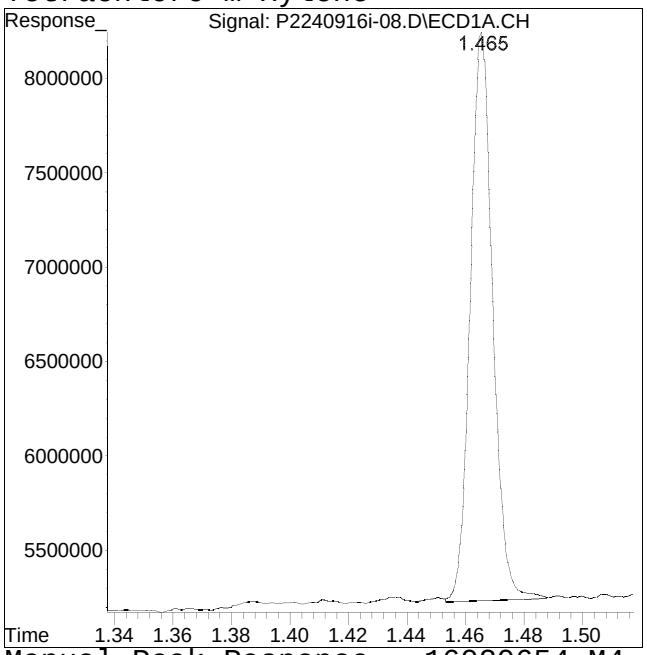


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



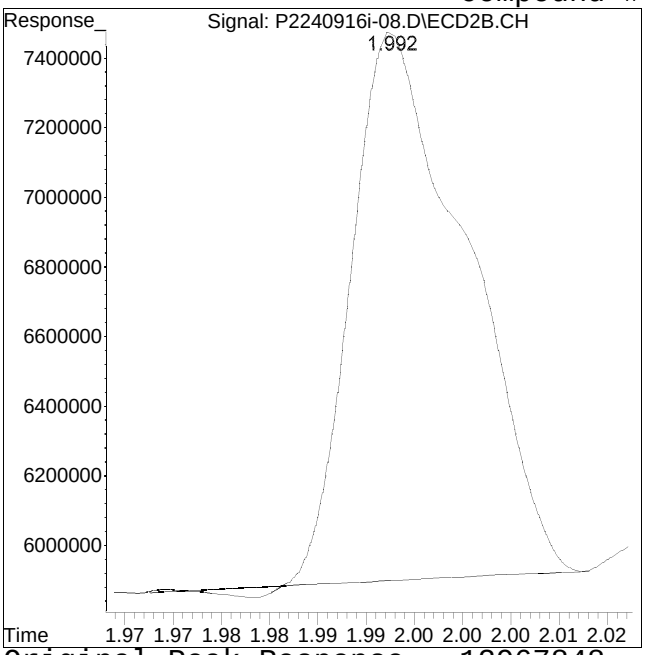


Original Peak Response = 16967072 Manual Peak Response = 16020654 M4
M4 = Poor automated baseline construction.

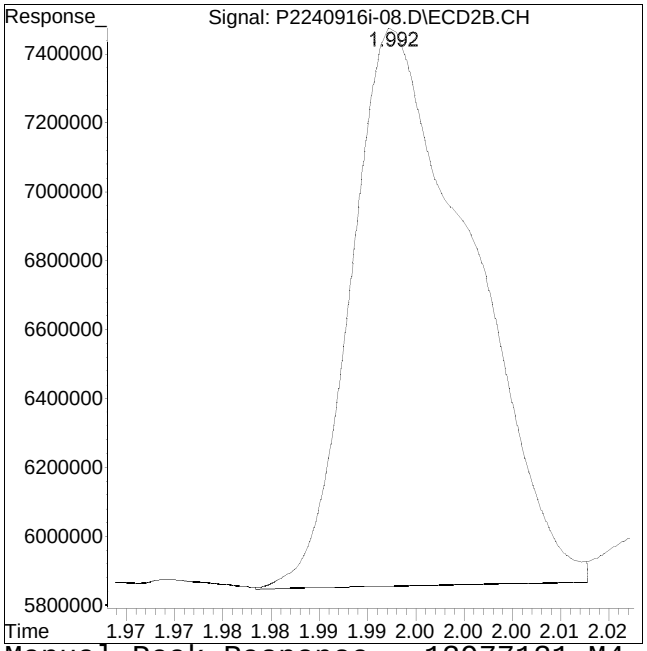
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #56: 1016-2 #2



Original Peak Response = 12967848



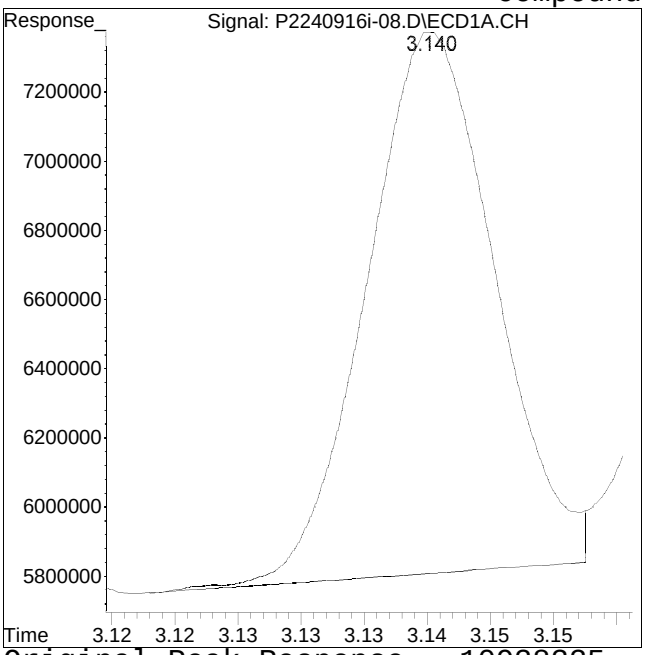
Manual Peak Response = 13977131 M4

M4 = Poor automated baseline construction.

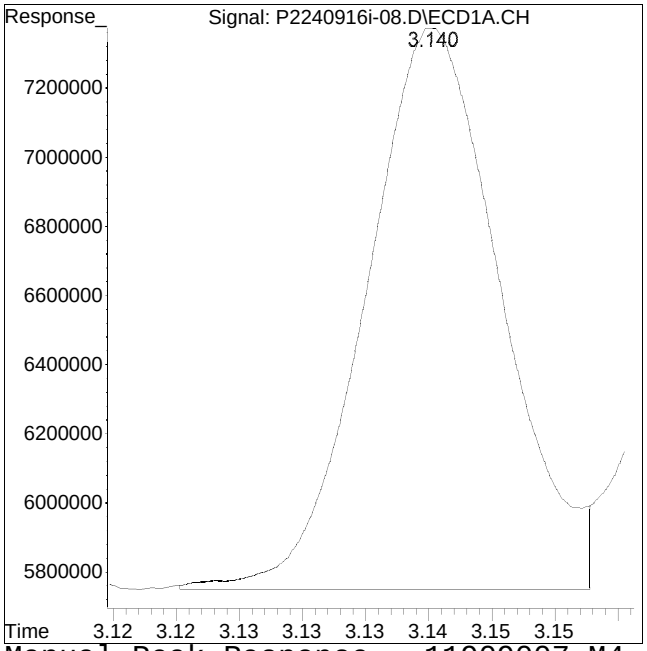
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #11: 1260-3



Original Peak Response = 10938335



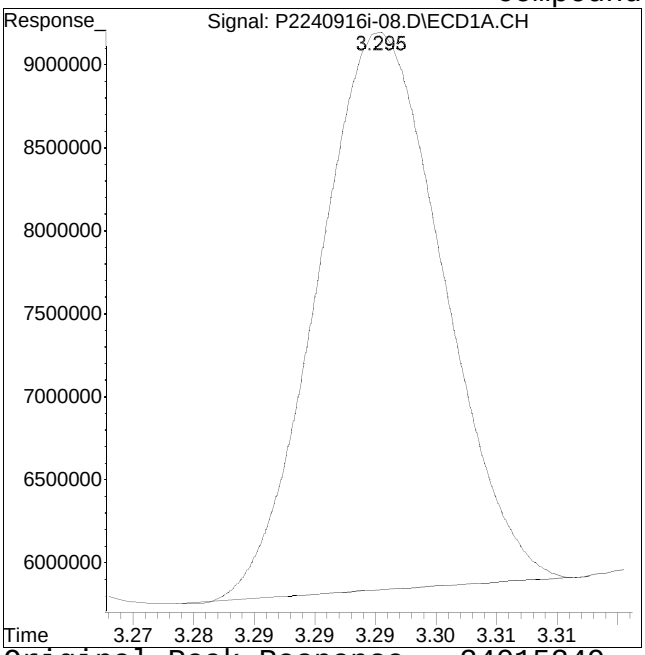
Manual Peak Response = 11909007 M4

M4 = Poor automated baseline construction.

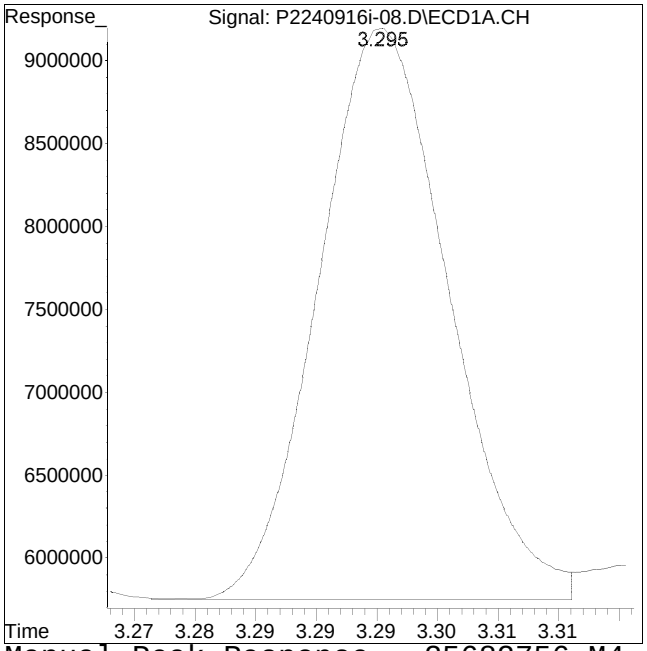
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #12: 1260-4



Original Peak Response = 24015249



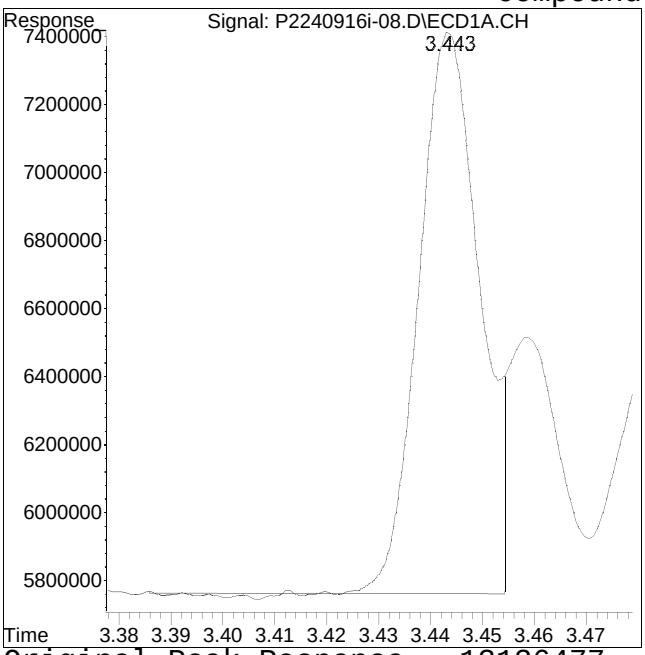
Manual Peak Response = 25682756 M4

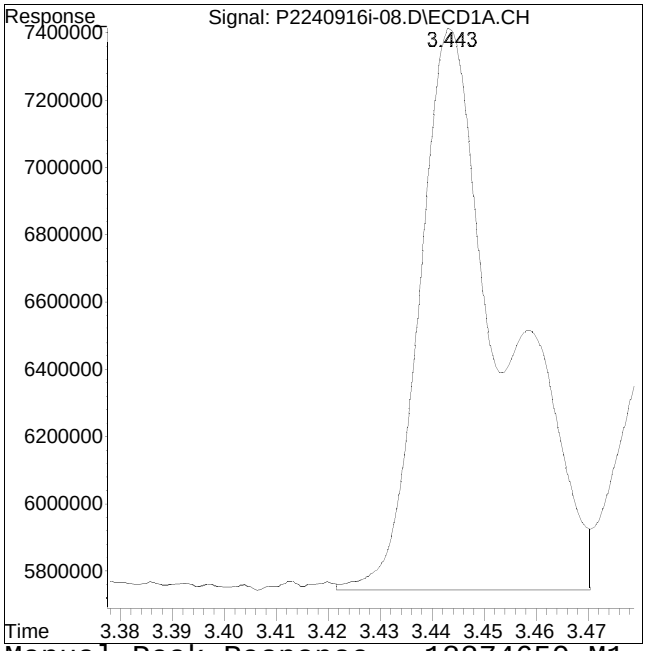
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #13: 1260-5





Original Peak Response = 13136477 Manual Peak Response = 18874650 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.0E6	247.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	23701420	31194363	1.889M4	1.847
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.38%#	0.37%#
3) s	Decachlorobi	4.026	4.545	38950596	43606128	3.826	3.759
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.77%#	0.75%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	7287008	9490556	29.170	27.538
5) l1	1016-2	1.742	1.993	16579873	20527486	31.702	29.491M4
6) l1	1016-3	1.930	2.194	30584344	40547738	29.036	29.808
7) l1	1016-4	1.984	2.254	13291546	16412600	28.306	28.349
8) l1	1016-5	2.154	2.465	14893970	12608593	27.402	29.750
	Sum 1016-1			82636742	99586974	145.616	144.936
	Average 1016-1					29.123	28.987
9) l2	1260-1	2.695	3.073	19320420	26215729	28.174	29.264
10) l2	1260-2	2.825	3.174	29577395	29956727	29.692	28.863
11) l2	1260-3	3.140	3.566	17759471	24127405	29.713	29.179
12) l2	1260-4	3.295	3.695	38348158	47949577	29.629M4	28.723
13) l2	1260-5	3.443	3.897	28327981	33953657	29.791M1	29.646
	Sum 1260-1			133.3E6	162.2E6	NoCal	NoCal D
	Average 1260-1					29.400	29.135

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

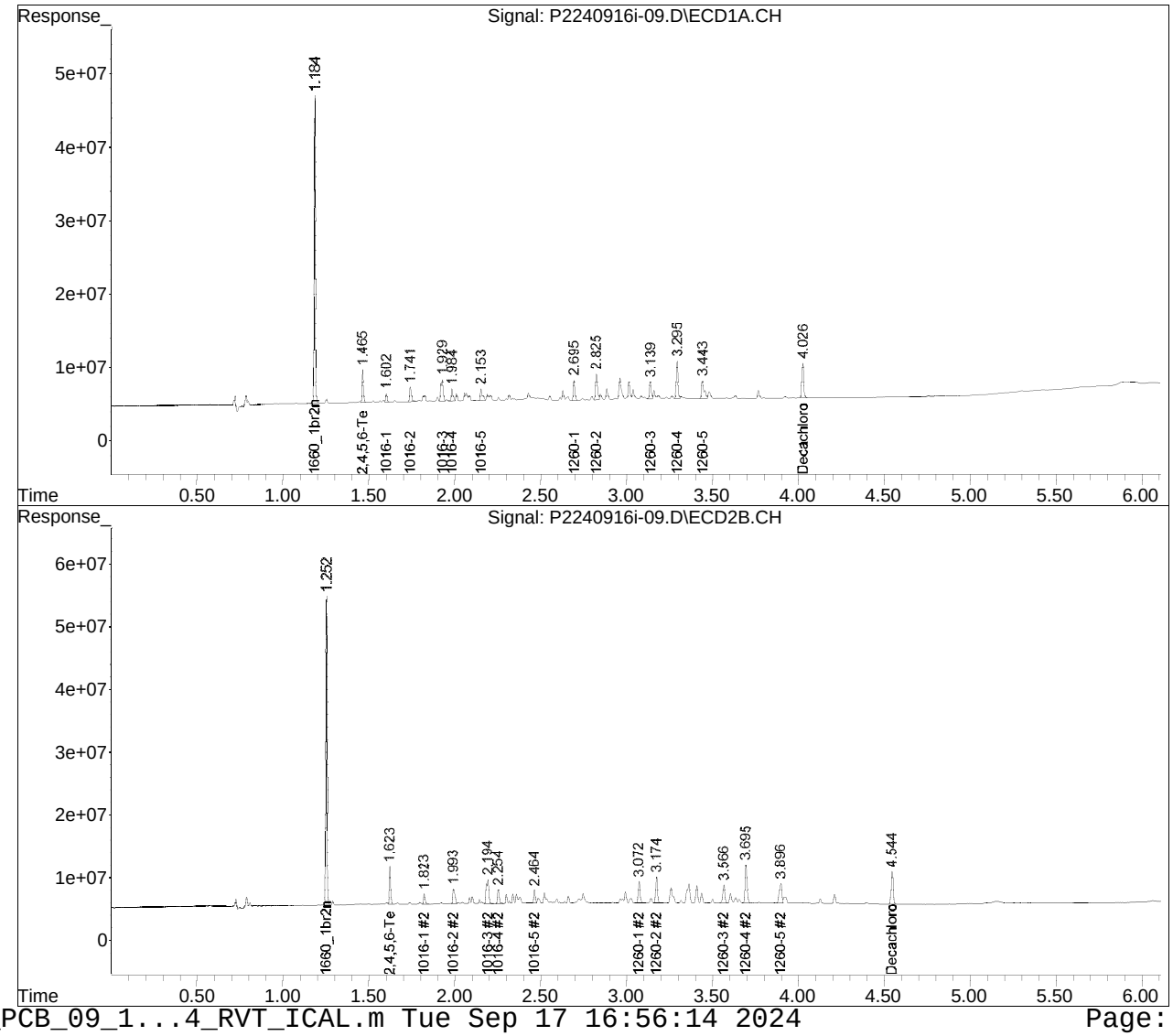
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

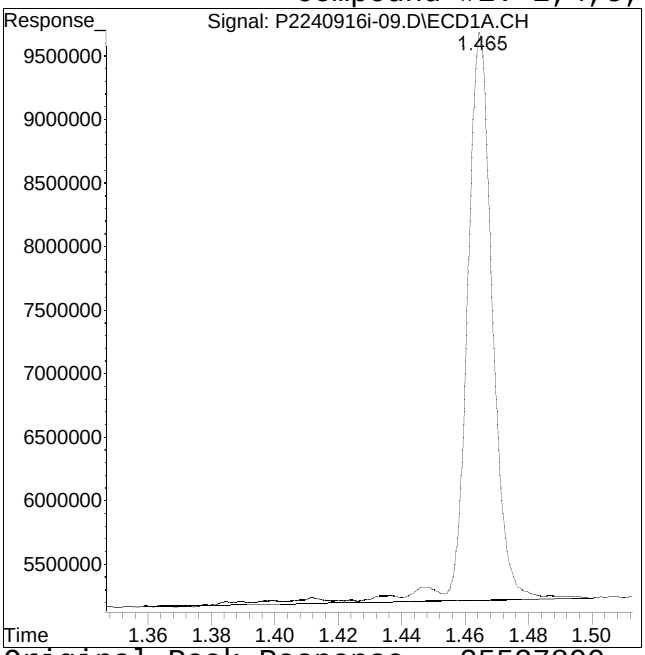
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



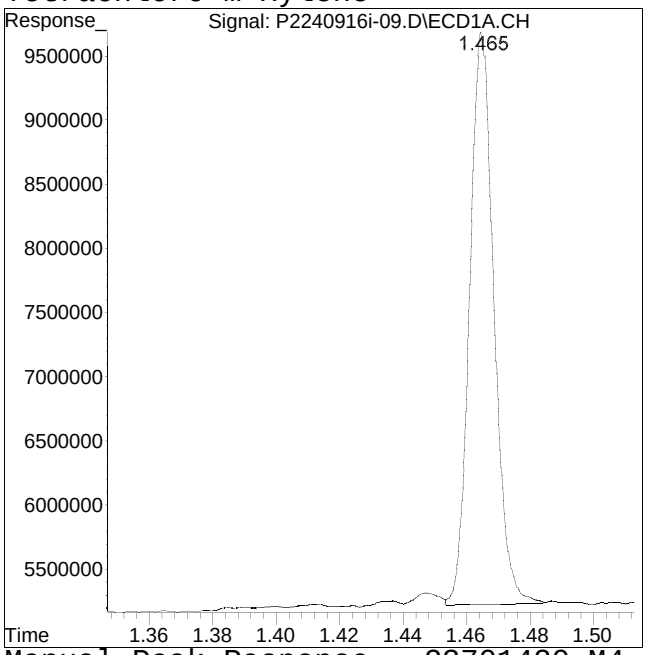
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 25527890



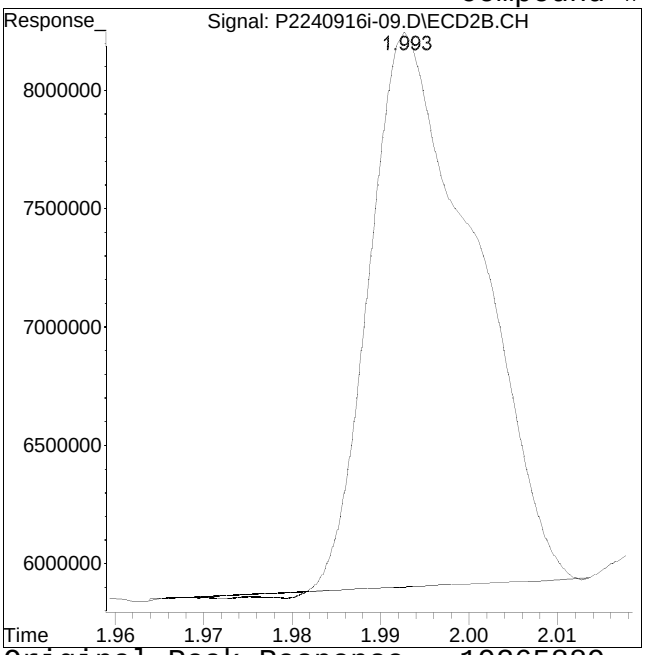
Manual Peak Response = 23701420 M4

M4 = Poor automated baseline construction.

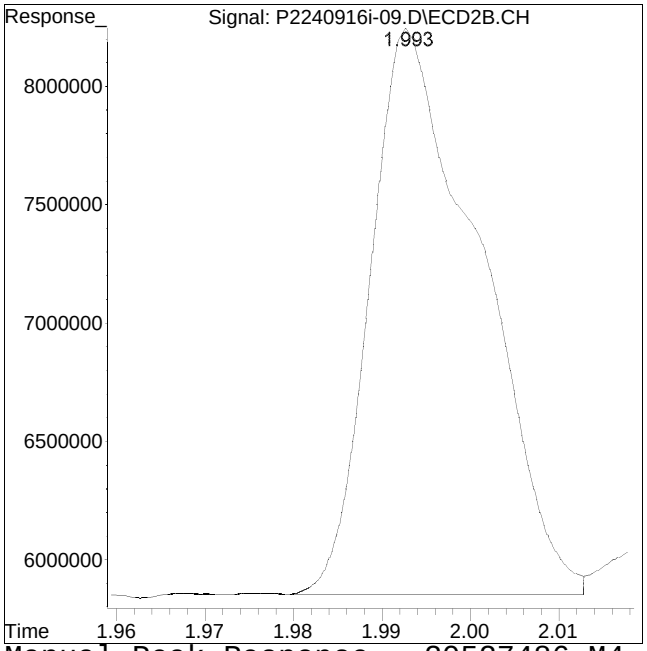
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #56: 1016-2 #2



Original Peak Response = 19265889



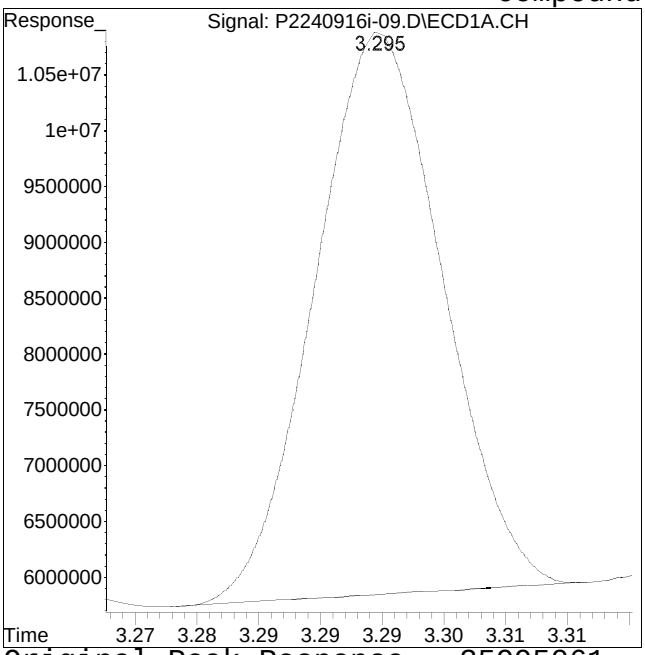
Manual Peak Response = 20527486 M4

M4 = Poor automated baseline construction.

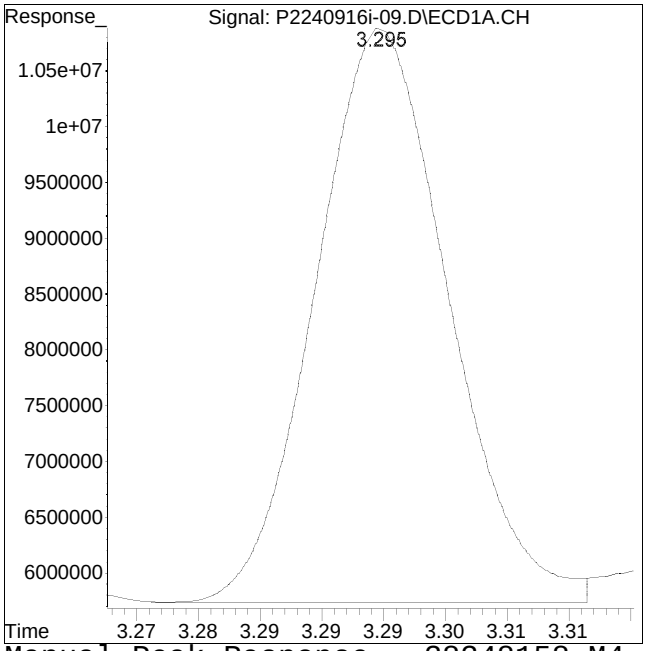
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #12: 1260-4



Original Peak Response = 35995061



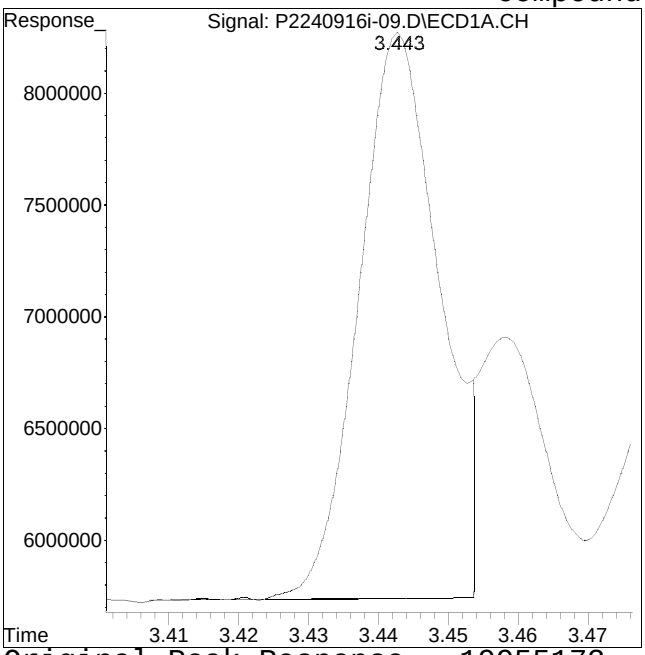
Manual Peak Response = 38348158 M4

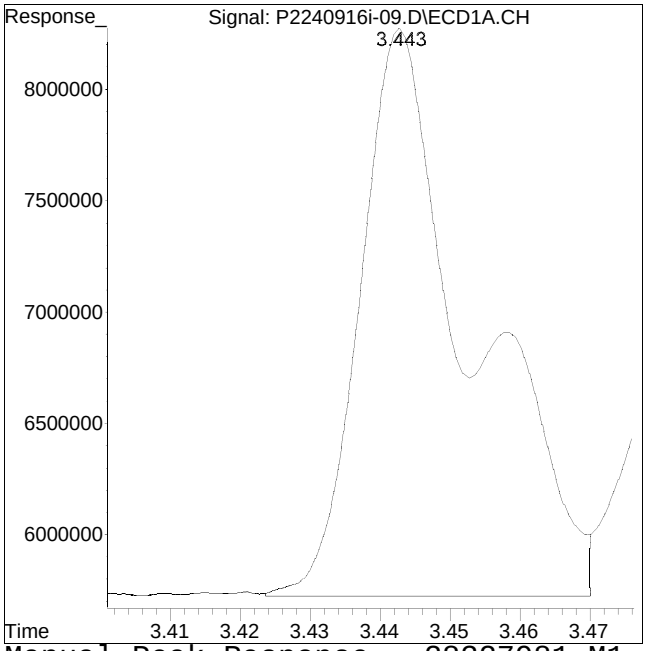
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #13: 1260-5





Original Peak Response = 19955172 Manual Peak Response = 28327981 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.4E6	249.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	31028289	41234103	2.471	2.385
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.49%#	0.48%#
3) s	Decachlorobi	4.026	4.544	51601040	56755220	4.826	4.543
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.97%#	0.91%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	9304445	12151923	37.122	36.165
5) l1	1016-2	1.742	1.994	20984858	27943430	38.015	40.159
6) l1	1016-3	1.930	2.194	39280097	52100559	37.879	36.222
7) l1	1016-4	1.984	2.254	16995850	21059831	38.267	36.078
8) l1	1016-5	2.154	2.465	19236393	16893873	38.583	37.107
	Sum 1016-1			105.8E6	130.1E6	189.865	185.732
	Average 1016-1					37.973	37.146
9) l2	1260-1	2.695	3.073	25459305	33045513	37.479	36.494
10) l2	1260-2	2.825	3.175	39329833	38676250	38.511	36.078
11) l2	1260-3	3.140	3.566	24327242	31748249	41.111	36.463
12) l2	1260-4	3.295	3.696	51329323	63121572	38.676M4	37.732
13) l2	1260-5	3.443	3.897	36401098	44712642	37.610M1	37.354
	Sum 1260-1			176.8E6	211.3E6	NoCal	NoCal D
	Average 1260-1					38.677	36.824
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

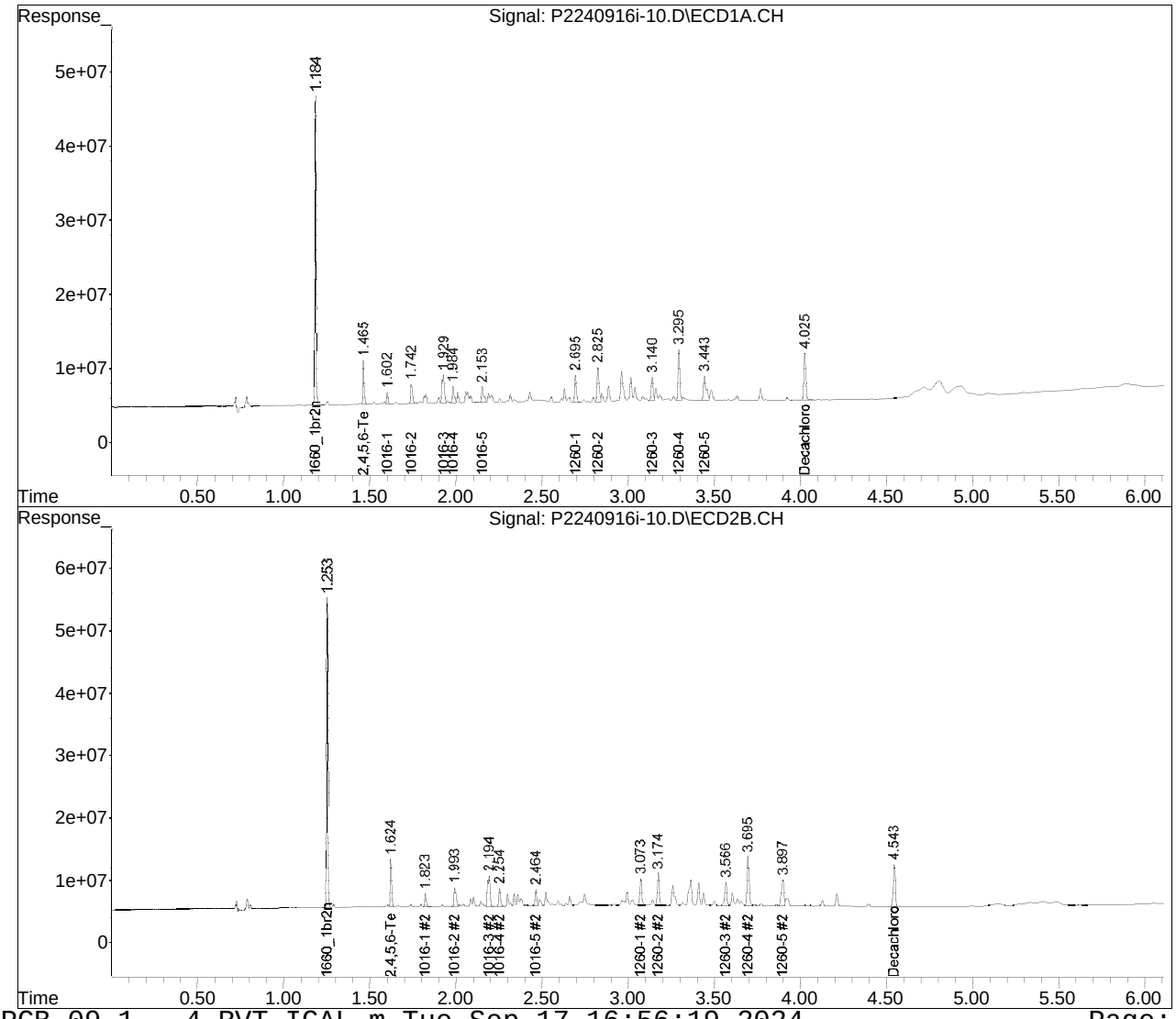
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

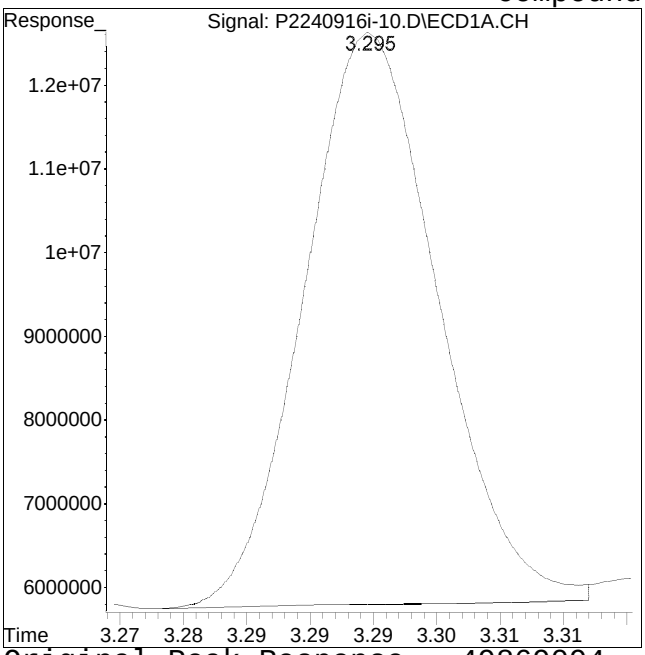
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



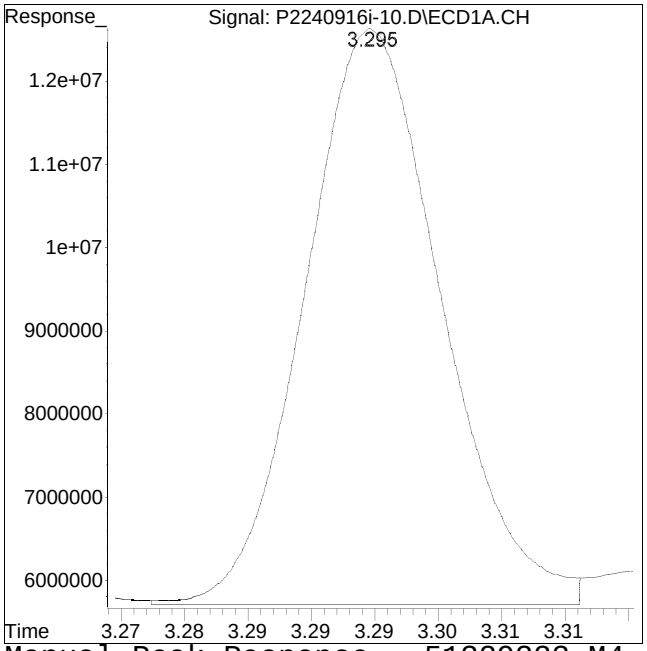
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #12: 1260-4



Original Peak Response = 49869094



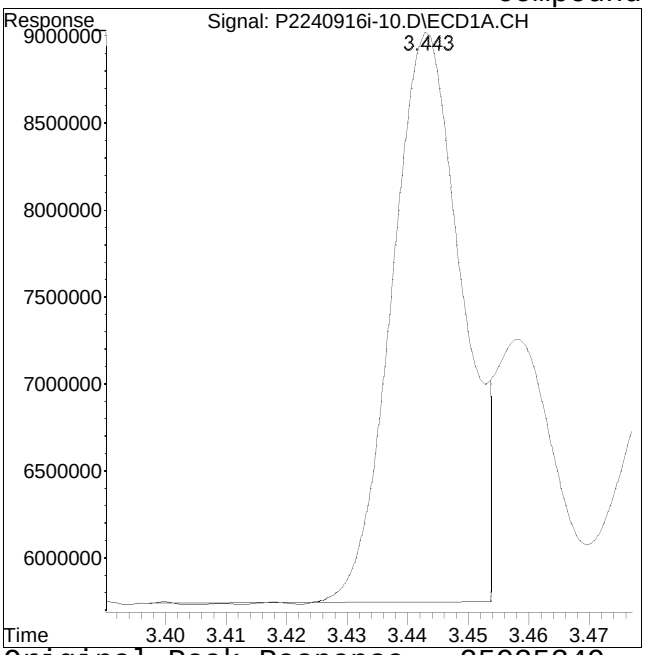
Manual Peak Response = 51329323 M4

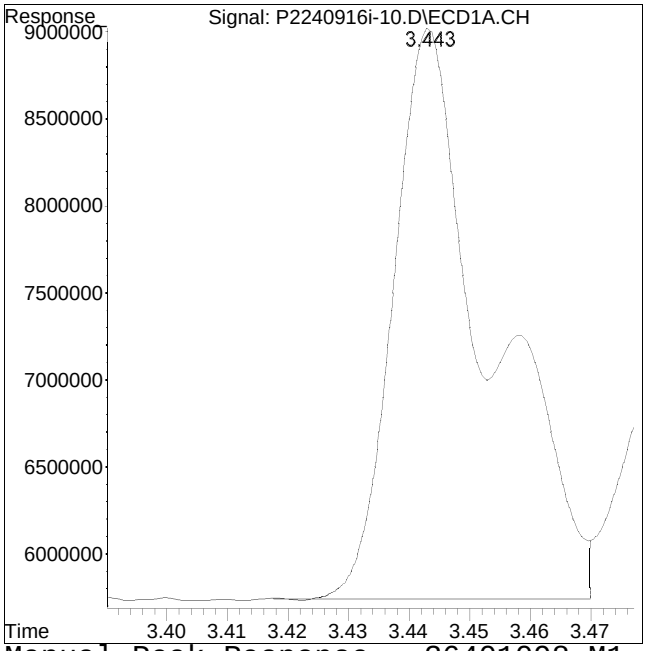
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #13: 1260-5





Original Peak Response = 25935349 Manual Peak Response = 36401098 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	213.0E6	248.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	39428033	52397795	3.212M4	3.080
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.64%#	0.62%#
3) s	Decachlorobi	4.025	4.546	63094250	69128698	6.065	5.673
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.21%#	1.13%#
	Target Compounds						
4) l1	1016-1	1.602	1.824	11776281	15111645	48.430	45.952
5) l1	1016-2	1.742	1.994	25061708	34577252	46.588	49.761
6) l1	1016-3	1.929	2.194	50302979	65581605	49.811	46.574
7) l1	1016-4	1.984	2.255	20972386	26755739	48.393	46.855
8) l1	1016-5	2.153	2.465	23796597	21258213	48.837	47.482
	Sum 1016-1			131.9E6	163.3E6	242.057	236.624
	Average 1016-1					48.411	47.325
9) l2	1260-1	2.695	3.073	32210793	44682243	48.789	50.335
10) l2	1260-2	2.824	3.175	49517504	52152053	49.629	49.729
11) l2	1260-3	3.139	3.566	30106707	42000177	51.404	49.212
12) l2	1260-4	3.295	3.696	63286689	79371969	48.769	48.094
13) l2	1260-5	3.442	3.897	45478274	56662066	48.316M1	48.076
	Sum 1260-1			220.6E6	274.9E6	NoCal	NoCal D
	Average 1260-1					49.382	49.089
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

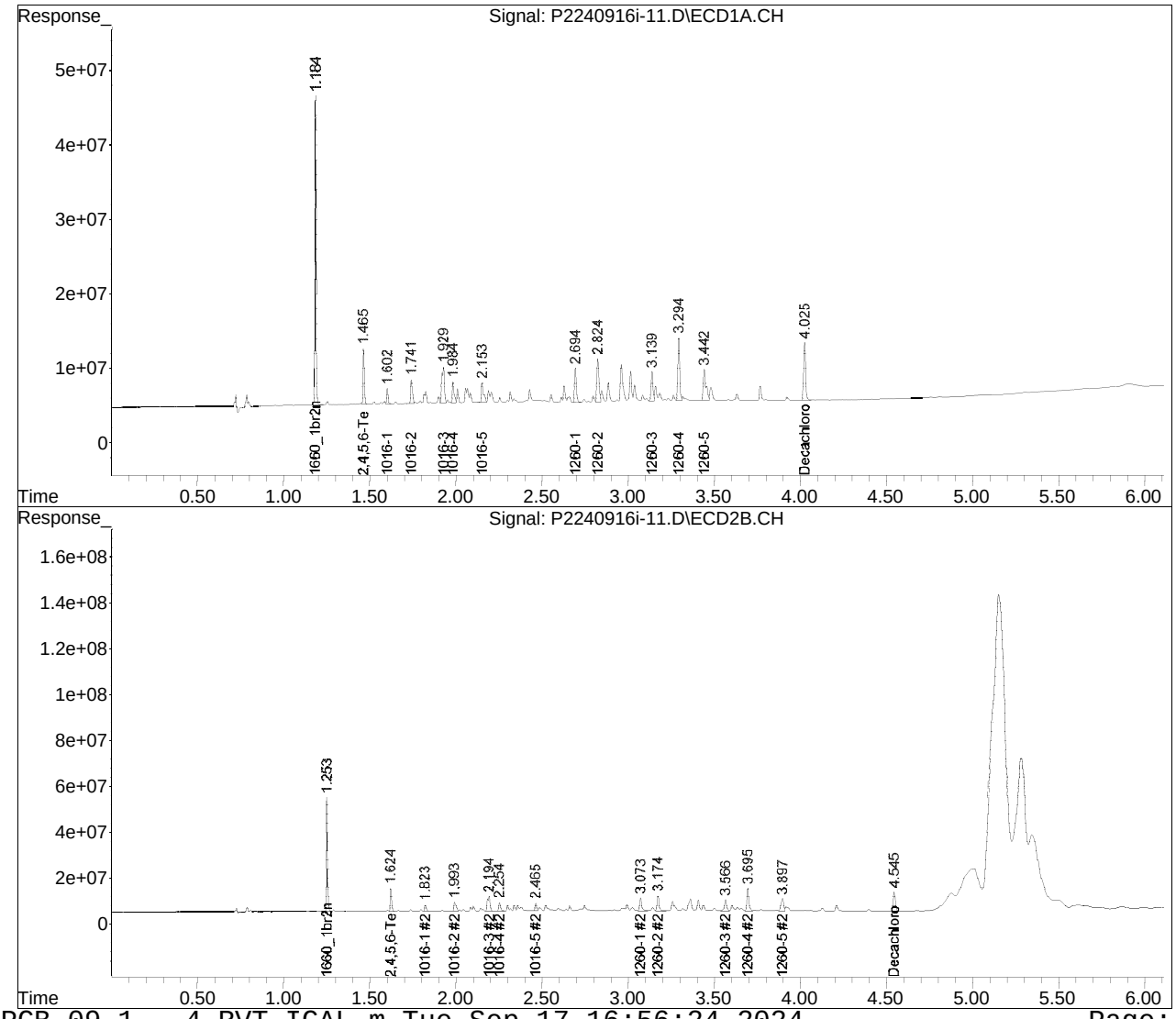
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

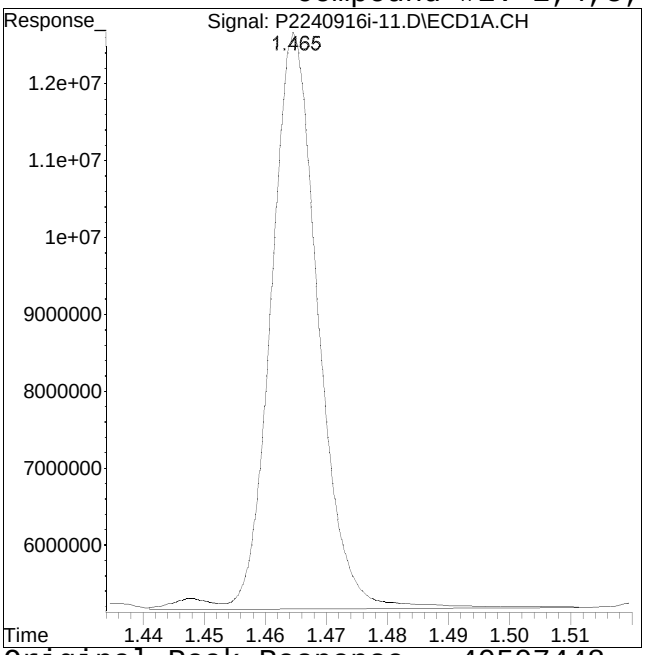
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

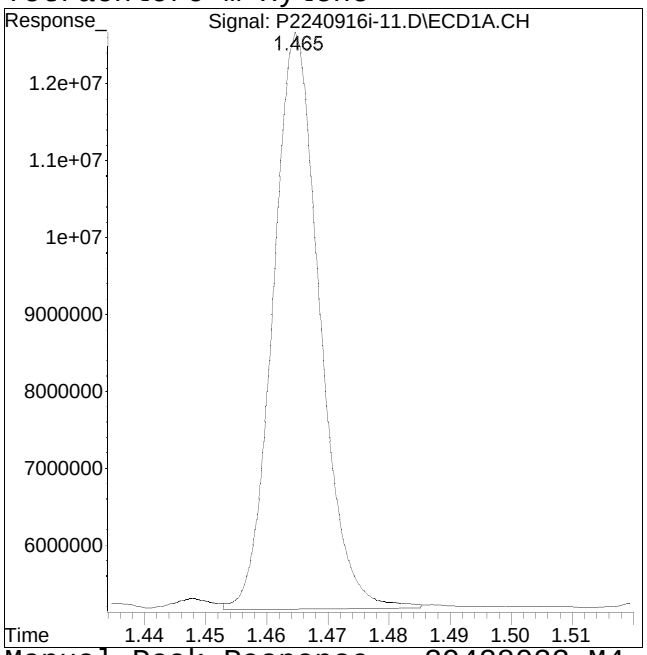


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



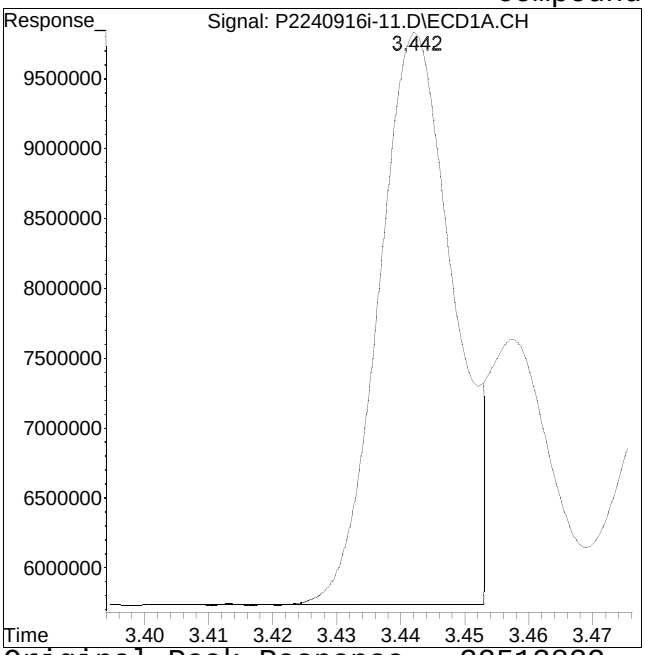


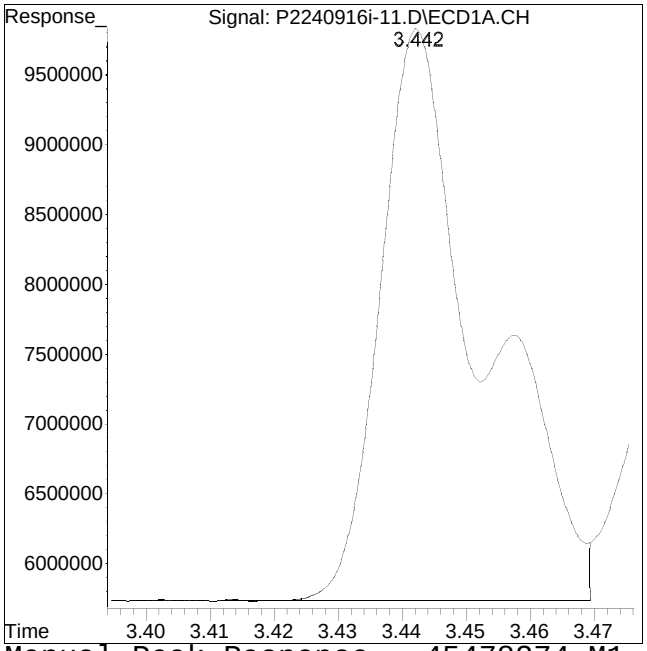
Original Peak Response = 40507448 Manual Peak Response = 39428033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #13: 1260-5





Original Peak Response = 32513832 Manual Peak Response = 45478274 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.253	210.7E6	240.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	76441607	96600800	6.292	5.904
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.26%#	1.18%#
3) s	Decachlorobi	4.027	4.544	119.4E6	128.5E6	11.710	11.107
	Spiked Amount 500.000	Range 30 - 150		Recovery =		2.34%#	2.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.824	22017271	28864311	92.028	91.929
5) l1	1016-2	1.743	1.994	47238846	64270248	89.804	95.644
6) l1	1016-3	1.931	2.195	95325099	123.2E6	95.495	91.422
7) l1	1016-4	1.985	2.255	38810588	49683299	91.030	90.850
8) l1	1016-5	2.155	2.465	42584511	42071374	88.703	97.915
	Sum 1016-1			246.0E6	308.1E6	457.061	467.760
	Average 1016-1					91.412	93.552
9) l2	1260-1	2.696	3.073	61018752	75472461	93.824	87.748
10) l2	1260-2	2.826	3.175	93199351	89344045	94.559	88.104
11) l2	1260-3	3.141	3.566	57022126	75028500	97.976	91.074
12) l2	1260-4	3.296	3.695	123.5E6	145.4E6	96.592M4	91.595
13) l2	1260-5	3.444	3.896	87596965	107.9E6	94.622M1	95.246
	Sum 1260-1			422.3E6	493.2E6	NoCal	NoCal D
	Average 1260-1					95.514	90.753
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

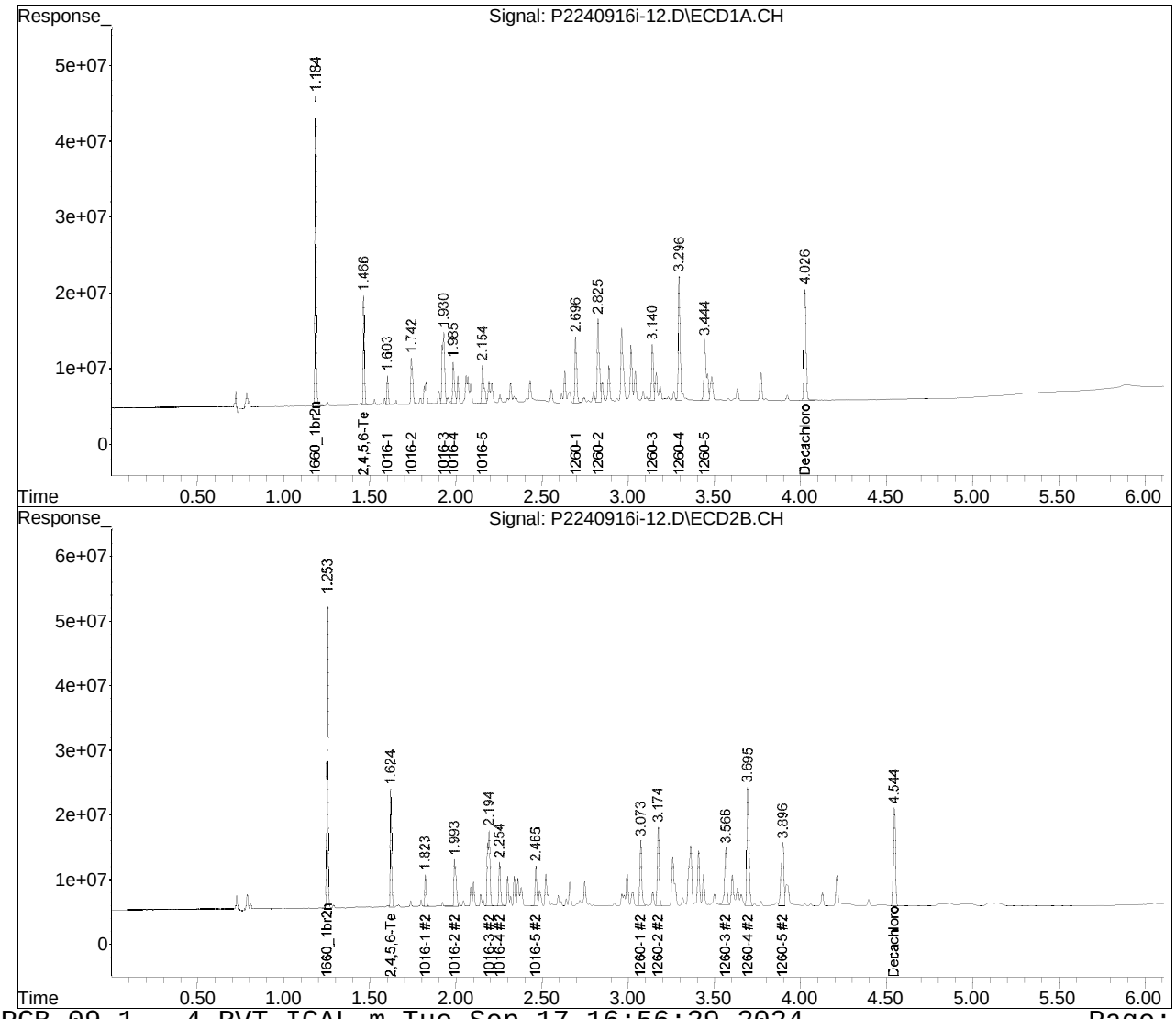
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

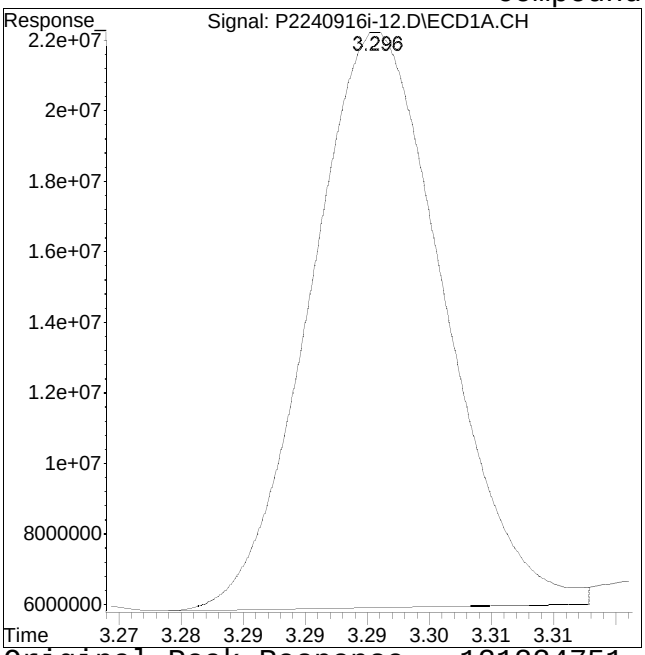
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

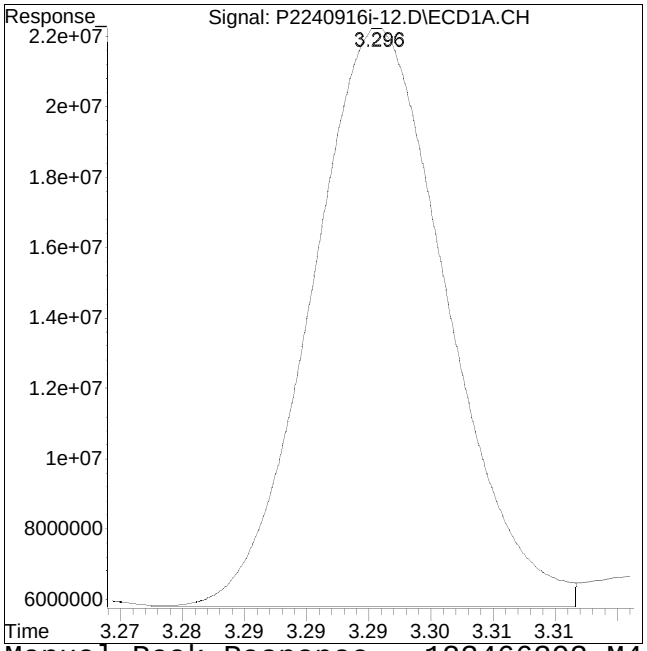


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #12: 1260-4



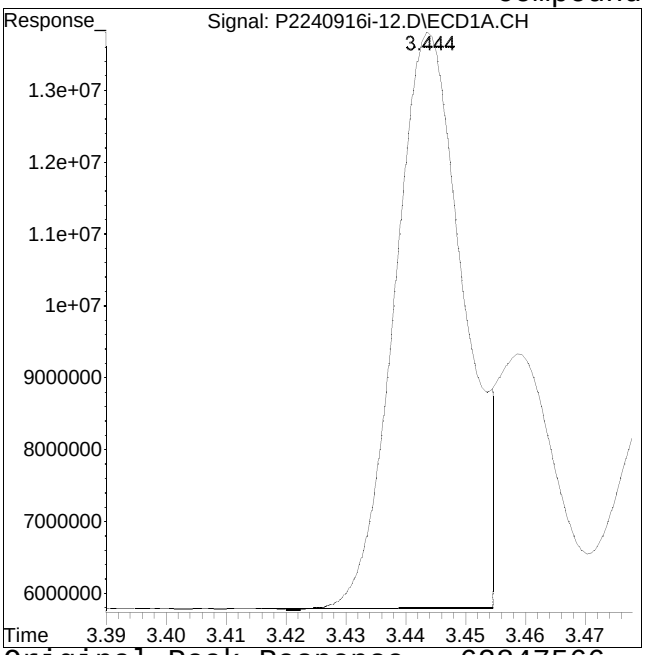


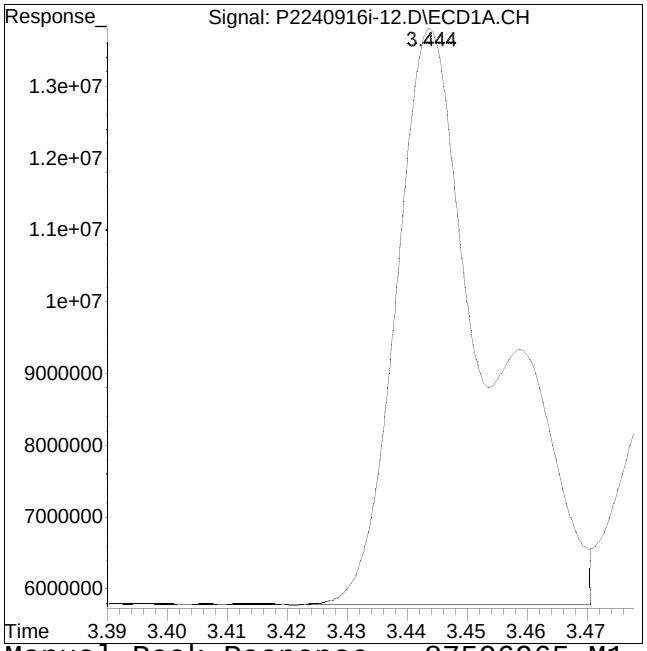
Original Peak Response = 121224751 Manual Peak Response = 123466393 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #13: 1260-5





Original Peak Response = 62847566 Manual Peak Response = 87596965 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	209.4E6	247.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	198.1E6	243.7E6	16.440	14.662
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.29%#	2.93%#
3) s	Decachlorobi	4.026	4.544	289.5E6	295.4E6	28.907	25.336
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.78%#	5.07%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	53816714	66436867	228.892	208.375
5) l1	1016-2	1.742	1.994	114.9E6	146.9E6	222.931	214.174
6) l1	1016-3	1.929	2.194	242.2E6	290.9E6	245.615	212.759
7) l1	1016-4	1.984	2.254	101.9E6	116.8E6	243.501	210.701
8) l1	1016-5	2.153	2.465	107.4E6	96028481	228.639	218.205
Sum	1016-1			620.1E6	717.1E6	1169.577	1064.213
Average	1016-1					233.915	212.843
9) l2	1260-1	2.695	3.073	148.2E6	178.2E6	231.225	205.306
10) l2	1260-2	2.825	3.175	225.8E6	210.2E6	232.254	205.300
11) l2	1260-3	3.140	3.566	143.7E6	171.1E6	249.056	204.767
12) l2	1260-4	3.295	3.696	314.4E6	344.3E6	248.663	213.721
13) l2	1260-5	3.443	3.897	218.3E6	240.1E6	239.061	207.625
Sum	1260-1			1050.4E6	1143.9E6	NoCal	NoCal D
Average	1260-1					240.052	207.344
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

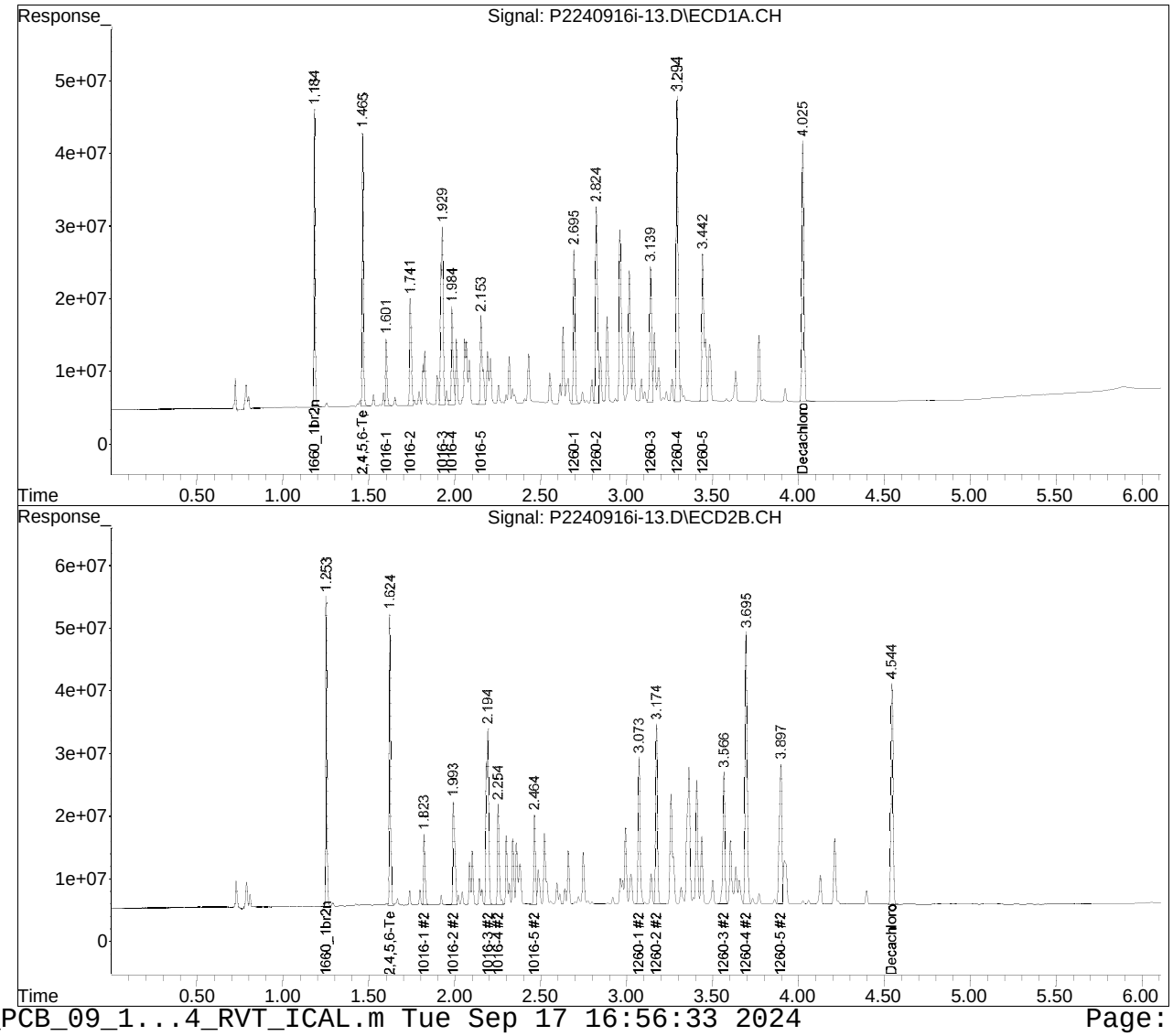
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-13.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 4:30 pm	Instrument	: Pest 2
Sample	: il81660,42,,pp11790 250PPB	Quant Date	: 9/16/2024 4:56 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	206.3E6	240.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	394.6E6	479.5E6	33.136	29.939
Spiked Amount	500.000	Range 30 - 150		Recovery =		6.63%#	5.99%#
3) s	Decachlorobi	4.028	4.546	556.8E6	565.3E6	57.126	51.121
Spiked Amount	500.000	Range 30 - 150		Recovery =		11.43%#	10.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	102.8E6	122.9E6	448.557	404.315
5) l1	1016-2	1.743	1.994	219.3E6	268.6E6	437.984	409.461
6) l1	1016-3	1.930	2.195	477.4E6	547.7E6	492.570	419.329
7) l1	1016-4	1.985	2.255	196.6E6	217.3E6	478.609	410.689
8) l1	1016-5	2.155	2.465	206.7E6	173.8E6	451.741	412.201
Sum	1016-1			1202.8E6	1330.4E6	2309.461	2055.995
Average	1016-1					461.892	411.199
9) l2	1260-1	2.696	3.074	290.4E6	332.2E6	464.353	402.053
10) l2	1260-2	2.826	3.176	442.3E6	394.0E6	466.004	404.192
11) l2	1260-3	3.141	3.567	279.4E6	325.4E6	491.884	409.295
12) l2	1260-4	3.297	3.696	615.3E6	665.2E6	494.292	432.005
13) l2	1260-5	3.444	3.898	426.7E6	461.7E6	476.947	418.995
Sum	1260-1			2054.1E6	2178.6E6	NoCal	NoCal D
Average	1260-1					478.696	413.308
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

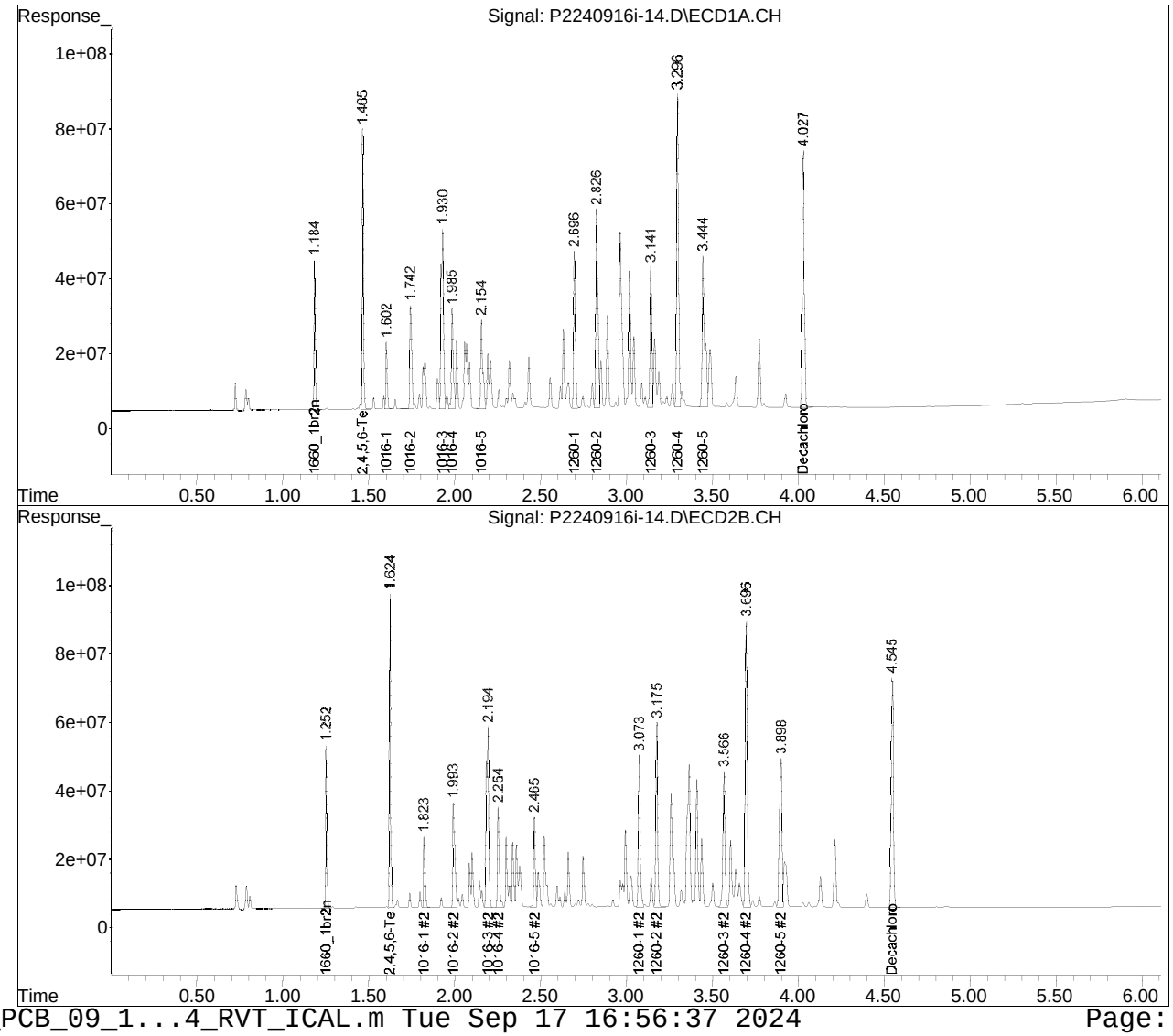
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-14.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 4:39 pm	Instrument	: Pest 2
Sample	: il91660,42,,pp11790 500PPB	Quant Date	: 9/16/2024 4:58 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	213.9E6	249.2E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	804.8E6	964.9E6	64.917	58.578
Spiked Amount	500.000	Range 30 - 150		Recovery =		12.98%#	11.72%#
3) s	Decachlorobi	4.027	4.545	1134.0E6	1148.2E6	113.551	102.519
Spiked Amount	500.000	Range 30 - 150		Recovery =		22.71%#	20.50%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	200.2E6	235.5E6	852.356	764.041
5) l1	1016-2	1.742	1.994	431.5E6	519.6E6	842.627M3	780.292
6) l1	1016-3	1.930	2.194	958.5E6	1090.3E6	955.450	820.441
7) l1	1016-4	1.984	2.254	392.5E6	428.8E6	925.916	797.902
8) l1	1016-5	2.154	2.465	410.0E6	345.4E6	873.459	806.498
Sum	1016-1			2392.8E6	2619.6E6	4449.807	3969.173
Average	1016-1					889.961	793.835
9) l2	1260-1	2.695	3.073	588.5E6	655.9E6	914.891	783.269
10) l2	1260-2	2.825	3.175	898.4E6	783.6E6	919.719	792.833
11) l2	1260-3	3.140	3.566	575.2E6	648.6E6	978.288	803.666
12) l2	1260-4	3.296	3.696	1278.5E6	1348.5E6	991.785	858.288
13) l2	1260-5	3.443	3.897	893.2E6	933.2E6	967.764M1	832.359
Sum	1260-1			4233.8E6	4369.8E6	NoCal	NoCal D
Average	1260-1					954.489	814.083
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

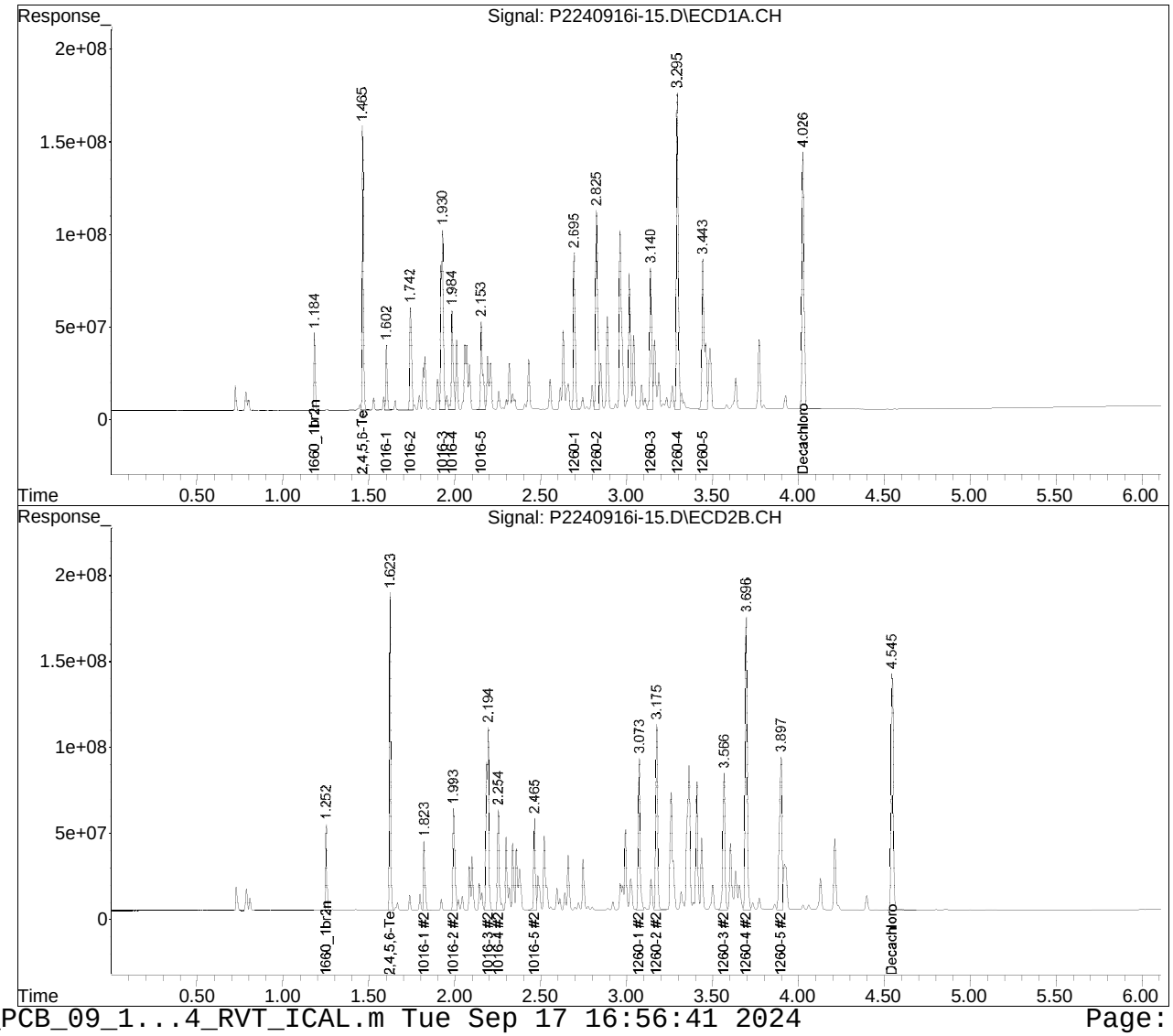
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

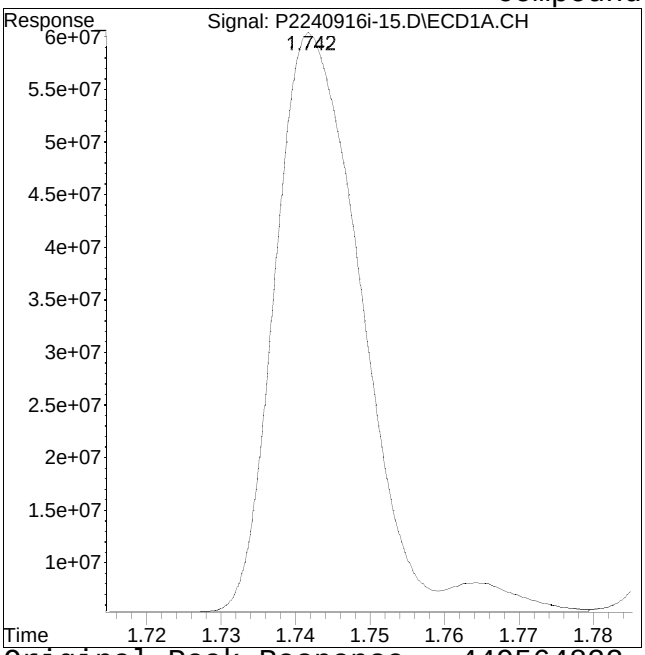
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

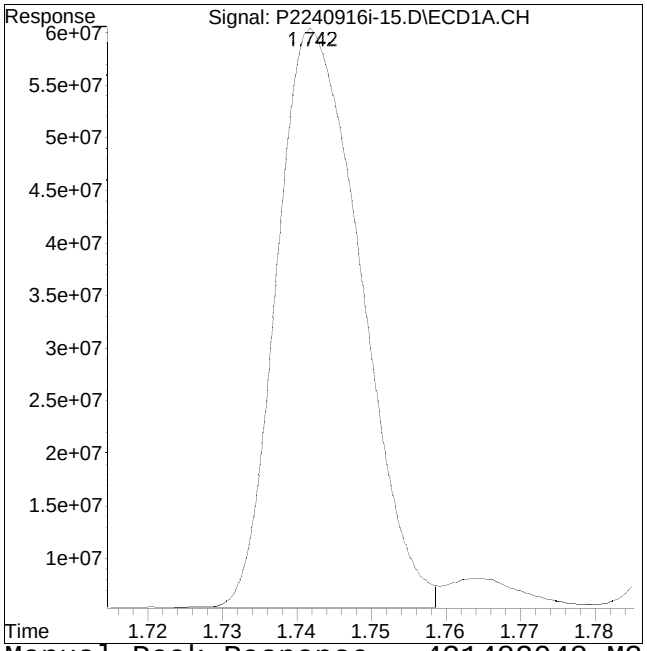


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #5: 1016-2



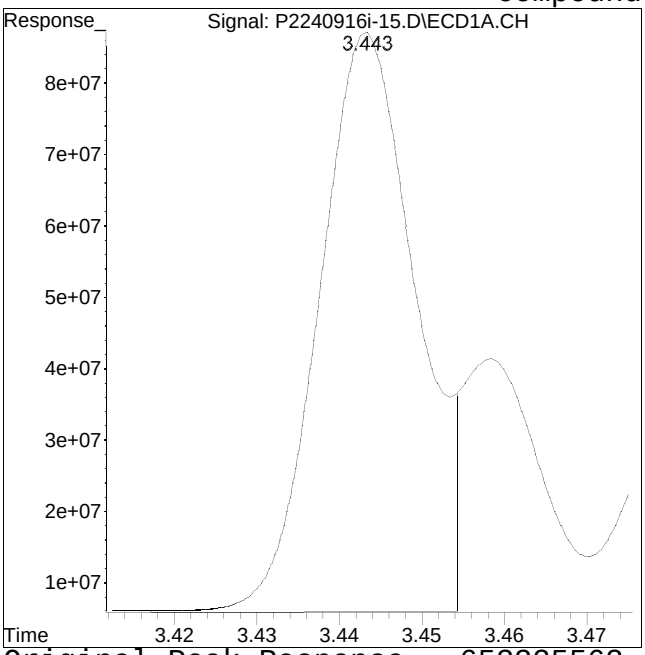


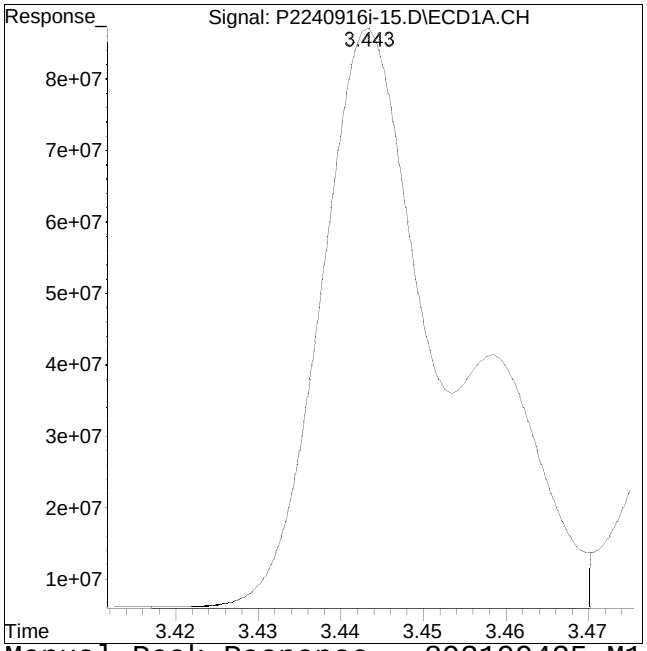
Original Peak Response = 449564822 Manual Peak Response = 431482048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #13: 1260-5





Original Peak Response = 653325563 Manual Peak Response = 893199425 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.427	1.7	96	0.00
3	s	Decachlorobiphenyl		1.154	1.071	7.2	98	0.00
4	l1	1016-1		0.027	0.024	11.1	94	0.00
5	l1	1016-2		0.059	0.057	3.4	103	0.00
6	l1	1016-3		0.117	0.120	-2.6	103	0.00
7	l1	1016-4		0.049	0.050	-2.0	102	0.00
8	l1	1016-5		0.054	0.050	7.4	97	0.00
9	l2	1260-1		0.075	0.075	0.0	105	0.00
10	l2	1260-2		0.113	0.118	-4.4	108	0.00
11	l2	1260-3		0.069	0.063	8.7	90	0.00
12	l2	1260-4		0.151	0.135	10.6	89	0.00
13	l2	1260-5		0.108	0.099	8.3	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.471	10.2	93	0.00
3	s	Decachlorobiphenyl		1.101	0.971	11.8	102	0.00
4	l1	1016-1		0.030	0.026	13.3	96	0.00
5	l1	1016-2		0.065	0.062	4.6	103	0.00
6	l1	1016-3		0.131	0.125	4.6	104	0.00
7	l1	1016-4		0.053	0.050	5.7	104	0.00
8	l1	1016-5		0.042	0.040	4.8	101	0.00
9	l2	1260-1		0.082	0.080	2.4	109	0.00
10	l2	1260-2		0.097	0.090	7.2	103	0.00
11	l2	1260-3		0.079	0.067	15.2	95	0.00
12	l2	1260-4		0.155	0.131	15.5	92	0.00
13	l2	1260-5		0.111	0.097	12.6	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
Evaluate Continuing Calibration Report - Not Founds								
14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.18#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.18#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3		0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4		0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5		0.467	0.000	100.0#	0#	-3.92#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.18#
35	l7	1248-1		0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2		0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3		0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5		0.056	0.000	100.0#	0#	-2.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.19#
41	l5	1232-1		0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2		0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3		0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4		0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5		0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1		0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2		0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4		0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5		0.059	0.000	100.0#	0#	-3.77#

Signal #2

14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.25#
15	l3	1221-1		0.017	0.000	100.0#	0#	-1.74#
16	l3	1221-2		0.011	0.000	100.0#	0#	-1.80#
17	l3	1221-3		0.040	0.000	100.0#	0#	-1.82#
18	l4	1254-1		0.062	0.000	100.0#	0#	-2.66#
19	l4	1254-2		0.073	0.000	100.0#	0#	-2.75#
20	l4	1254-3		0.109	0.000	100.0#	0#	-2.98#
21	l4	1254-4		0.073	0.000	100.0#	0#	-3.09#
22	l4	1254-5		0.101	0.000	100.0#	0#	-3.36#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.25#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.82#
25	l6	1242-2		0.048	0.000	100.0#	0#	-1.99#
26	l6	1242-3		0.095	0.000	100.0#	0#	-2.19#
27	l6	1242-4		0.039	0.000	100.0#	0#	-2.25#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	l6	1242-5		0.031	0.000	100.0#	0#	-2.64#
29	l9	1268-1		0.190	0.000	100.0#	0#	-3.89#
30	l9	1268-2		0.169	0.000	100.0#	0#	-3.92#
31	l9	1268-3		0.141	0.000	100.0#	0#	-4.06#
32	l9	1268-4		0.062	0.000	100.0#	0#	-4.21#
33	l9	1268-5		0.399	0.000	100.0#	0#	-4.40#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.25#
35	l7	1248-1		0.062	0.000	100.0#	0#	-2.19#
36	l7	1248-2		0.043	0.000	100.0#	0#	-2.34#
37	l7	1248-3		0.053	0.000	100.0#	0#	-2.47#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.64#
39	l7	1248-5		0.067	0.000	100.0#	0#	-2.66#
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.25#
41	l5	1232-1		0.030	0.000	100.0#	0#	-1.82#
42	l5	1232-2		0.031	0.000	100.0#	0#	-1.99#
43	l5	1232-3		0.060	0.000	100.0#	0#	-2.20#
44	l5	1232-4		0.024	0.000	100.0#	0#	-2.26#
45	l5	1232-5		0.018	0.000	100.0#	0#	-2.64#
46	l8	1262-1		0.073	0.000	100.0#	0#	-3.18#
47	l8	1262-2		0.101	0.000	100.0#	0#	-3.41#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.57#
49	l8	1262-4		0.174	0.000	100.0#	0#	-3.70#
50	l8	1262-5		0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	207.5E6	241.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	189.5E6	227.7E6	15.734	14.369
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.15%#	2.87%#
3) s	Decachlorobi	4.026	4.546	284.6E6	300.6E6	29.709	28.227
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.94%#	5.65%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	50606294	63958975	225.388	219.107
5) l1	1016-2	1.742	1.994	118.2E6	150.6E6	241.846	238.413
6) l1	1016-3	1.930	2.195	249.4E6	302.5E6	257.436	238.973
7) l1	1016-4	1.985	2.254	103.5E6	121.2E6	253.545	237.312M3
8) l1	1016-5	2.154	2.465	104.7E6	96973955	232.767	238.013
	Sum 1016-1			626.4E6	735.3E6	1210.982	1171.817
Average	1016-1					242.196	234.363
9) l2	1260-1	2.695	3.073	155.4E6	194.0E6	251.189	244.146
10) l2	1260-2	2.825	3.175	244.6E6	217.1E6	260.221	231.239
11) l2	1260-3	3.140	3.566	130.0E6	163.2E6	228.428	212.615
12) l2	1260-4	3.295	3.696	280.0E6	317.0E6	224.090	210.968
13) l2	1260-5	3.443	3.898	204.9E6	234.4E6	229.547	219.185
	Sum 1260-1			1014.9E6	1125.7E6	NoCal	NoCal D
Average	1260-1					238.695	223.631
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

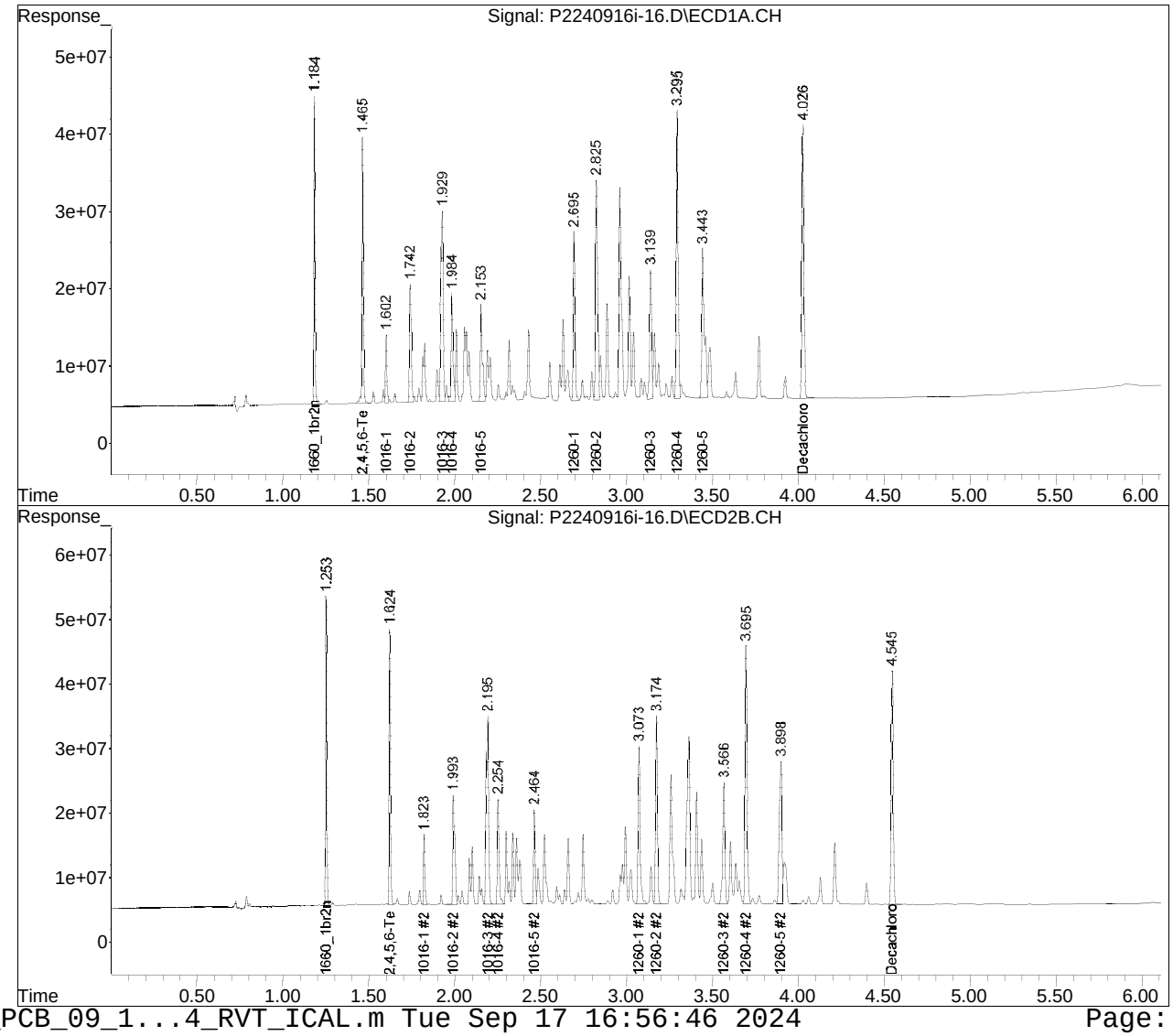
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

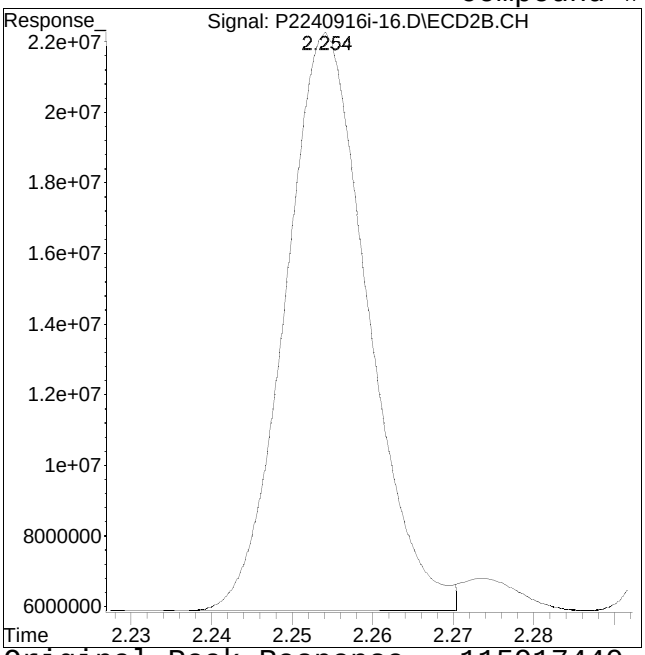
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

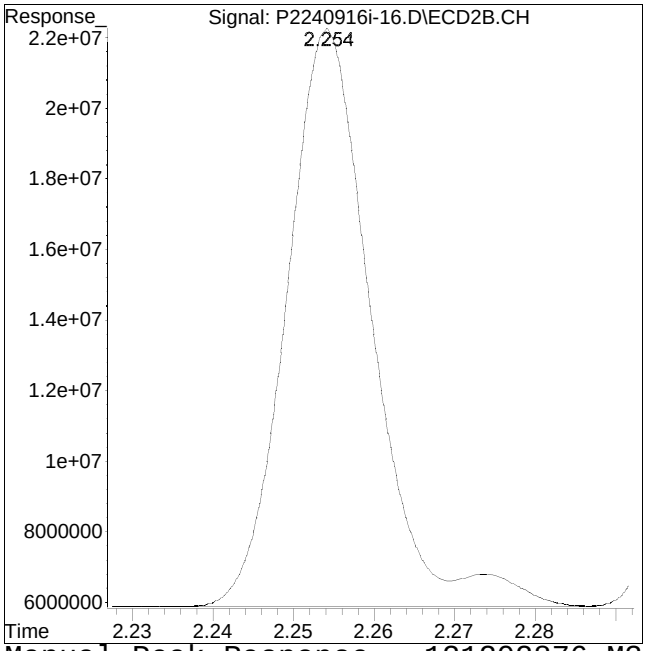


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-16.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:56 pm Instrument : Pest 2
Sample : cicv1660,42,, ICV 250 pp11Quant Date : 9/16/2024 5:05 pm

Compound #58: 1016-4 #2





Original Peak Response = 115917440 Manual Peak Response = 121202876 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.185	1.253	215.5E6	246.9E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	1.528	1.738	32214968	43006075	250.084	214.878
16) l3	1221-2	1.586	1.798	19872002	27225760	236.799	241.463

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.603	1.824	79473918	98685926	232.143	231.833
Sum	1221-1			131.6E6	168.9E6	719.026	688.175
Average	1221-1					239.675	229.392
18) l4	1254-1	2.318	2.662	113.1E6	153.6E6	251.864	235.750
19) l4	1254-2	2.430	2.749	201.2E6	180.1E6	266.589	243.450
20) l4	1254-3	2.613	2.978	218.2E6	267.9E6	240.465	225.681
21) l4	1254-4	2.743	3.089	153.9E6	179.0E6	240.276	215.193
22) l4	1254-5	2.964	3.364	212.7E6	248.8E6	235.784	244.611
Sum	1254-1			899.2E6	1029.3E6	NoCal	NoCal D
Average	1254-1					246.995	232.937
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

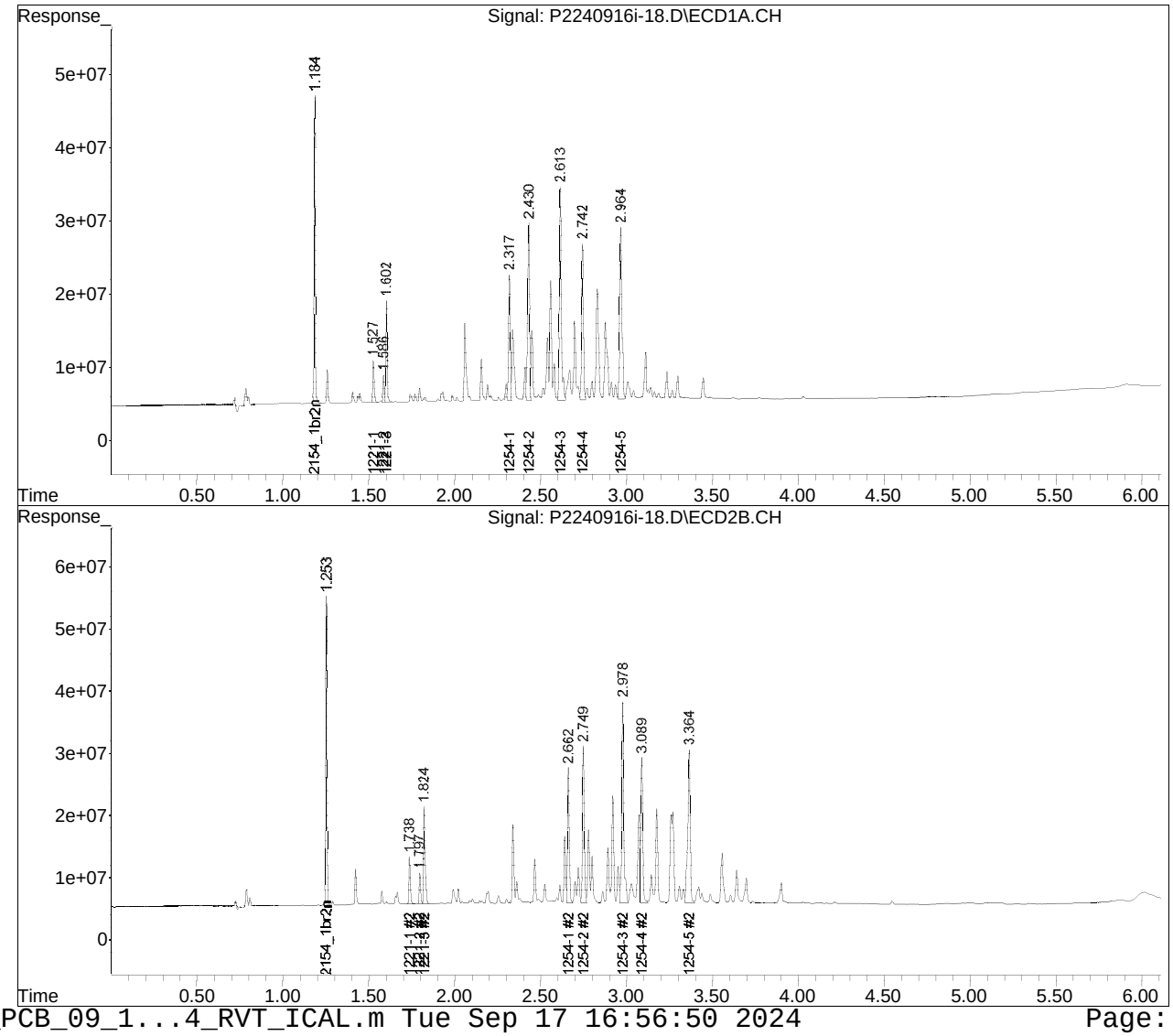
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

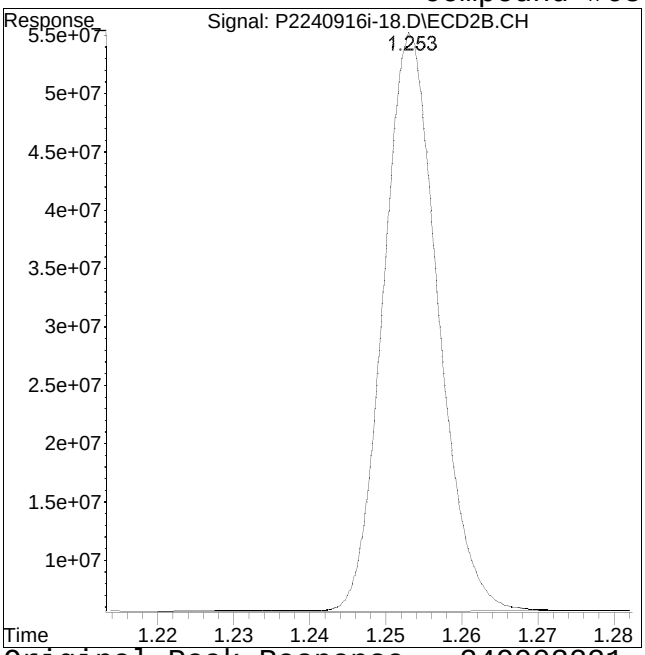
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

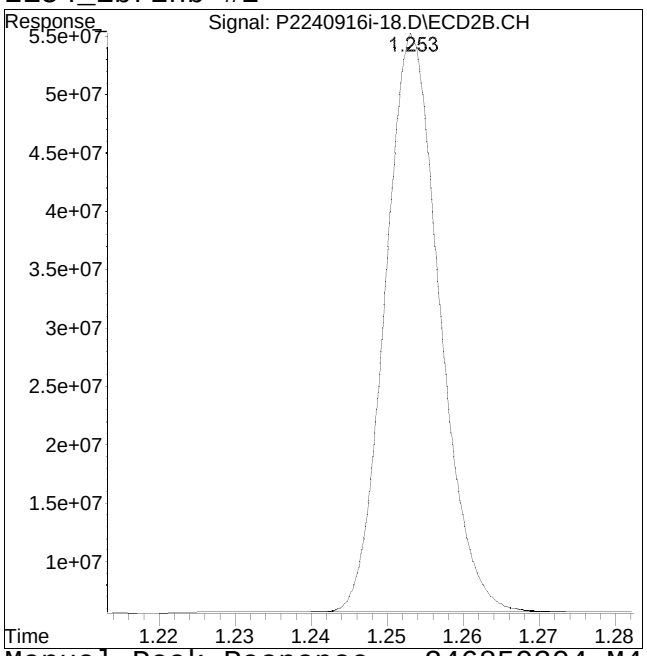


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-18.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:14 pm Instrument : Pest 2
Sample : il82154,42,, 250 pp11766 Quant Date : 9/17/2024 10:46 am

Compound #65: 2154_1br2nb #2





Original Peak Response = 249903221 Manual Peak Response = 246850304 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.185	1.253	207.0E6	246.7E6	25.000	25.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.927	2.186	124.4E6	154.0E6	244.542	251.173
36) l7	1248-2	2.059	2.339	162.4E6	105.4E6	252.084M3	255.629
37) l7	1248-3	2.155	2.465	145.3E6	130.2E6	251.859	241.978
38) l7	1248-4	2.336	2.640	123.3E6	146.9E6	243.705M3	248.148

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.349	2.664	114.9E6	164.9E6	243.648M3	248.334
Sum	1248-1			670.3E6	701.4E6	NoCal	NoCal D
Average	1248-1					247.167	249.052
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

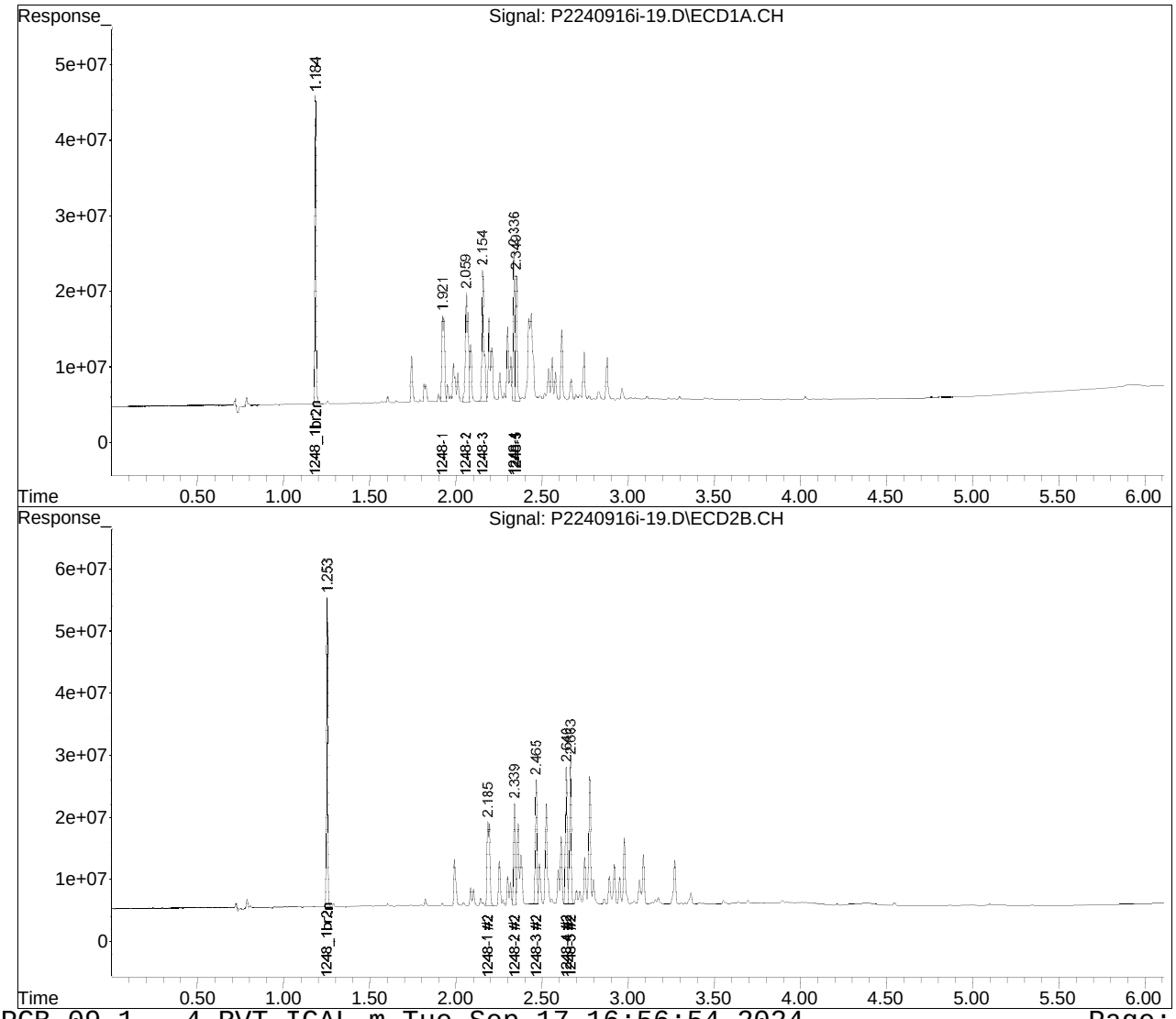
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

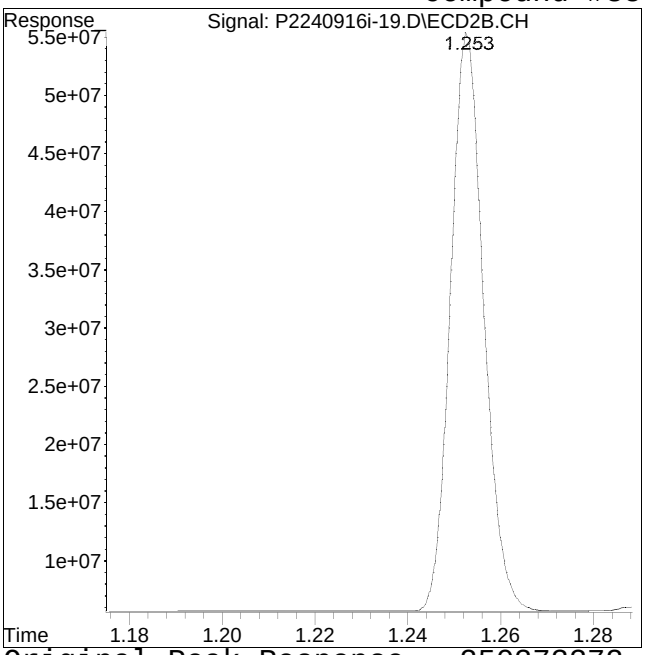
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

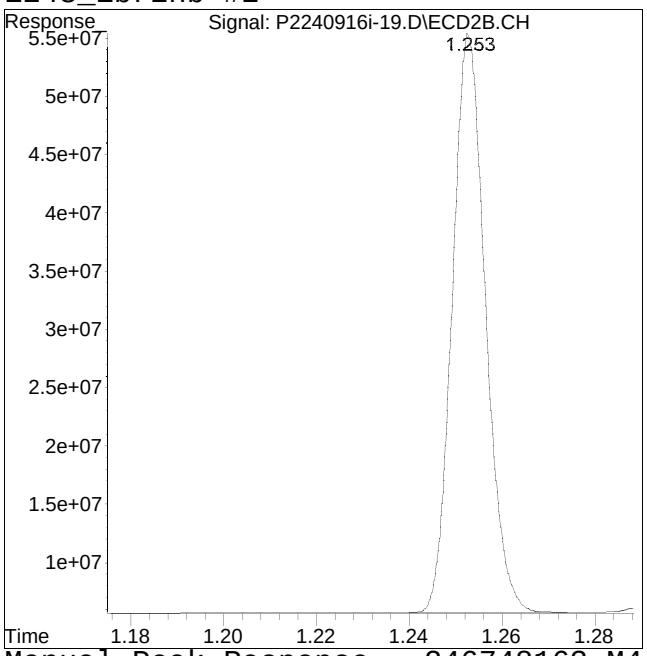


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #85: 1248_1br2nb #2



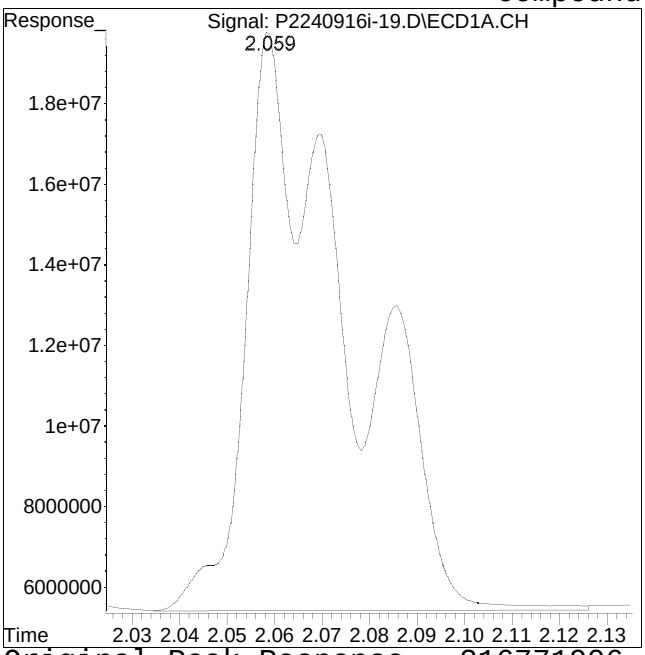


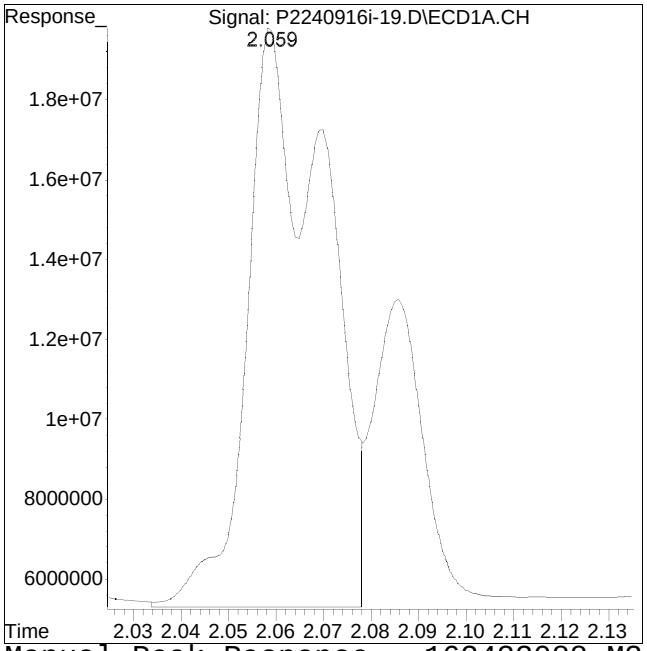
Original Peak Response = 250373372 Manual Peak Response = 246748163 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #36: 1248-2



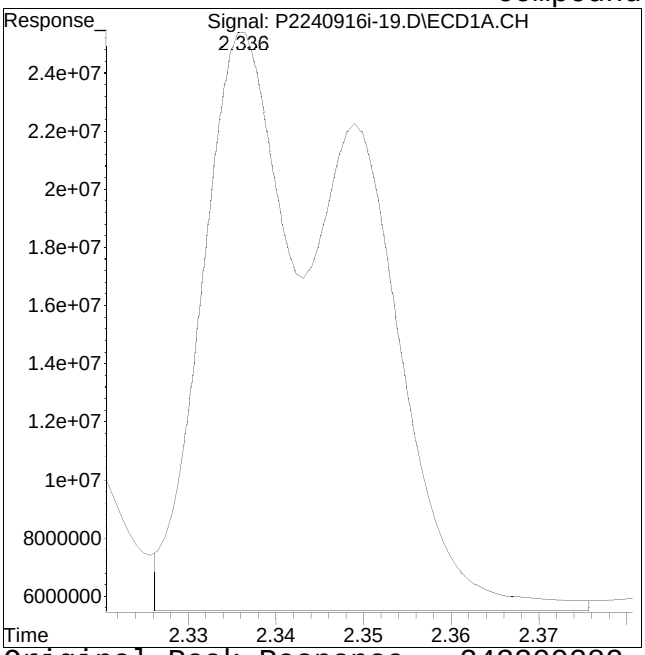


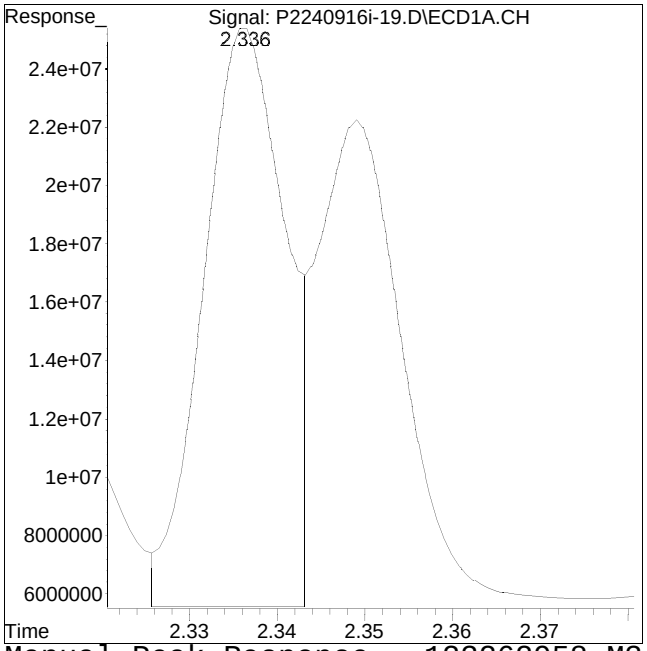
Original Peak Response = 216771906 Manual Peak Response = 162433088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #38: 1248-4



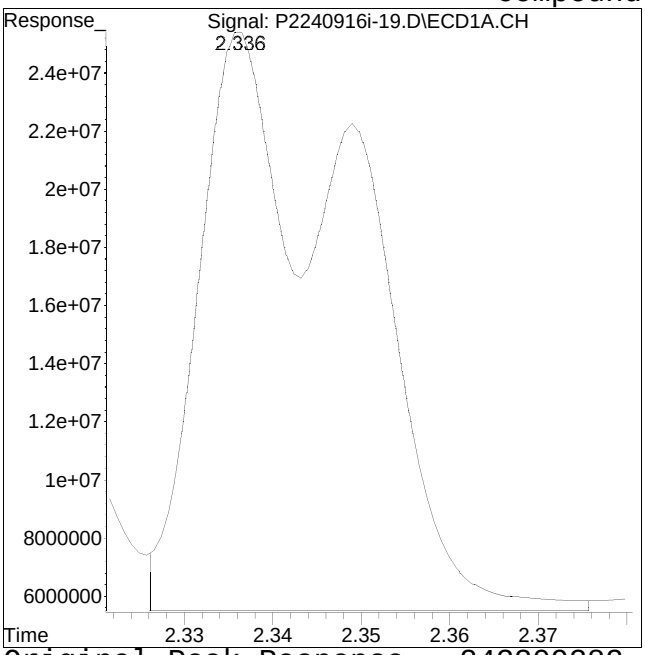


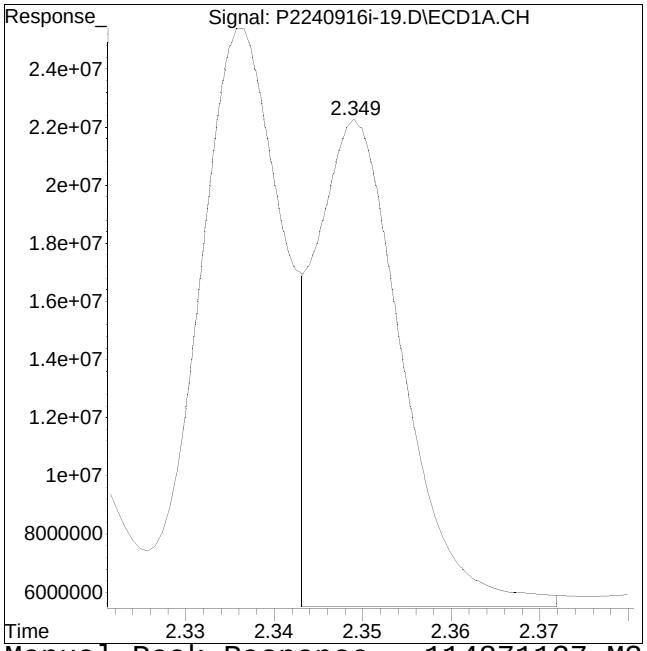
Original Peak Response = 243309382 Manual Peak Response = 123262958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #39: 1248-5





Original Peak Response = 243309382 Manual Peak Response = 114871137 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.185	1.254	209.0E6	243.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	60291065	72344592	250.000	250.000
42) l5	1232-2	1.743	1.994	55810869	76163797	225.715	247.951
43) l5	1232-3	1.931	2.195	115.7E6	145.2E6	242.627	240.522
44) l5	1232-4	1.986	2.255	47966543	58938339	223.978	236.986
45) l5	1232-5	2.337	2.640	34955113	43285797	250.000	250.000
Sum	1232-1			314.7E6	395.9E6	1192.320	1225.460
Average	1232-1					238.464	245.092
46) l8	1262-1	2.826	3.175	173.5E6	177.8E6	250.000	250.000
47) l8	1262-2	3.017	3.409	218.9E6	245.2E6	250.000	250.000
48) l8	1262-3	3.141	3.567	190.3E6	221.6E6	250.000	250.000
49) l8	1262-4	3.296	3.696	386.4E6	424.3E6	250.000	250.000
50) l8	1262-5	3.770	4.212	123.6E6	150.7E6	250.000	250.000
Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

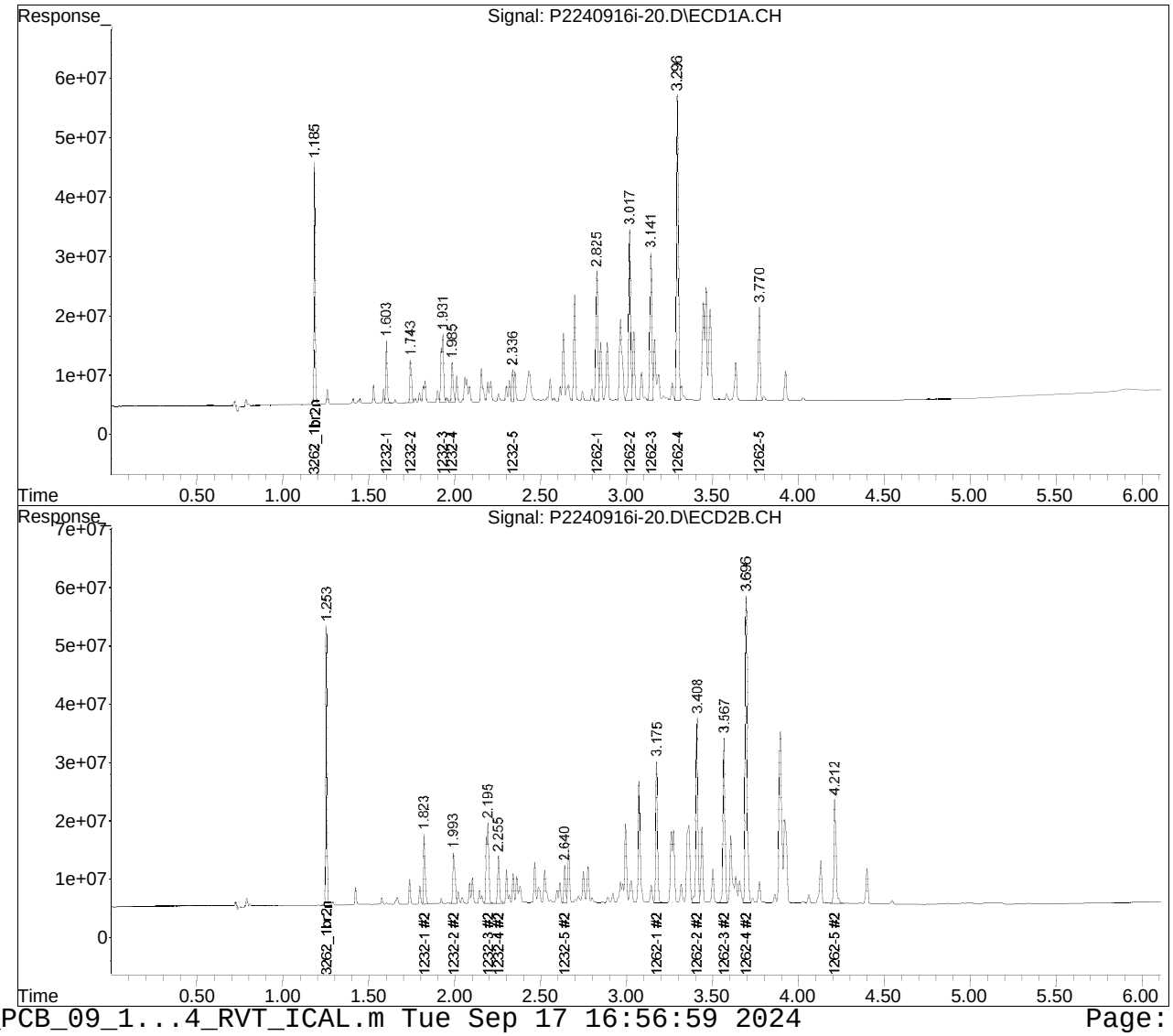
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-20.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:32 pm	Instrument	: Pest 2
Sample	: il83262,42,, 250 pp11768	Quant Date	: 9/17/2024 11:02 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.185	1.254	203.5E6	250.0E6	25.000	25.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Sum	1221-1			0	0	N.D.	N.D.	
Average	1221-1					0.000	0.000	
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d	
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d	
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d	
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d	
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1254-1			0	0	N.D.	N.D.	
Average	1254-1					0.000	0.000	
24) l6	1242-1	1.603	1.824	42935320	52847778	191.580	237.473	
25) l6	1242-2	1.743	1.994	93917968	119.7E6	220.107	235.971	
26) l6	1242-3	1.930	2.195	195.1E6	237.8E6	242.153	242.904	
27) l6	1242-4	1.985	2.255	82159676	96723683	233.398	243.823	
28) l6	1242-5	2.336	2.640	65305903	78224584	301.933	224.393	
Sum	1242-1			479.4E6	585.3E6	1189.172	1184.563	
Average	1242-1					237.834	236.913	
29) l9	1268-1	3.459	3.892	424.3E6	475.8E6	247.758	243.028	
30) l9	1268-2	3.480	3.918	384.0E6	423.1E6	224.334	237.127	
31) l9	1268-3	3.582	4.060	312.6E6	351.7E6	238.816	237.498	
32) l9	1268-4	3.769	4.212	136.6E6	154.0E6	263.636	222.601	
33) l9	1268-5	3.923	4.397	950.3E6	998.3E6	238.312	239.513	
Sum	1268-1			2207.8E6	2402.8E6	N.D.	N.D.	D
Average	1268-1					242.571	235.953	
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

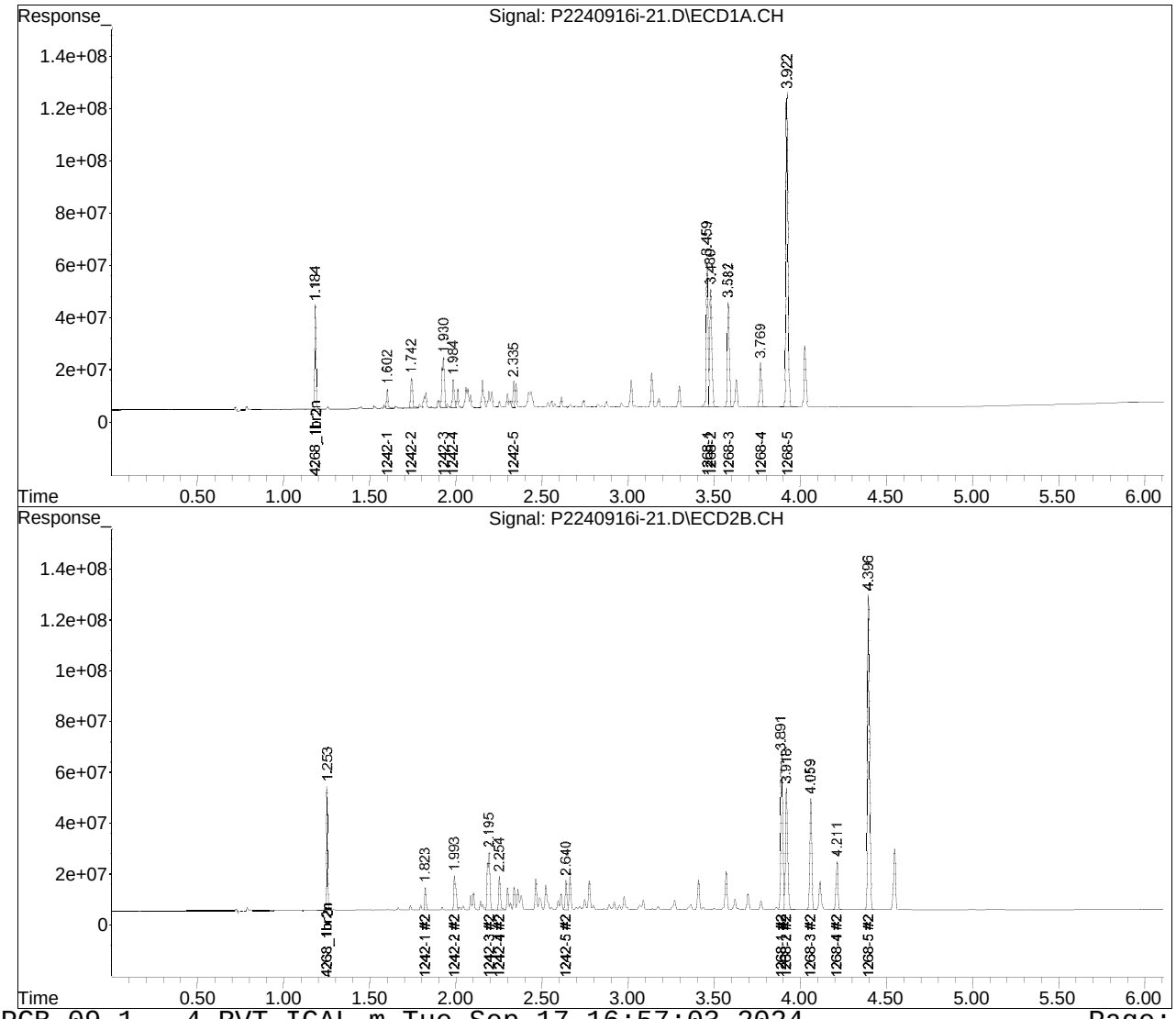
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-21.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:41 pm	Instrument	: Pest 2
Sample	: il84268,42,, 250 pp11769	Quant Date	: 9/17/2024 11:01 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.393	4.0	94	0.00
3	s	Decachlorobiphenyl		1.154	1.066	7.6	99	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00
15	l3	1221-1		0.015	0.014	6.7	93	0.00
16	l3	1221-2		0.00922	0.00853	7.5	90	0.00
17	l3	1221-3		0.037	0.035	5.4	92	0.00
18	l4	1254-1		0.052	0.052	0.0	96	0.00
19	l4	1254-2		0.093	0.096	-3.2	100	0.00
20	l4	1254-3		0.101	0.102	-1.0	98	0.00
21	l4	1254-4		0.071	0.071	0.0	97	0.00
22	l4	1254-5		0.099	0.092	7.1	91	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.457	11.1	94	0.00
3	s	Decachlorobiphenyl		1.101	0.945	14.2	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	100	0.00
15	l3	1221-1		0.017	0.016	5.9	92	0.00
16	l3	1221-2		0.011	0.010	9.1	94	0.00
17	l3	1221-3		0.040	0.037	7.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.062	0.061	1.6	97	0.00
19	l4	1254-2		0.073	0.068	6.8	94	0.00
20	l4	1254-3		0.109	0.104	4.6	96	0.00
21	l4	1254-4		0.073	0.070	4.1	96	0.00
22	l4	1254-5		0.101	0.090	10.9	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2	1260-5	0.111	0.000	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	186.5E6	230.1E6	15.364	14.228
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.07%#	2.85%#
3) s	Decachlorobi	4.027	4.545	285.5E6	298.7E6	29.570	27.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.91%#	5.50%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	1.527	1.738	29919584	39651692	239.214	230.534
16) l3	1221-2	1.586	1.797	17855926	25596338	231.435	235.072M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.602	1.823	73306971	91388301	237.579M3	231.547M3
Sum	1221-1			121.1E6	156.6E6	708.228	697.154
Average	1221-1					236.076	232.385
18) l4	1254-1	2.318	2.662	108.9E6	149.4E6	247.864	243.242
19) l4	1254-2	2.430	2.749	200.3E6	169.0E6	256.414	234.706
20) l4	1254-3	2.613	2.978	213.8E6	256.9E6	252.422	239.769
21) l4	1254-4	2.742	3.089	149.0E6	172.1E6	249.375	240.436
22) l4	1254-5	2.964	3.364	192.7E6	222.6E6	233.391	223.792
Sum	1254-1			864.8E6	970.1E6	1239.466	1181.946
Average	1254-1					247.893	236.389
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

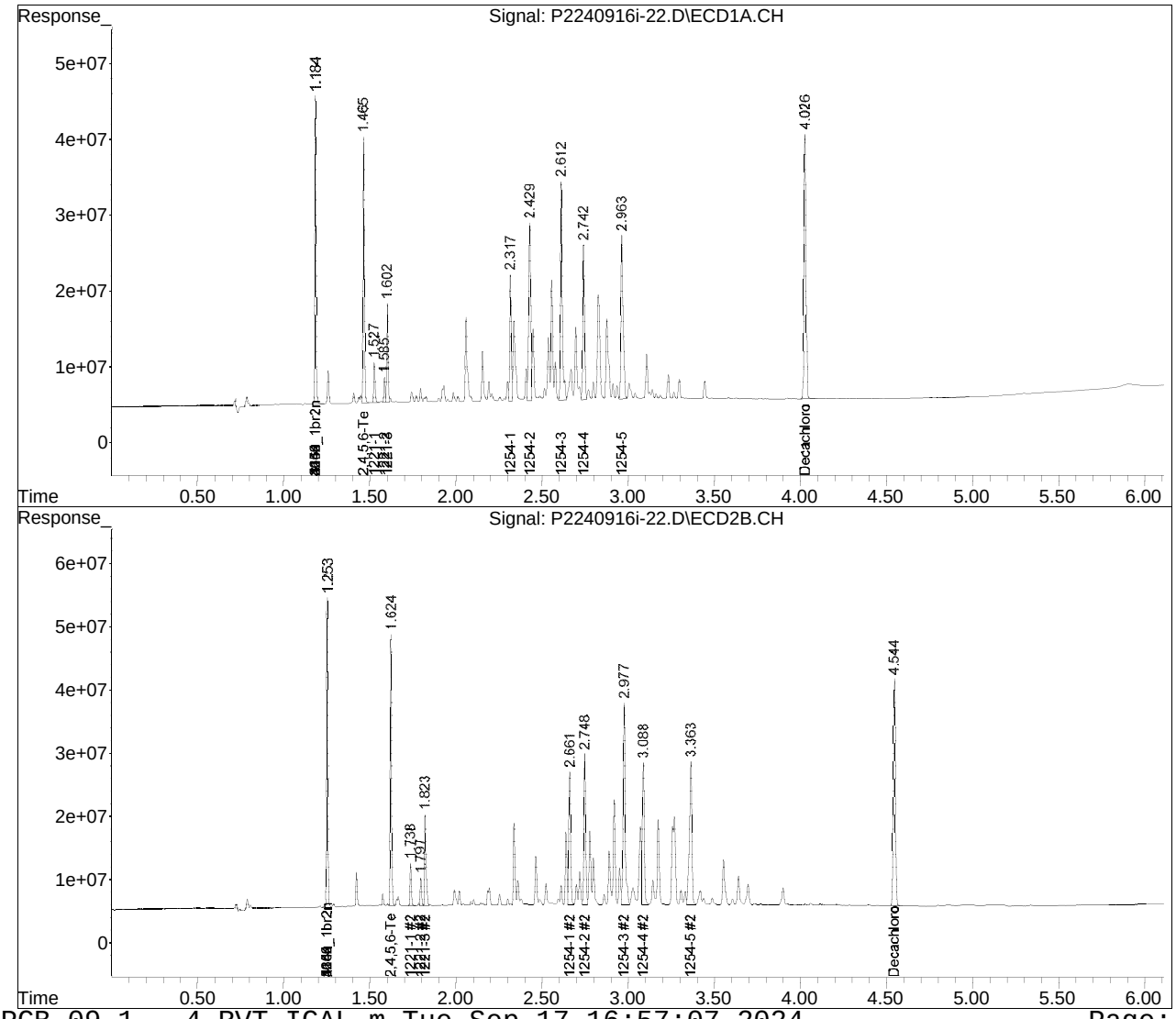
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

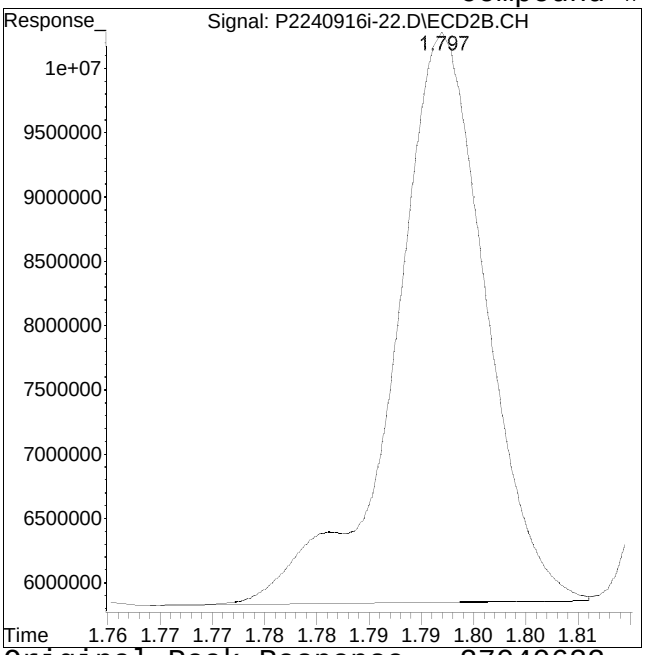
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

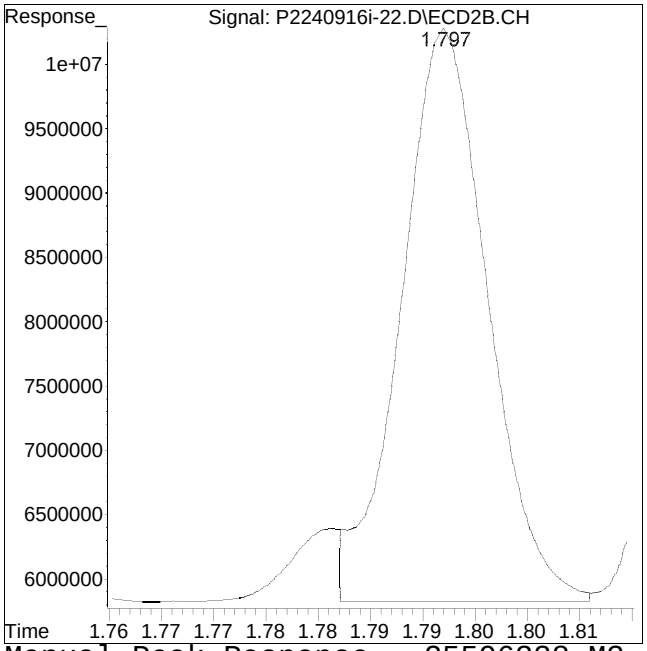


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #67: 1221-2 #2



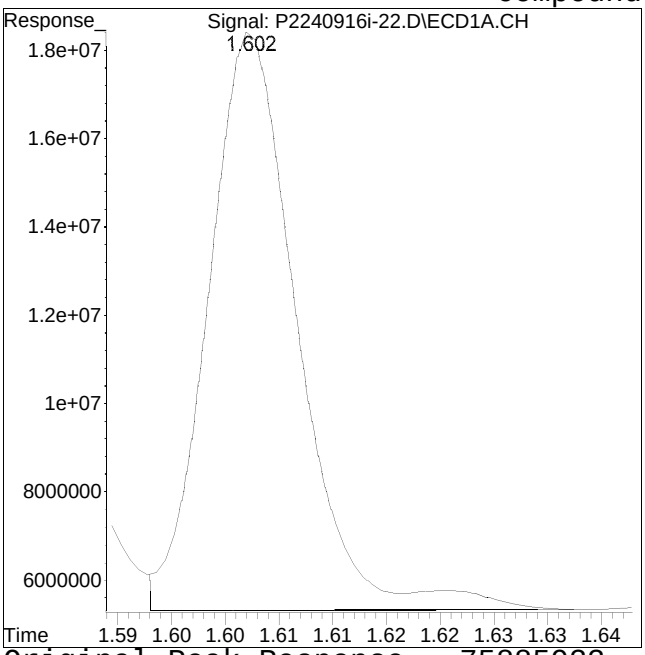


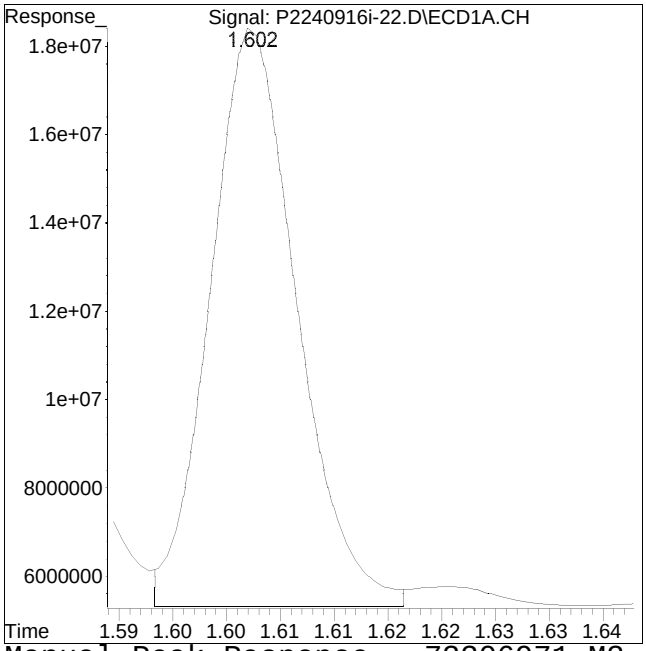
Original Peak Response = 27040632 Manual Peak Response = 25596338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #17: 1221-3



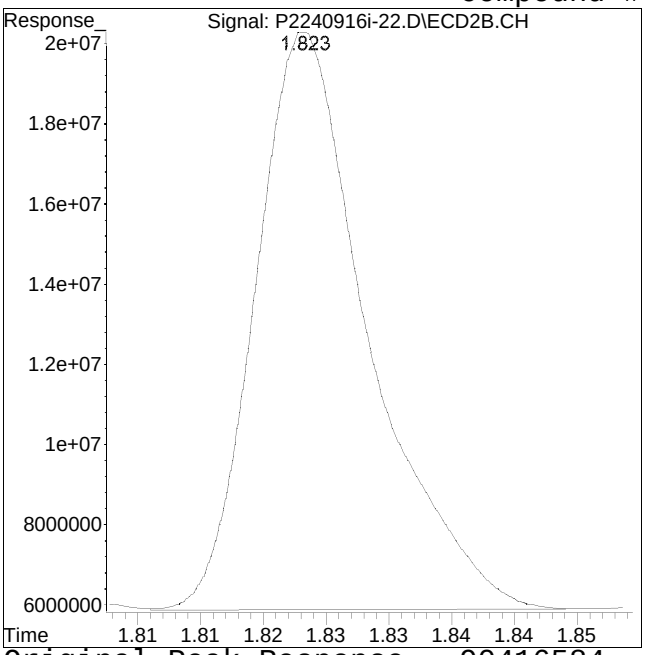


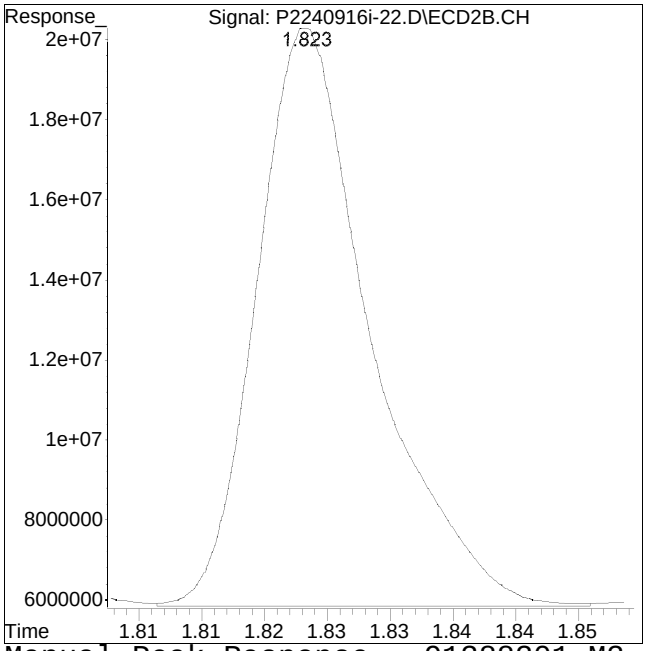
Original Peak Response = 75885933 Manual Peak Response = 73306971 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #68: 1221-3 #2





Original Peak Response = 90416584 Manual Peak Response = 91388301 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.663	-14.6	108	0.00
3	s	Decachlorobiphenyl		1.154	1.221	-5.8	108	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	93	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
35	l7	1248-1		0.060	0.070	-16.7	113	0.00
36	l7	1248-2		0.078	0.077	1.3	95	0.00
37	l7	1248-3		0.070	0.069	1.4	95	0.00
38	l7	1248-4		0.060	0.062	-3.3	100	0.00
39	l7	1248-5		0.056	0.061	-8.9	106	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.691	-3.2	108	0.00
3	s	Decachlorobiphenyl		1.101	1.088	1.2	114	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	98	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	98	0.00
35	l7	1248-1		0.062	0.074	-19.4	116	0.00
36	l7	1248-2		0.043	0.041	4.7	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.053	0.051	3.8	96	0.00
38	l7	1248-4		0.060	0.059	1.7	98	0.00
39	l7	1248-5		0.067	0.069	-3.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#
Signal #2							
4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15	l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16	l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17	l3	1221-3	0.040	0.000	100.0#	0#	-1.82#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	213.5E6	262.9E6	18.345	16.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.67%#	3.30%#
3) s	Decachlorobi	4.026	4.544	313.3E6	338.1E6	33.848	31.607
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.77%#	6.32%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.930	2.194	140.9E6	179.3E6	292.359	295.742
36) l7	1248-2	2.057	2.339	154.8E6	99401870	245.867M1	239.644
37) l7	1248-3	2.153	2.465	137.7E6	125.0E6	244.604	243.815
38) l7	1248-4	2.335	2.640	123.8E6	144.3E6	259.212	249.605
39) l7	1248-5	2.348	2.663	121.4E6	167.8E6	272.812	258.383

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			678.7E6	715.8E6	1314.855	1287.190
Average	1248-1					262.971	257.438
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

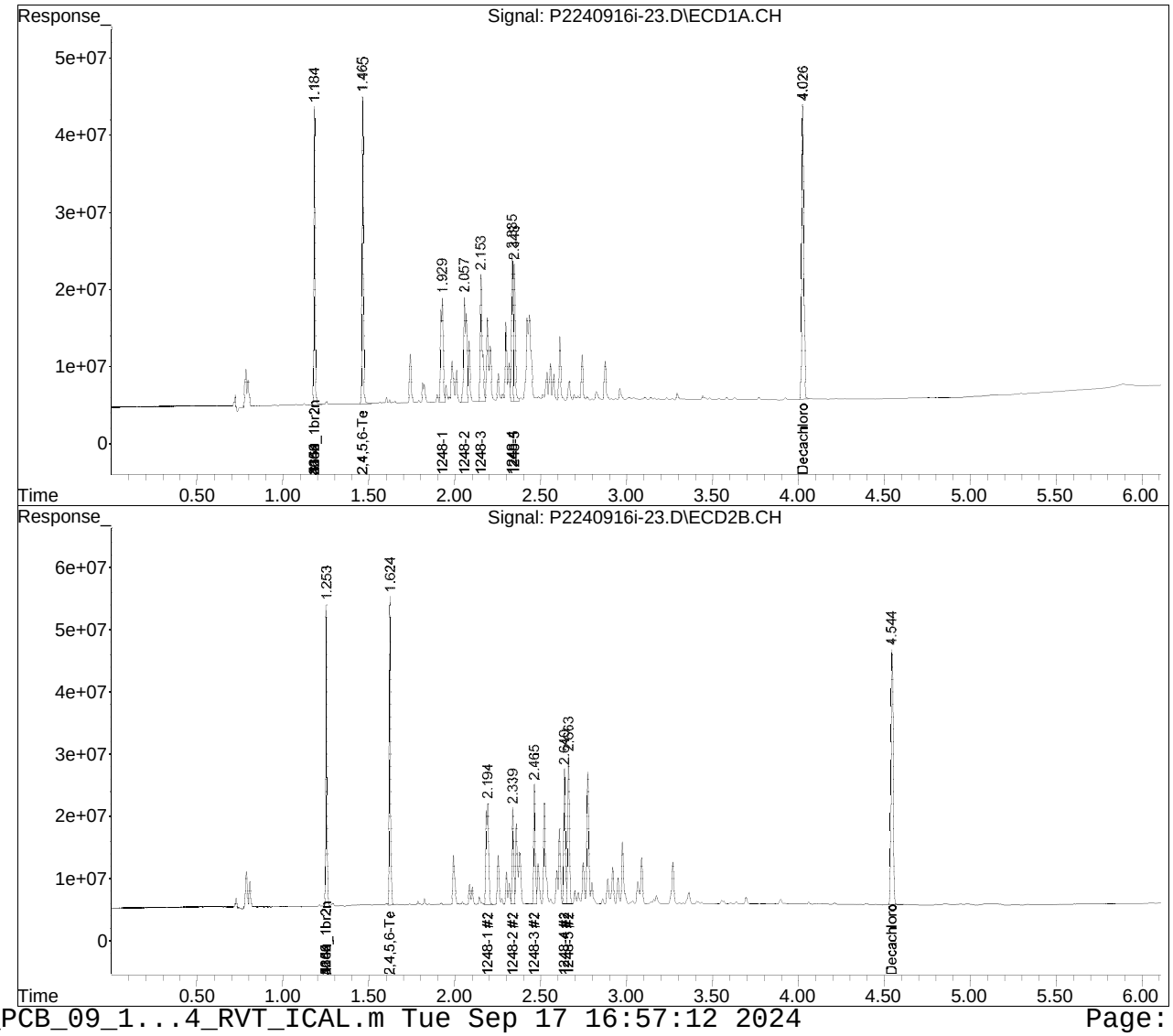
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

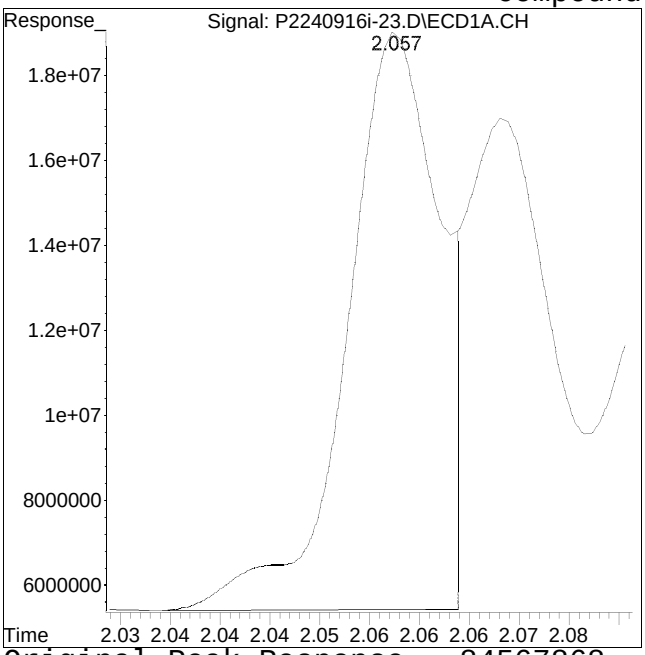
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



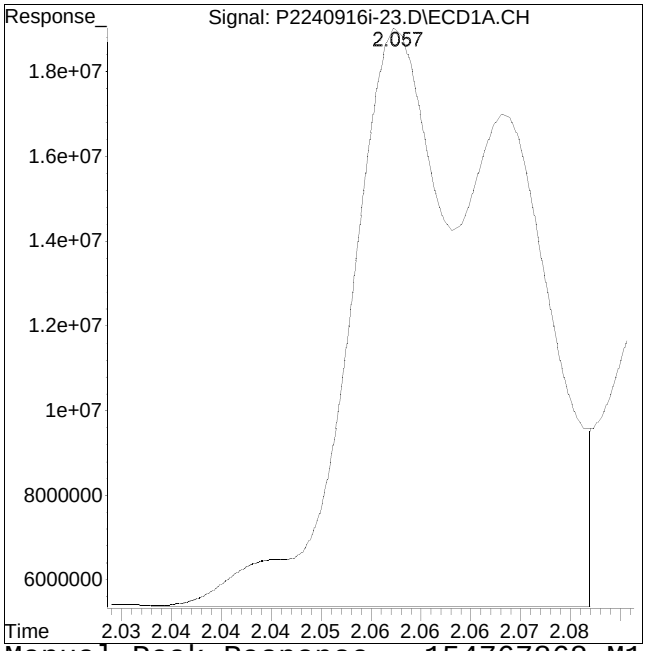
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-23.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:58 pm Instrument : Pest 2
Sample : cicv1248,42,, 250 pp11771 Quant Date : 9/17/2024 11:05 am

Compound #36: 1248-2



Original Peak Response = 84567868



Manual Peak Response = 154767868 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.477	-1.8	95	0.00
3	s	Decachlorobiphenyl		1.154	1.142	1.0	100	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.029	0.034	-17.2	113	0.00
42	l5	1232-2		0.027	0.026	3.7	94	0.00
43	l5	1232-3		0.055	0.056	-1.8	96	0.00
44	l5	1232-4		0.023	0.023	0.0	97	0.00
45	l5	1232-5		0.017	0.018	-5.9	103	0.00
46	l8	1262-1		0.083	0.083	0.0	95	0.00
47	l8	1262-2		0.105	0.105	0.0	95	0.00
48	l8	1262-3		0.091	0.092	-1.1	96	0.00
49	l8	1262-4		0.185	0.186	-0.5	95	0.00
50	l8	1262-5		0.059	0.059	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.585	3.2	98	0.00
3	s	Decachlorobiphenyl		1.101	1.007	8.5	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	94	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	97	0.00
41	l5	1232-1		0.030	0.035	-16.7	113	0.00
42	l5	1232-2		0.031	0.031	0.0	97	0.00
43	l5	1232-3		0.060	0.059	1.7	97	0.00
44	l5	1232-4		0.024	0.024	0.0	96	0.00
45	l5	1232-5		0.018	0.018	0.0	100	0.00
46	l8	1262-1		0.073	0.072	1.4	95	0.00
47	l8	1262-2		0.101	0.099	2.0	95	0.00
48	l8	1262-3		0.091	0.090	1.1	96	0.00
49	l8	1262-4		0.174	0.169	2.9	94	0.00
50	l8	1262-5		0.062	0.060	3.2	93	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1	0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2	0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3	0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4	0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5	0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	187.3E6	239.1E6	16.288	15.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.26%#	3.10%#
3) s	Decachlorobi	4.026	4.544	289.7E6	304.0E6	31.672	29.276
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.33%#	5.86%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	68269965	81414585	298.488	290.625
42) l5	1232-2	1.743	1.994	52386986	73941054	247.432	250.711
43) l5	1232-3	1.930	2.195	111.0E6	140.2E6	252.978	249.333
44) l5	1232-4	1.985	2.255	46547705	56591438	255.806	247.965
45) l5	1232-5	2.336	2.641	36041624	43471742	271.797	259.357
Sum	1232-1			314.2E6	395.6E6	1326.500	1297.990
Average	1232-1					265.300	259.598
46) l8	1262-1	2.825	3.175	165.3E6	168.8E6	251.208	245.187
47) l8	1262-2	3.016	3.409	209.0E6	233.6E6	251.679	246.122
48) l8	1262-3	3.140	3.567	182.7E6	212.0E6	253.128	246.995
49) l8	1262-4	3.295	3.696	368.0E6	398.7E6	251.038	242.663
50) l8	1262-5	3.769	4.212	117.6E6	140.8E6	250.989	241.242
Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

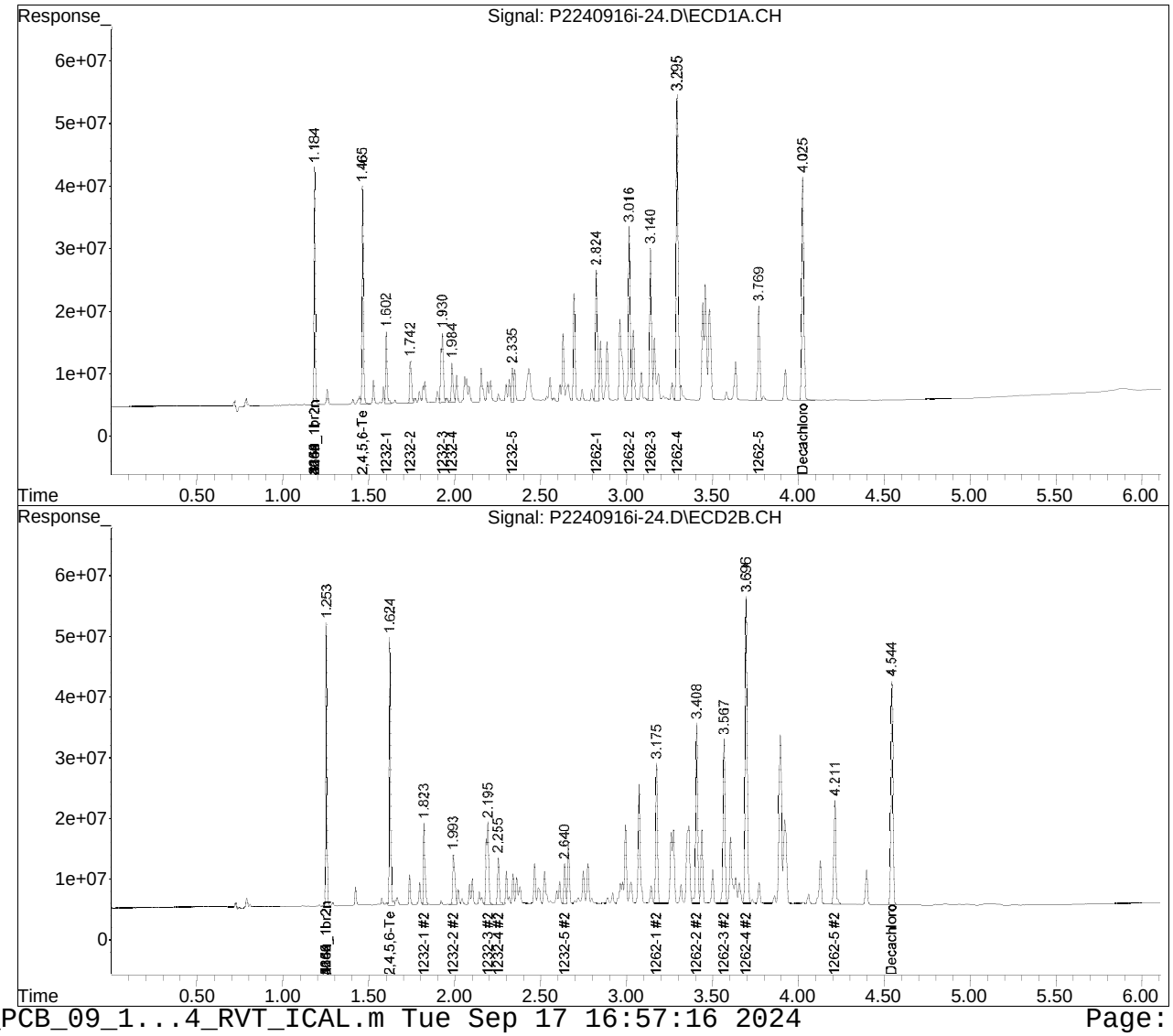
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-24.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 6:07 pm	Instrument	: Pest 2
Sample	: cicv3262,42,, 250 pp11773	Quant Date	: 9/17/2024 11:06 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.522	-4.9	98	0.00
3	s	Decachlorobiphenyl		1.154	1.730	-49.9#	152#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	98	0.00
24	l6	1242-1		0.021	0.022	-4.8	104	0.00
25	l6	1242-2		0.046	0.052	-13.0	111	0.00
26	l6	1242-3		0.096	0.102	-6.2	104	0.00
27	l6	1242-4		0.040	0.043	-7.5	104	0.00
28	l6	1242-5		0.032	0.033	-3.1	101	0.00
29	l9	1268-1		0.209	0.236	-12.9	111	0.00
30	l9	1268-2		0.189	0.209	-10.6	109	0.00
31	l9	1268-3		0.154	0.157	-1.9	100	0.00
32	l9	1268-4		0.067	0.067	0.0	98	0.00
33	l9	1268-5		0.467	0.442	5.4	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.565	4.5	98	0.00
3	s	Decachlorobiphenyl		1.101	1.500	-36.2#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	95	0.00
24	l6	1242-1		0.021	0.024	-14.3	106	0.00
25	l6	1242-2		0.048	0.053	-10.4	105	0.00
26	l6	1242-3		0.095	0.104	-9.5	104	0.00
27	l6	1242-4		0.039	0.042	-7.7	103	0.00
28	l6	1242-5		0.031	0.034	-9.7	104	0.00
29	l9	1268-1		0.190	0.219	-15.3	109	0.00
30	l9	1268-2		0.169	0.189	-11.8	106	0.00
31	l9	1268-3		0.141	0.145	-2.8	98	0.00
32	l9	1268-4		0.062	0.063	-1.6	98	0.00
33	l9	1268-5		0.399	0.389	2.5	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	194.1E6	238.6E6	16.787	15.284
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.36%#	3.06%#
3) s	Decachlorobi	4.026	4.544	441.2E6	457.5E6	47.972	43.605
	Spiked Amount 500.000	Range 30 - 150		Recovery =		9.59%#	8.72%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.602	1.823	44493355	56043063	264.571	278.221
25) l6	1242-2	1.741	1.994	104.1E6	125.4E6	283.000M1	274.871
26) l6	1242-3	1.930	2.195	203.6E6	247.3E6	266.424	272.811
27) l6	1242-4	1.984	2.255	85044716	99394063	264.271	269.601
28) l6	1242-5	2.335	2.640	66155142	81559141	258.626	273.542
Sum	1242-1			503.4E6	609.7E6	1336.892	1369.046
Average	1242-1					267.378	273.809
29) l9	1268-1	3.458	3.891	470.6E6	520.6E6	283.128	287.064
30) l9	1268-2	3.479	3.918	417.3E6	449.7E6	277.418	278.906
31) l9	1268-3	3.581	4.059	313.3E6	345.8E6	255.903	257.951
32) l9	1268-4	3.768	4.211	134.4E6	150.9E6	251.151	257.023
33) l9	1268-5	3.922	4.397	881.6E6	926.0E6	236.864	243.367
Sum	1268-1			2217.2E6	2393.0E6	1304.464	1324.311
Average	1268-1					260.893	264.862
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

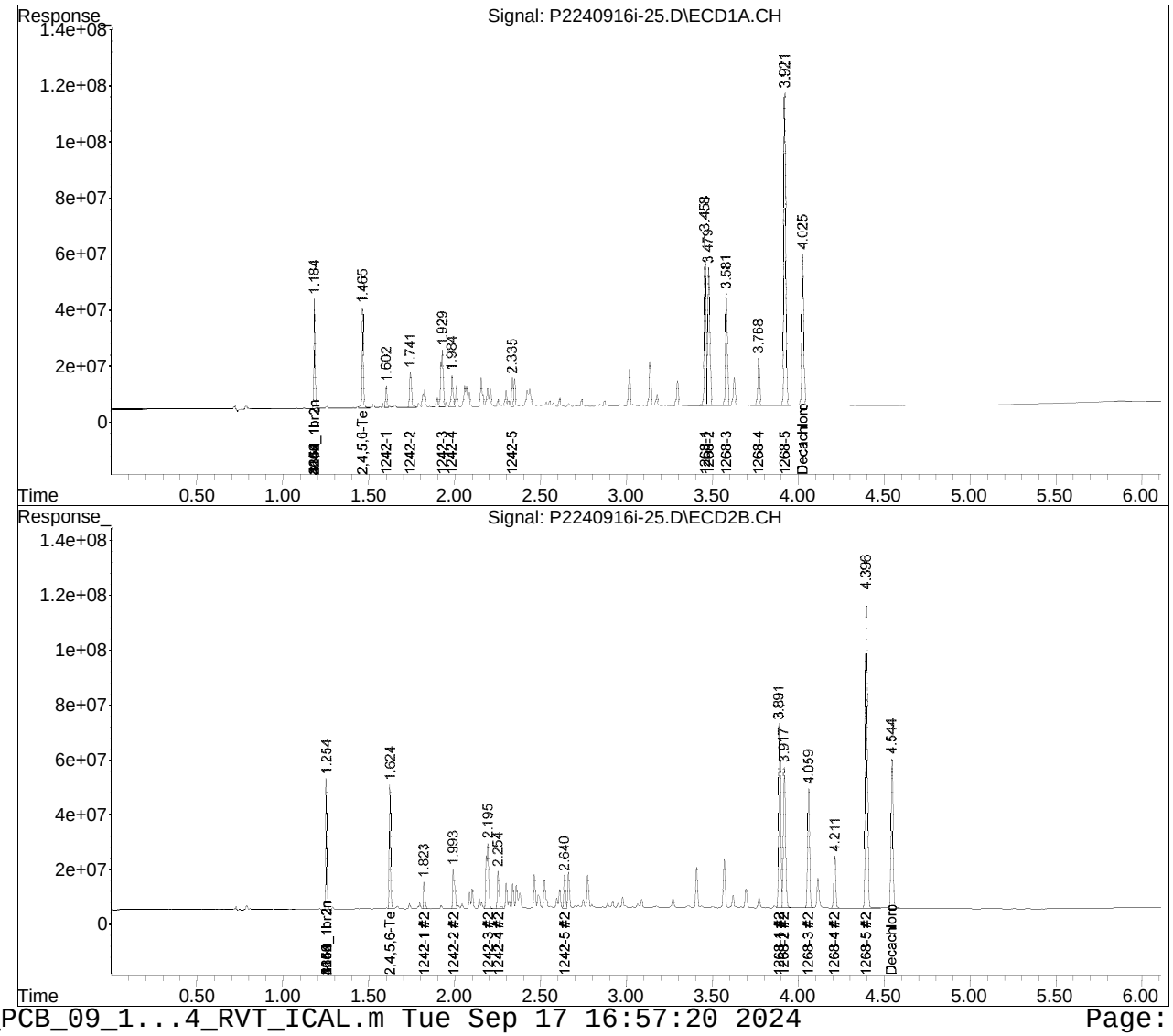
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

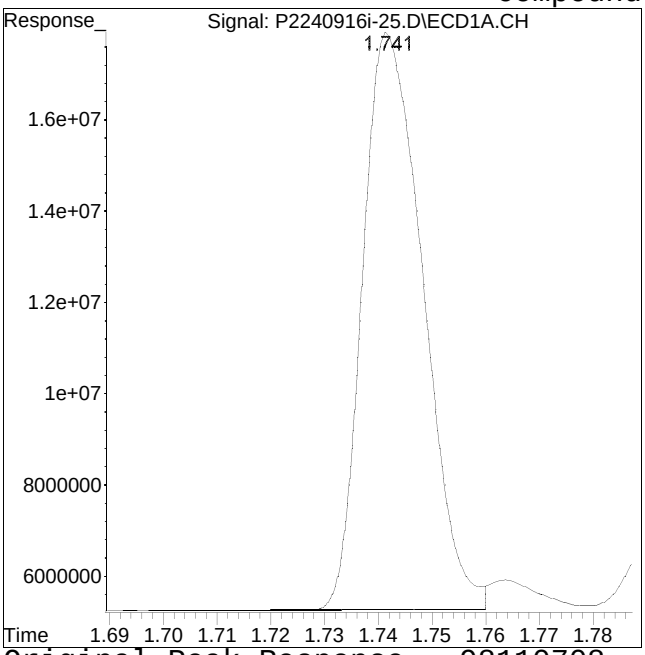
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

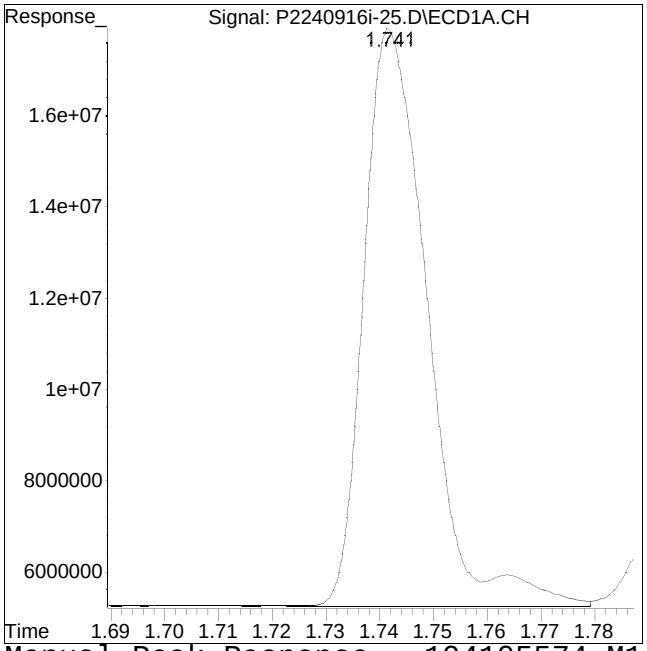


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-25.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 6:15 pm Instrument : Pest 2
Sample : cicv4268,42,, 250 pp11772 Quant Date : 9/17/2024 11:06 am

Compound #25: 1242-2





Original Peak Response = 98110708 Manual Peak Response = 104105574 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/23/24 05:57	
Lab File ID	: P2240923a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1974934-1	**Init. Calib. Times**	: 15:29	17:41
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	101	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.433	-	1.2	20	101	0
Decachlorobiphenyl	1.154	1.133	-	1.8	20	109	0
1016-1	0.027	0.025	-	7.4	20	102	0
1016-2	0.059	0.055	-	6.8	20	103	0
1016-3	0.117	0.127	-	-8.5	20	114	0
1016-4	0.049	0.054	-	-10.2	20	115	0
1016-5	0.054	0.053	-	1.9	20	107	0
1260-1	0.075	0.079	-	-5.3	20	115	0
1260-2	0.113	0.125	-	-10.6	20	120	0
1260-3	0.069	0.066	-	4.3	20	100	0
1260-4	0.151	0.137	-	9.3	20	94	0
1260-5	0.108	0.105	-	2.8	20	104	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/23/24 05:57	
Lab File ID	: P2240923a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1974934-1	**Init. Calib. Times**	: 15:29	17:41
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	115	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.34	-	18.2	20	100	0
Decachlorobiphenyl #2	1.101	0.952	-	13.5	20	117	0
1016-1 #2	0.03	0.024	-	20	20	101	0
1016-2 #2	0.065	0.056	-	13.8	20	108	0
1016-3 #2	0.131	0.116	-	11.5	20	113	0
1016-4 #2	0.053	0.047	-	11.3	20	115	0
1016-5 #2	0.042	0.039	-	7.1	20	115	0
1260-1 #2	0.082	0.069	-	15.9	20	110	0
1260-2 #2	0.097	0.084	-	13.4	20	113	0
1260-3 #2	0.079	0.064	-	19	20	106	0
1260-4 #2	0.155	0.119	-	23.2*	20	98	0
1260-5 #2	0.111	0.094	-	15.3	20	111	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/24/24 13:57	
Lab File ID	: P2240924a-41	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1975391-5	**Init. Calib. Times**	: 15:29	17:41
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	96	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.472	-	-1.4	20	98	0
Decachlorobiphenyl	1.154	1.193	-	-3.4	20	109	-.02
1016-1	0.027	0.027	-	0	20	103	0
1016-2	0.059	0.054	-	8.5	20	97	0
1016-3	0.117	0.13	-	-11.1	20	110	0
1016-4	0.049	0.054	-	-10.2	20	110	0
1016-5	0.054	0.055	-	-1.9	20	106	0
1260-1	0.075	0.081	-	-8	20	112	-.01
1260-2	0.113	0.128	-	-13.3	20	117	-.01
1260-3	0.069	0.069	-	0	20	99	-.01
1260-4	0.151	0.142	-	6	20	93	-.02
1260-5	0.108	0.111	-	-2.8	20	105	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/24/24 13:57	
Lab File ID	: P2240924a-41	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1975391-5	**Init. Calib. Times**	: 15:29	17:41
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	114	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.33	-	18.8	20	98	0
Decachlorobiphenyl #2	1.101	0.959	-	12.9	20	116	-.03
1016-1 #2	0.03	0.023	-	23.3*	20	98	0
1016-2 #2	0.065	0.058	-	10.8	20	111	-.01
1016-3 #2	0.131	0.116	-	11.5	20	111	-.01
1016-4 #2	0.053	0.048	-	9.4	20	114	-.01
1016-5 #2	0.042	0.037	-	11.9	20	107	-.02
1260-1 #2	0.082	0.074	-	9.8	20	115	-.02
1260-2 #2	0.097	0.084	-	13.4	20	112	-.02
1260-3 #2	0.079	0.064	-	19	20	104	-.03
1260-4 #2	0.155	0.118	-	23.9*	20	95	-.03
1260-5 #2	0.111	0.093	-	16.2	20	108	-.03

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.433	1.2	101	0.00
3	s	Decachlorobiphenyl		1.154	1.133	1.8	109	0.00
4	l1	1016-1		0.027	0.025	7.4	102	0.00
5	l1	1016-2		0.059	0.055	6.8	103	0.00
6	l1	1016-3		0.117	0.127	-8.5	114	0.00
7	l1	1016-4		0.049	0.054	-10.2	115	0.00
8	l1	1016-5		0.054	0.053	1.9	107	0.00
9	l2	1260-1		0.075	0.079	-5.3	115	0.00
10	l2	1260-2		0.113	0.125	-10.6	120	0.00
11	l2	1260-3		0.069	0.066	4.3	100	0.00
12	l2	1260-4		0.151	0.137	9.3	94	0.00
13	l2	1260-5		0.108	0.105	2.8	104	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	115	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.340	18.2	100	0.00
54	s	Decachlorobiphenyl #2		1.101	0.952	13.5	117	0.00
55	l1	1016-1 #2		0.030	0.024	20.0	101	0.00
56	l1	1016-2 #2		0.065	0.056	13.8	108	0.00
57	l1	1016-3 #2		0.131	0.116	11.5	113	0.00
58	l1	1016-4 #2		0.053	0.047	11.3	115	0.00
59	l1	1016-5 #2		0.042	0.039	7.1	115	0.00
60	l2	1260-1 #2		0.082	0.069	15.9	110	0.00
61	l2	1260-2 #2		0.097	0.084	13.4	113	0.00
62	l2	1260-3 #2		0.079	0.064	19.0	106	0.00
63	l2	1260-4 #2		0.155	0.119	23.2#	98	0.00
64	l2	1260-5 #2		0.111	0.094	15.3	111	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   5:57
Operator : pest2:mhg
Sample   : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.181	1.249	217.1E6	283.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.461	1.619	199.1E6	243.1E6	15.808M4	13.088M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.04%	65.44%
3) s	Decachlorobi	4.021	4.538	315.0E6	345.3E6	31.435	27.665
	Spiked Amount 20.000	Range 30 - 150		Recovery =		157.18%#	138.32%
	Target Compounds						
4) l1	1016-1	1.598	1.818	54995935	66909146	234.169M3	195.554M4
5) l1	1016-2	1.738	1.988	118.8E6	158.8E6	232.216	214.470M4
6) l1	1016-3	1.925	2.190	275.4E6	329.4E6	271.741	221.982
7) l1	1016-4	1.979	2.249	117.4E6	134.0E6	274.967M1	223.791
8) l1	1016-5	2.149	2.460	115.1E6	110.2E6	244.821	230.726
Sum	1016-1			681.7E6	799.3E6	1257.915	1086.523
Average	1016-1					251.583	217.305
9) l2	1260-1	2.690	3.068	170.8E6	195.3E6	263.981M4	209.636
10) l2	1260-2	2.820	3.169	270.9E6	238.3E6	275.544M4	216.558M4
11) l2	1260-3	3.135	3.560	143.0E6	181.4E6	240.212M4	201.627
12) l2	1260-4	3.290	3.690	296.7E6	336.9E6	227.034M4	191.313
13) l2	1260-5	3.438	3.891	228.1E6	265.9E6	244.368M1	212.133

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1260-1			1109.6E6	1217.8E6	1251.139	1031.267
Average 1260-1					250.228	206.253
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

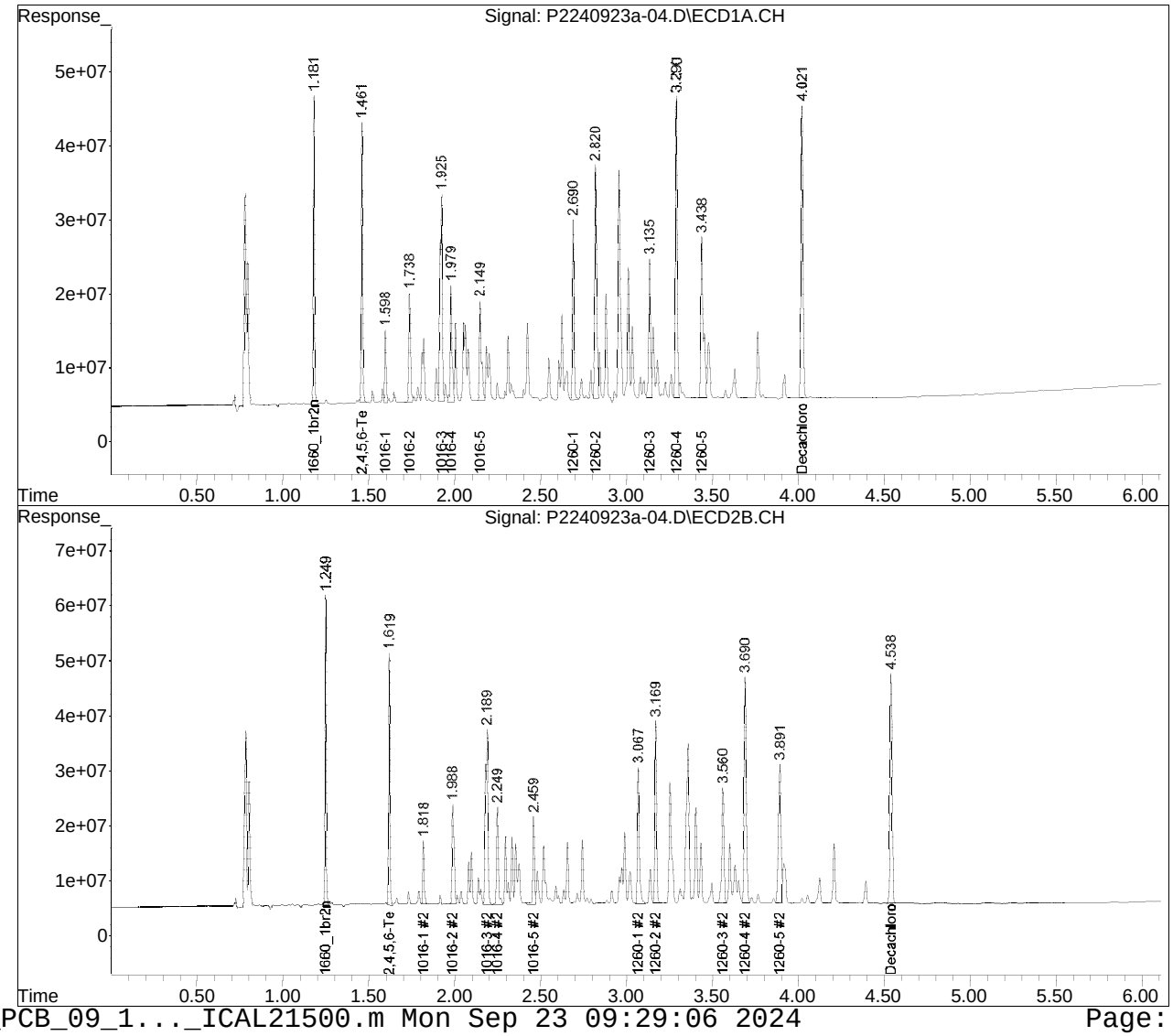
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923A\
Data File : P2240923a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1974934-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : WG1974934,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 06:06:29 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

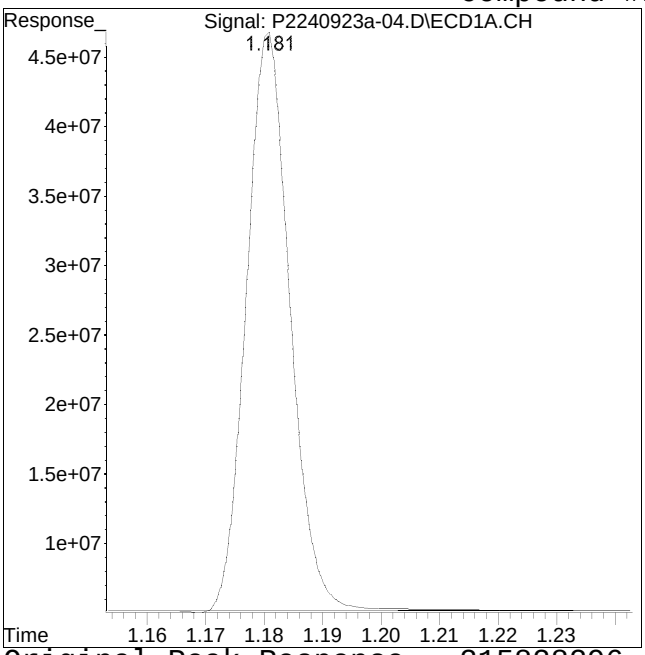
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

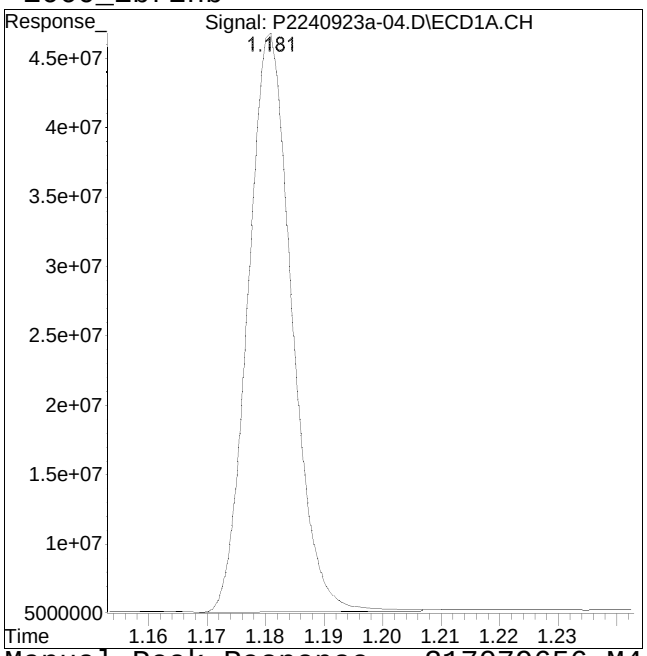


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #1: 1660_1br2nb



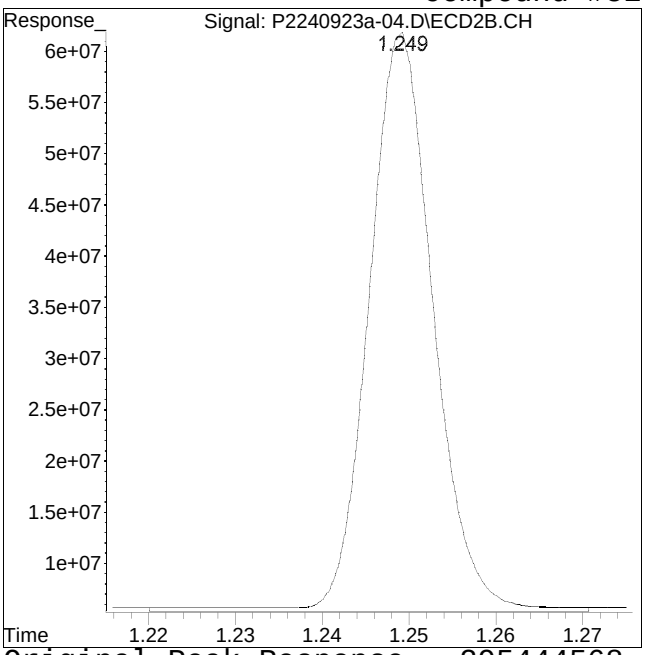


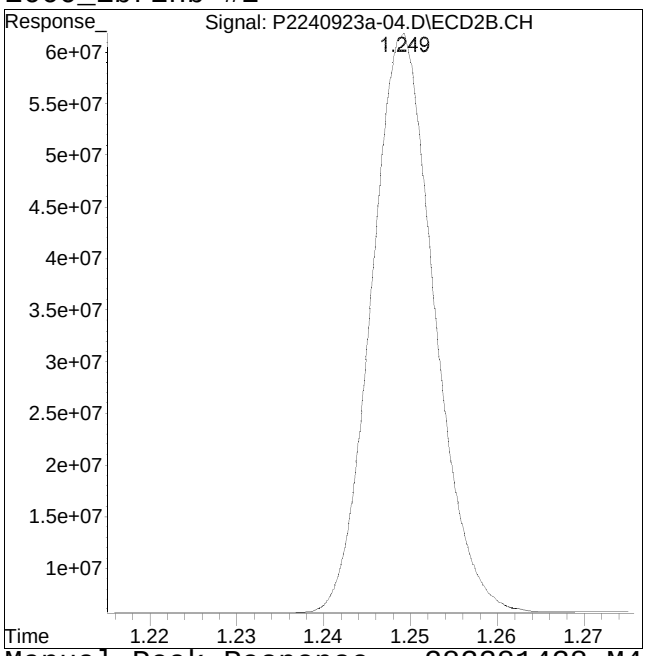
Original Peak Response = 215828296 Manual Peak Response = 217079656 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #52: 1660_1br2nb #2



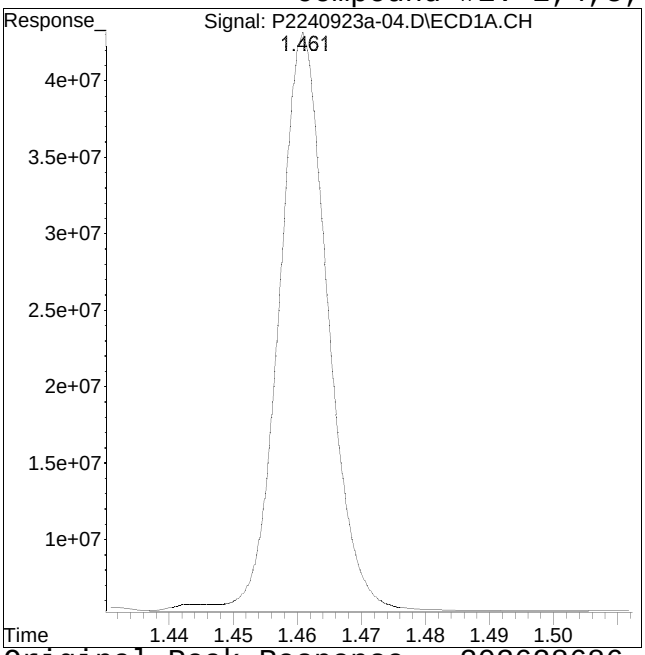


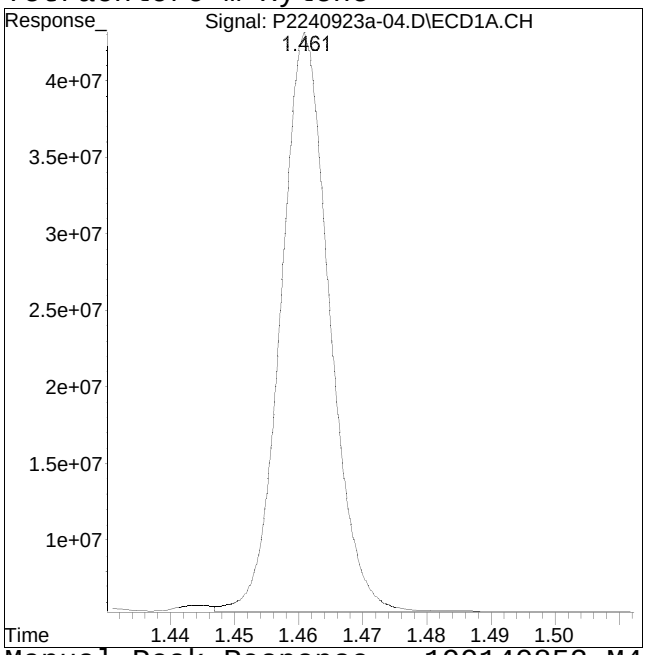
Original Peak Response = 295444568 Manual Peak Response = 283381438 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



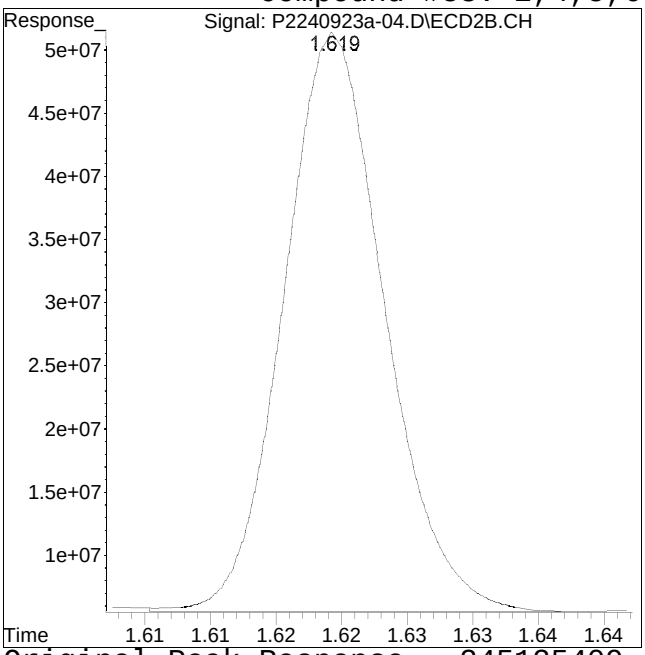


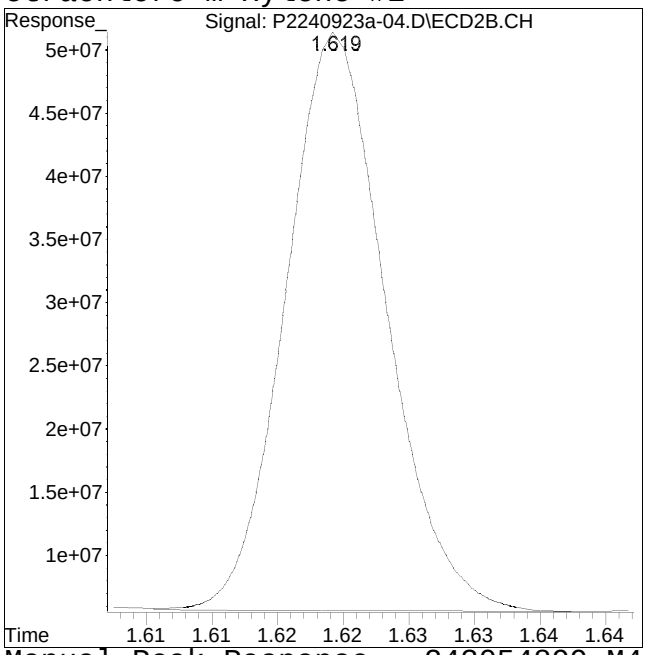
Original Peak Response = 203628686 Manual Peak Response = 199140852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



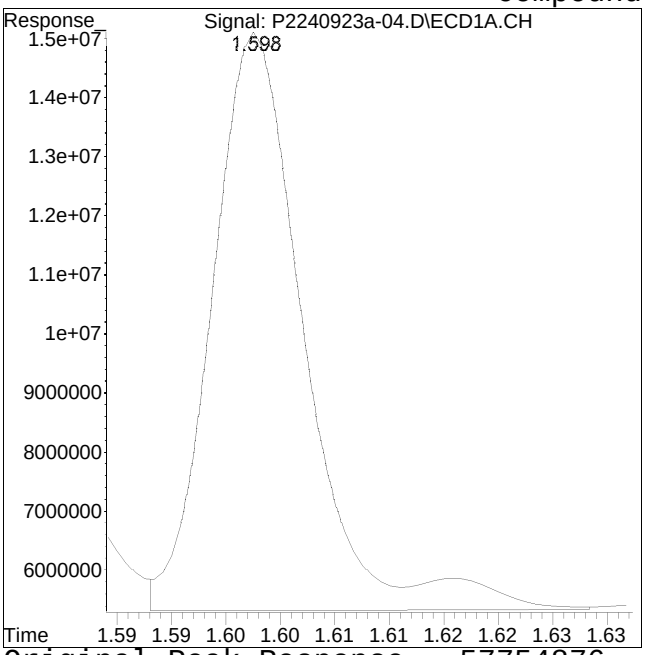


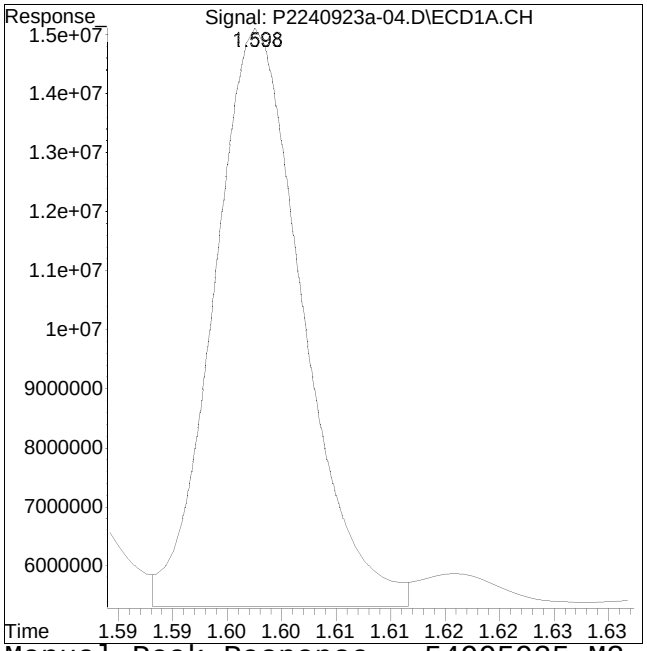
Original Peak Response = 245125409 Manual Peak Response = 243054899 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #4: 1016-1



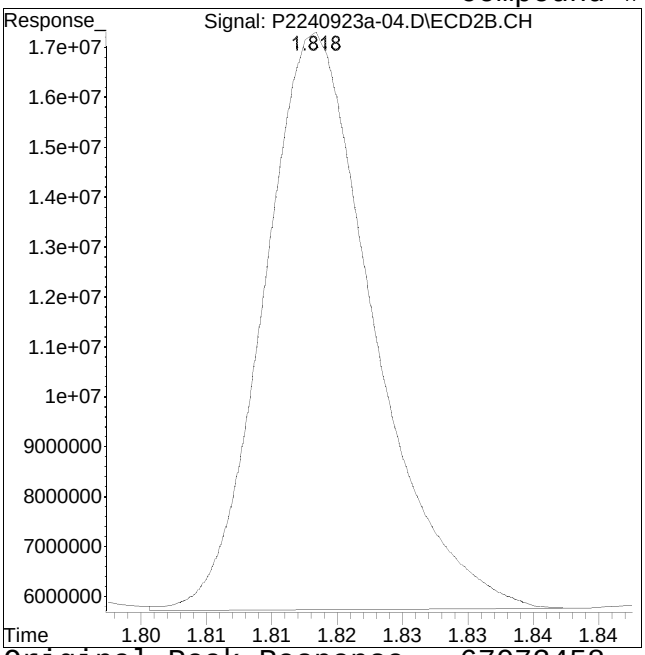


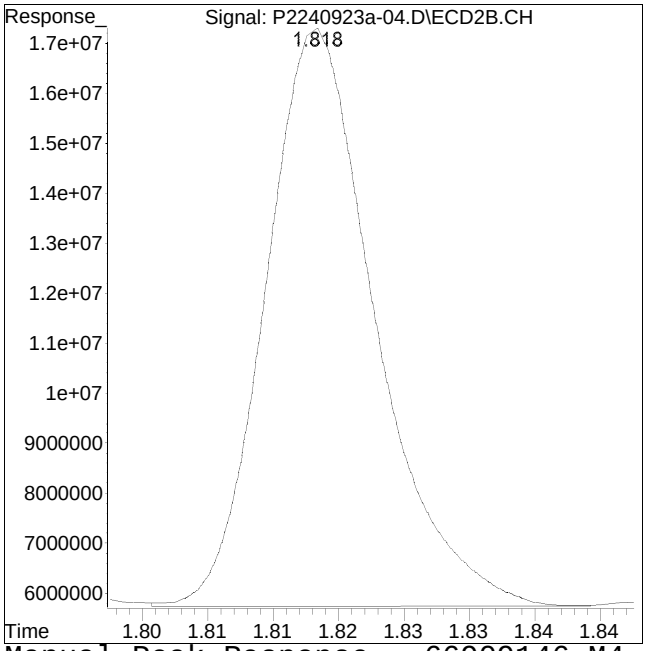
Original Peak Response = 57754876 Manual Peak Response = 54995935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #55: 1016-1 #2



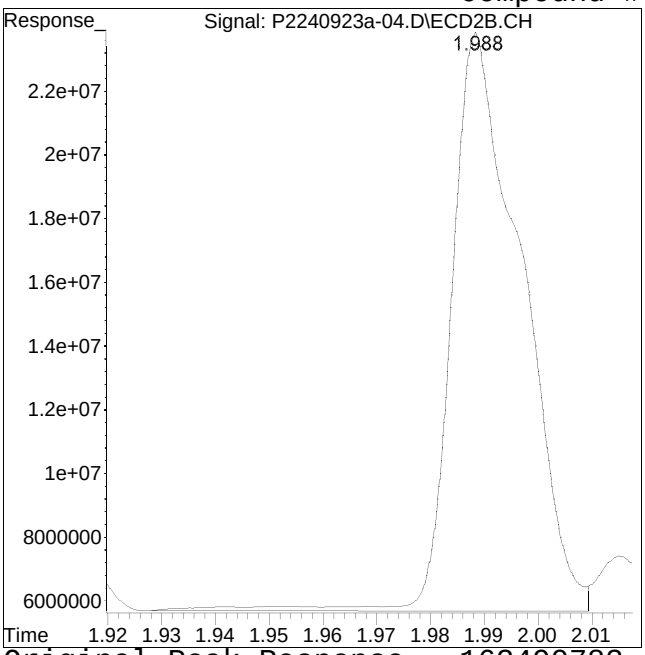


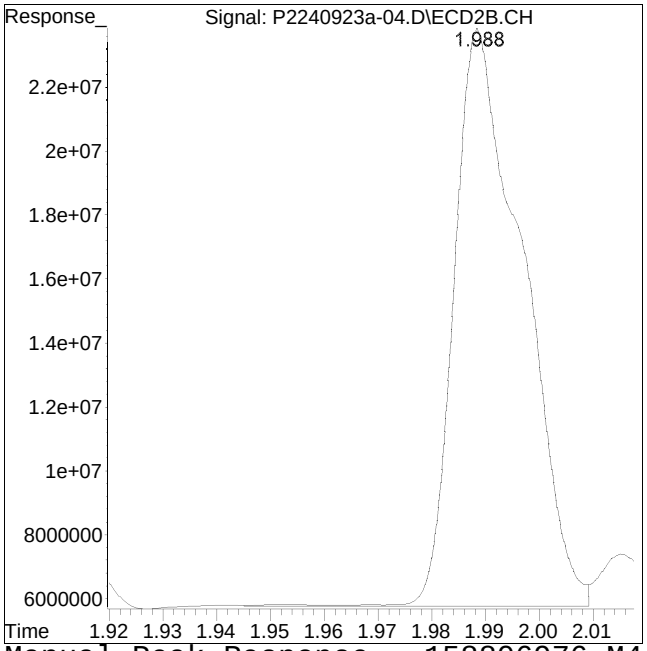
Original Peak Response = 67073458 Manual Peak Response = 66909146 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #56: 1016-2 #2



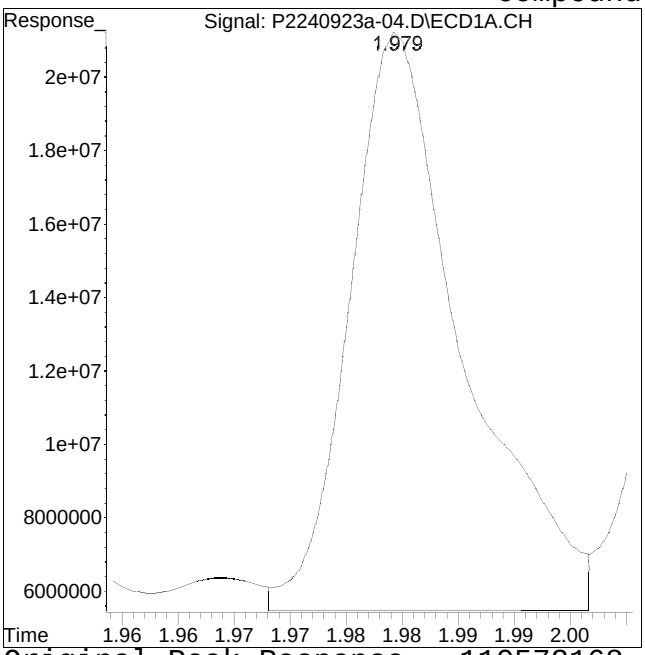


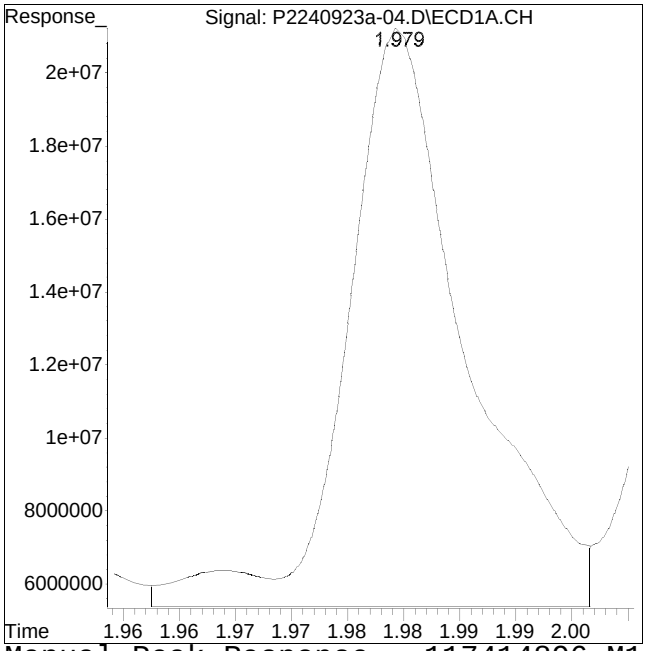
Original Peak Response = 163490783 Manual Peak Response = 158806976 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #7: 1016-4



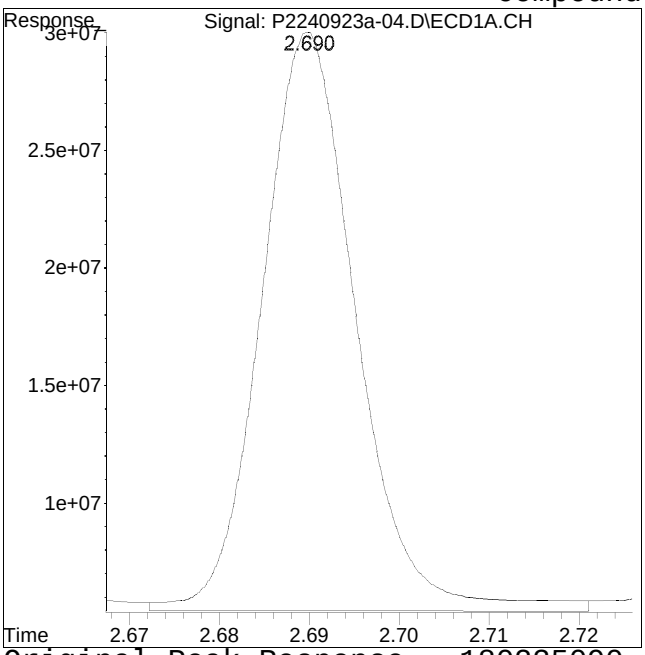


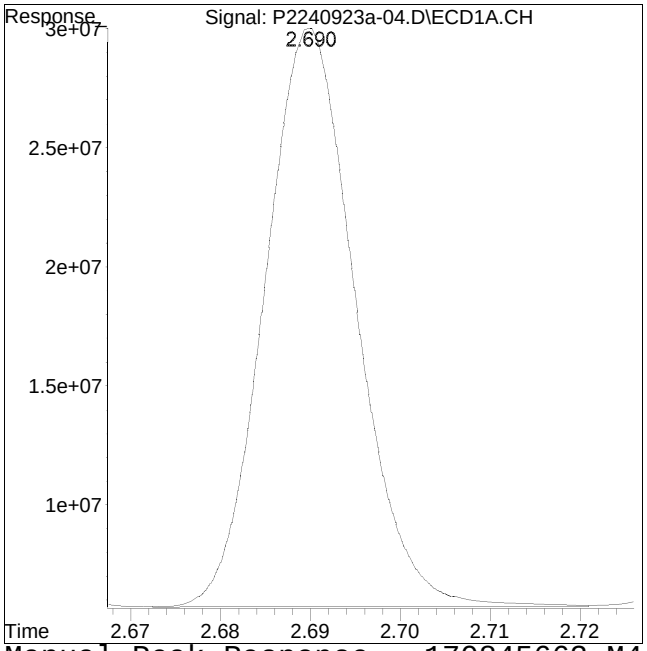
Original Peak Response = 110572168 Manual Peak Response = 117414896 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #9: 1260-1



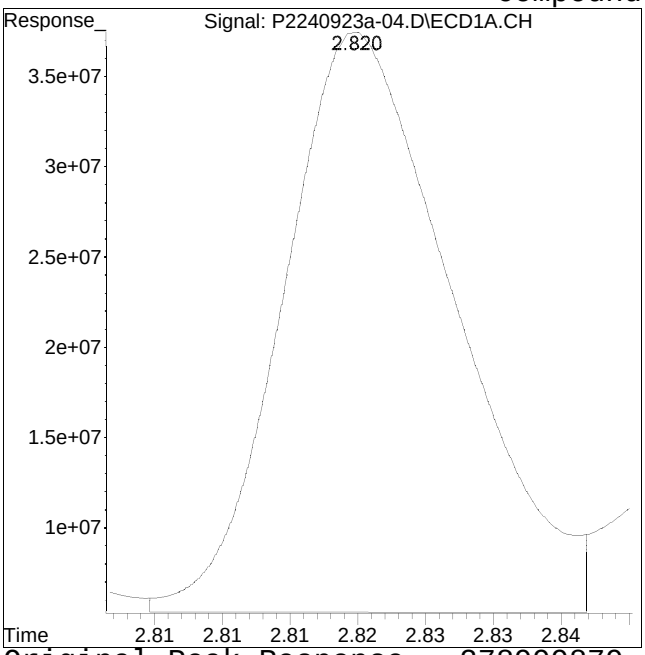


Original Peak Response = 180235090 Manual Peak Response = 170845663 M4
M4 = Poor automated baseline construction.

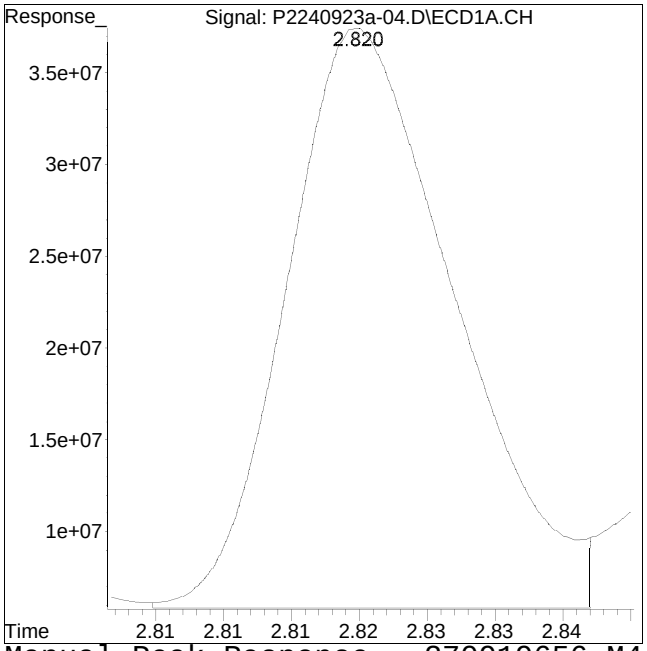
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #10: 1260-2



Original Peak Response = 278999879



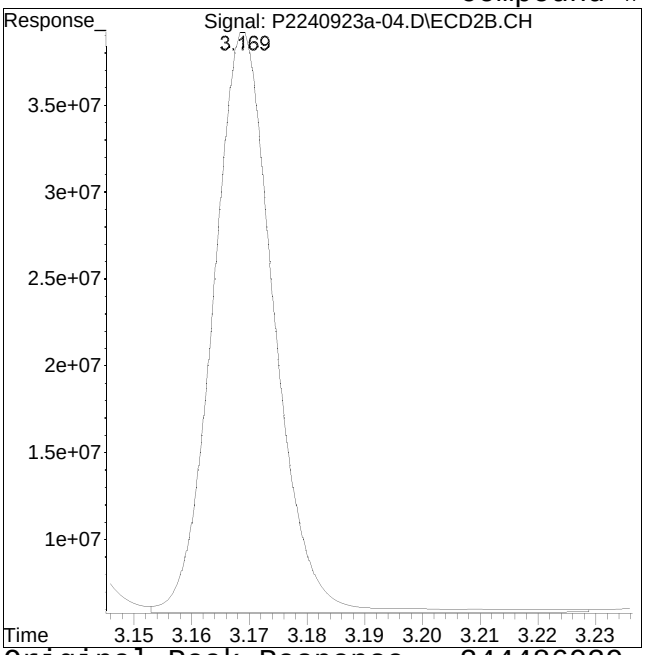
Manual Peak Response = 270919656 M4

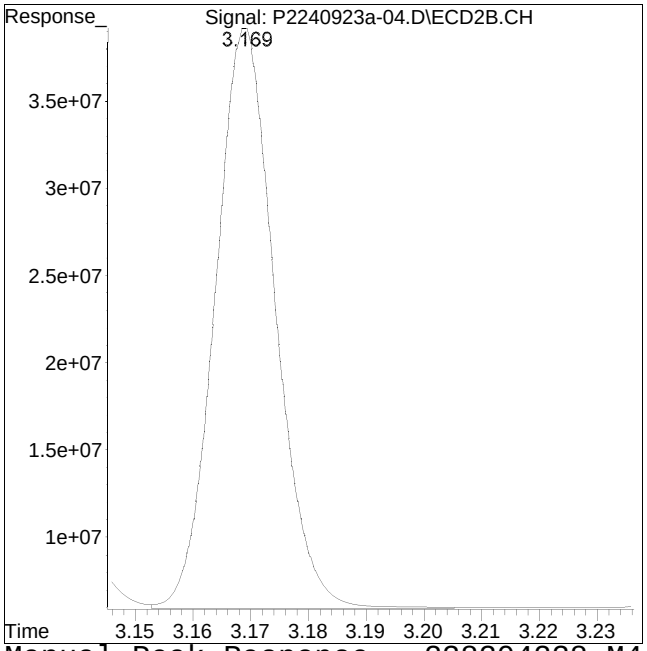
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #61: 1260-2 #2



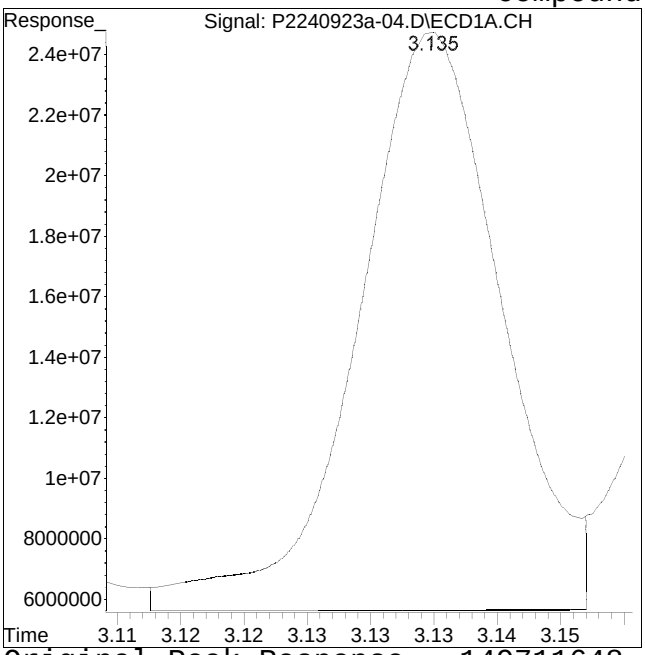


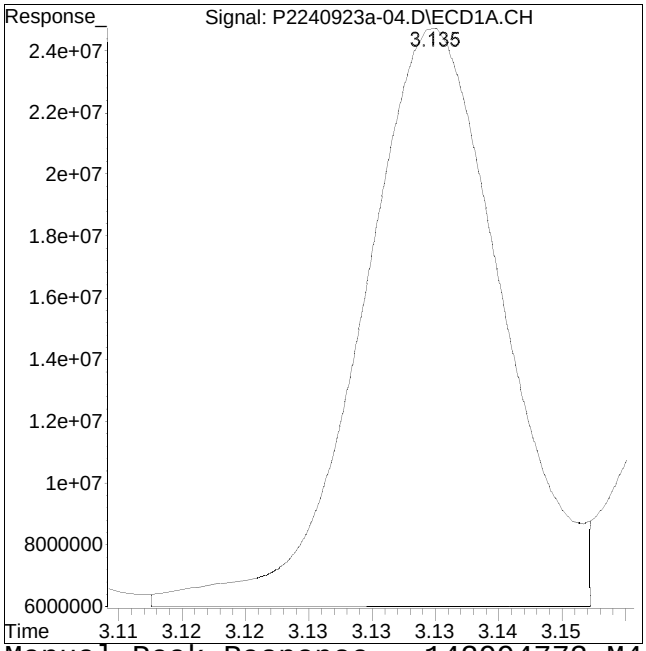
Original Peak Response = 244486939 Manual Peak Response = 238304238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #11: 1260-3



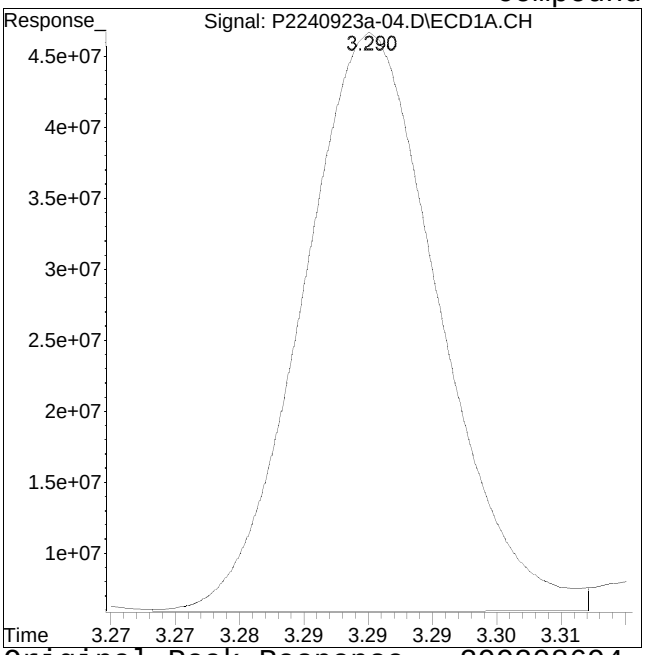


Original Peak Response = 149711648 Manual Peak Response = 142994773 M4
M4 = Poor automated baseline construction.

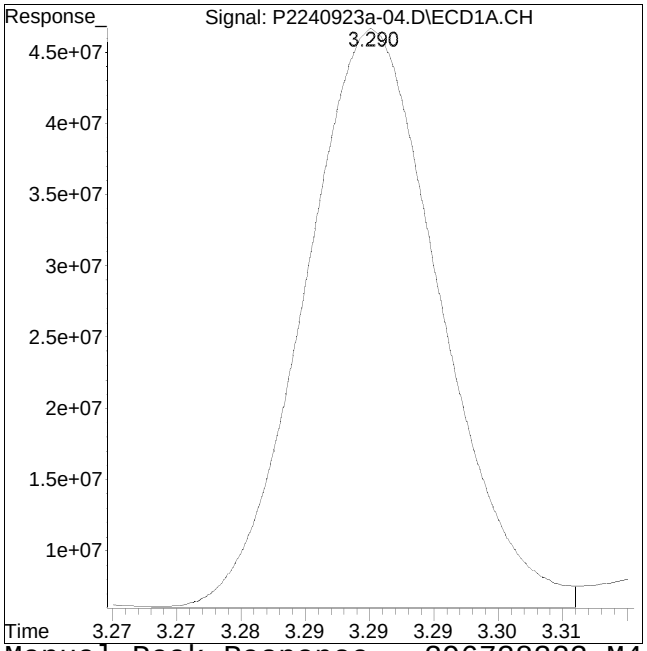
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #12: 1260-4



Original Peak Response = 299208694



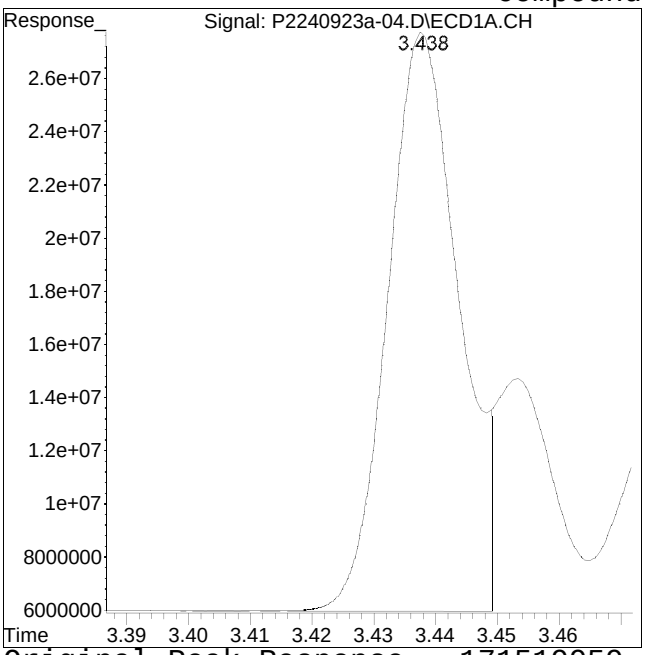
Manual Peak Response = 296738323 M4

M4 = Poor automated baseline construction.

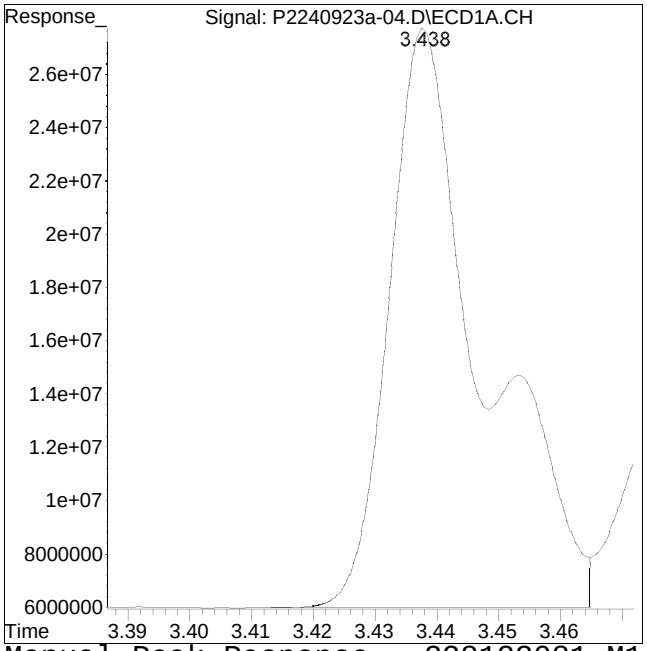
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-04.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 5:57 Instrument : Pest 2
Sample : WG1974934-1,42,,cicv1660,4Quant Date : 9/23/2024 6:06 am

Compound #13: 1260-5



Original Peak Response = 171519959



Manual Peak Response = 228123081 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 13:57
Operator : pest2:sdc
Sample   : wg1975391-5,42,, cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : wg1975391,,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 24 15:13:42 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF   : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.472	-1.4	98	0.00
3	s	Decachlorobiphenyl		1.154	1.193	-3.4	109	-0.02
4	l1	1016-1		0.027	0.027	0.0	103	0.00
5	l1	1016-2		0.059	0.054	8.5	97	0.00
6	l1	1016-3		0.117	0.130	-11.1	110	0.00
7	l1	1016-4		0.049	0.054	-10.2	110	0.00
8	l1	1016-5		0.054	0.055	-1.9	106	0.00
9	l2	1260-1		0.075	0.081	-8.0	112	-0.01
10	l2	1260-2		0.113	0.128	-13.3	117	-0.01
11	l2	1260-3		0.069	0.069	0.0	99	-0.01
12	l2	1260-4		0.151	0.142	6.0	93	-0.02
13	l2	1260-5		0.108	0.111	-2.8	105	-0.02
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	114	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.330	18.8	98	0.00
54	s	Decachlorobiphenyl #2		1.101	0.959	12.9	116	-0.03
55	l1	1016-1 #2		0.030	0.023	23.3#	98	0.00
56	l1	1016-2 #2		0.065	0.058	10.8	111	-0.01
57	l1	1016-3 #2		0.131	0.116	11.5	111	-0.01
58	l1	1016-4 #2		0.053	0.048	9.4	114	-0.01
59	l1	1016-5 #2		0.042	0.037	11.9	107	-0.02
60	l2	1260-1 #2		0.082	0.074	9.8	115	-0.02
61	l2	1260-2 #2		0.097	0.084	13.4	112	-0.02
62	l2	1260-3 #2		0.079	0.064	19.0	104	-0.03
63	l2	1260-4 #2		0.155	0.118	23.9#	95	-0.03
64	l2	1260-5 #2		0.111	0.093	16.2	108	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 13:57
Operator : pest2:sdc
Sample   : wg1975391-5,42,, cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : wg1975391,,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 24 15:13:42 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 13:57
Operator : pest2:sdc
Sample : wg1975391-5,42,, cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1975391,,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 24 15:13:42 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.182	1.248	205.8E6	279.6E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.462	1.616	193.8E6	238.0E6	16.234	12.989
	Spiked Amount	20.000	Range 30 - 150		Recovery =	81.17%	64.95%
3) s	Decachlorobi	4.007	4.512f	314.3E6	343.1E6	33.091	27.860
	Spiked Amount	20.000	Range 30 - 150		Recovery =	165.45%#	139.30%
	Target Compounds						
4) l1	1016-1	1.598	1.813	55206957	65250773	248.003	193.261
5) l1	1016-2	1.738	1.982	111.6E6	162.6E6	230.150	222.528
6) l1	1016-3	1.923	2.180	266.6E6	323.7E6	277.557	221.057
7) l1	1016-4	1.978	2.240	111.8E6	132.9E6	276.119	225.040
8) l1	1016-5	2.146	2.448f	113.7E6	102.6E6	255.171	217.801M4
	Sum 1016-1			658.9E6	787.1E6	1287.000	1079.686
	Average 1016-1					257.400	215.937
9) l2	1260-1	2.684	3.051f	166.0E6	205.6E6	270.621	223.685
10) l2	1260-2	2.813	3.152f	264.3E6	235.4E6	283.588	216.774
11) l2	1260-3	3.126	3.540f	141.8E6	178.3E6	251.253	200.842
12) l2	1260-4	3.280f	3.668f	291.9E6	328.6E6	235.659	189.074M3
13) l2	1260-5	3.427f	3.869f	228.8E6	259.2E6	258.524M3	209.583M3
	Sum 1260-1			1092.8E6	1207.1E6	1299.644	1039.959
	Average 1260-1					259.929	207.992
	Sum 1221-1			0	0	N.D.	N.D.
	Average 1221-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 13:57
Operator : pest2:sdc
Sample : wg1975391-5,42,, cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1975391,,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 24 15:13:42 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

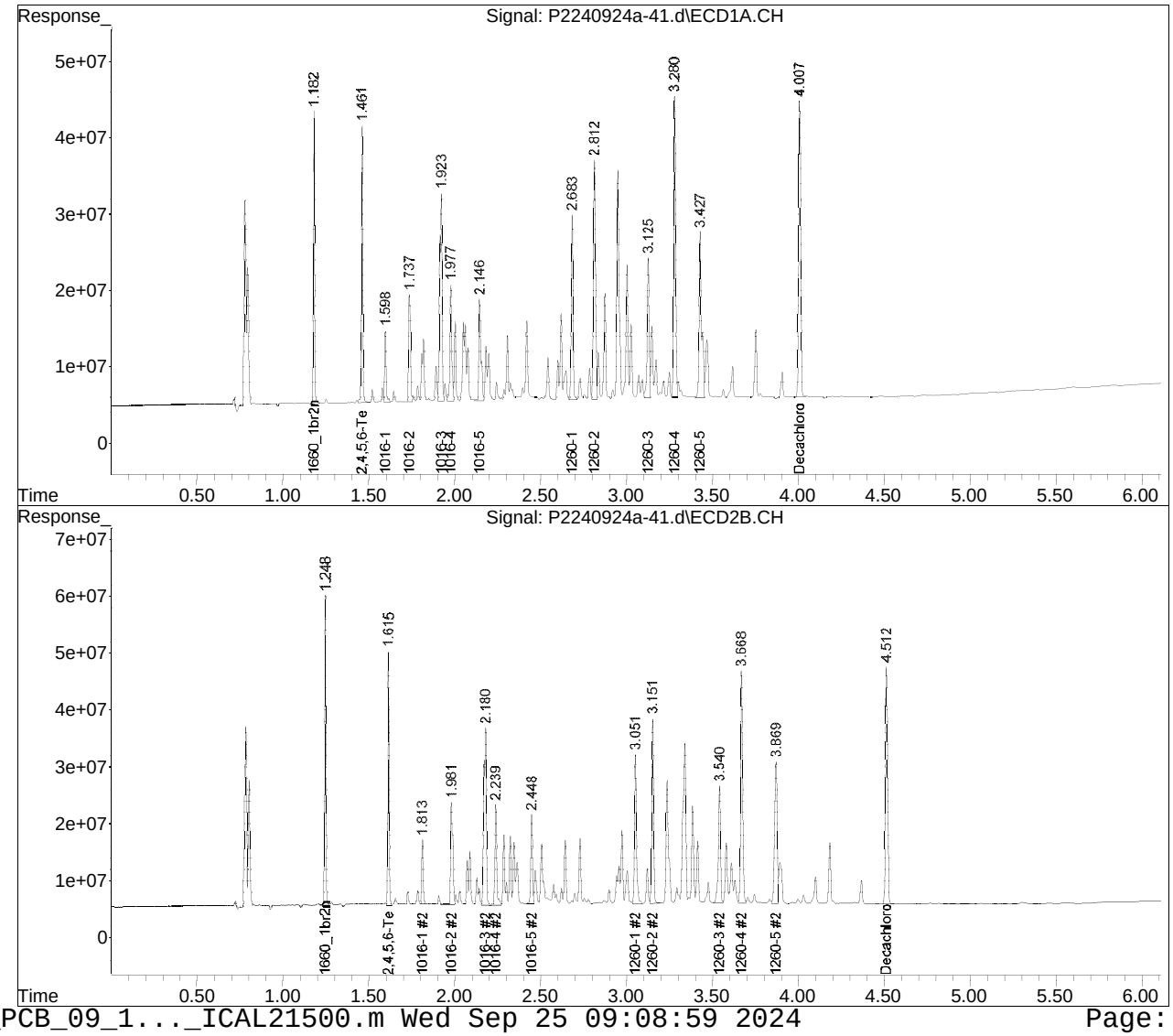
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240924a\
Data File : P2240924a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 13:57
Operator : pest2:sdc
Sample : wg1975391-5,42,, cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : wg1975391,,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 24 15:13:42 2024
Quant Method : I:\PCB\Pest2\2024\240924A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

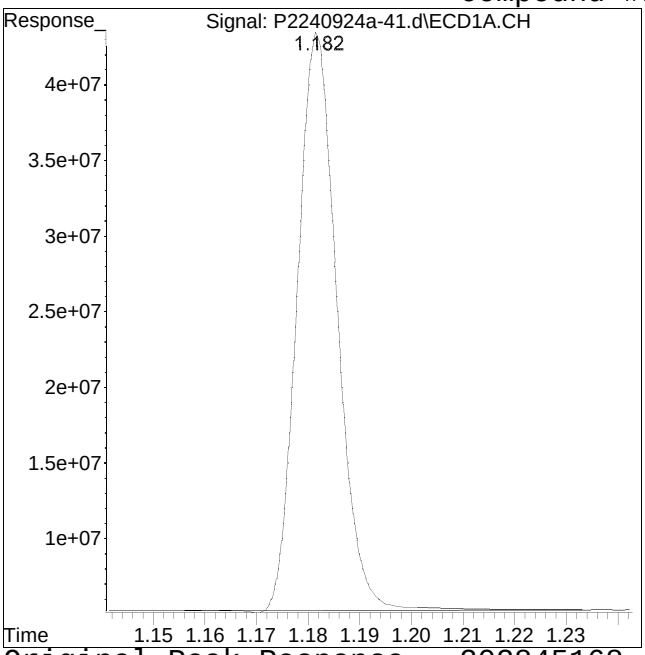
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

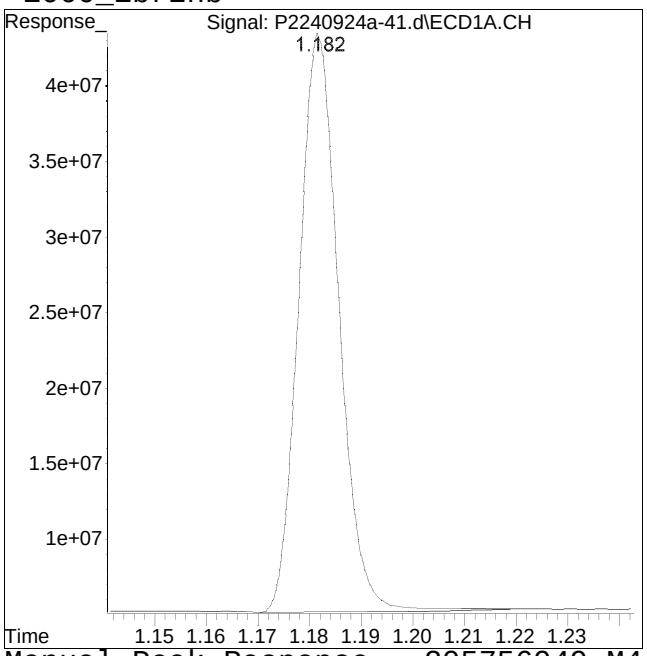


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-41.d Operator : pest2:sdc
Date Inj'd : 9/24/2024 13:57 Instrument : Pest 2
Sample : wg1975391-5,42,, cicv1660,Quant Date : 9/24/2024 3:13 pm

Compound #1: 1660_1br2nb



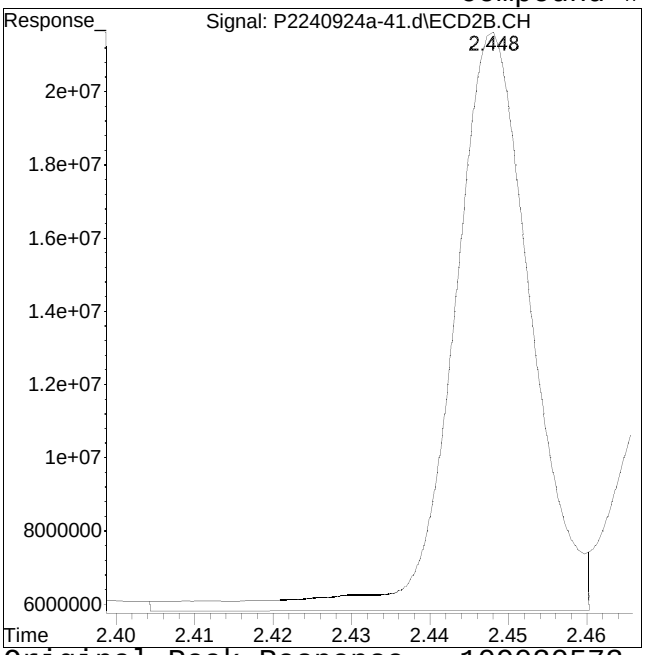


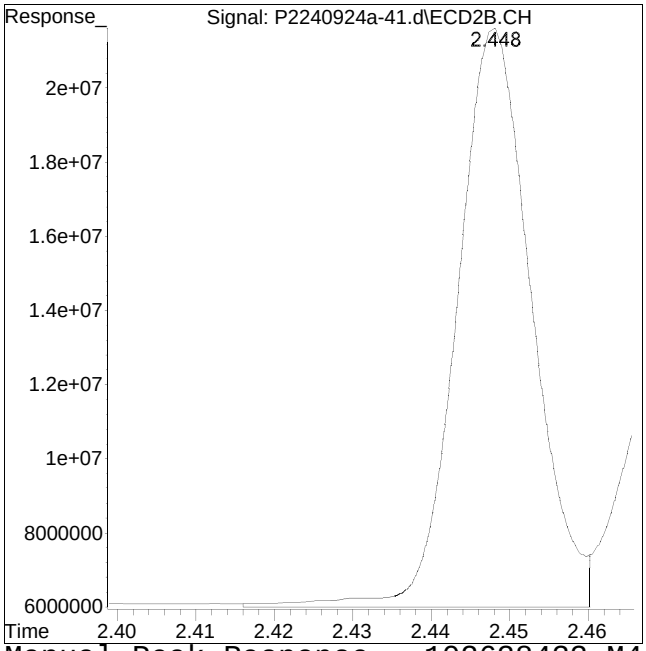
Original Peak Response = 202845168 Manual Peak Response = 205756949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-41.d Operator : pest2:sdc
Date Inj'd : 9/24/2024 13:57 Instrument : Pest 2
Sample : wg1975391-5,42,, cicv1660,Quant Date : 9/24/2024 3:13 pm

Compound #59: 1016-5 #2



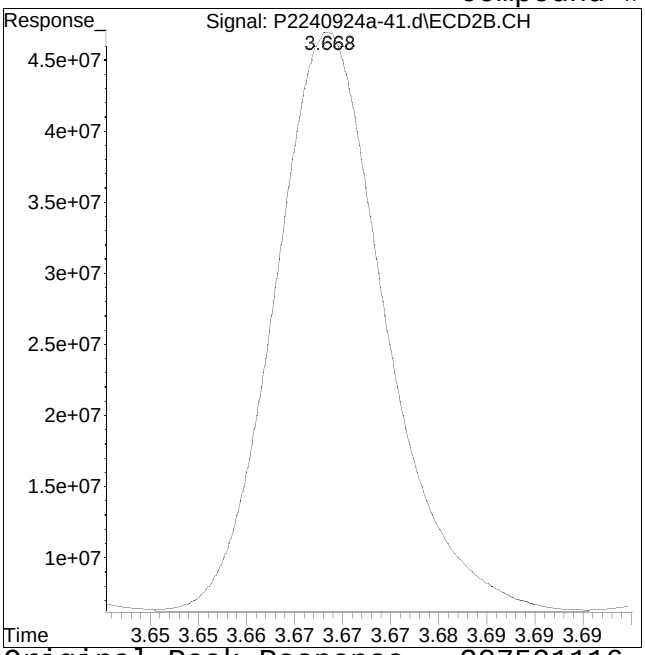


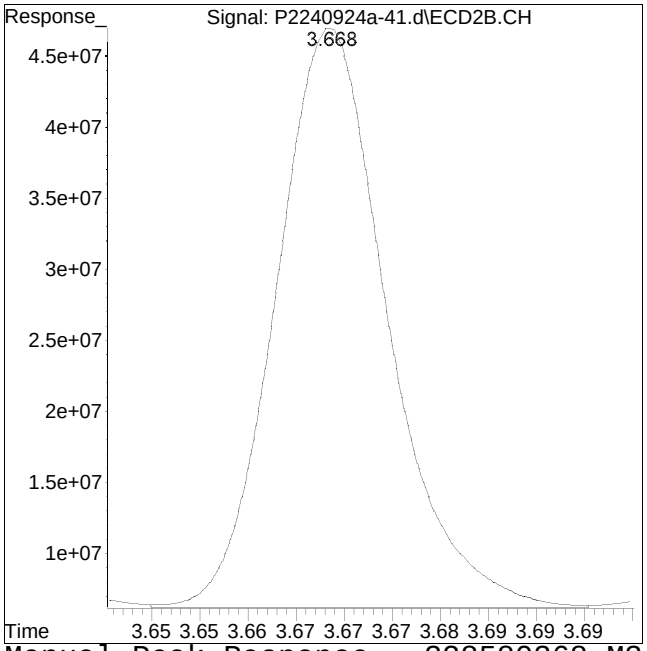
Original Peak Response = 109030573 Manual Peak Response = 102638433 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-41.d Operator : pest2:sdc
Date Inj'd : 9/24/2024 13:57 Instrument : Pest 2
Sample : wg1975391-5,42,, cicv1660,Quant Date : 9/24/2024 3:13 pm

Compound #63: 1260-4 #2



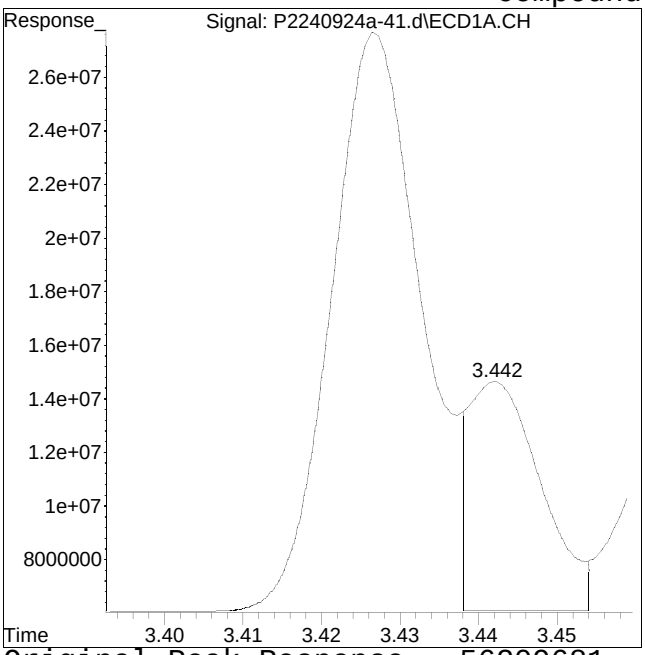


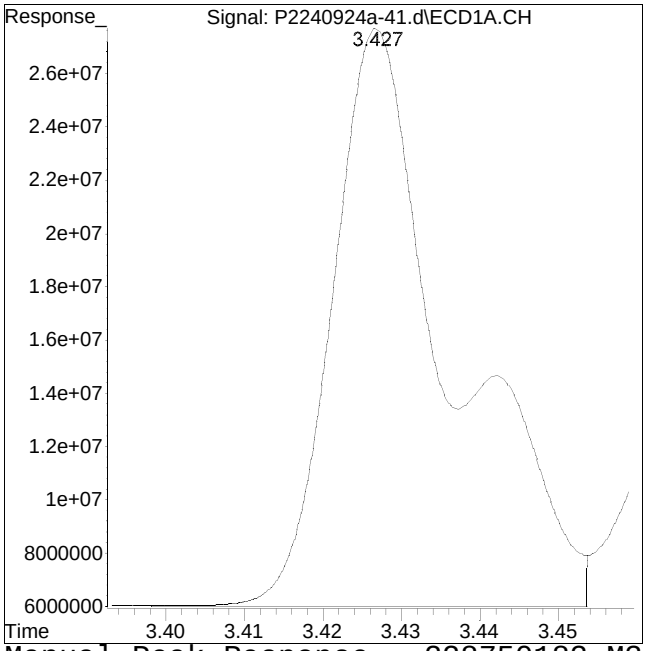
Original Peak Response = 327591116 Manual Peak Response = 328580368 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-41.d Operator : pest2:sdc
Date Inj'd : 9/24/2024 13:57 Instrument : Pest 2
Sample : wg1975391-5,42,, cicv1660,Quant Date : 9/24/2024 3:13 pm

Compound #13: 1260-5



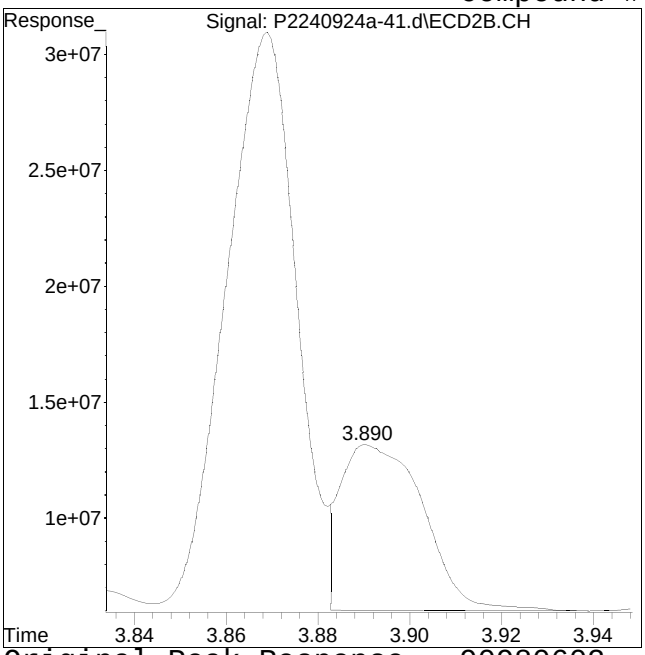


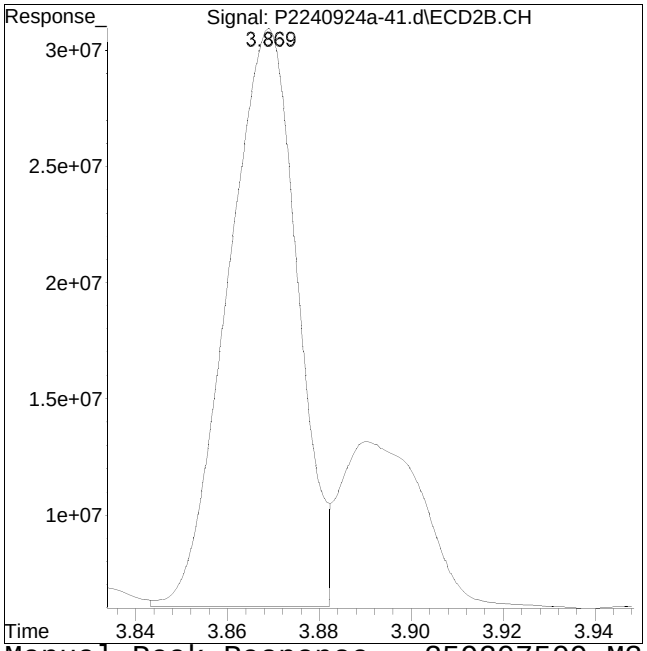
Original Peak Response = 56209681 Manual Peak Response = 228750183 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240924a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240924a-41.d Operator : pest2:sdc
Date Inj'd : 9/24/2024 13:57 Instrument : Pest 2
Sample : wg1975391-5,42,, cicv1660,Quant Date : 9/24/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 90980602 Manual Peak Response = 259207509 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:30
Operator : pest2:mhg
Sample : WG1974859-1,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21500 (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:27:08 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.252	228.5E6	266.4E6	25.000	25.000
	Standard Area 1 : #1 = 217079656				Recovery =	105.26%	
	Standard Area 1 : #2 = 283381438				Recovery =	94.00%	
14) i	2154_1br2nb	1.183	1.252	228.5E6	266.4E6	25.000	25.000
23) i	4268_1br2nb	1.183	1.252	228.5E6	266.4E6	25.000	25.000
34) i	1248_1br2nb	1.183	1.252	228.5E6	266.4E6	25.000	25.000
40) i	3262_1br2nb	1.183	1.252	228.5E6	266.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.623	220.1E6	258.2E6	16.596	14.789
	Spiked Amount 20.000	Range 30 - 150			Recovery =	82.98%	73.94%
3) s	Decachlorobi	4.022	4.541	171.3E6	178.0E6	16.245M3	15.170
	Spiked Amount 20.000	Range 30 - 150			Recovery =	81.23%	75.85%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:30
Operator : pest2:mhg
Sample : WG1974859-1,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21500 (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:27:08 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:30
Operator : pest2:mhg
Sample : WG1974859-1,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21500 (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:27:08 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

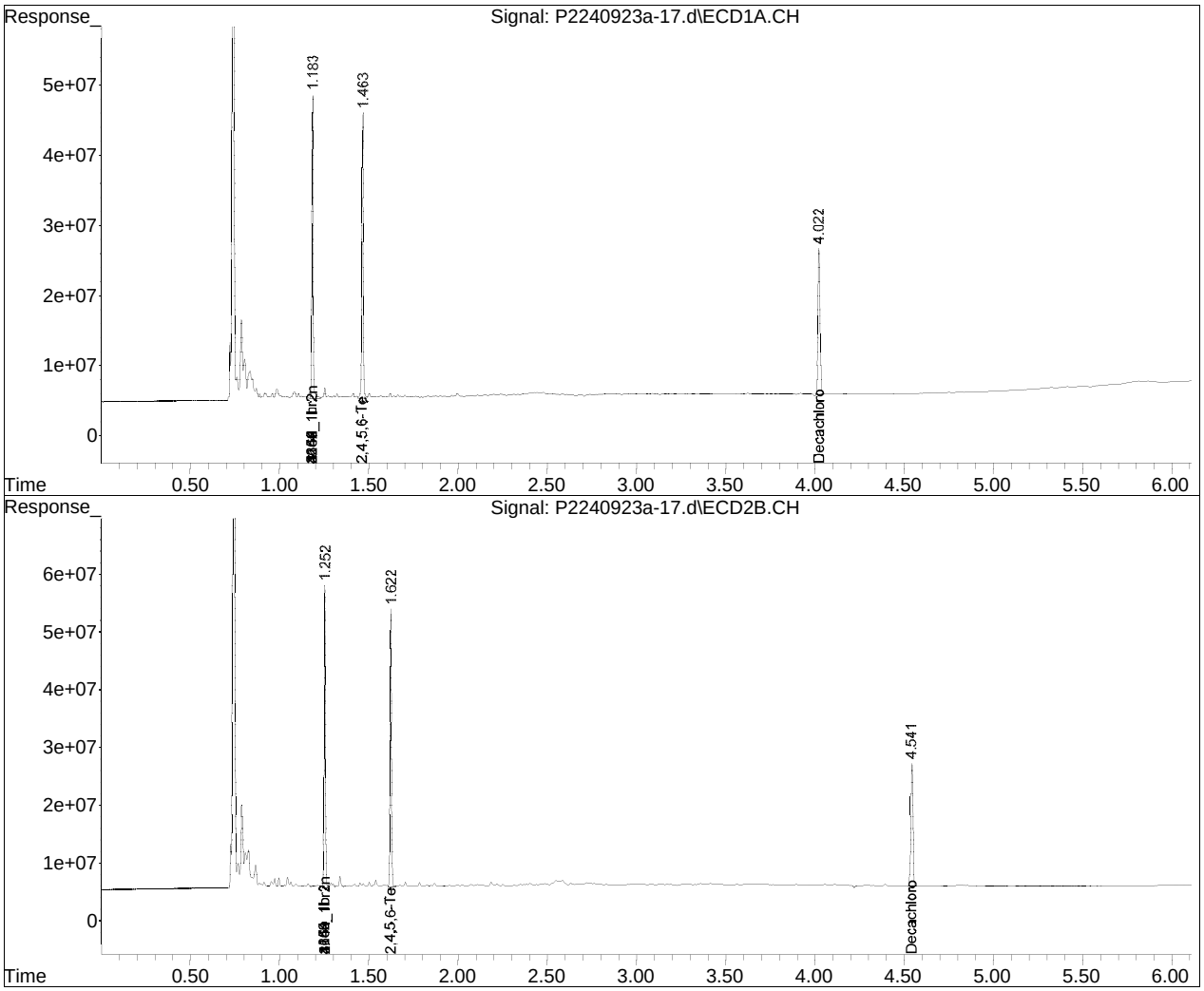
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240923a-04.D•

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:30
Operator : pest2:mhg
Sample : WG1974859-1,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:27:08 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

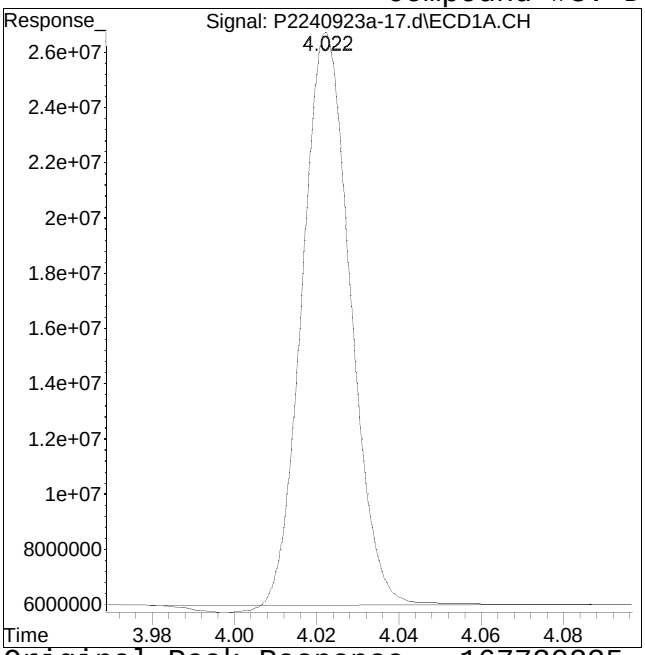
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

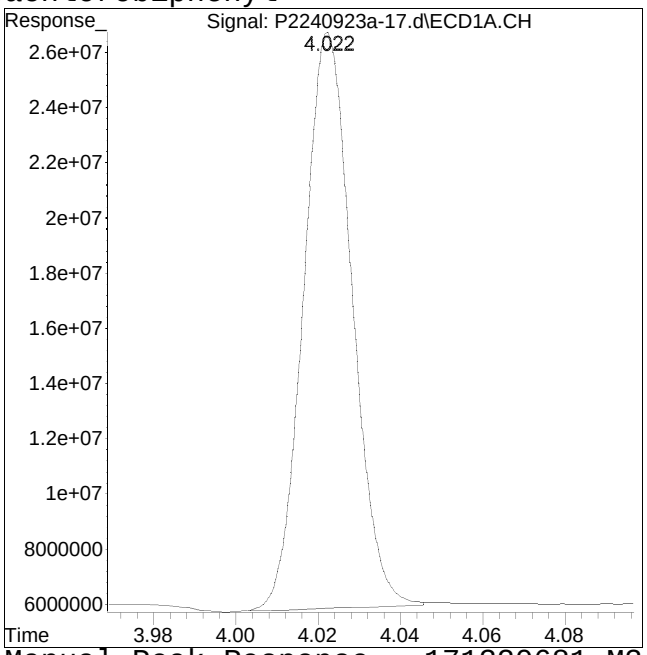


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-17.d Operator : pest2:mhg
Date Inj'd : 9/23/2024 9:30 Instrument : Pest 2
Sample : WG1974859-1,42,, Quant Date : 9/23/2024 11:27 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 167730235 Manual Peak Response = 171320681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:39
Operator : pest2:mhg
Sample : WG1974859-2,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21500 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:02 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.253	231.4E6	265.4E6	25.000	25.000
Standard Area 1 : #1 = 217079656				Recovery =	106.58%	
Standard Area 1 : #2 = 283381438				Recovery =	93.66%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.623	227.3E6	265.1E6	16.931	15.243
Spiked Amount 20.000	Range 30 - 150		Recovery =	84.66%	76.22%	
3) s Decachlorobi	4.023	4.541	178.9E6	182.0E6	16.756	15.566
Spiked Amount 20.000	Range 30 - 150		Recovery =	83.78%	77.83%	
Target Compounds						
4) l1 1016-1	1.601	1.822	49618029	63532748	198.236	198.247
5) l1 1016-2	1.741	1.992	112.1E6	137.7E6	205.738	198.592
6) l1 1016-3	1.928	2.193	235.0E6	272.7E6	217.565	196.193
7) l1 1016-4	1.983	2.253	101.9E6	108.7E6	223.831	193.808
8) l1 1016-5	2.152	2.463	105.8E6	89504658	211.089	200.100
Sum 1016-1			604.4E6	672.1E6	1056.460	986.939
Average 1016-1					211.292	197.388
9) l2 1260-1	2.693	3.071	140.1E6	175.1E6	203.076	200.666
10) l2 1260-2	2.823	3.172	219.1E6	192.8E6	209.127	187.029
11) l2 1260-3	3.138	3.564	134.7E6	161.9E6	212.240	192.164
12) l2 1260-4	3.293	3.693	299.8E6	321.7E6	215.235	194.996
13) l2 1260-5	3.440	3.894	223.3E6	231.3E6	224.399M1	197.021
Sum 1260-1			1016.9E6	1082.7E6	1064.076	971.876
Average 1260-1					212.815	194.375
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:39
Operator : pest2:mhg
Sample : WG1974859-2,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21500 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:02 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

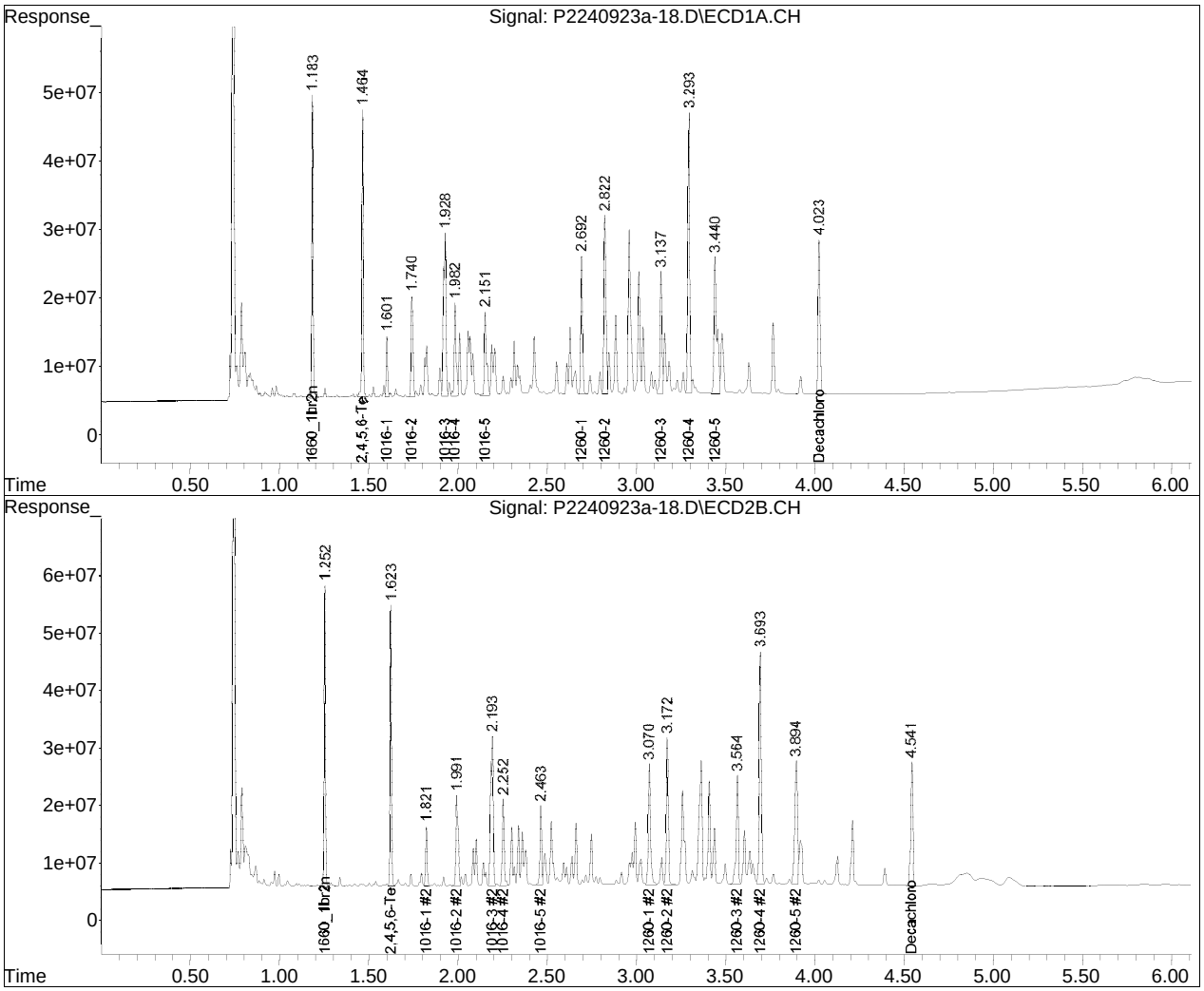
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240923a\P2240923a-04.D•

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:39
Operator : pest2:mhg
Sample : WG1974859-2,42,,
Misc : WG1974934,WG1974859,ICAL21500 (Sig #1); WG1974934,WG1974750,ICAL21
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:02 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

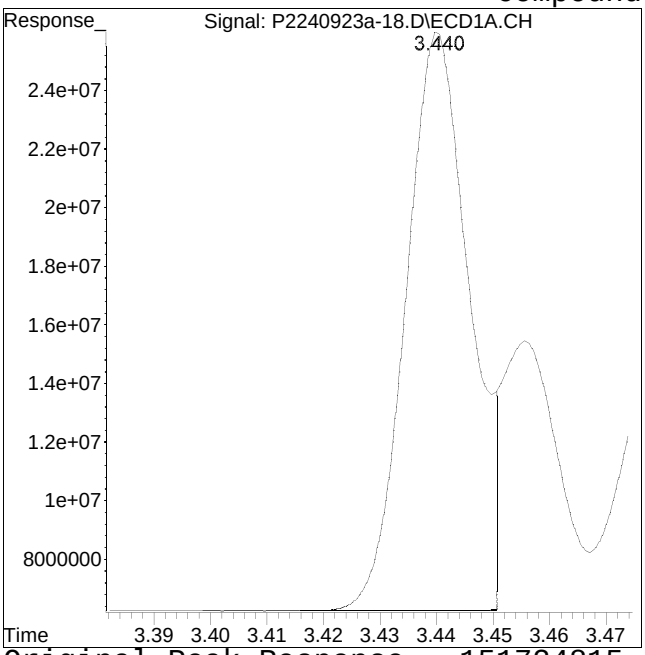
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

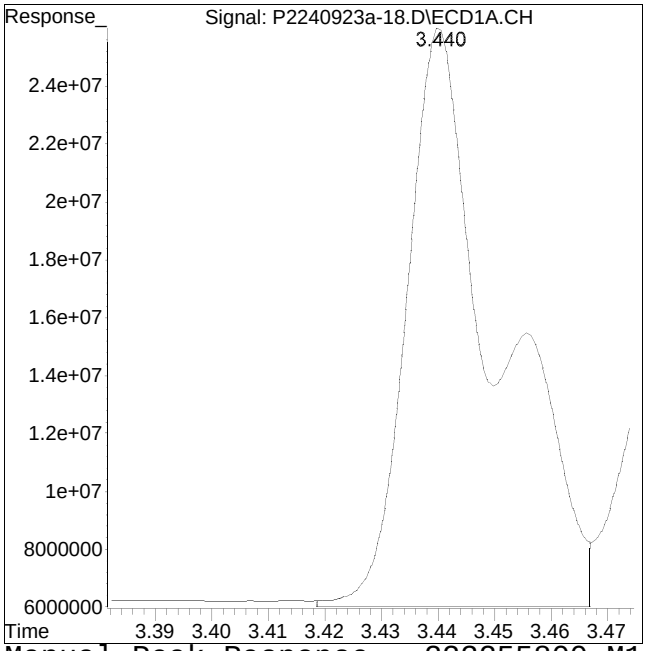


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-18.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 9:39 Instrument : Pest 2
Sample : WG1974859-2,42,, Quant Date : 9/23/2024 11:28 am

Compound #13: 1260-5





Original Peak Response = 151724815 Manual Peak Response = 223255800 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:48
Operator : pest2:mhg
Sample : WG1974859-3,42,,
Misc : WG1974934,WG1974859,ICAL21500
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:05 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.253	223.4E6	263.8E6	25.000	25.000
Standard Area 1 : #1 = 217079656				Recovery =	102.89%	
Standard Area 1 : #2 = 283381438				Recovery =	93.10%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.623	217.0E6	255.3E6	16.742	14.768
Spiked Amount 20.000	Range 30 - 150		Recovery =	83.71%	73.84%	
3) s Decachlorobi	4.025	4.542	174.5E6	179.6E6	16.929	15.454
Spiked Amount 20.000	Range 30 - 150		Recovery =	84.64%	77.27%	
Target Compounds						
4) l1 1016-1	1.601	1.822	48079361	62303926	198.963	195.595
5) l1 1016-2	1.741	1.992	111.2E6	132.7E6	211.245M3	192.555
6) l1 1016-3	1.928	2.192	229.3E6	270.0E6	219.875	195.459
7) l1 1016-4	1.983	2.253	97827011	107.7E6	222.654	193.333
8) l1 1016-5	2.152	2.463	101.0E6	89721536	208.741	201.805
Sum 1016-1			587.4E6	662.5E6	1061.479	978.746
Average 1016-1					212.296	195.749
9) l2 1260-1	2.693	3.071	137.4E6	174.4E6	206.378	201.050
10) l2 1260-2	2.823	3.172	216.5E6	192.6E6	213.962	187.955
11) l2 1260-3	3.138	3.564	133.0E6	161.2E6	217.069	192.529
12) l2 1260-4	3.293	3.693	296.8E6	318.3E6	220.703	194.169
13) l2 1260-5	3.441	3.894	217.6E6	232.2E6	226.567M1	199.028
Sum 1260-1			1001.3E6	1078.7E6	1084.679	974.731
Average 1260-1					216.936	194.946
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:48
Operator : pest2:mhg
Sample : WG1974859-3,42,,
Misc : WG1974934,WG1974859,ICAL21500
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:05 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240923a\P2240923a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

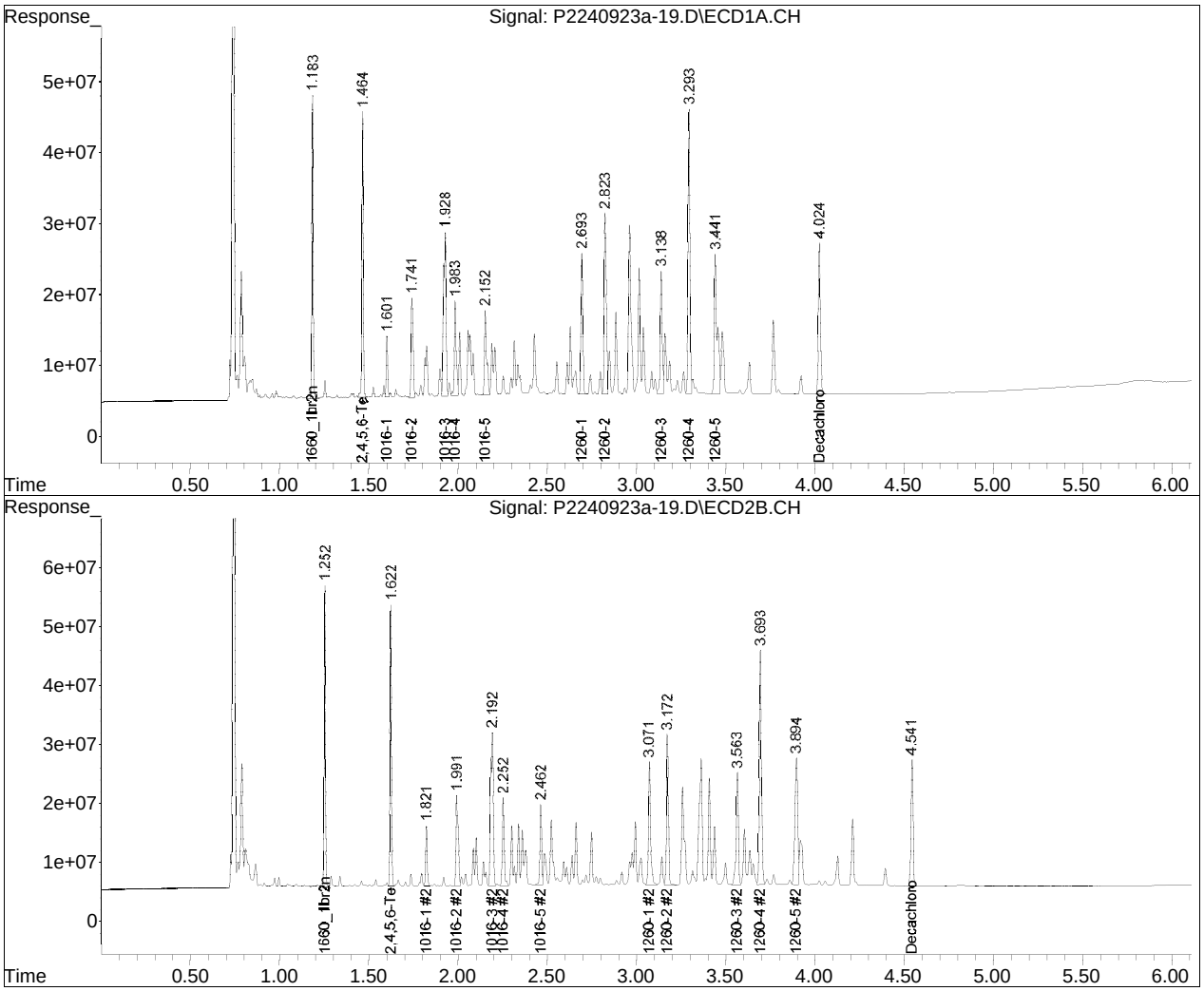
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240923a\P2240923a-04.D•

Data Path : I:\PCB\Pest2\2024\240923a\
Data File : P2240923a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 9:48
Operator : pest2:mhg
Sample : WG1974859-3,42,,
Misc : WG1974934,WG1974859,ICAL21500
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:05 2024
Quant Method : I:\PCB\Pest2\2024\240923A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

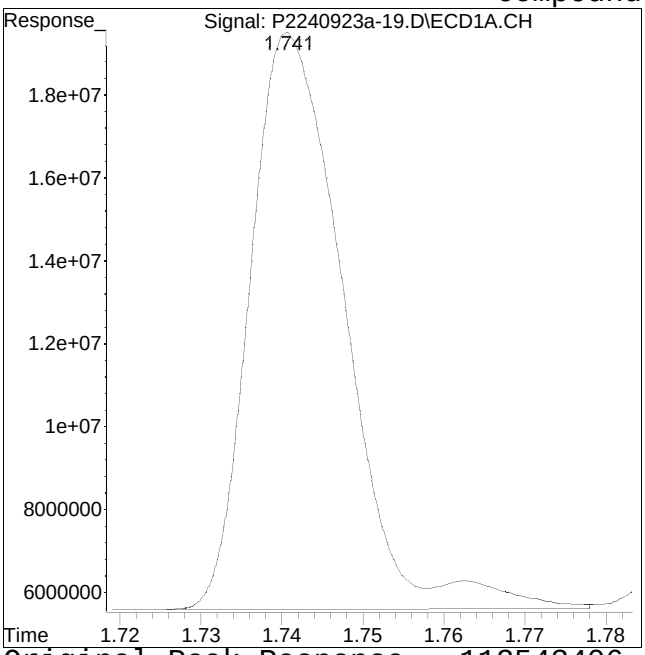
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

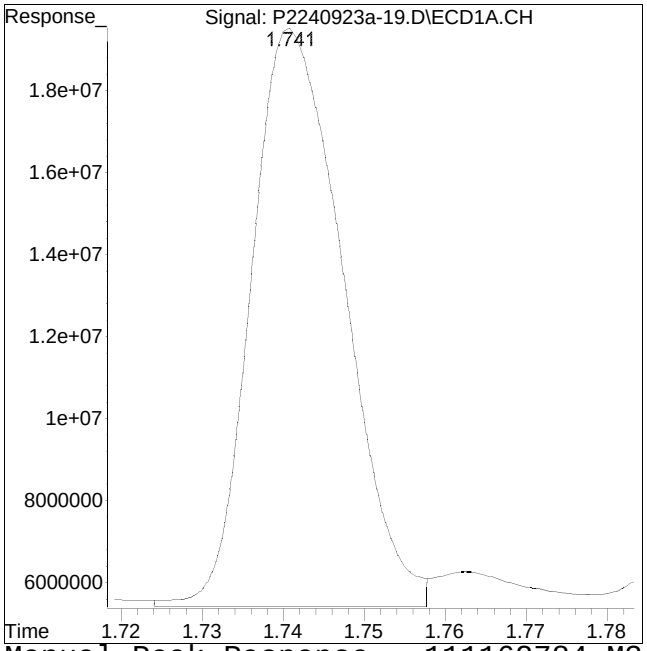


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-19.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 9:48 Instrument : Pest 2
Sample : WG1974859-3,42,, Quant Date : 9/23/2024 11:28 am

Compound #5: 1016-2



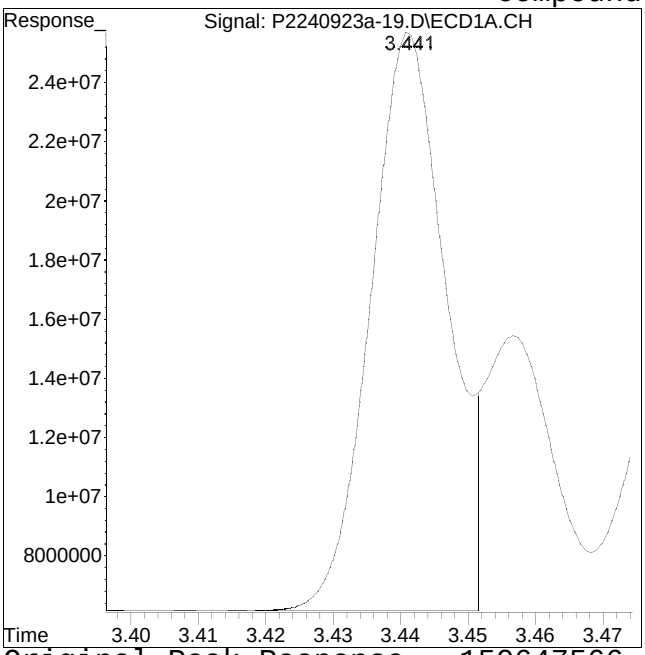


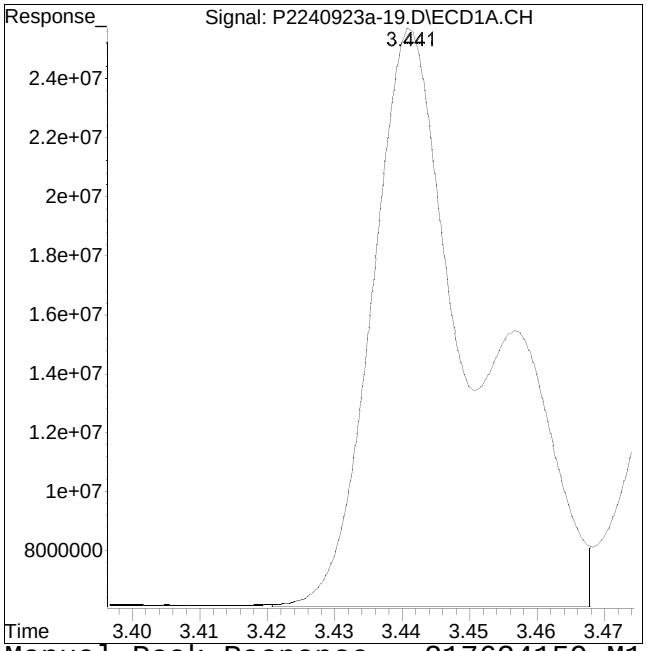
Original Peak Response = 112543406 Manual Peak Response = 111162784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240923a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240923a-19.D Operator : pest2:mhg
Date Inj'd : 9/23/2024 9:48 Instrument : Pest 2
Sample : WG1974859-3,42,, Quant Date : 9/23/2024 11:28 am

Compound #13: 1260-5





Original Peak Response = 150647566 Manual Peak Response = 217624159 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **09/16/24**
Run: I

Method: 8082
GC: PCB RVT

Seq: ICAL21500
IS: pp11660
WG1972777

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240916i-01	blk				
1	P2240916i-02	blk				
1	P2240916i-03	blk				
1	P2240916i-04	blk				
1	P2240916i-05	blk				
2	P2240916i-06	il11660,42,,pp11790 4PPB				kab/sdc 9/17
3	P2240916i-07	il21660,42,,pp11790 10PPB				kab/sdc 9/17
4	P2240916i-08	il31660,42,,pp11790 20PPB				kab/sdc 9/17
5	P2240916i-09	il41660,42,,pp11790 30PPB				kab/sdc 9/17
6	P2240916i-10	il51660,42,,pp11790 40PPB				kab/sdc 9/17
7	P2240916i-11	il61660,42,,pp11790 50PPB				kab/sdc 9/17
8	P2240916i-12	il71660,42,,pp11790 100PPB				kab/sdc 9/17
9	P2240916i-13	il81660,42,,pp11790 250PPB				kab/sdc 9/17
10	P2240916i-14	il91660,42,,pp11790 500PPB				kab/sdc 9/17
11	P2240916i-15	il101660,42,,pp11790 1000PPB				kab/sdc 9/17
12	P2240916i-16	cicv1660,42,, ICV 250 pp11765				kab/sdc 9/17
1	P2240916i-17	instrument blank				kab/sdc 9/17
31	P2240916i-18	L8 RVT 2154 250 pp11766				kab/sdc 9/17
32	P2240916i-19	L8 RVT 1248 250 pp11767				kab/sdc 9/17
33	P2240916i-20	L8 RVT 3262 250 pp11768				kab/sdc 9/17
34	P2240916i-21	L8 RVT 4268 250 pp11769				kab/sdc 9/17
41	P2240916i-22	2154 ICV 250 pp11770				kab/sdc 9/17
42	P2240916i-23	1248 ICV 250 pp11771				kab/sdc 9/17
43	P2240916i-24	3262 ICV 250 pp11773				kab/sdc 9/17
44	P2240916i-25	4268 ICV 250 pp11772				kab/sdc 9/17

Dep.: PCB
Inst: Pest_2
Date: **09/23/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1974934
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240923a-01	blk				
1	P2240923a-02	blk				
1	P2240923a-03	blk				
4	P2240923a-04	cicv1660,42,, lvi pp11776	20% 5:57 akm			mhg 9/23
5	P2240923a-05	cicv2154,42,, lvi pp11761				
6	P2240923a-06	cicv1248,42,, lvi pp11740				mhg 9/23
7	P2240923a-07	cicv4268,42,, lvi pp11775				mhg 9/23
8	P2240923a-08	blk				
9	P2240923a-09	cicv2154,42,, lvi pp11761 rr				mhg 9/23
10	P2240923a-10	WG1974795-1,42,,		mhg		mhg 9/23
11	P2240923a-11	WG1974795-2,42,,				mhg 9/23
12	P2240923a-12	WG1974795-3,42,,				mhg 9/23
13	P2240923a-13	L2454090-06,42,,,R3A re				mhg 9/23
14	P2240923a-14	L2452909-14,42,,				mhg 9/23
15	P2240923a-15	L2452904-02d,42,5,,				mhg 9/23
16	P2240923a-16	L2452901-01d,42,5,,				mhg 9/23
17	P2240923a-17	WG1974859-1,42,,				mhg 9/23
18	P2240923a-18	WG1974859-2,42,,				mhg 9/23
19	P2240923a-19	WG1974859-3,42,,				mhg 9/23
20	P2240923a-20	L2452799-01,42,, re				mhg 9/23
21	P2240923a-21	WG1974750-1,42,,				mhg 9/23
22	P2240923a-22	WG1974750-2,42,,				mhg 9/23
23	P2240923a-23	WG1974750-3,42,,				mhg 9/23
24	P2240923a-24	L2453071-01,42,,				mhg 9/23
25	P2240923a-25	WG1974385-1,42,,				mhg 9/23
26	P2240923a-26	WG1974385-2,42,,				mhg 9/23
27	P2240923a-27	WG1974385-3,42,,				mhg 9/23
28	P2240923a-28	L2454343-39,42,,,R1A	5x 48			
29	P2240923a-29	L2453071-02,42,,				mhg 9/23
30	P2240923a-30	L2453071-03,42,,				mhg 9/23
31	P2240923a-31	L2453084-01,42,,				mhg 9/23
32	P2240923a-32	L2453084-02,42,,				mhg 9/23
33	P2240923a-33	L2453084-03,42,,				mhg 9/23
34	P2240923a-34	L2453084-04,42,,				mhg 9/23
35	P2240923a-35	L2454343-39d,42,5,,,R1A				mhg 9/23
36	P2240923a-36	L2453084-05,42,,				mhg 9/23
37	P2240923a-37	L2453084-06,42,,				mhg 9/23
38	P2240923a-38	L2453084-07,42,,				mhg 9/23
39	P2240923a-39	L2453084-08,42,,				mhg 9/23
40	P2240923a-40	L2453084-09,42,,				mhg 9/23
41	P2240923a-41	L2453084-10,42,,				mhg 9/23
42	P2240923a-42	cicv +1660 lvi pp11776	low, bake		mhg	
43	P2240923a-43	cicv +1660 lvi pp11776	ChA, ND only			kab 9/23
44	P2240923a-44	blank				
45	P2240923a-45	cicv2154,42,, lvi pp11761				

Dep.: PCB
Inst: Pest_2
Date: **09/23/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1974934
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	P2240923a-46	cicv1248,42,, lvi pp11740				
47	P2240923a-47	cicv4268,42,, lvi pp11775				
48	P2240923a-48	L2453084-11,42,,		meo		meo 9/24
49	P2240923a-49	L2453084-12,42,,				meo 9/24
50	P2240923a-50	L2453084-13,42,,				meo 9/24
51	P2240923a-51	L2453084-16,42,,				meo 9/24
52	P2240923a-52	L2453084-15,42,,				meo 9/24
53	P2240923a-53	L2453053-01,42,, p				meo 9/24
54	P2240923a-54	WG1974231-4,42,, ms				meo 9/24
55	P2240923a-55	WG1974231-5,42,, msd				meo 9/24
56	P2240923a-56	L2453053-02,42,,				meo 9/24
57	P2240923a-57	L2453053-05,42,,				meo 9/24
58	P2240923a-58	L2453053-04,42,,				meo 9/24
59	P2240923a-59	L2453053-03,42,,				meo 9/24
60	P2240923a-60	L2452833-11,42,,		kab		kab 9/23
61	P2240923a-61	L2453051-01,42,,		meo		meo 9/24
62	P2240923a-62	L2453051-02,42,,				meo 9/24
63	P2240923a-63	L2453108-05,42,, p				meo 9/24
64	P2240923a-64	WG1974385-4,42,, ms				meo 9/24
65	P2240923a-65	WG1974385-5,42,, dup				meo 9/24
66	P2240923a-66	L2453124-05,42,,				meo 9/24
67	P2240923a-67	L2453887-01,42,,,R3C				meo 9/24
68	P2240923a-68	L2453989-09,42,,,R1C				meo 9/24
69	P2240923a-69	L2454463-01,42,,,R3A p				meo 9/24
70	P2240923a-70	WG1974795-4,42,, ms				meo 9/24
71	P2240923a-71	WG1974795-5,42,, msd				meo 9/24
72	P2240923a-72	L2454463-02,42,,,R3A				meo 9/24
73	P2240923a-73	L2454463-03,42,,,R3A			mhg	meo 9/24

Dep.: PCB
Inst: Pest_2
Date: **09/24/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1975391
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240924a-02	blk				
1	P2240924a-03	blk				
4	P2240924a-04	cicv1660,42,, lvi pp11776	20% 5:56 391-1 akm			mhg 9/24
5	P2240924a-05	cicv2154,42,, lvi pp11761	low			
6	P2240924a-06	cicv1248,42,, lvi pp11740	pass			mhg 9/24
7	P2240924a-07	cicv4268,42,, lvi pp11775	pass			
8	P2240924a-08	WG1974943-1,42,, 5058		mhg		mhg 9/24
9	P2240924a-09	WG1974943-2,42,, 5058				mhg 9/24
10	P2240924a-10	WG1974943-3,42,, 5058				mhg 9/24
11	P2240924a-11	L2453680-07,42,,,R1B				mhg 9/24
12	P2240924a-12	L2454343-40,42,,,R1A				mhg 9/24
13	P2240924a-13	L2454609-10,42,,,R3A				mhg 9/24
14	P2240924a-14	L2453429-06,42,,				mhg 9/24
15	P2240924a-15	L2453108-07,42,, -08 p				
16	P2240924a-16	WG1974943-4,42,, ms 5058				
17	P2240924a-17	WG1974943-5,42,, dup 5058				
18	P2240924a-18	L2454463-04,42,,,R3A				mhg 9/24
19	P2240924a-19	L2454463-05,42,,,R3A				mhg 9/24
20	P2240924a-20	L2454463-06,42,,,R3A				mhg 9/24
21	P2240924a-21	L2454463-07,42,,,R3A				mhg 9/24
22	P2240924a-22	L2453335-01,42,,				mhg 9/24
23	P2240924a-23	L2453335-02,42,,				mhg 9/24
24	P2240924a-24	L2453335-03,42,,				mhg 9/24
25	P2240924a-25	L2453335-04,42,,				mhg 9/24
26	P2240924a-26	L2453335-05,42,,				mhg 9/24
27	P2240924a-27	L2453335-06,42,,				mhg 9/24
28	P2240924a-28	WG1974700-1,42,,				mhg 9/24
29	P2240924a-29	WG1974700-2,42,,				mhg 9/24
30	P2240924a-30	WG1974700-3,42,,				mhg 9/24
31	P2240924a-31	L2453129-01,42,,				mhg 9/24
32	P2240924a-32	L2453129-03,42,,	rr 54			
33	P2240924a-33	L2453129-04,42,,				mhg 9/24
34	P2240924a-34	L2453129-05,42,,	5x 54			
35	P2240924a-35	L2453129-07,42,,				mhg 9/24
36	P2240924a-36	cicv1660,42,, lvi pp11776	low, bake		akm	
37	P2240924a-37	cicv1660,42,, lvi pp11776	low, bake			
38	P2240924a-38	blk				
38	P2240924a-39	blk				
38	P2240924a-40	blk				
41	P2240924a-41	cicv1660,42,, lvi pp11776	20% 13:57 391-5 sdc			meo 9/25
42	P2240924a-42	blank				
43	P2240924a-43	cicv2154,42,, lvi pp11761	pass			meo 9/25
44	P2240924a-44	cicv1248,42,, lvi pp11740	pass			
45	P2240924a-45	cicv4268,42,, lvi pp11775	pass		sdc	meo 9/25
46	P2240924a-46	blank				

Dep.: PCB
Inst: Pest_2
Date: **09/24/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1975391
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
47	P2240924a-47	L2452203-01,42,, rr		rmp		meo 9/25
48	P2240924a-48	L2453129-03,42,, rr				meo 9/25
49	P2240924a-49	L2453129-05d,42,5,				meo 9/25
50	P2240924a-50	L2453129-06,42,,				meo 9/25
51	P2240924a-51	L2453129-02,42,,				meo 9/25
52	P2240924a-52	L2453108-06,42,, p				meo 9/25
53	P2240924a-53	WG1974700-4,42,, ms				meo 9/25
54	P2240924a-54	WG1974700-5,42,, dup			mhg	meo 9/25
55	P2240924a-55	L2453342-01,42,,				meo 9/25
56	P2240924a-56	L2453342-02,42,,				meo 9/25
57	P2240924a-57	L2453342-03,42,,				meo 9/25
58	P2240924a-58	L2453342-04,42,,				meo 9/25
59	P2240924a-59	L2453342-05,42,,				meo 9/25
60	P2240924a-60	L2453342-06,42,,				meo 9/25
61	P2240924a-61	L2453342-07,42,,				meo 9/25
62	P2240924a-62	L2453342-08,42,,				meo 9/25
63	P2240924a-63	L2453342-10,42,,				meo 9/25
64	P2240924a-64	L2453397-01,42,,				meo 9/25
65	P2240924a-65	L2453603-01,42,,				meo 9/25
66	P2240924a-66	L2453603-05,42,,				meo 9/25
67	P2240924a-67	WG1975305-1,42,,				meo 9/25
68	P2240924a-68	WG1975305-2,42,,				meo 9/25
69	P2240924a-69	WG1975305-3,42,,				meo 9/25
70	P2240924a-70	L2453311-05,42,,			meo	meo 9/25

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Oct 10 2024, 01:49 pm

Work Group: WG1974859 for Department: 2 Organic Preparation

Created: 22-SEP-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2452799-01	FB-20240913	S	NYTCL-8082-LVI	WATER	DONE	U	0913	0920	S0	Amber-A.120
L2453335-01	HRP-MW5A-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453335-02	HRP-MW5B-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453335-03	MW-21B-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453335-04	MW-21A-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453335-05	HRP-MW3-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453335-06	HRP-MW1-091724	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-01	MP-1	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-02	MP-1D	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-03	MW-13D	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-04	MW-13S	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-05	MW-10D	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-06	MW-10S	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-07	MW-6D	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-08	PZ-6	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453342-10	EQUIPMENT BLANK	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	S0	Amber-A.120
L2453397-01	MAHWAH RO-TYPE II	S	NYTCL-8082-LVI	WATER	DONE	U	0917	0924	NC	Amber-A.120
WG1974859-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1974859-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1974859-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1974859-3 WG1974859-2

ORGANIC ELN REPORT

Workgroup: WG1974859

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ049
Surrogate Type: Pesticide/PCB **Lot #:** PP11735AZ,02/06/2025
Spike Type: PCB **Lot #:** PP11722ab,01/12/2025,6l,5,4
Spike Verify by: LJO
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** ej061

Additional Reagents/Stds

H2SO4	2024071607

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

Copper	2406cpg002

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2452799-01 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453335-01 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453335-02 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453335-03 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1

Reported: 10-OCT-24 01:49 PM

ORGANIC ELN REPORT

Workgroup: WG1974859

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453335-04 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453335-05 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453335-06 SAMP	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
L2453342-01 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-02 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-03 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-04 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-05 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3

ORGANIC ELN REPORT

Workgroup: WG1974859

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2453342-06 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-07 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-08 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453342-10 SAMP	09/23/24 01:54	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
L2453397-01 SAMP	09/23/24 00:26	Amanda Patterson	140	>5, <9	.1		09/23/24 10:25	Tian-Long Chheou	5	H, K, 3
WG1974859-1 BLANK	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1		09/22/24 21:55	Paolo Roffo	5	C / A / #1
WG1974859-2 LCS	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1	.1	09/22/24 21:55	Paolo Roffo	5	C / A / #1
WG1974859-3 LCSD	09/22/24 18:42	Luke O'Donnell	140	>5, <9	.1	.1	09/22/24 21:55	Paolo Roffo	5	C / A / #1

ORGANIC ELN REPORT

Workgroup: WG1974859

Reported: 10-OCT-24 01:49 PM

ORGANIC ELN REPORT

Workgroup: WG1974859

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2452799-01 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-01 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-02 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-03 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-04 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-05 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453335-06 SAMP	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
L2453342-01 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-02 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-03 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-04 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere

Reported: 10-OCT-24 01:49 PM

ORGANIC ELN REPORT

Workgroup: WG1974859

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2453342-05 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-06 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-07 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-08 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453342-10 SAMP	09/23/24 12:27	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
L2453397-01 SAMP	09/23/24 12:28	Grace Tran	5	1	09/24/24 16:30	Emelia Asabere
WG1974859-1 BLANK	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
WG1974859-2 LCS	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie
WG1974859-3 LCSD	09/22/24 22:12	Victor Kono	5	1	09/23/24 02:07	Priscilla Sarkodie

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453342
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MP-1 (L2453342-01)	32	32	34	35			0
MP-1D (L2453342-02)	40	40	34	39			0
MW-13D (L2453342-03)	35	35	31	36			0
MW-13S (L2453342-04)	54	53	50	55			0
MW-10D (L2453342-05)	60	59	55	60			0
MW-10S (L2453342-06)	51	52	43	51			0
MW-6D (L2453342-07)	55	55	49	53			0
PZ-6 (L2453342-08)	55	54	52	55			0
EQUIPMENT BLANK (L2453342-10)	54	54	45	49			0
WG1974839-1BLANK	12*	11*	12*	12*			4
WG1974839-2LCS	64	59	56	55			0
WG1974839-3LCSD	64	58	55	53			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974839-2 **Analysis Date** : 09/23/24 14:32	**File ID**	: 11240923a-38
LCSD Sample ID	: WG1974839-3 **Analysis Date** : 09/23/24 14:44	**File ID**	: 11240923a-39

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.228	64	0.357	0.223	62	2	30-150	20
Lindane	0.357	0.245	69	0.357	0.241	68	2	30-150	20
Alpha-BHC	0.357	0.235	66	0.357	0.231	65	2	30-150	20
Beta-BHC	0.357	0.233	65	0.357	0.229	64	2	30-150	20
Heptachlor	0.357	0.250	70	0.357	0.243	68	3	30-150	20
Aldrin	0.357	0.230	64	0.357	0.230	64	0	30-150	20
Heptachlor epoxide	0.357	0.241	68	0.357	0.236	66	2	30-150	20
Endrin	0.357	0.250	70	0.357	0.245	69	2	30-150	20
Endrin aldehyde	0.357	0.199	56	0.357	0.194	54	3	30-150	20
Endrin ketone	0.357	0.255	71	0.357	0.250	70	2	30-150	20
Dieldrin	0.357	0.268	75	0.357	0.262	73	2	30-150	20
4,4'-DDE	0.357	0.237	66	0.357	0.228	64	4	30-150	20
4,4'-DDD	0.357	0.260	73	0.357	0.252	71	3	30-150	20
4,4'-DDT	0.357	0.234	66	0.357	0.232	65	1	30-150	20
Endosulfan I	0.357	0.242	68	0.357	0.232	65	4	30-150	20
Endosulfan II	0.357	0.258	72	0.357	0.249	70	4	30-150	20
Endosulfan sulfate	0.357	0.260	73	0.357	0.252	71	3	30-150	20
Methoxychlor	0.357	0.255	71	0.357	0.247	69	3	30-150	20
cis-Chlordane	0.357	0.223	62	0.357	0.219	61	2	30-150	20
trans-Chlordane	0.357	0.269	75	0.357	0.264	74	2	30-150	20

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974839-1	**Lab File ID**	: 11240923a-37
Matrix	: WATER	**Extraction Date**	: 09/22/24
Analysis Date (1)	: 09/23/24 14:20	**Analysis Date (2)**	: 09/23/24 14:20
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1974839-2LCS	WG1974839-2	09/23/24 14:32	09/23/24 14:32
WG1974839-3LCSD	WG1974839-3	09/23/24 14:44	09/23/24 14:44
MP-1	L2453342-01	09/24/24 12:07	09/24/24 12:07
MP-1D	L2453342-02	09/24/24 12:18	09/24/24 12:18
MW-13D	L2453342-03	09/24/24 12:30	09/24/24 12:30
MW-13S	L2453342-04	09/24/24 12:41	09/24/24 12:41
MW-10D	L2453342-05	09/24/24 12:53	09/24/24 12:53
MW-10S	L2453342-06	09/24/24 13:04	09/24/24 13:04
MW-6D	L2453342-07	09/24/24 13:16	09/24/24 13:16
PZ-6	L2453342-08	09/24/24 13:27	09/24/24 13:27
EQUIPMENT BLANK	L2453342-10	09/24/24 13:38	09/24/24 13:38

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 08/01/24 08/01/24

Client ID	Lab ID	Date/Time Analyzed
R1860455-1 PEM	R1860455-1	08/01/24 18:25
Pesticides L1 (0.5ug/L)	R1860455-2	08/01/24 18:37
Pesticides L2 (1.0ug/L)	R1860455-3	08/01/24 18:49
Pesticides L3 (2.0ug/L)	R1860455-4	08/01/24 19:01
Pesticides L4 (3.0ug/L)	R1860455-5	08/01/24 19:13
Pesticides L5 (4.0ug/L)	R1860455-6	08/01/24 19:25
Pesticides L7 (10.0ug/L)	R1860455-7	08/01/24 19:37
Pesticides L8 (50.0ug/L)	R1860455-8	08/01/24 19:49
Pesticides L9 (100ug/L)	R1860455-9	08/01/24 20:01
Pesticides L10 (200ug/L)	R1860455-10	08/01/24 20:12
Pesticides L11 (400ug/L)	R1860455-11	08/01/24 20:25
R1860455-12 ICV	R1860455-12	08/01/24 20:36
Chlordane L3 (10ug/L)	R1860455-13	08/01/24 20:48
Chlordane L4 (20ug/L)	R1860455-14	08/01/24 21:00
Chlordane L5 (100ug/L)	R1860455-15	08/01/24 21:12
Chlordane L7 (500ug/L)	R1860455-16	08/01/24 21:24
Chlordane L8 (1000ug/L)	R1860455-18	08/01/24 21:36
Chlordane L9 (2000ug/L)	R1860455-17	08/01/24 21:48
Chlordane L10 (5000ug/L)	R1860455-19	08/01/24 22:00
R1860455-20 ICV	R1860455-20	08/01/24 22:12
Toxaphene L3 (20.0ug/L)	R1860455-21	08/01/24 22:24
Toxaphene L4 (100ug/L)	R1860455-22	08/01/24 22:36
Toxaphene L7 (1000ug/L)	R1860455-23	08/01/24 22:47
Toxaphene L8 (2000ug/L)	R1860455-24	08/01/24 22:59
Toxaphene L9 (5000ug/L)	R1860455-25	08/01/24 23:11
R1860455-26 ICV	R1860455-26	08/01/24 23:23
R1879294-1 PEM	R1879294-1	09/23/24 07:05
WG1974956-1 CCAL	WG1974956-1	09/23/24 07:17
WG1974956-2 CCAL	WG1974956-2	09/23/24 07:29
WG1974956-3 CCAL	WG1974956-3	09/23/24 07:41
WG1974839-1 BLANK	WG1974839-1	09/23/24 14:20
WG1974839-2 LCS	WG1974839-2	09/23/24 14:32
WG1974839-3 LCSD	WG1974839-3	09/23/24 14:44

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Initial Calib. Date(s)**	: 08/15/24 08/15/24

Client ID	Lab ID	Date/Time Analyzed
R1866294-1 PEM	R1866294-1	08/15/24 13:54
Pesticides L1 (0.5ug/L)	R1866294-2	08/15/24 14:05
Pesticides L2 (1.0ug/L)	R1866294-3	08/15/24 14:16
Pesticides L3 (2.0ug/L)	R1866294-4	08/15/24 14:28
Pesticides L4 (3.0ug/L)	R1866294-5	08/15/24 14:39
Pesticides L5 (4.0ug/L)	R1866294-6	08/15/24 14:51
Pesticides L7 (10.0ug/L)	R1866294-7	08/15/24 15:02
Pesticides L8 (50.0ug/L)-	R1866294-8	08/15/24 15:14
Pesticides L9 (100ug/L)	R1866294-9	08/15/24 15:25
Pesticides L10 (200ug/L)	R1866294-10	08/15/24 15:36
Pesticides L11 (400ug/L)	R1866294-11	08/15/24 15:48
R1866294-12 ICV	R1866294-12	08/15/24 15:59
Chlordane L3 (10ug/L)	R1866294-13	08/15/24 16:11
Chlordane L4 (20ug/L)	R1866294-15	08/15/24 16:22
Chlordane L5 (100ug/L)	R1866294-14	08/15/24 16:34
Chlordane L7 (500ug/L)	R1866294-16	08/15/24 16:45
Chlordane L8 (1000ug/L)	R1866294-17	08/15/24 16:56
Chlordane L9 (2000ug/L)	R1866294-18	08/15/24 17:08
R1866294-19 ICV	R1866294-19	08/15/24 17:31
Toxaphene L3 (20.0ug/L)	R1866294-20	08/15/24 17:42
Toxaphene L4 (100ug/L)	R1866294-21	08/15/24 17:54
Toxaphene L7 (1000ug/L)	R1866294-22	08/15/24 18:05
Toxaphene L8 (2000ug/L)	R1866294-23	08/15/24 18:17
Toxaphene L9 (5000ug/L)	R1866294-25	08/15/24 18:28
R1866294-24 ICV	R1866294-24	08/15/24 18:39
R1879732-1 PEM	R1879732-1	09/24/24 09:52
WG1975559-2 CCAL	WG1975559-2	09/24/24 10:15
WG1975559-3 CCAL	WG1975559-3	09/24/24 10:27
WG1975559-1 CCAL	WG1975559-1	09/24/24 10:38
MP-1	L2453342-01	09/24/24 12:07
MP-1D	L2453342-02	09/24/24 12:18
MW-13D	L2453342-03	09/24/24 12:30
MW-13S	L2453342-04	09/24/24 12:41
MW-10D	L2453342-05	09/24/24 12:53
MW-10S	L2453342-06	09/24/24 13:04
MW-6D	L2453342-07	09/24/24 13:16
PZ-6	L2453342-08	09/24/24 13:27
EQUIPMENT BLANK	L2453342-10	09/24/24 13:38

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
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File: PM14021-1
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Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:07
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-12	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:18
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-13	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:30
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-14	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:30
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-14	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
50-29-3	4,4'-DDT	ND	0.029	0.003	UIP

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:41
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-15	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:53
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-16	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:04
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-17	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:16
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-18	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:27
Sample Matrix	: WATER	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-19	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:38
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240924c-20	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974839-1	**Date Collected**	: NA
Client ID	: WG1974839-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 14:20
Sample Matrix	: WATER	**Date Extracted**	: 09/22/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240923a-37	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:07
Operator : PEST18:akm
Sample : L2453342-01,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:11 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.713	1.811	750.6E6	455.2E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 113.96%		
	Standard Area 1 : #2 = 368373311				Recovery = 123.58%		
28) i	1-br-2-nb_Ch	1.713	1.811	750.6E6	455.2E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.713	1.811	750.6E6	455.2E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.148	2.368	588.0E6	339.3E6	16.057M4	15.803M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 32.11%		31.61%
27) s	Decachlorobi	6.954	7.571	623.3E6	306.3E6	17.049M4	17.654M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 34.10%		35.31%
	Target Compounds						
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:07
Operator : PEST18:akm
Sample : L2453342-01,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:11 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)		Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000
		SemiQuant Compounds - Not Calibrated on this Instrument						
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

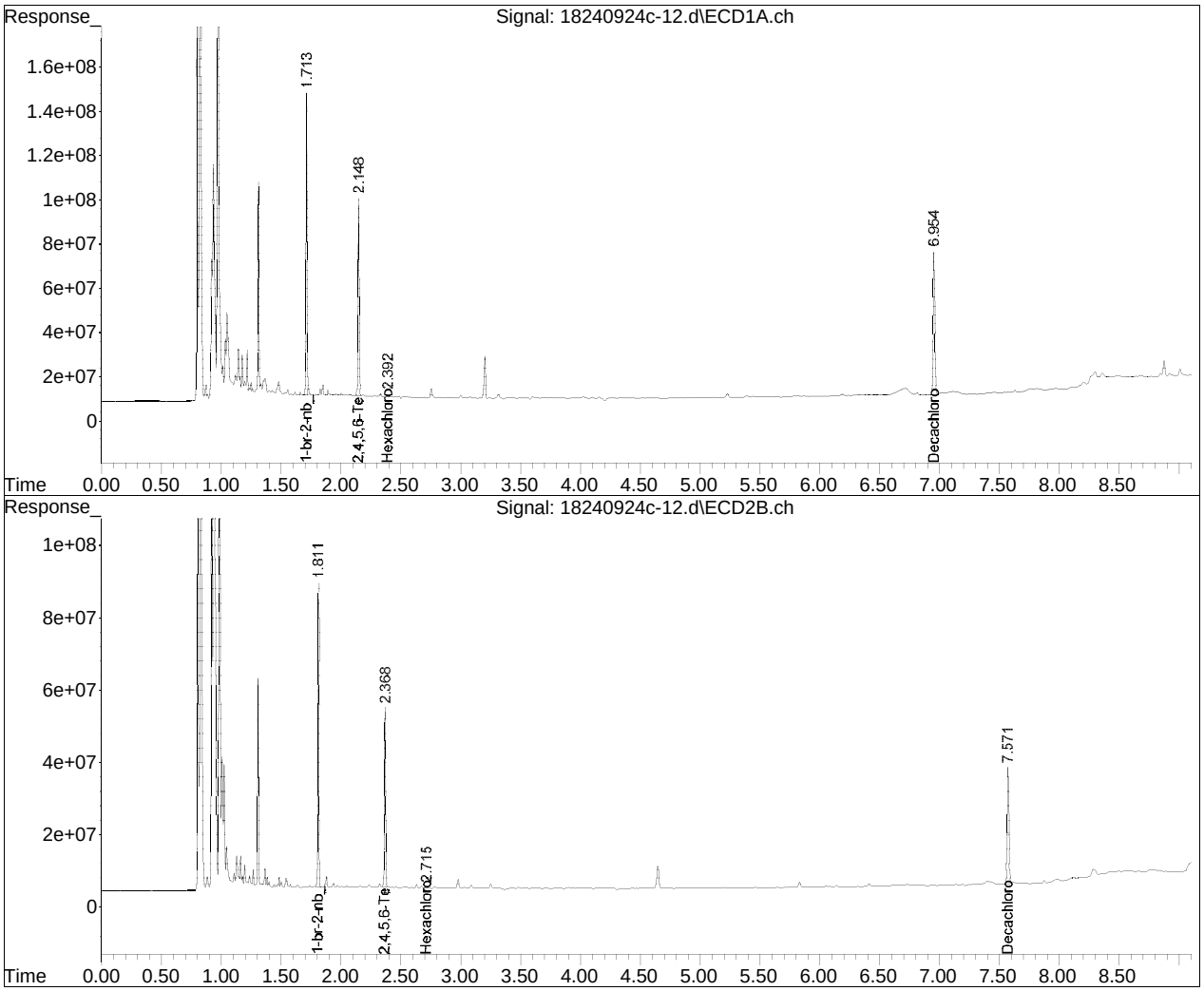
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:07
Operator : PEST18:akm
Sample : L2453342-01,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:11 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

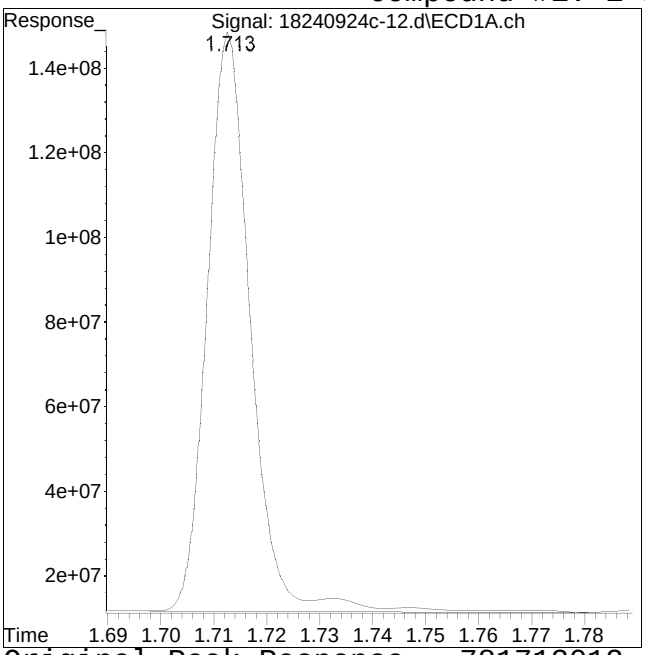
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

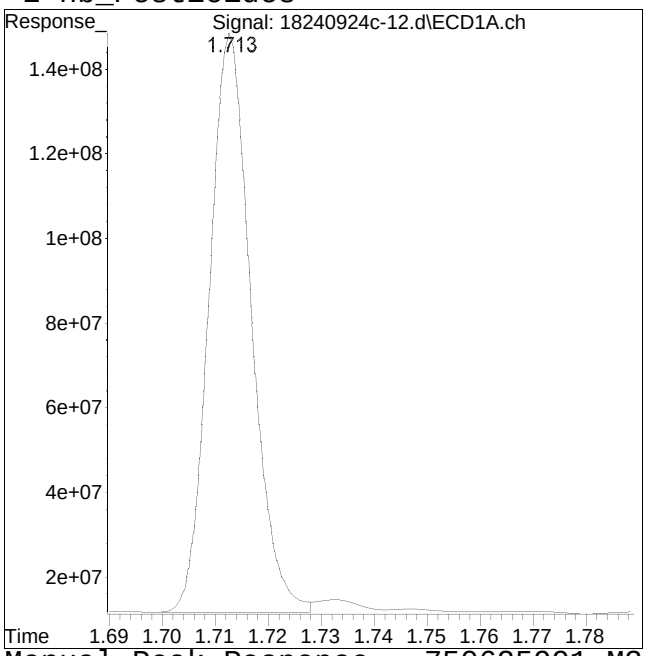


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



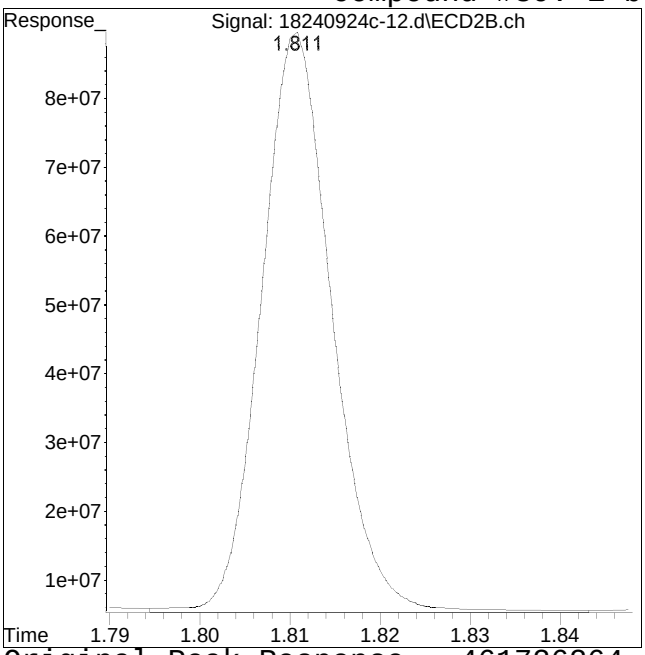


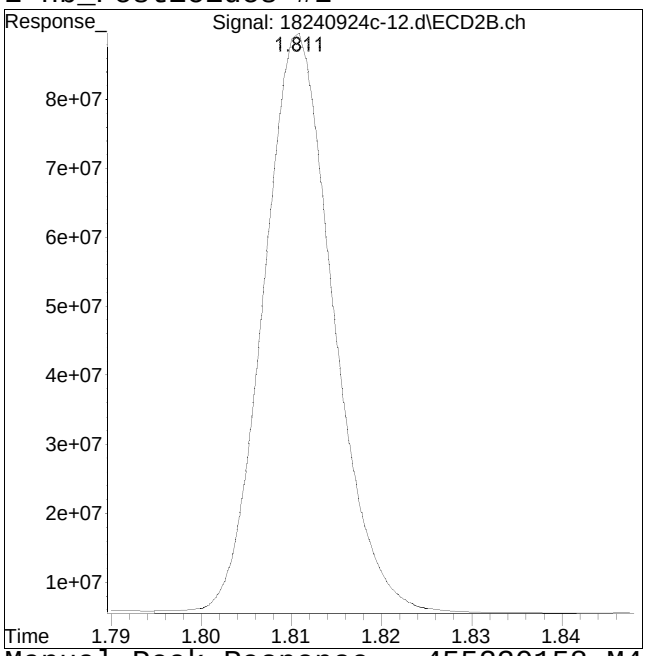
Original Peak Response = 781712012 Manual Peak Response = 750625991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



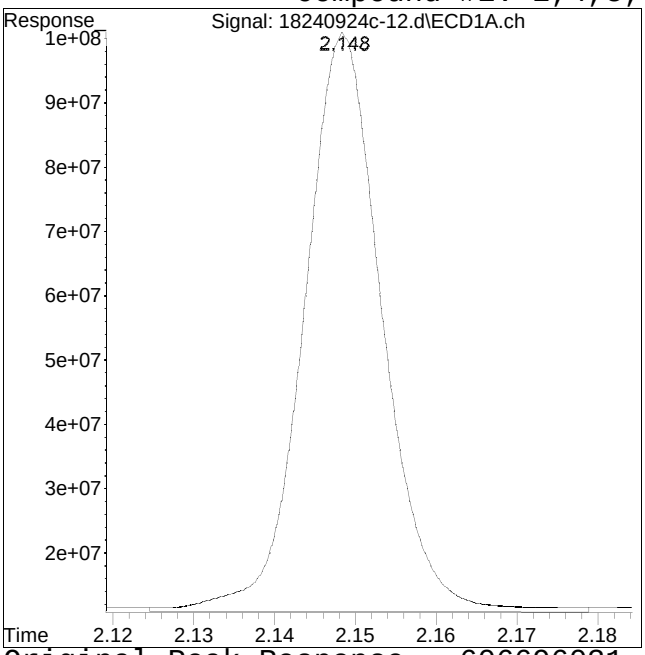


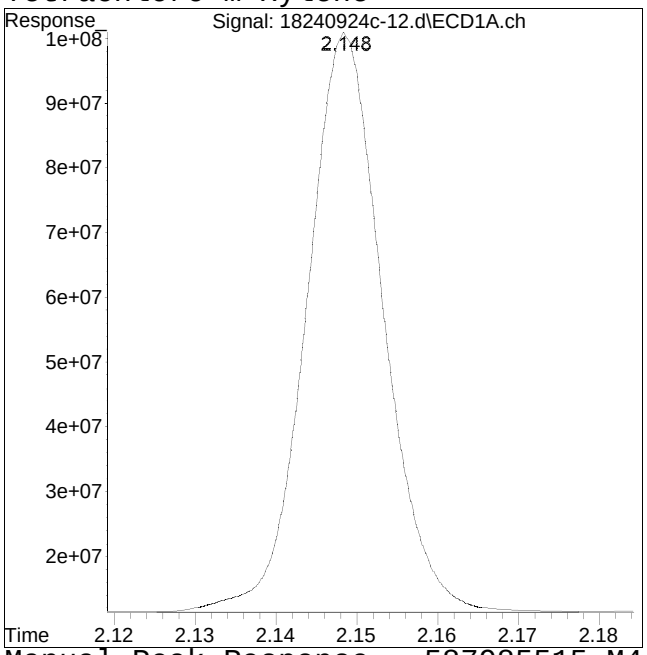
Original Peak Response = 461726264 Manual Peak Response = 455230158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



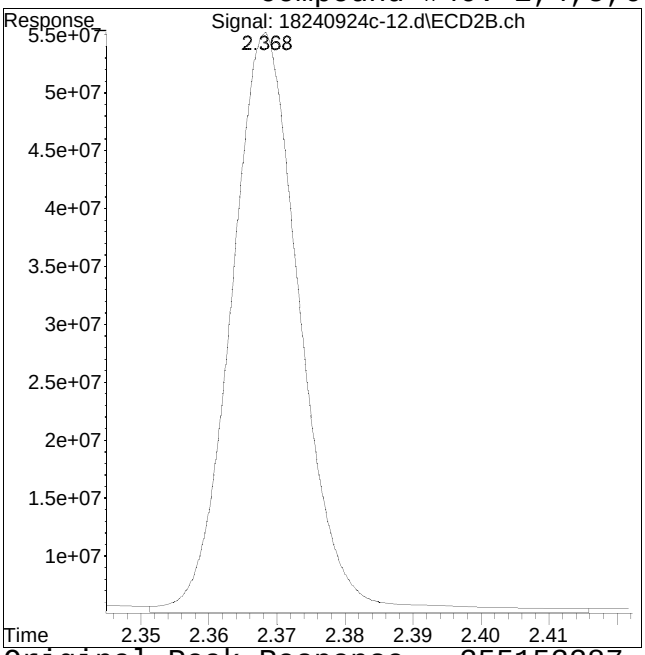


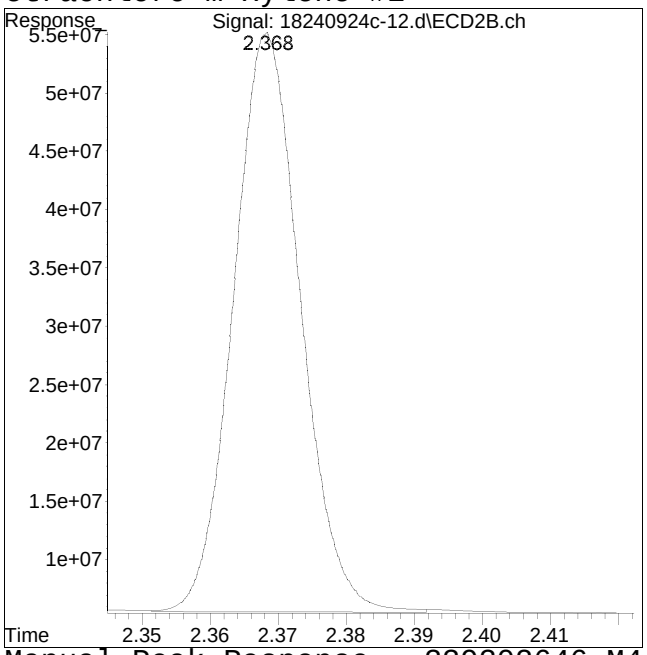
Original Peak Response = 606696031 Manual Peak Response = 587985515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



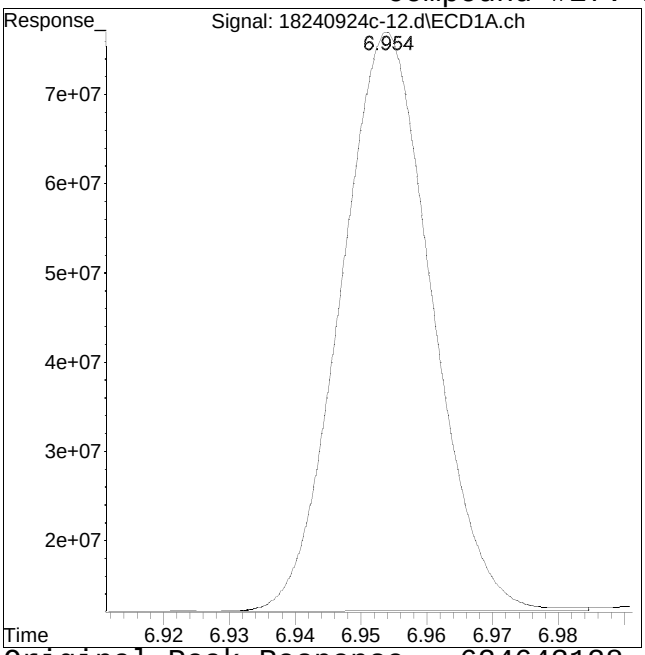


Original Peak Response = 355153387 Manual Peak Response = 339302646 M4
M4 = Poor automated baseline construction.

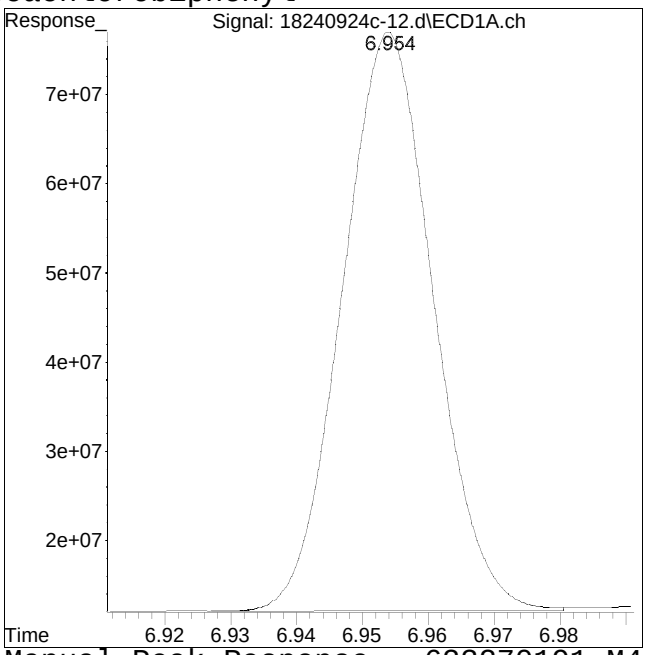
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 624643128



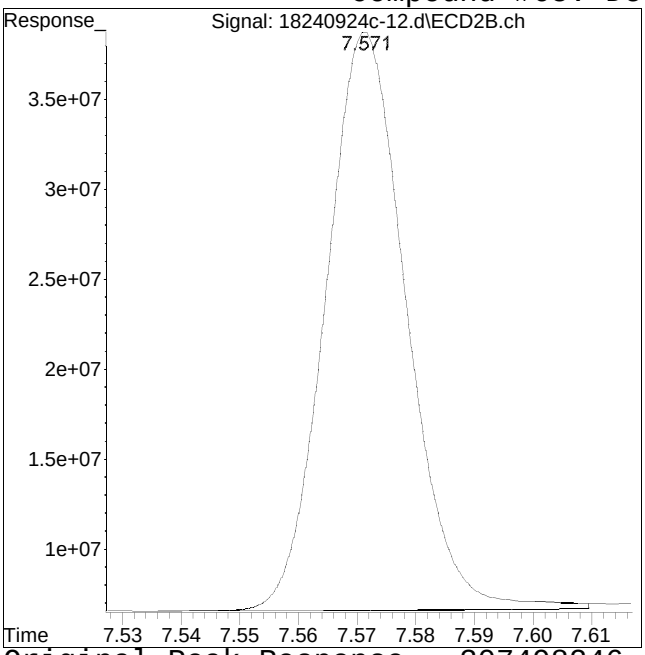
Manual Peak Response = 623270191 M4

M4 = Poor automated baseline construction.

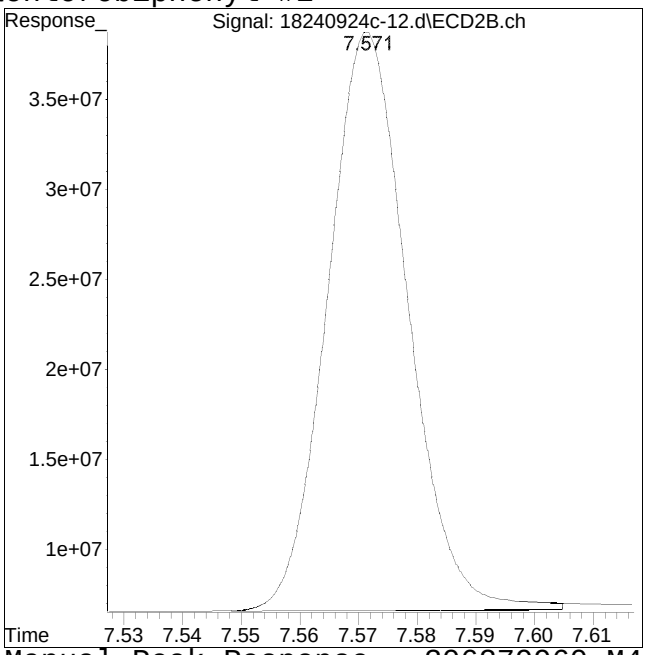
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 307498246



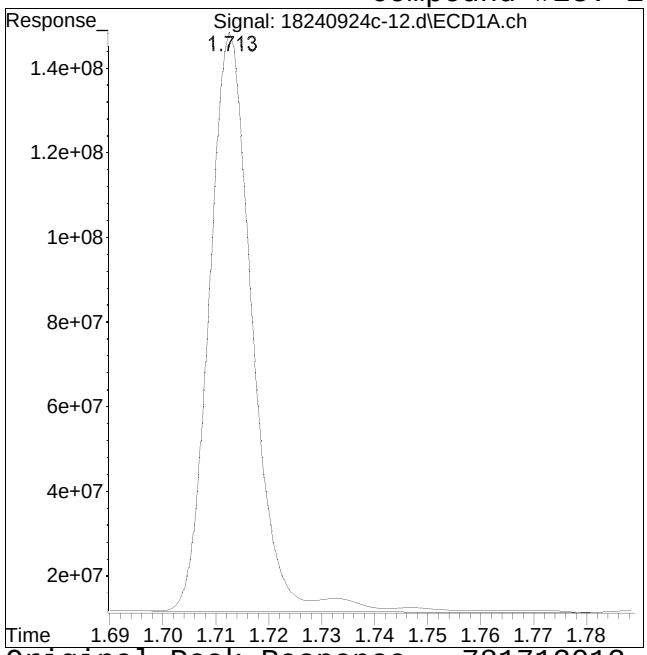
Manual Peak Response = 306279960 M4

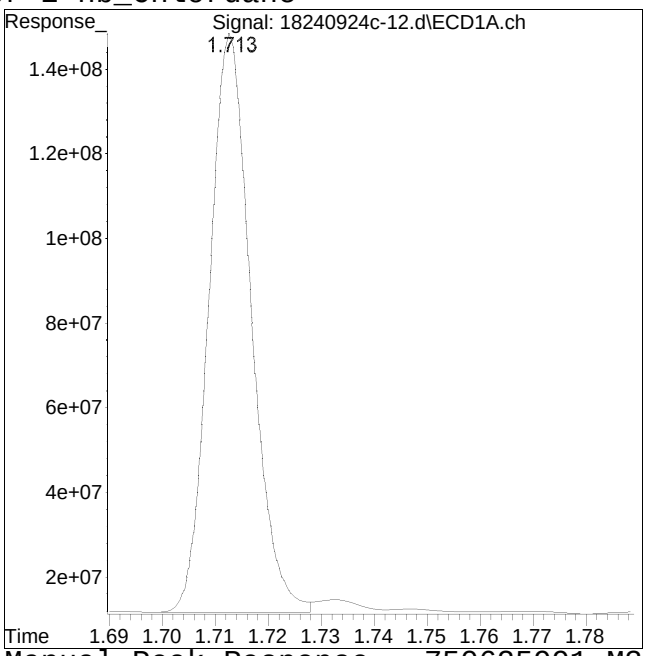
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



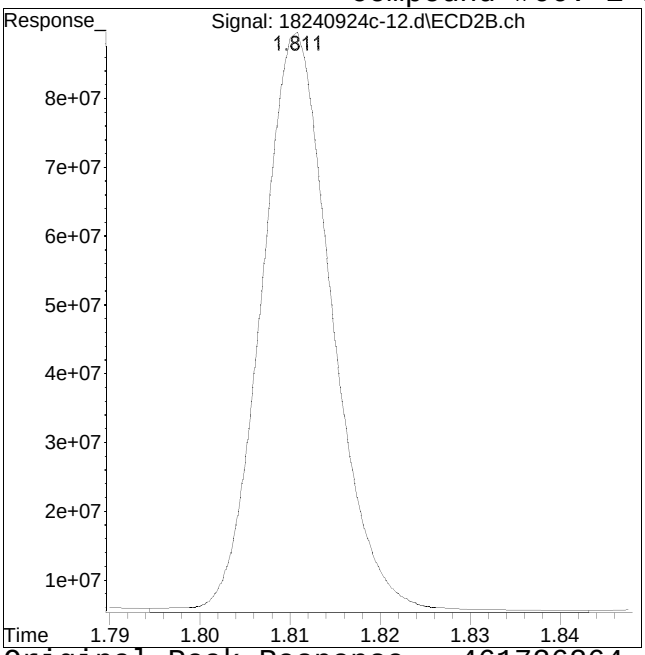


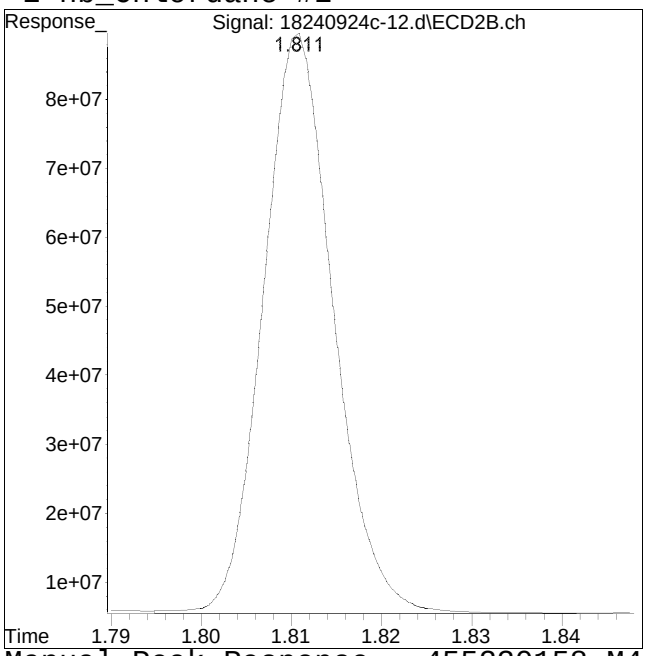
Original Peak Response = 781712012 Manual Peak Response = 750625991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



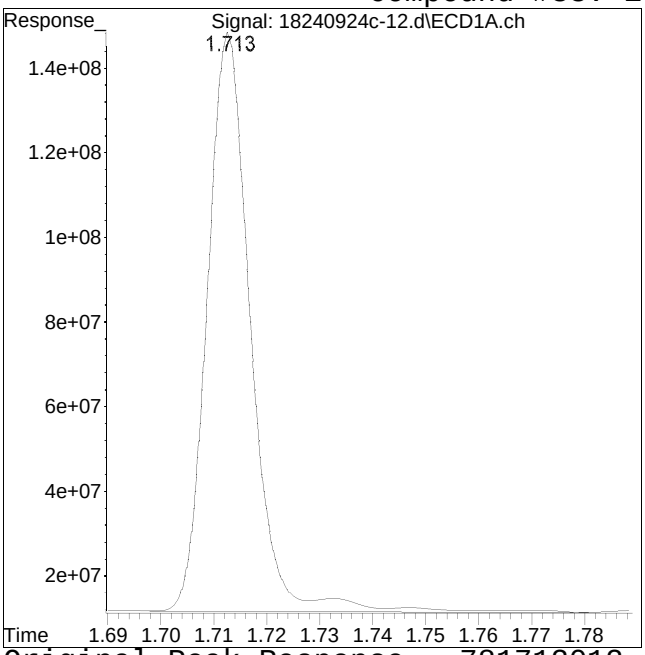


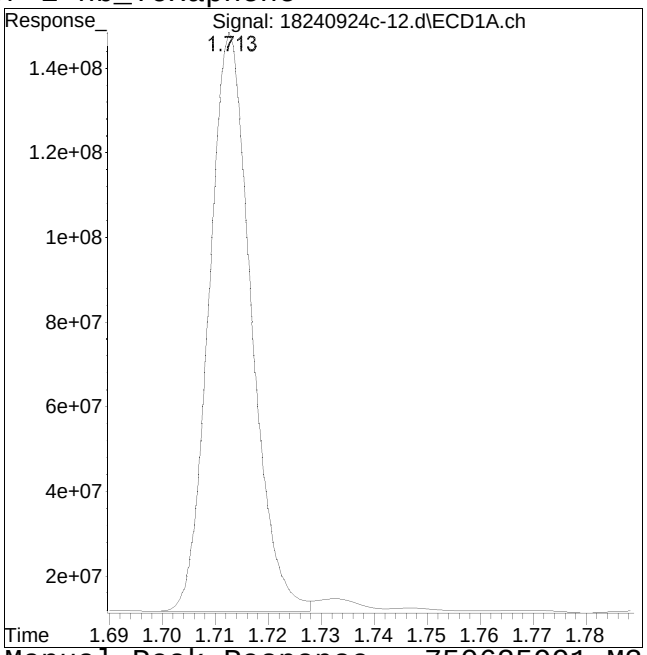
Original Peak Response = 461726264 Manual Peak Response = 455230158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



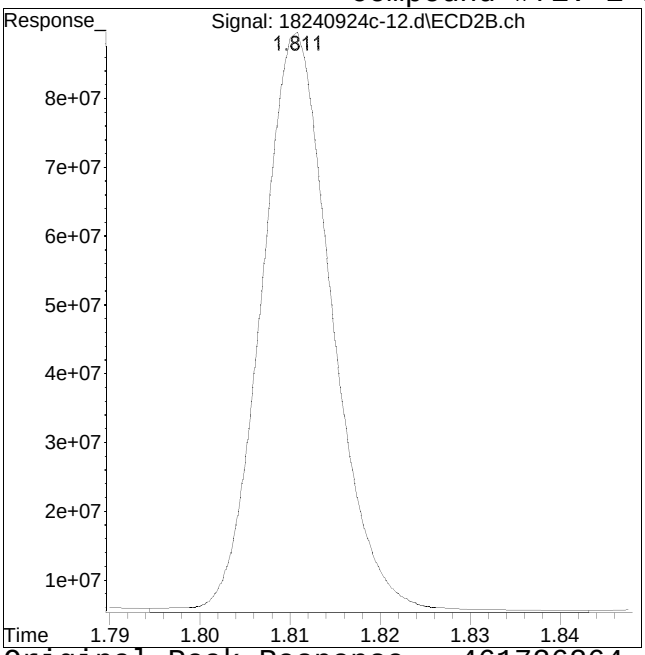


Original Peak Response = 781712012 Manual Peak Response = 750625991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

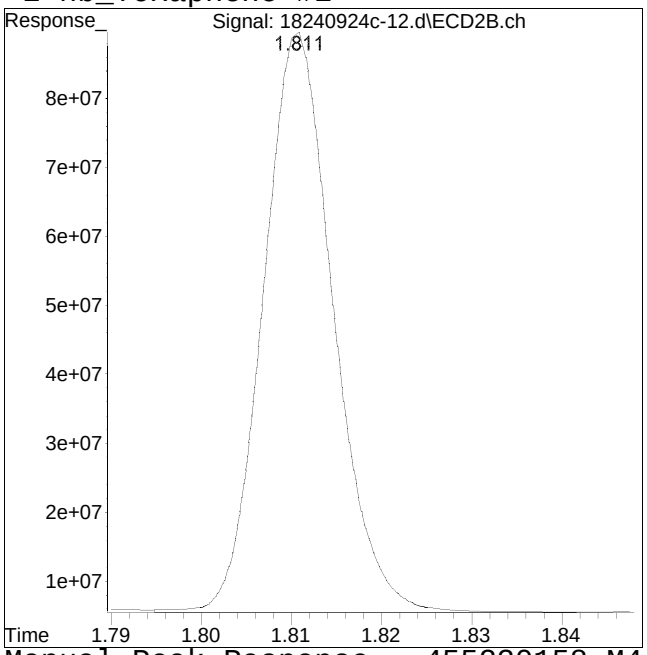
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-12.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:07 Instrument : Pest 18
Sample : L2453342-01,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 461726264



Manual Peak Response = 455230158 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:18
Operator : PEST18:akm
Sample : L2453342-02,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:14 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.714	1.811	848.1E6	471.7E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 128.76%		
	Standard Area 1 : #2 = 368373311				Recovery = 128.05%		
28) i	1-br-2-nb_Ch	1.714	1.811	848.1E6	471.7E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.714	1.811	848.1E6	471.7E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.150	2.369	824.7E6	444.2E6	19.933	19.966
	Spiked Amount 50.000	Range 30 - 150			Recovery = 39.87%		39.93%
27) s	Decachlorobi	6.955	7.570	706.4E6	348.8E6	17.106	19.401M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 34.21%		38.80%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:18
Operator : PEST18:akm
Sample : L2453342-02,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:14 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

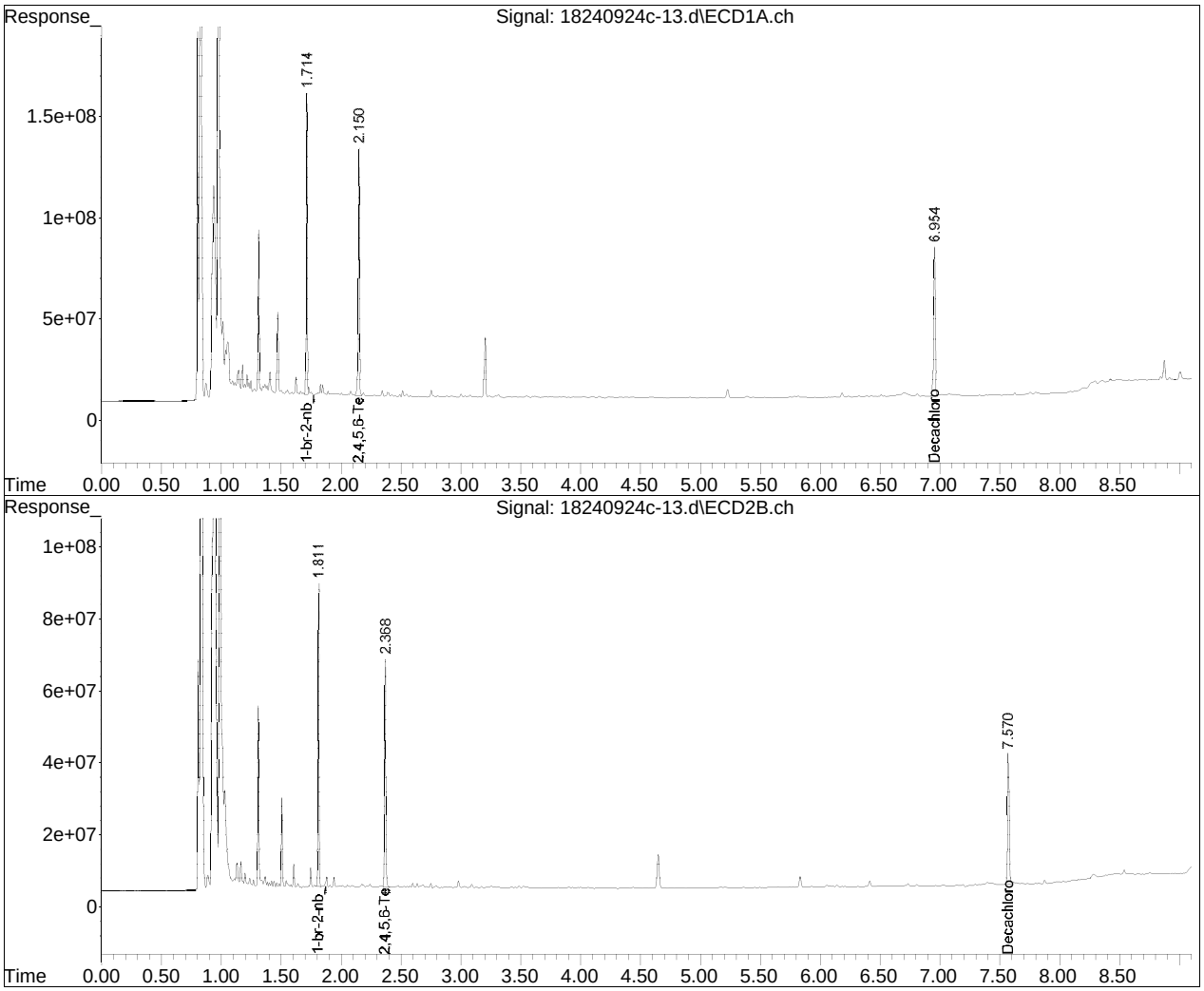
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:18
Operator : PEST18:akm
Sample : L2453342-02,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:14 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

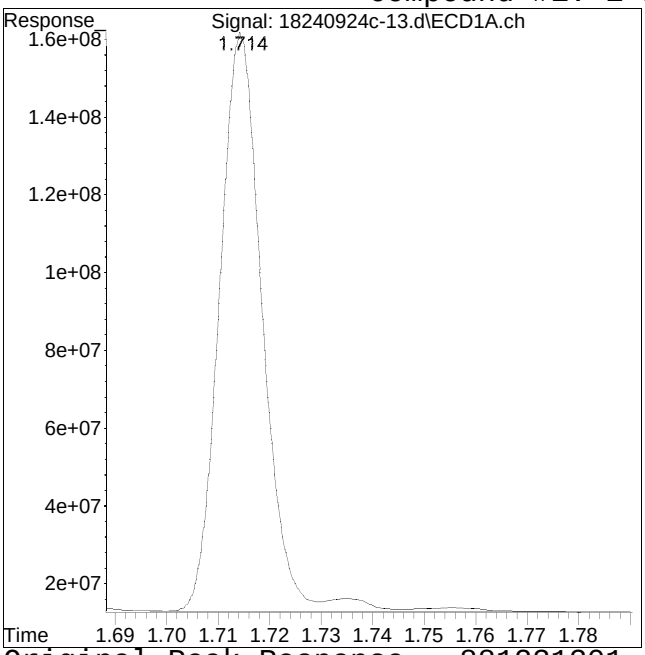
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

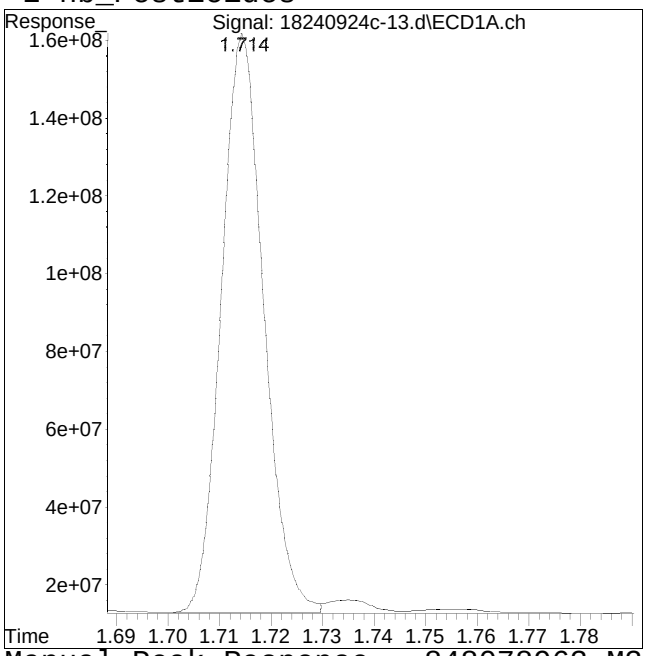


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



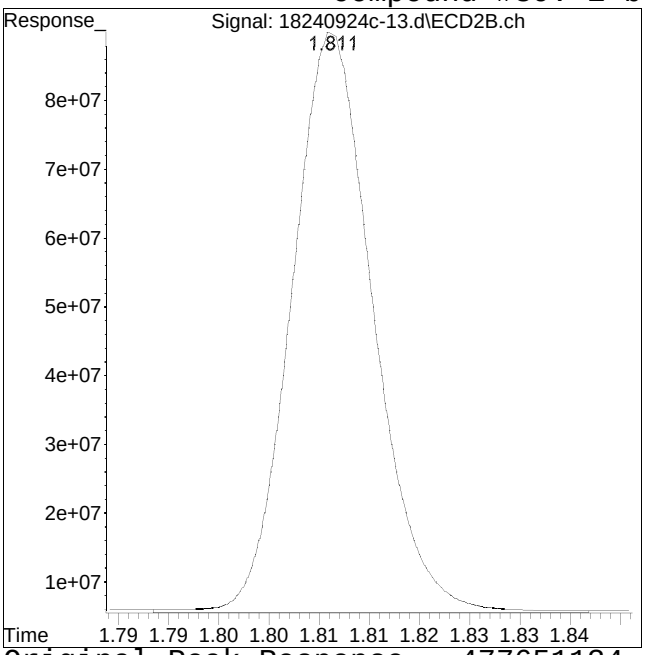


Original Peak Response = 881231301 Manual Peak Response = 848078963 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

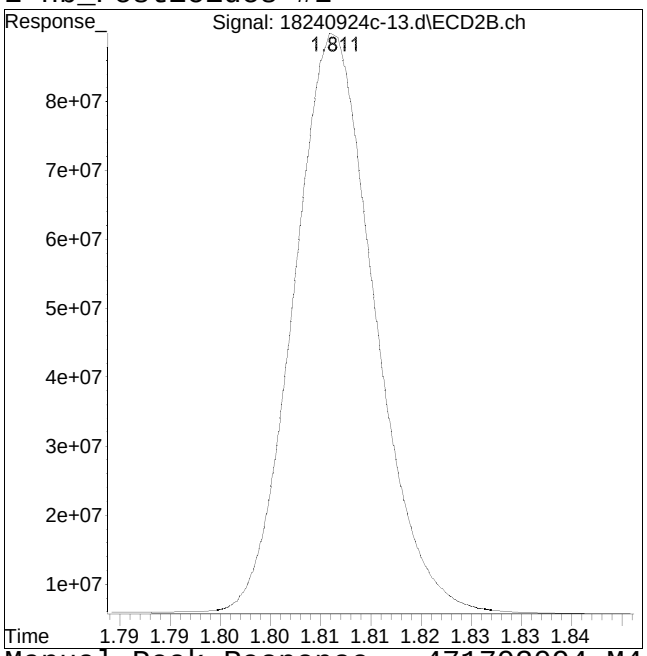
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 477651134



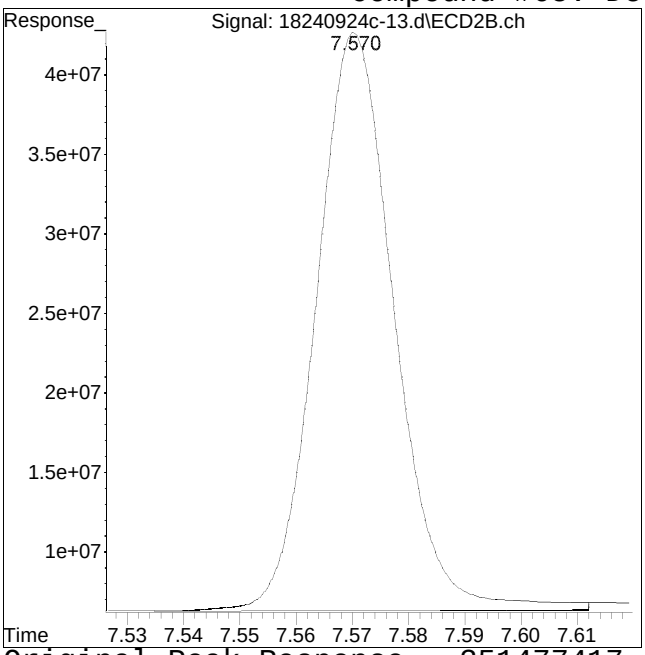
Manual Peak Response = 471703094 M4

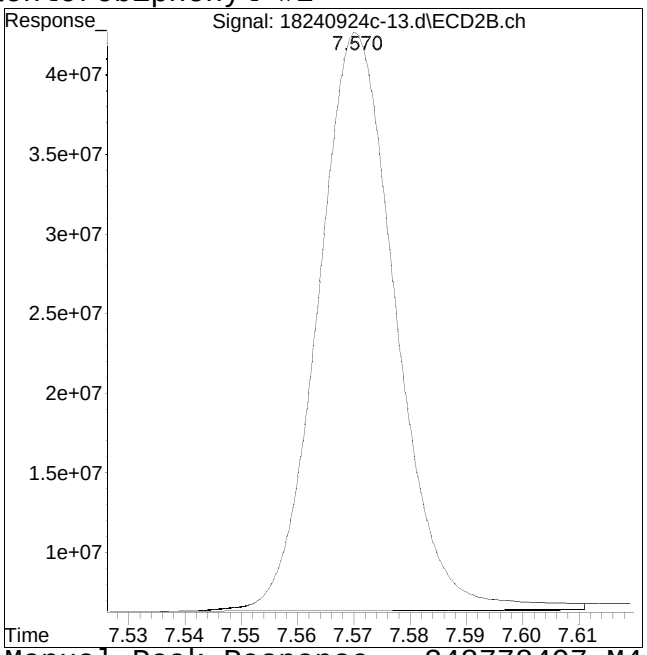
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



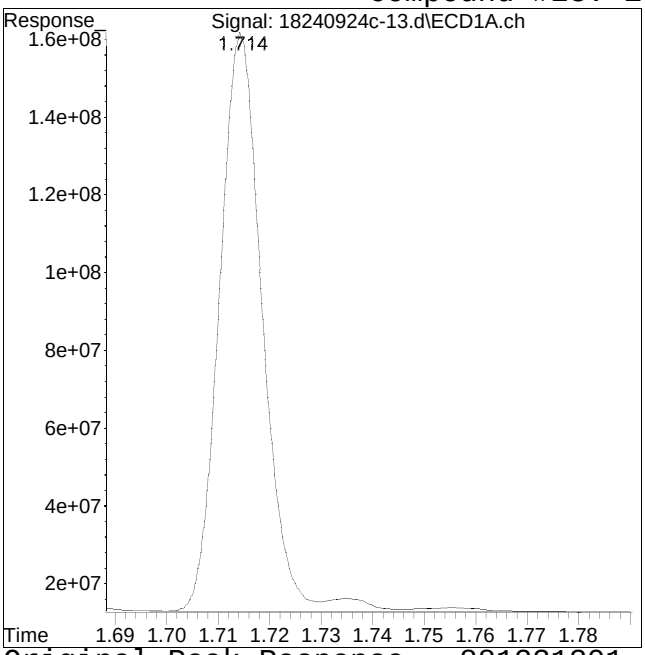


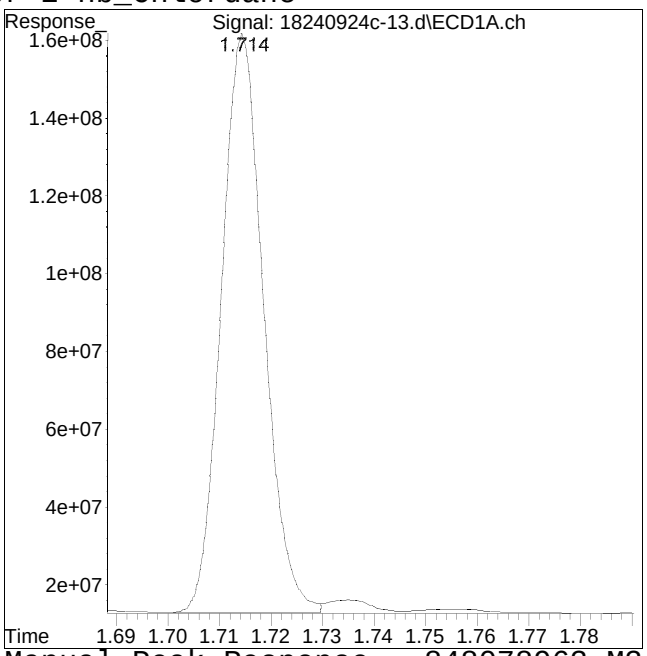
Original Peak Response = 351477417 Manual Peak Response = 348778497 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



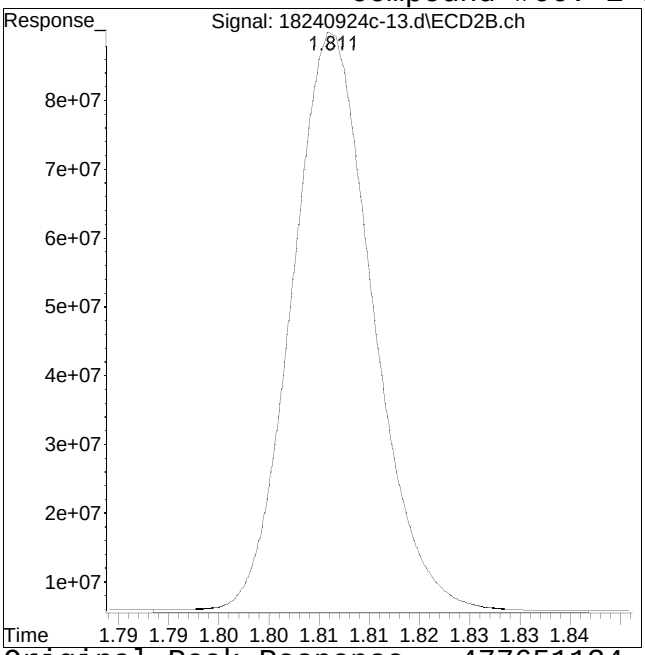


Original Peak Response = 881231301 Manual Peak Response = 848078963 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

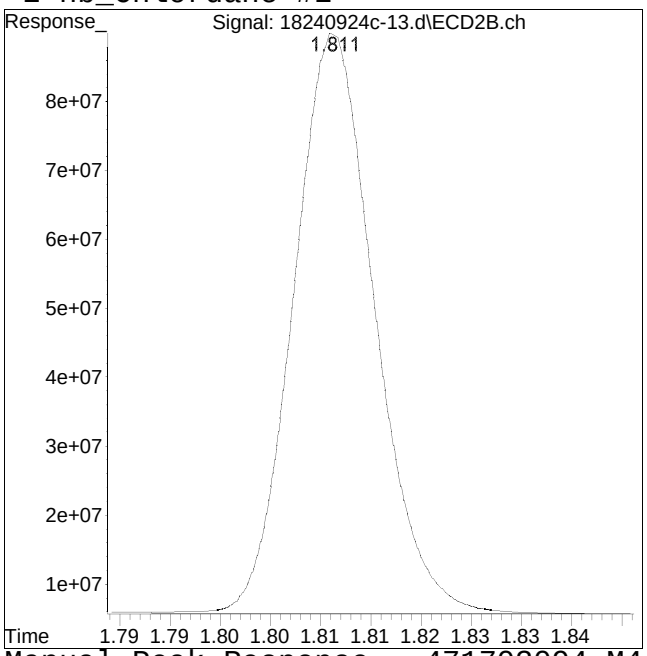
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 477651134



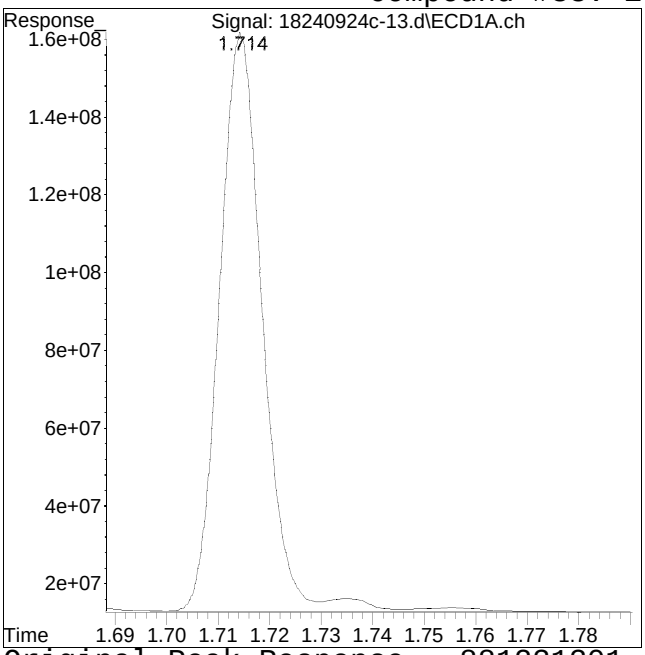
Manual Peak Response = 471703094 M4

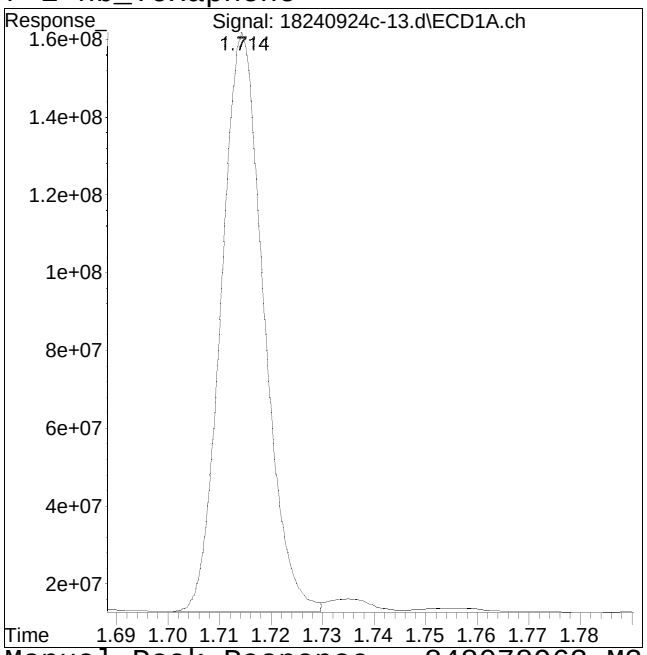
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



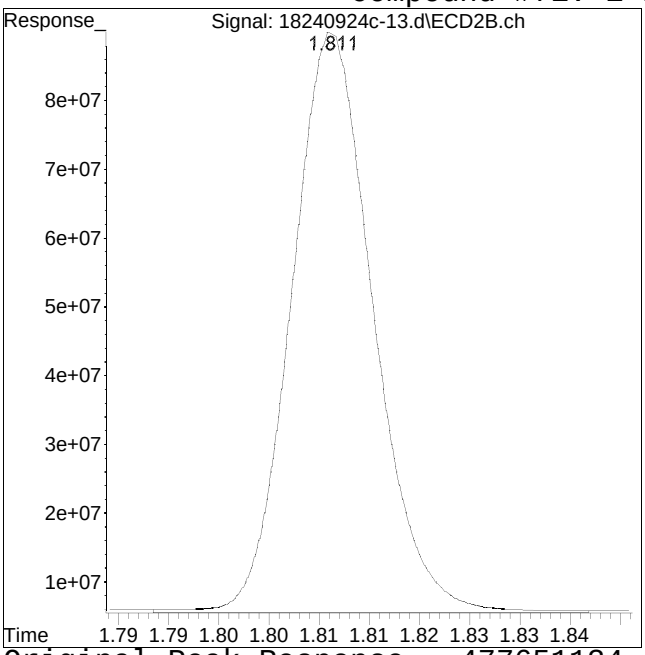


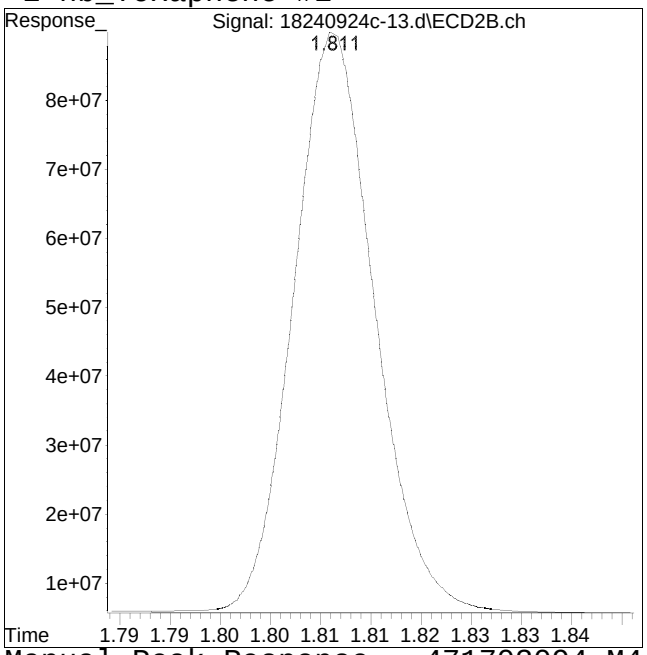
Original Peak Response = 881231301 Manual Peak Response = 848078963 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-13.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:18 Instrument : Pest 18
Sample : L2453342-02,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 477651134 Manual Peak Response = 471703094 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:30
Operator : PEST18:akm
Sample : L2453342-03,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:16 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.713	1.811	789.8E6	451.5E6	25.000M3	25.000M4
		Standard Area 1 : #1 = 658653120				Recovery = 119.92%		
		Standard Area 1 : #2 = 368373311				Recovery = 122.58%		
28)	i	1-br-2-nb_Ch	1.713	1.811	789.8E6	451.5E6	25.000M3	25.000M4
33)	i	1-br-2-nb_To	1.713	1.811	789.8E6	451.5E6	25.000M3	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.149	2.368	677.6E6	376.8E6	17.585M4	17.692M3
		Spiked Amount 50.000	Range 30 - 150			Recovery = 35.17%		35.38%
27)	s	Decachlorobi	6.954	7.571	599.8E6	308.0E6	15.528M4	17.898M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 31.06%		35.80%
		Target Compounds						
4)		alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)		beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)		Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)		gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)		alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:30
Operator : PEST18:akm
Sample : L2453342-03,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:16 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	5.255	5.948	18040810	2543608	0.516M4	0.132M4
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

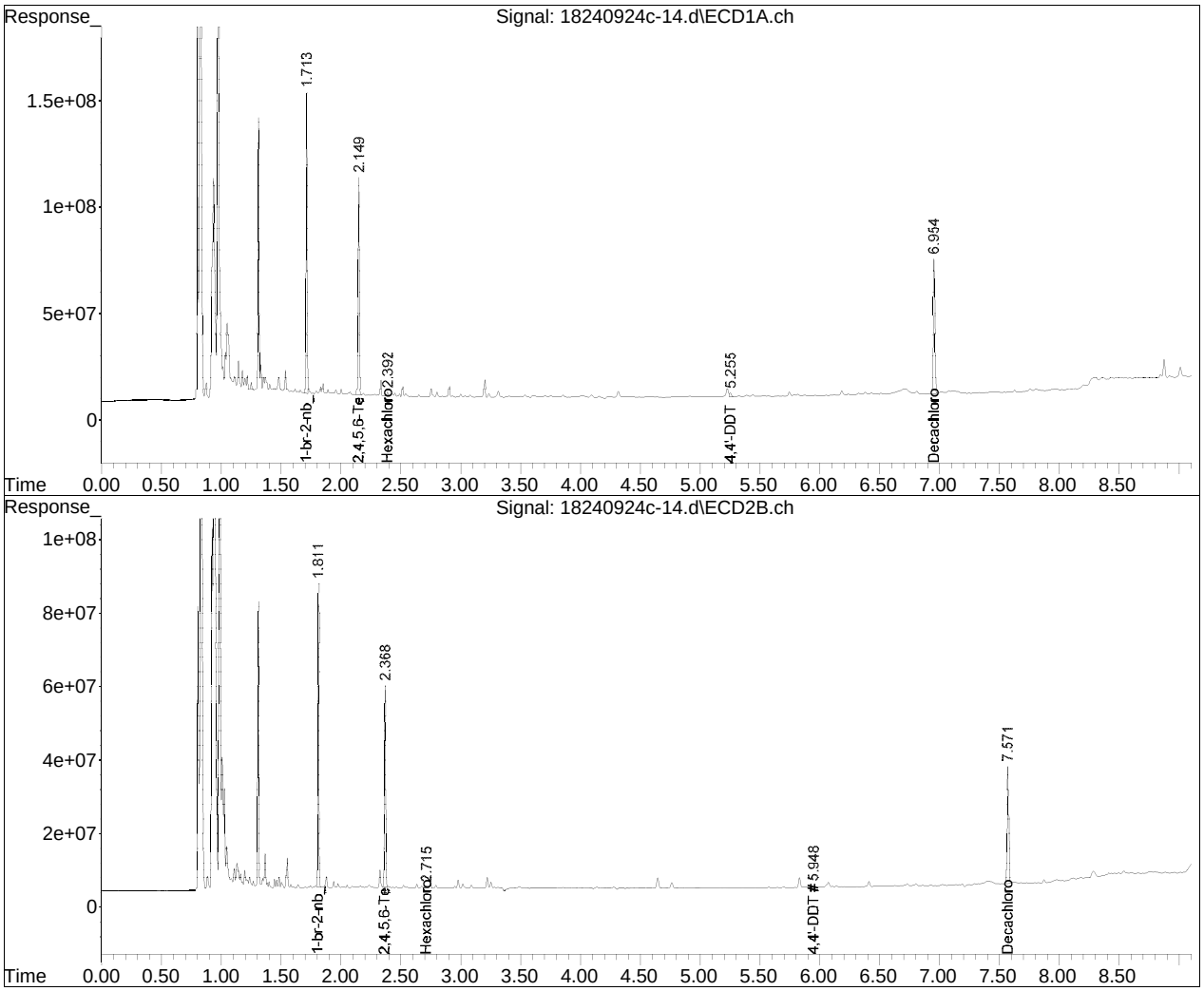
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:30
Operator : PEST18:akm
Sample : L2453342-03,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:16 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

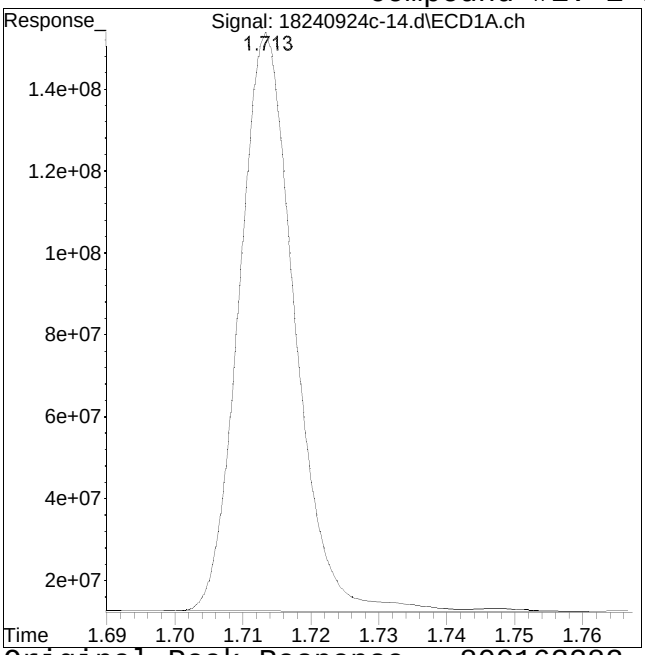
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

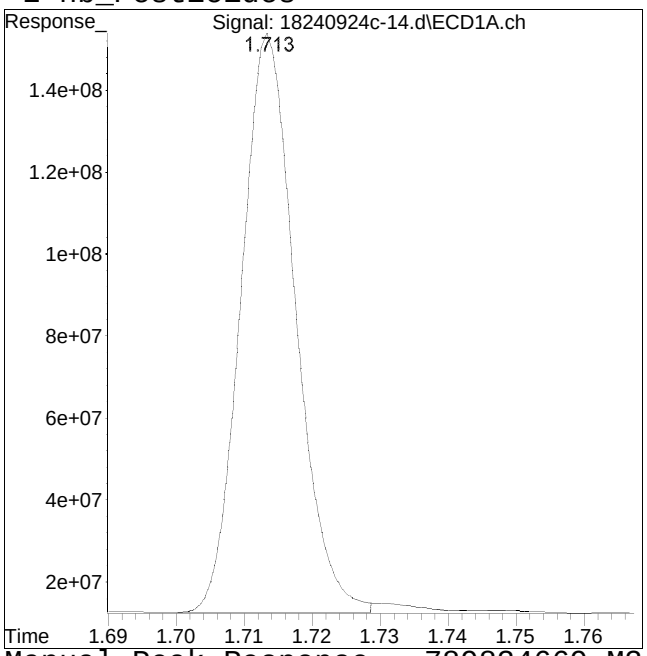


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



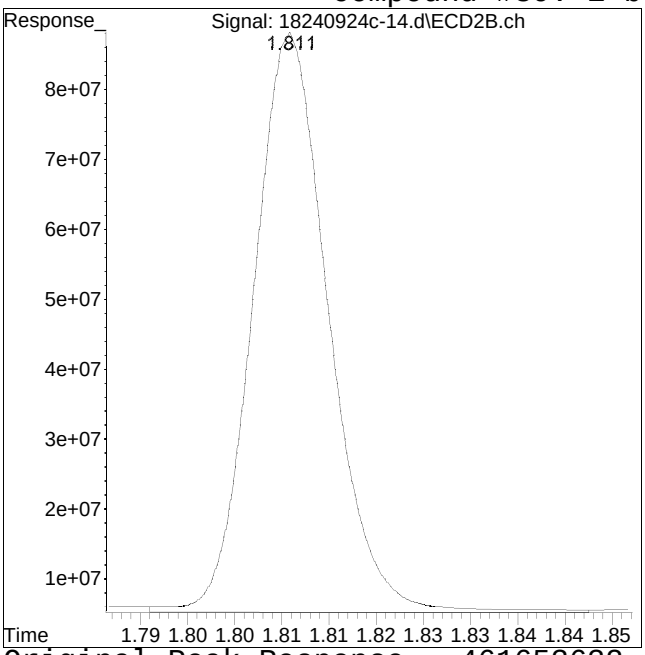


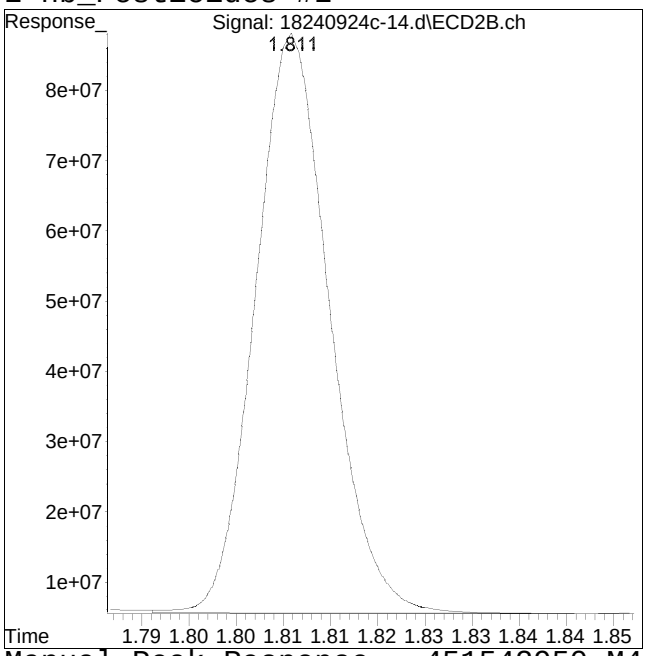
Original Peak Response = 809163382 Manual Peak Response = 789834669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



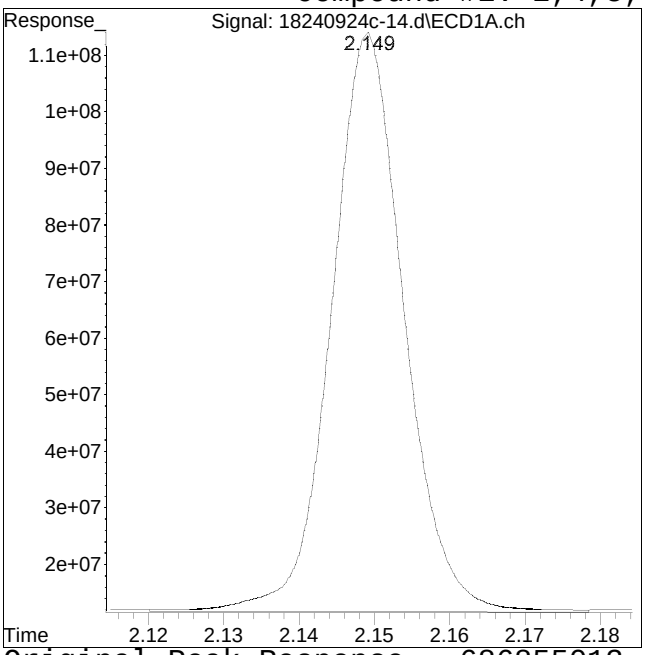


Original Peak Response = 461653632 Manual Peak Response = 451542950 M4
M4 = Poor automated baseline construction.

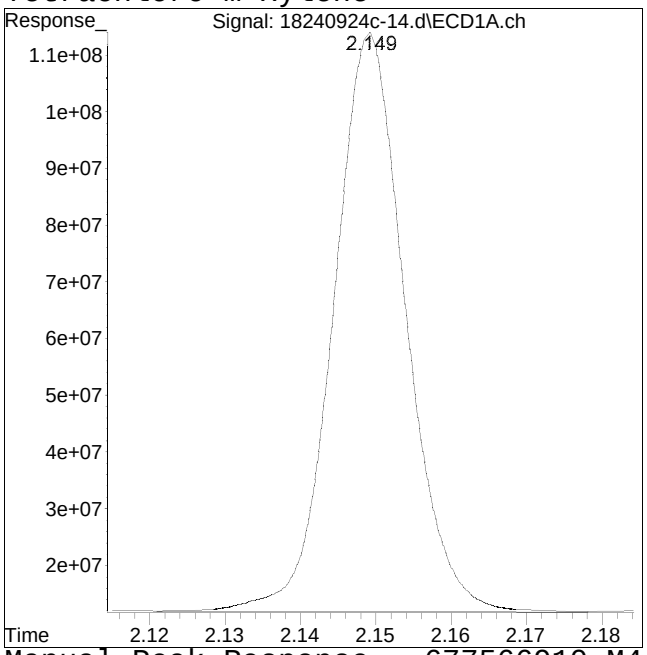
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 686855013



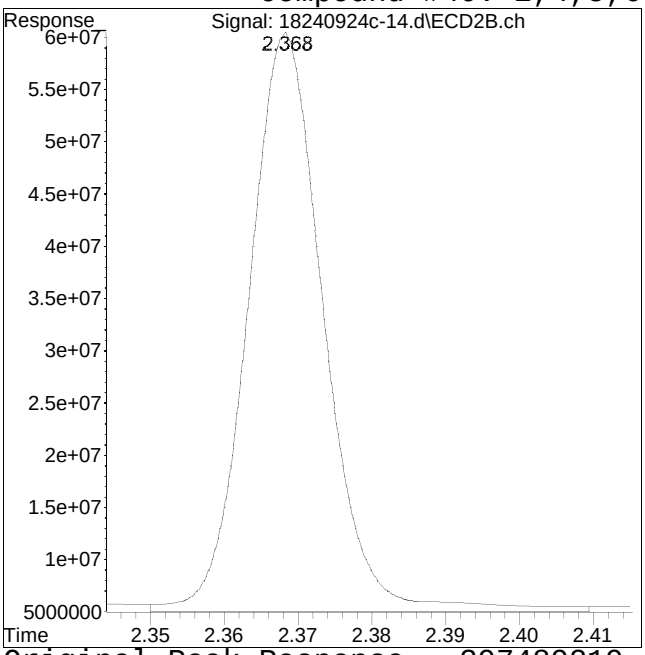
Manual Peak Response = 677566910 M4

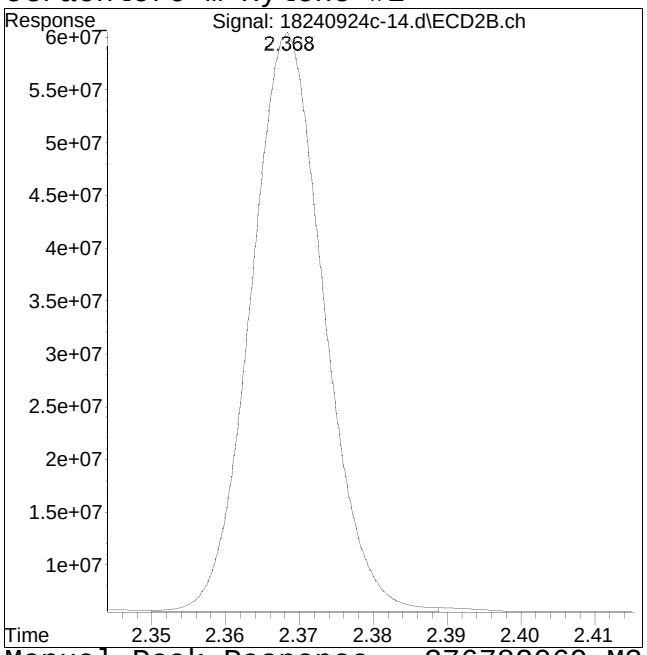
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



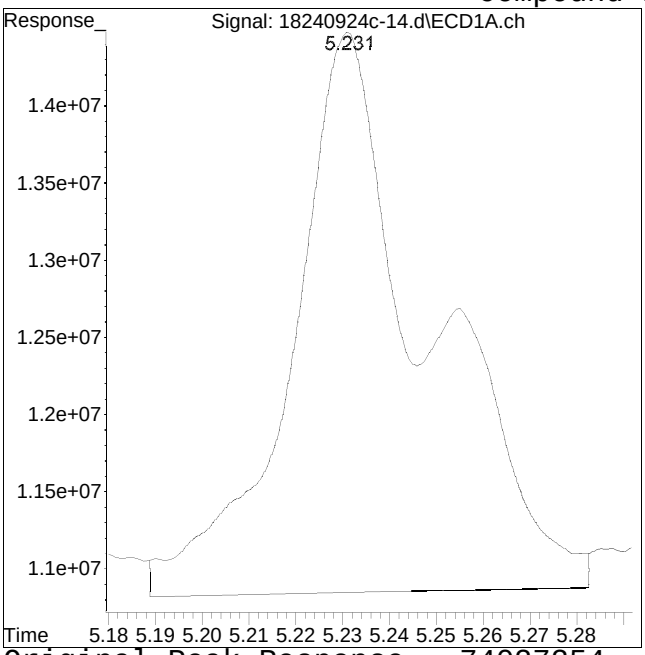


Original Peak Response = 397489219 Manual Peak Response = 376782069 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

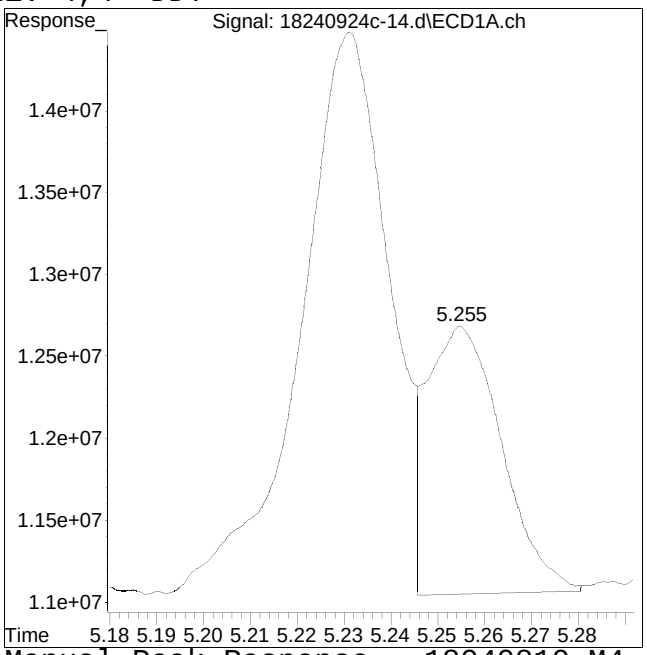
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #21: 4,4'-DDT



Original Peak Response = 74027254



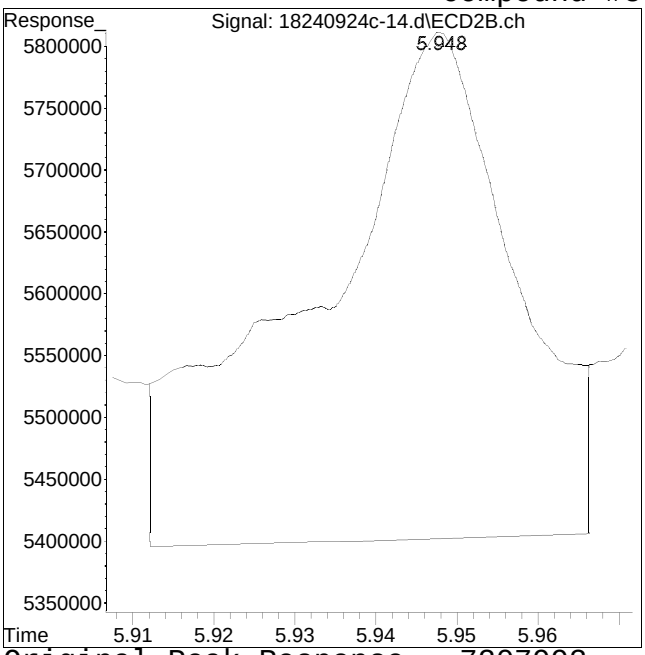
Manual Peak Response = 18040810 M4

M4 = Poor automated baseline construction.

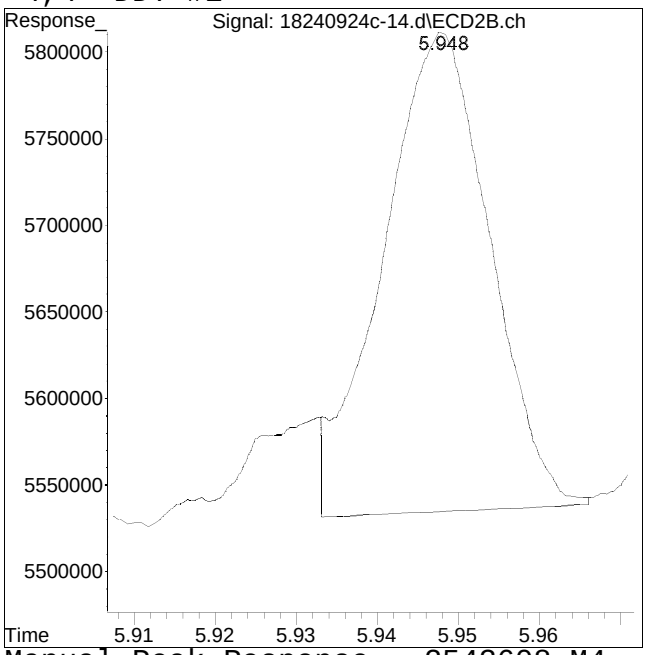
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 7207993



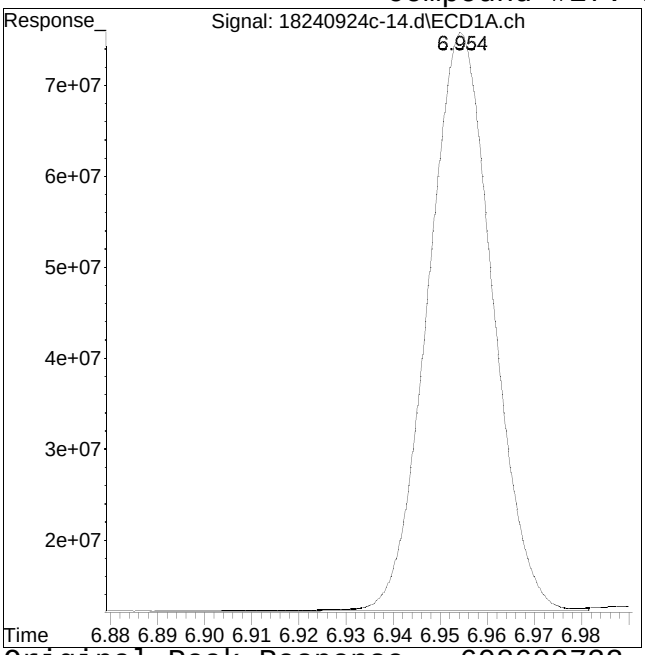
Manual Peak Response = 2543608 M4

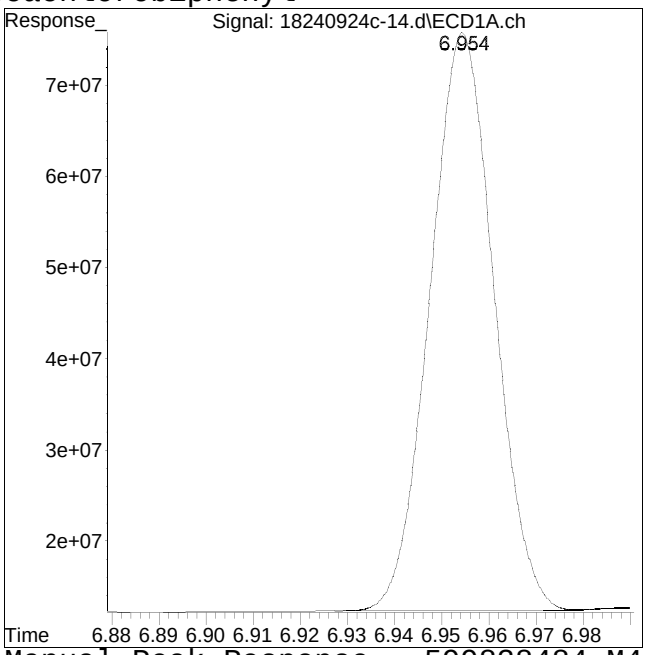
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



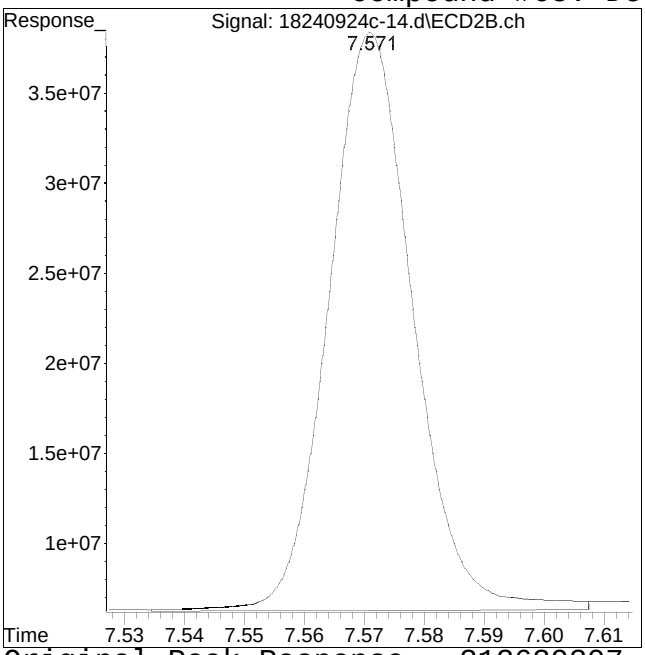


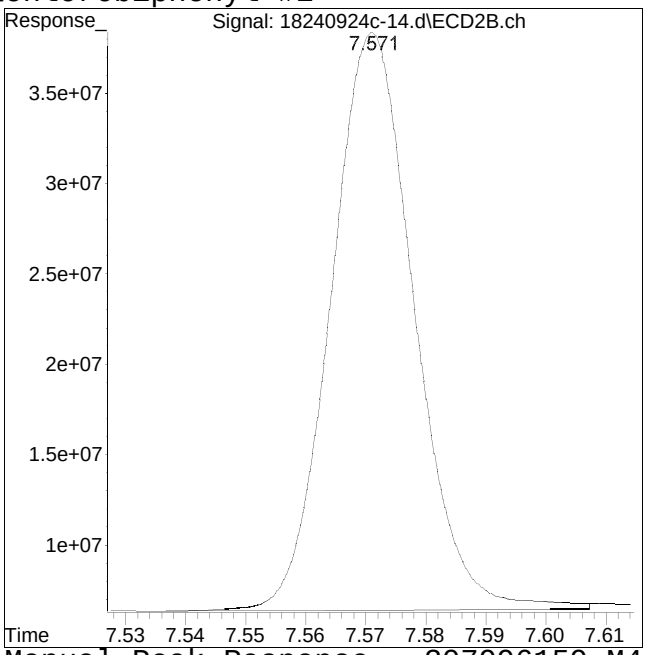
Original Peak Response = 608629732 Manual Peak Response = 599838484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



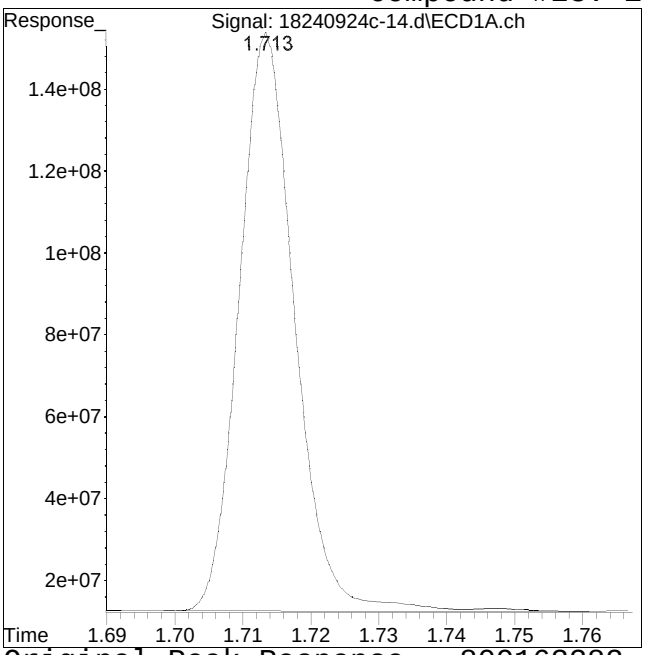


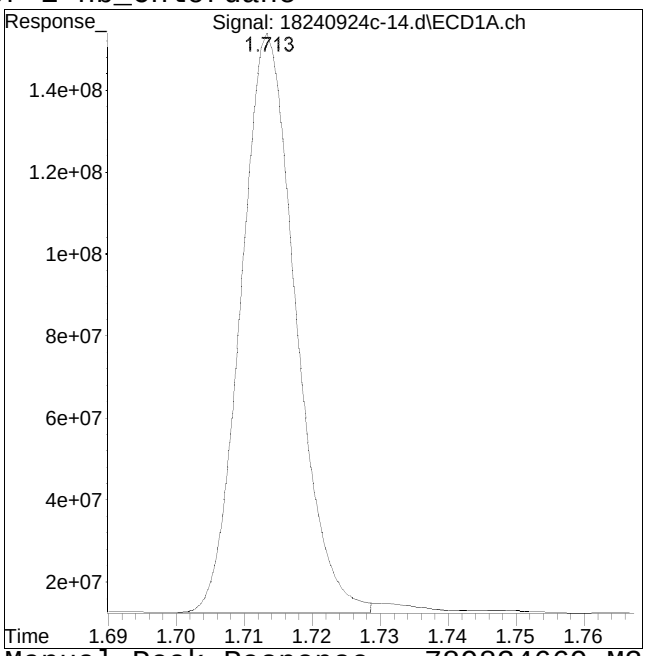
Original Peak Response = 313639307 Manual Peak Response = 307996159 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



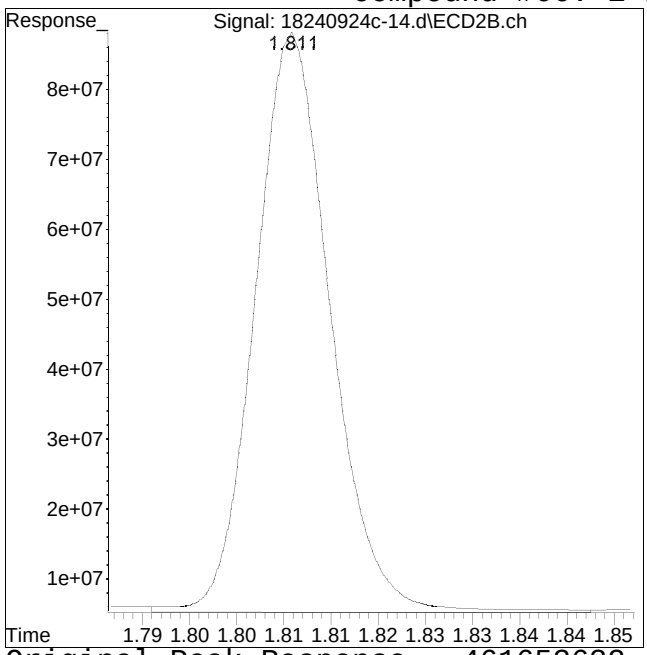


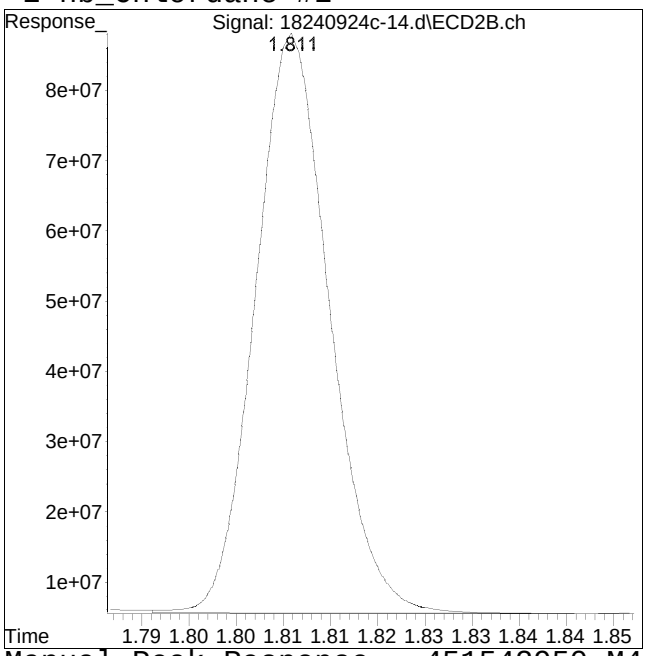
Original Peak Response = 809163382 Manual Peak Response = 789834669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



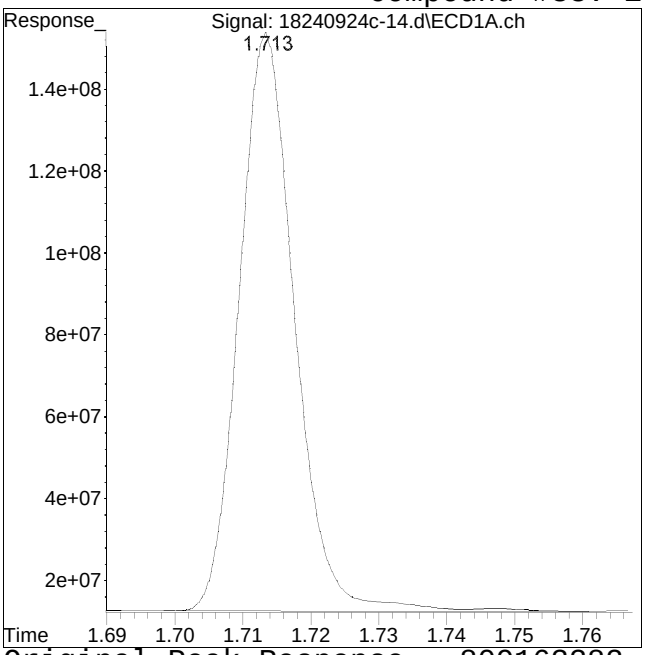


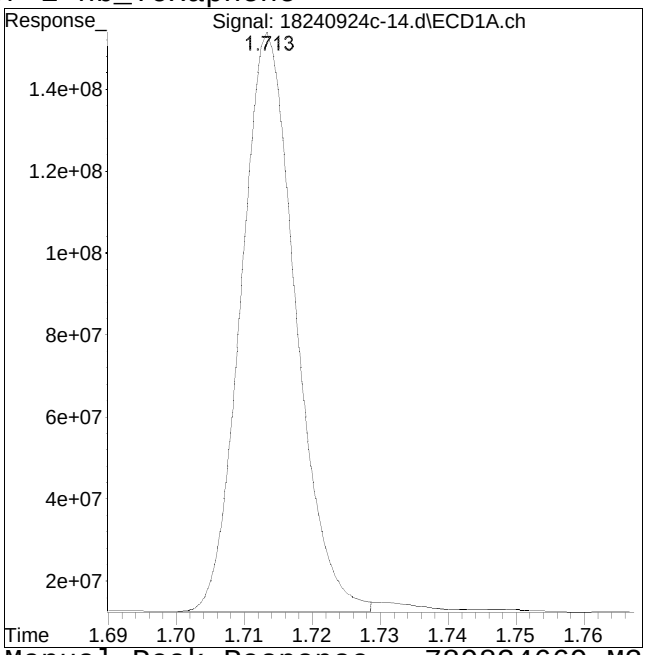
Original Peak Response = 461653632 Manual Peak Response = 451542950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



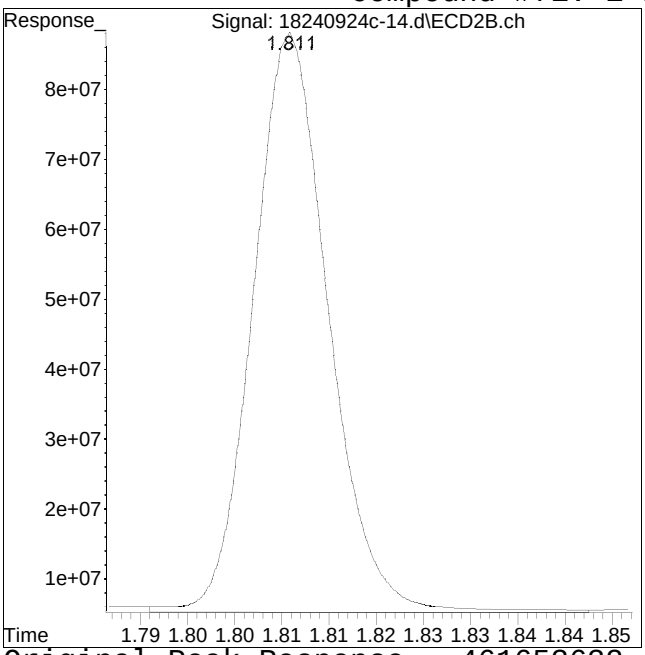


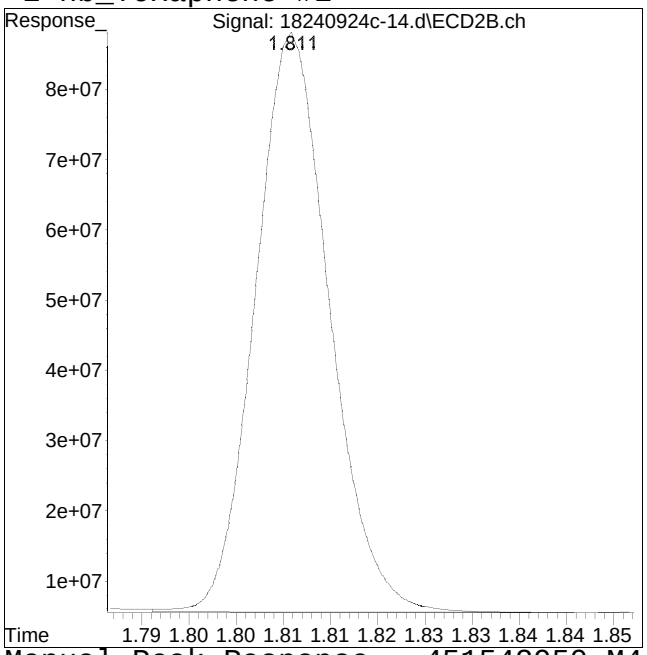
Original Peak Response = 809163382 Manual Peak Response = 789834669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-14.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:30 Instrument : Pest 18
Sample : L2453342-03,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 461653632 Manual Peak Response = 451542950 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:41
Operator : PEST18:akm
Sample : L2453342-04,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:18 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.713	1.810	688.9E6	414.1E6	25.000M3	25.000M4
		Standard Area 1 : #1 = 658653120				Recovery = 104.59%		
		Standard Area 1 : #2 = 368373311				Recovery = 112.43%		
28)	i	1-br-2-nb_Ch	1.713	1.810	688.9E6	414.1E6	25.000M3	25.000M4
33)	i	1-br-2-nb_To	1.713	1.810	688.9E6	414.1E6	25.000M3	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.149	2.368	911.4E6	520.7E6	27.121M4	26.657M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 54.24%		53.31%
27)	s	Decachlorobi	6.954	7.570	829.6E6	436.0E6	25.074M4	27.622M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 50.15%		55.24%
		Target Compounds						
4)		alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)		beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)		Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)		gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)		alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:41
Operator : PEST18:akm
Sample : L2453342-04,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:18 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)		Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000
		SemiQuant Compounds - Not Calibrated on this Instrument						
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

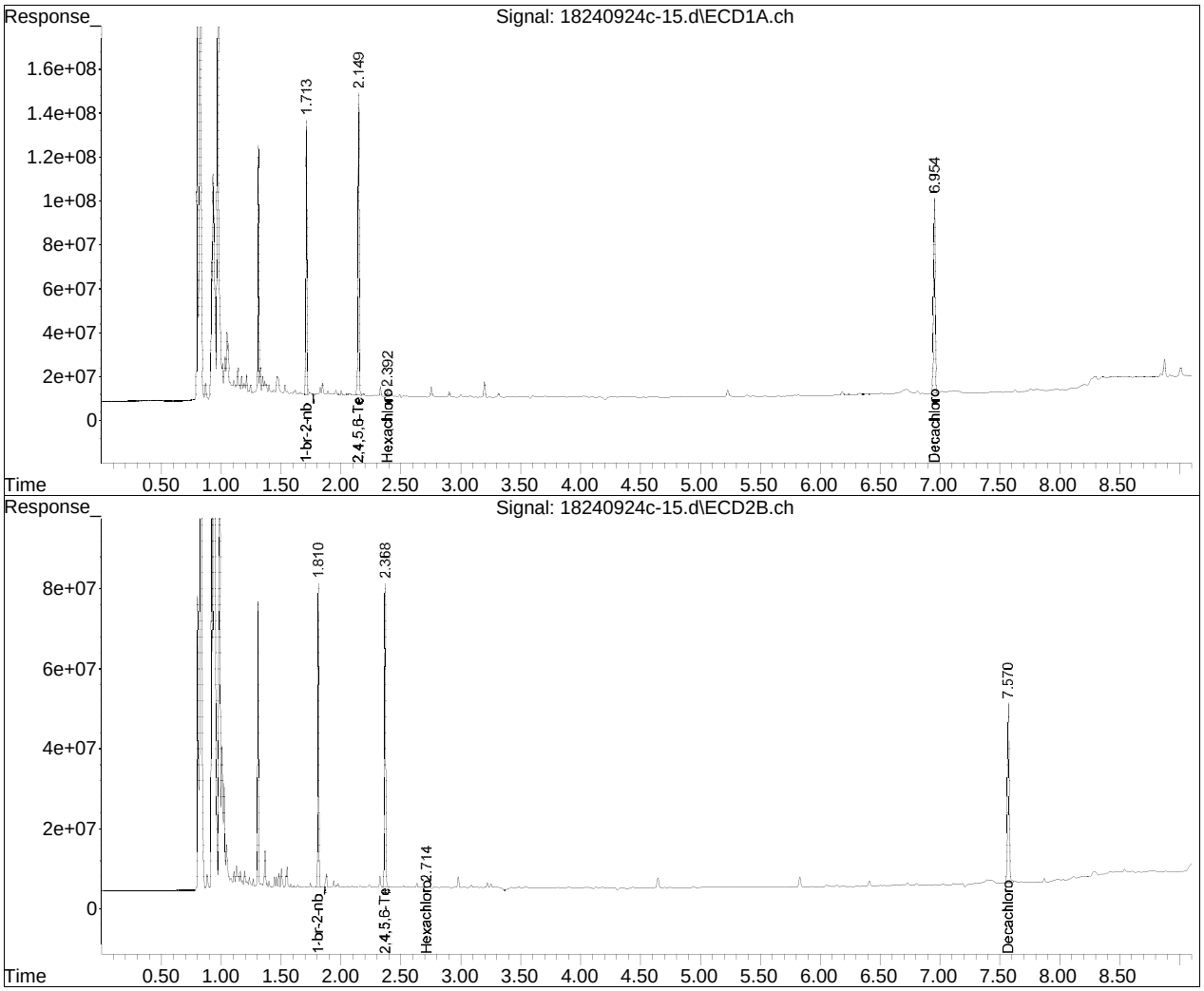
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:41
Operator : PEST18:akm
Sample : L2453342-04,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:18 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

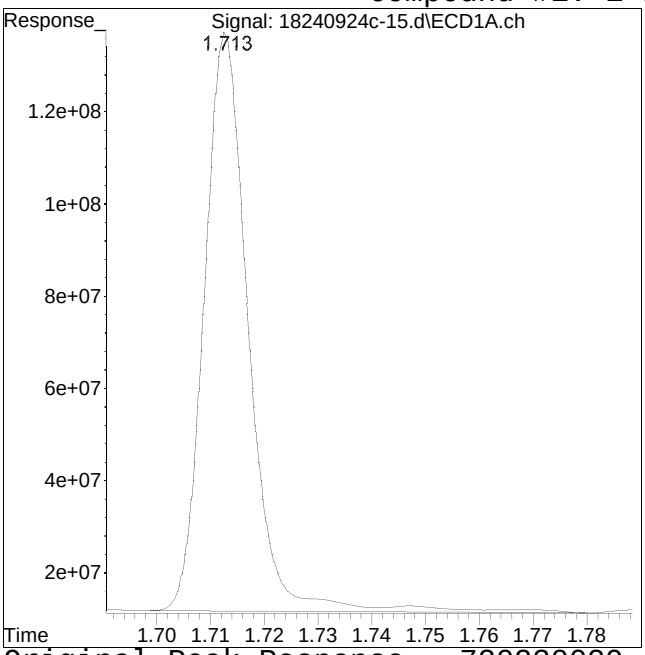
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

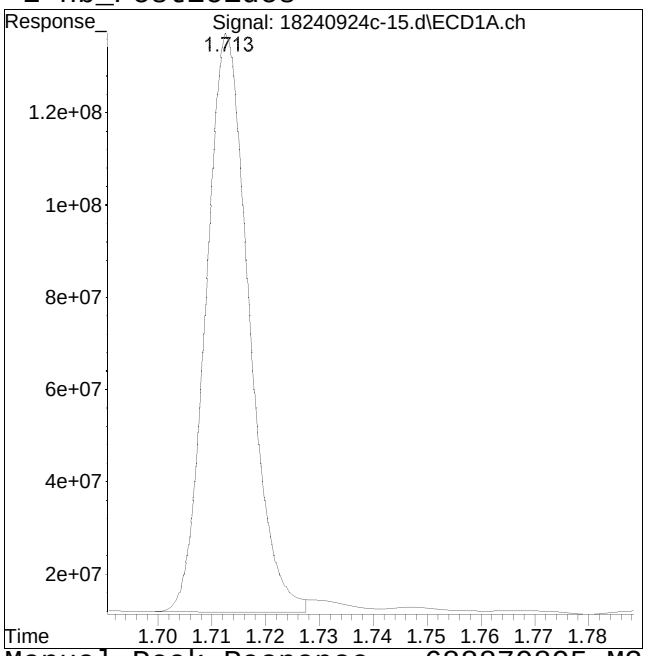


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



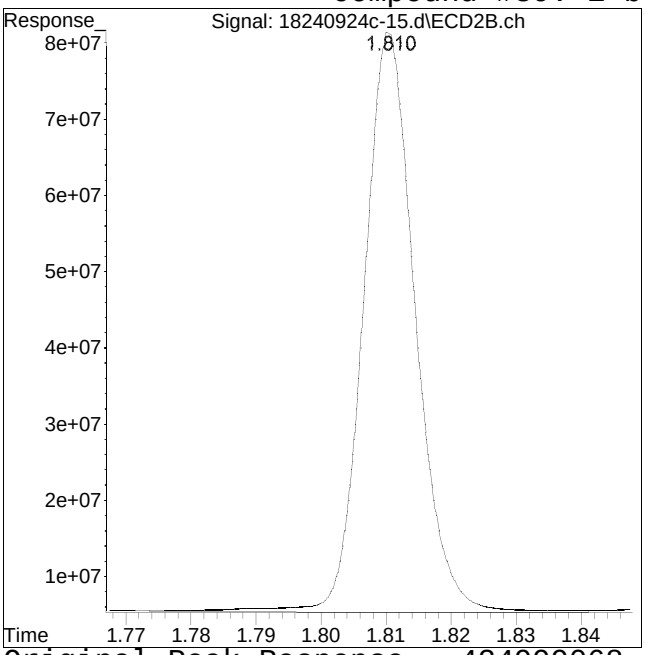


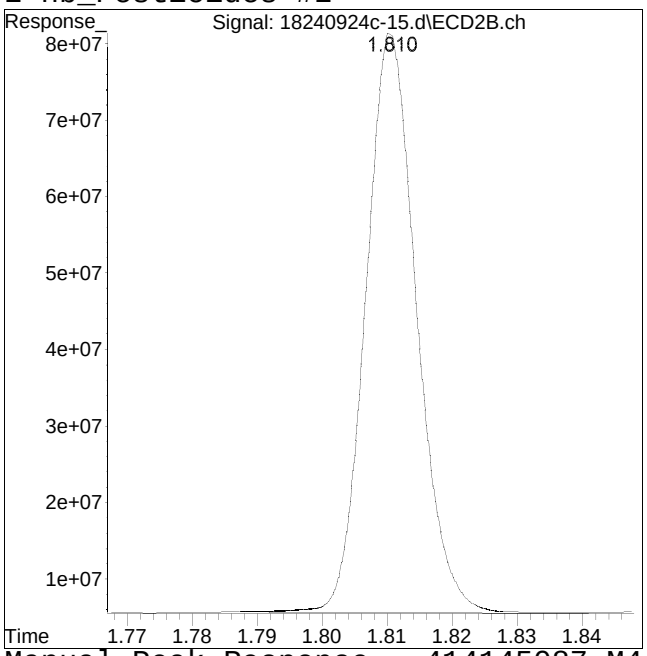
Original Peak Response = 720230029 Manual Peak Response = 688870895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



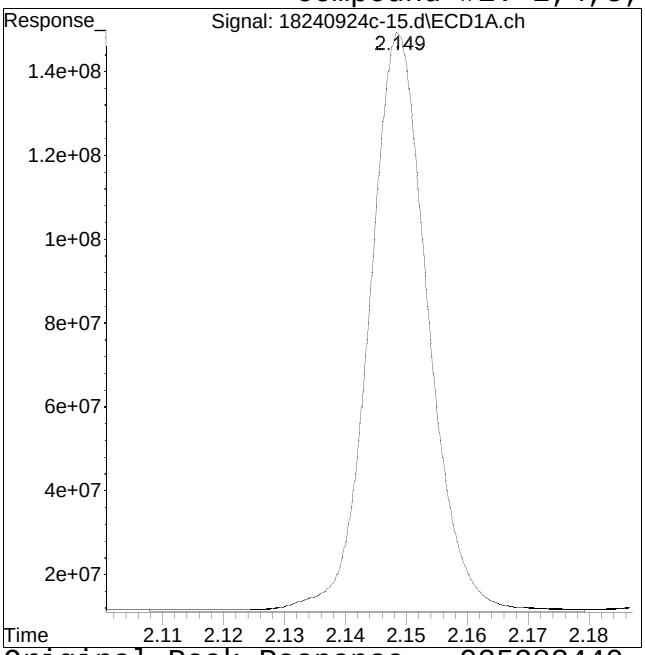


Original Peak Response = 424999068 Manual Peak Response = 414145087 M4
M4 = Poor automated baseline construction.

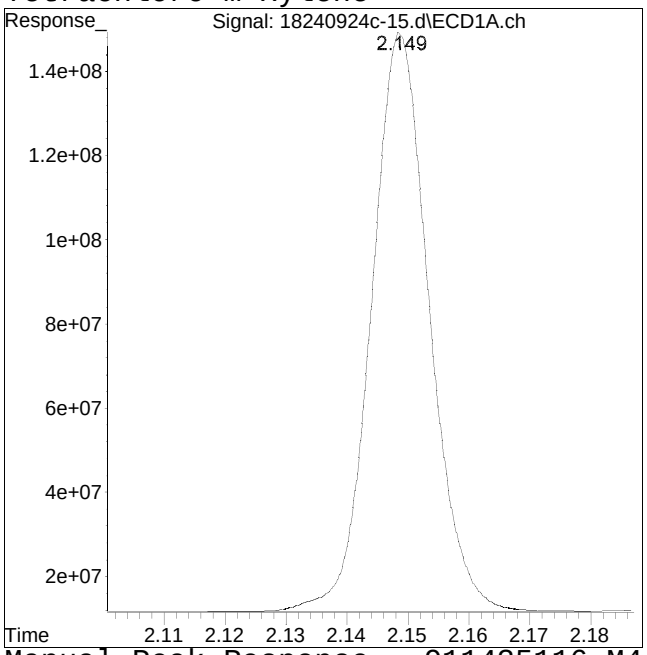
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 935282440



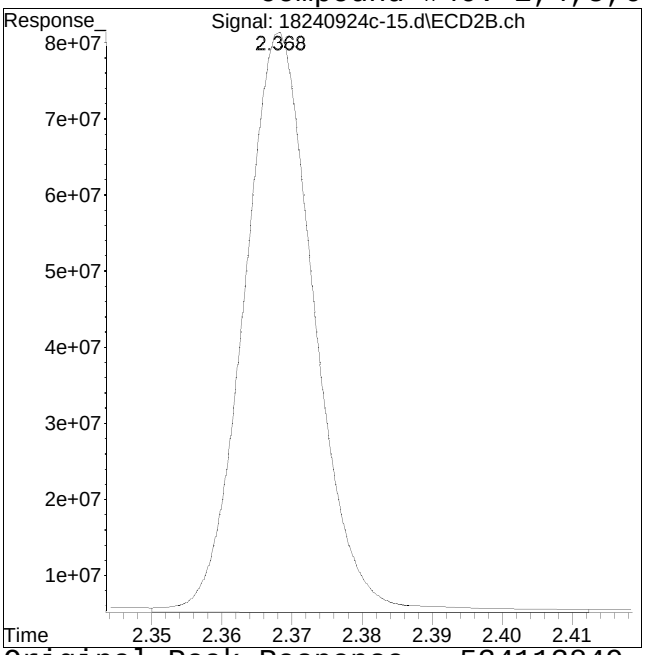
Manual Peak Response = 911435116 M4

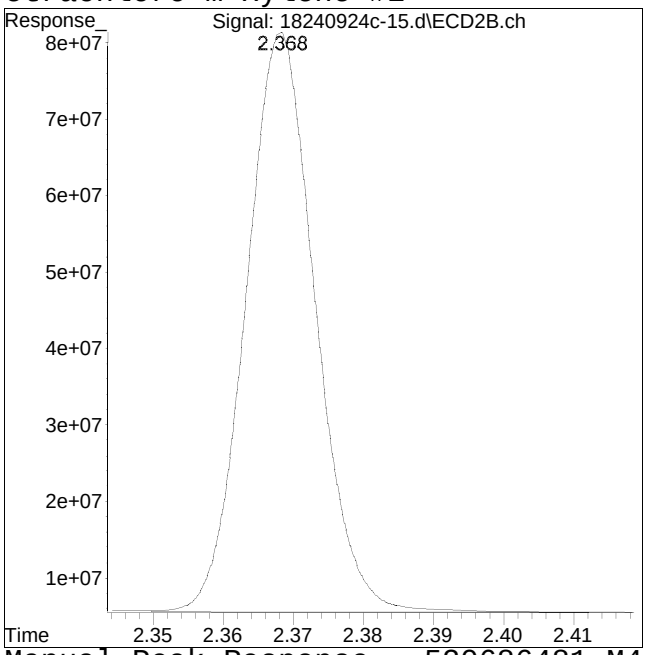
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



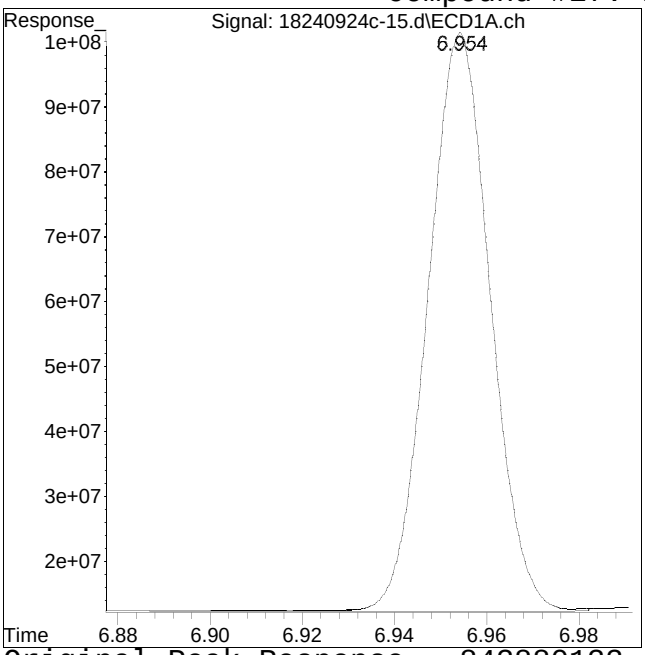


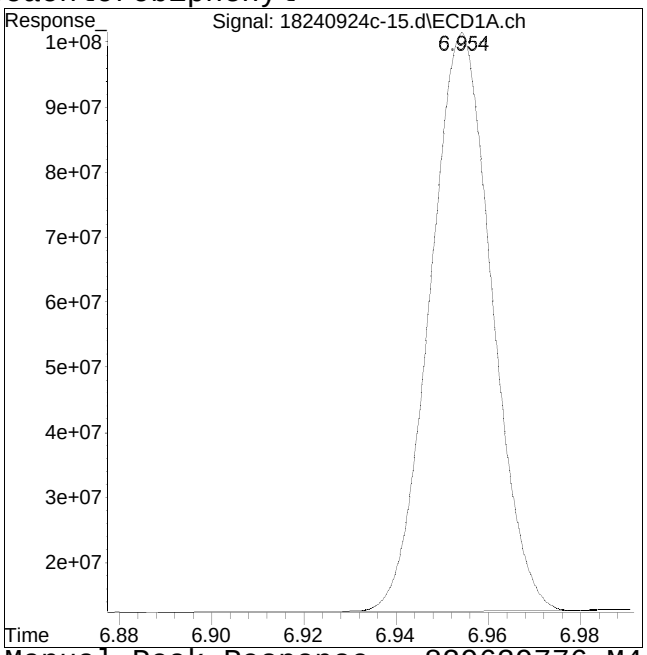
Original Peak Response = 534113849 Manual Peak Response = 520686481 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



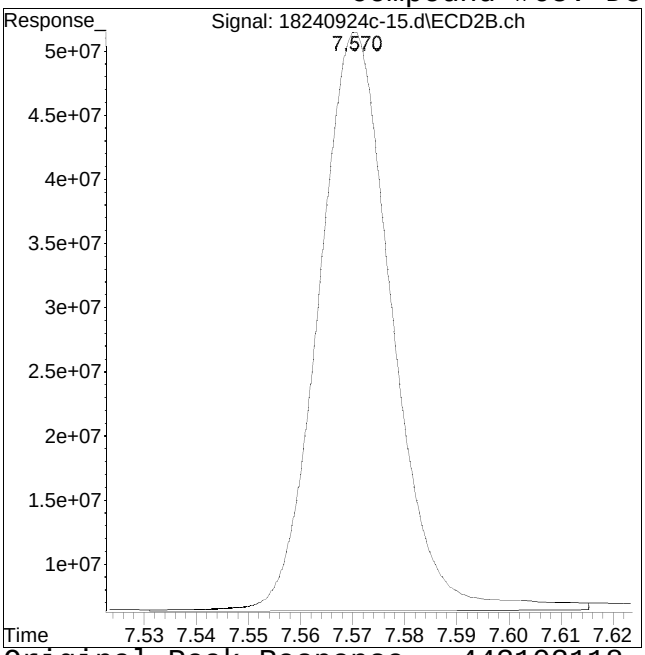


Original Peak Response = 843880133 Manual Peak Response = 829639776 M4
M4 = Poor automated baseline construction.

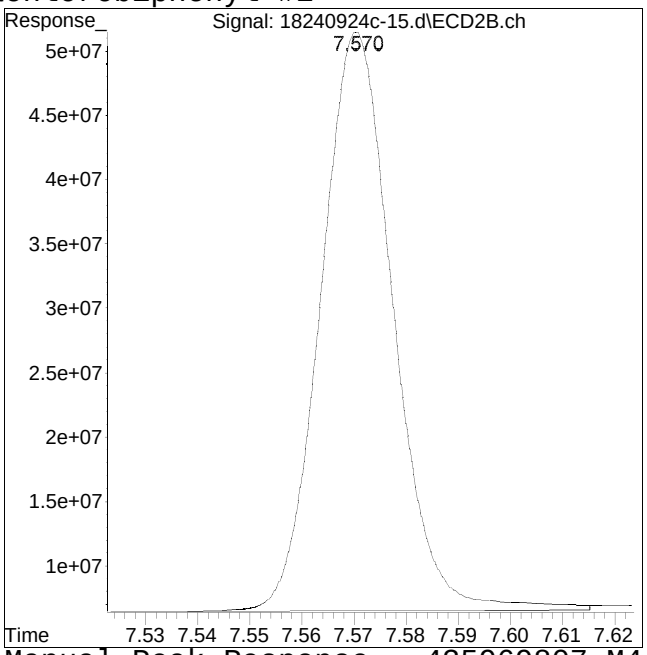
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 443102118



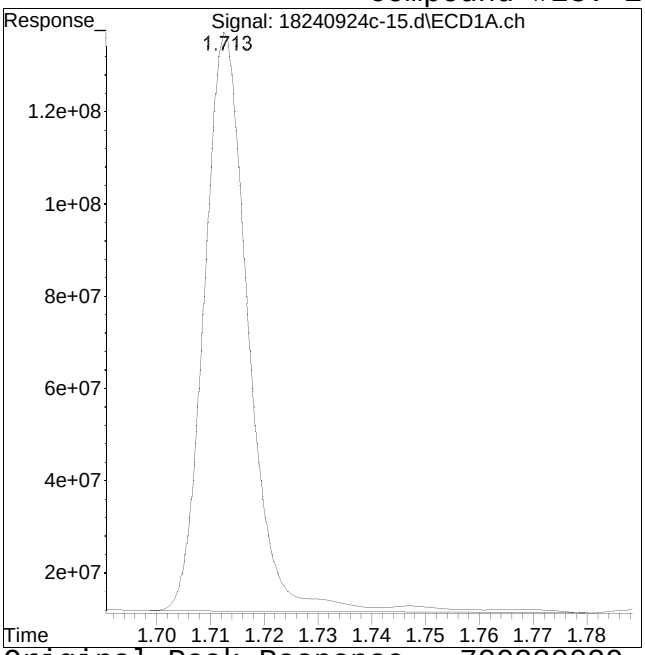
Manual Peak Response = 435969807 M4

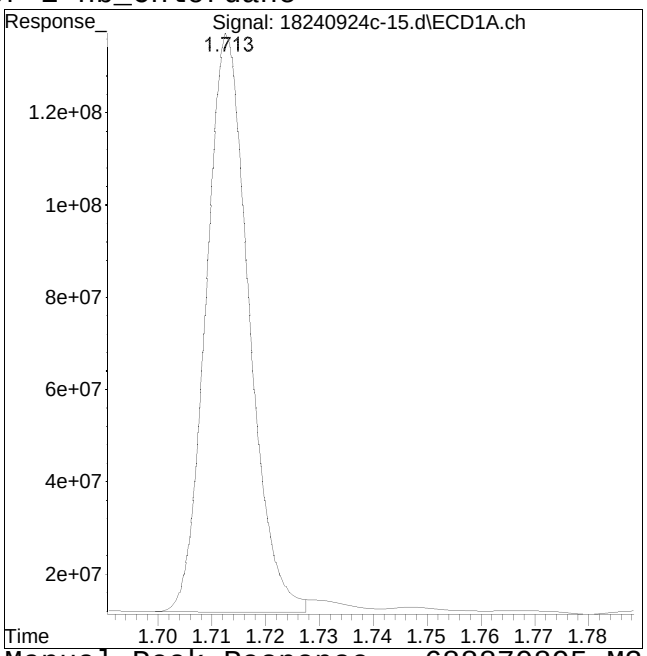
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



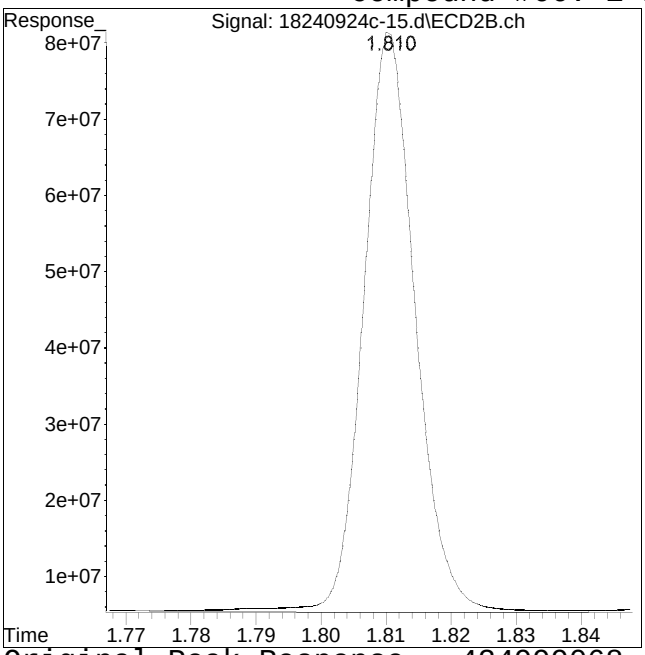


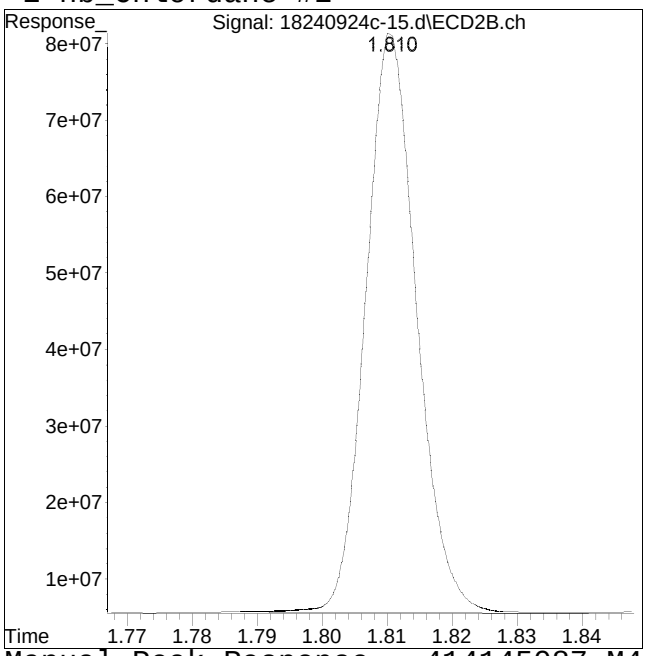
Original Peak Response = 720230029 Manual Peak Response = 688870895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



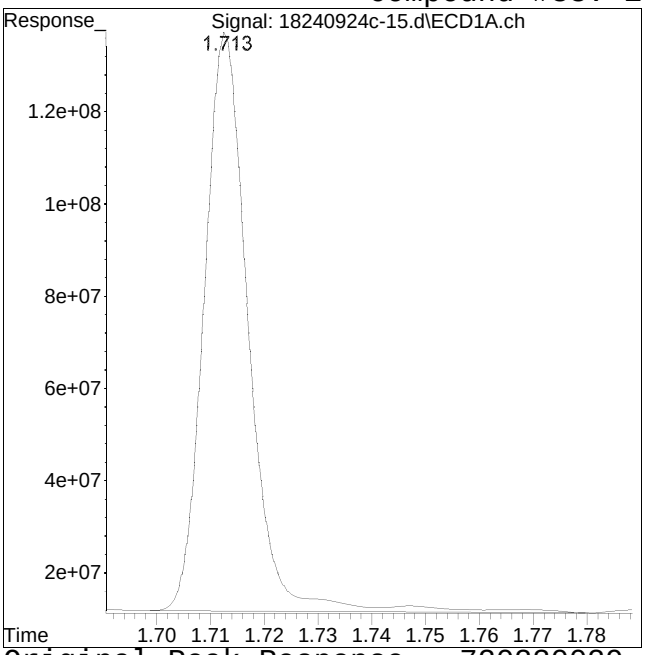


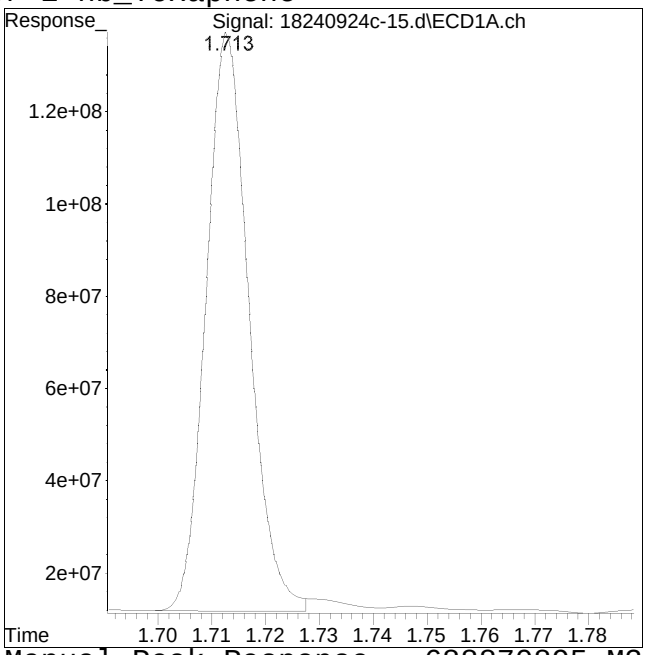
Original Peak Response = 424999068 Manual Peak Response = 414145087 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



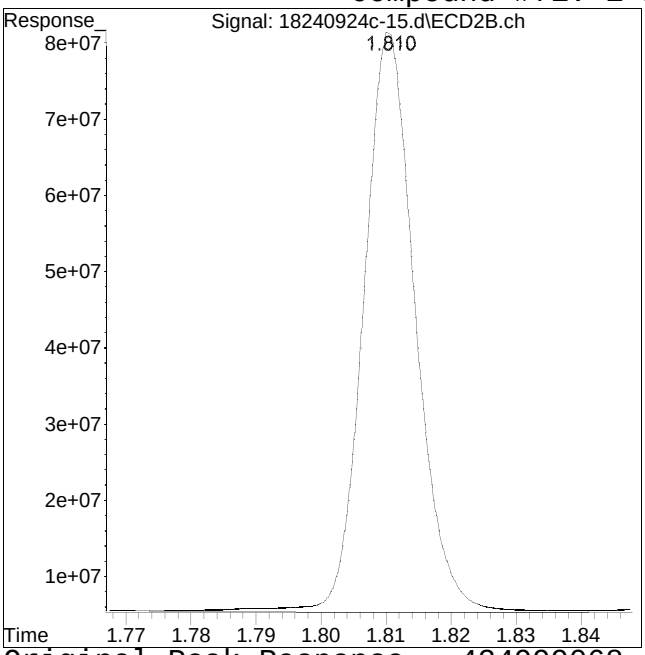


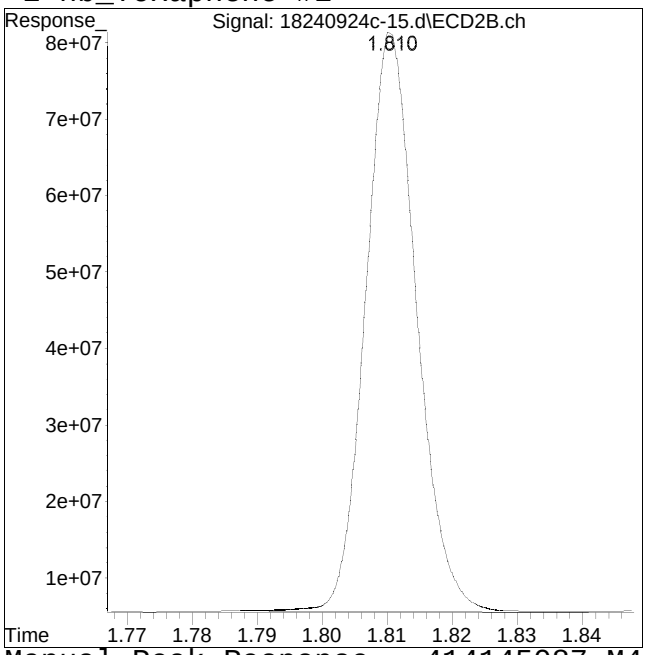
Original Peak Response = 720230029 Manual Peak Response = 688870895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-15.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:41 Instrument : Pest 18
Sample : L2453342-04,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 424999068 Manual Peak Response = 414145087 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:53
Operator : PEST18:akm
Sample : L2453342-05,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:21 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.713	1.811	761.2E6	439.1E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 115.57%		
	Standard Area 1 : #2 = 368373311				Recovery = 119.20%		
28) i	1-br-2-nb_Ch	1.713	1.811	761.2E6	439.1E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.713	1.811	761.2E6	439.1E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.150	2.368	1114.2E6	610.6E6	30.004	29.482M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 60.01%		58.96%
27) s	Decachlorobi	6.954	7.571	1010.9E6	498.6E6	27.726M4	29.791M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 55.45%		59.58%
	Target Compounds						
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:53
Operator : PEST18:akm
Sample : L2453342-05,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:21 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

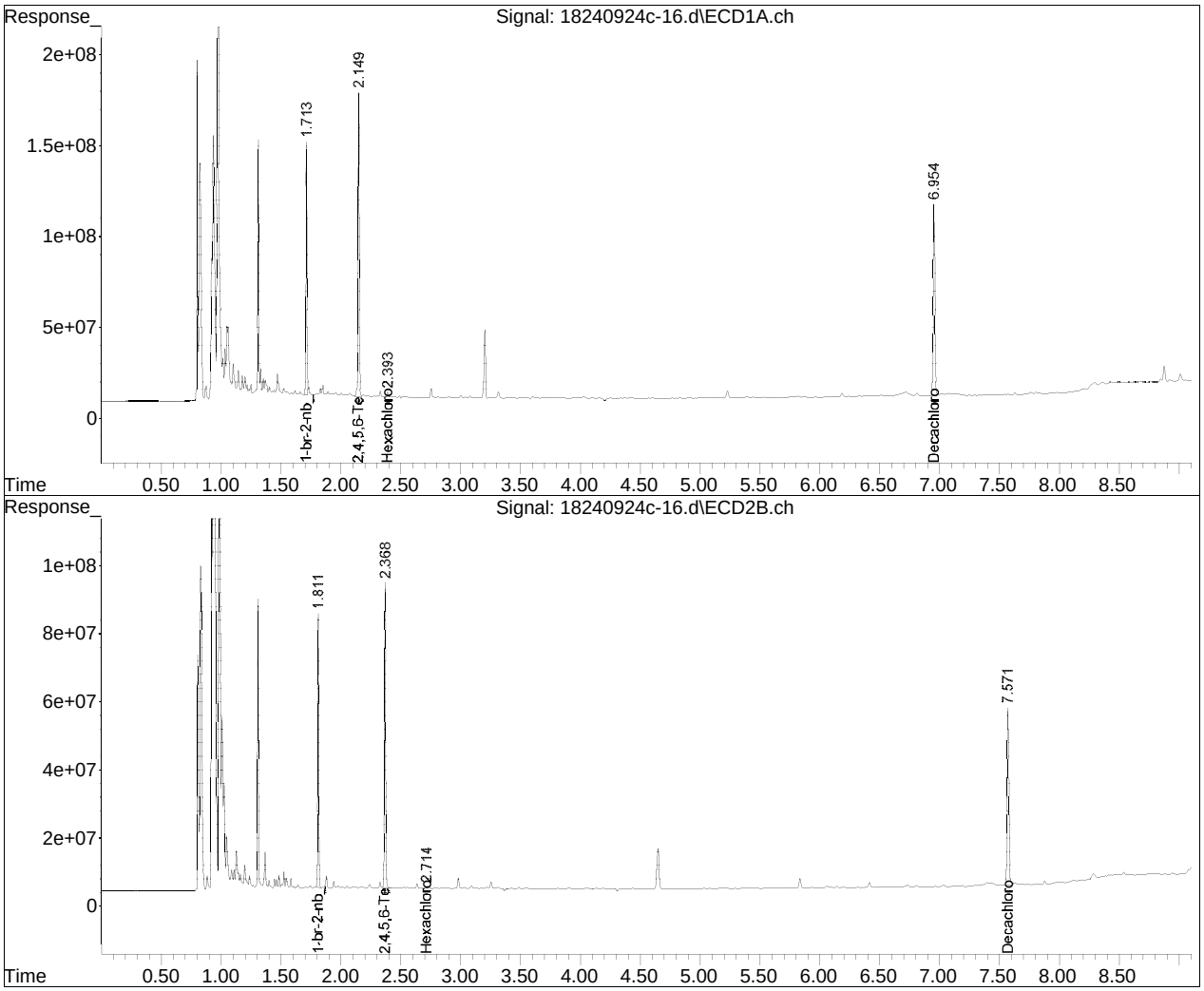
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:53
Operator : PEST18:akm
Sample : L2453342-05,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:21 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

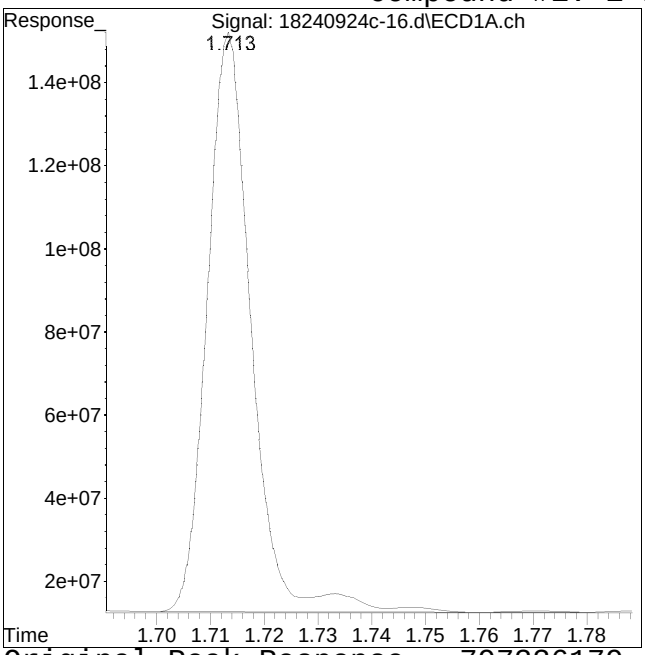
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

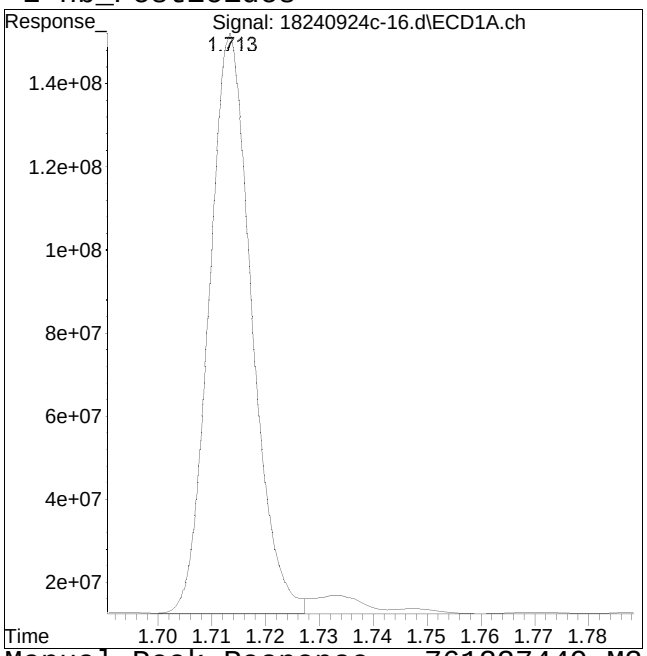


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



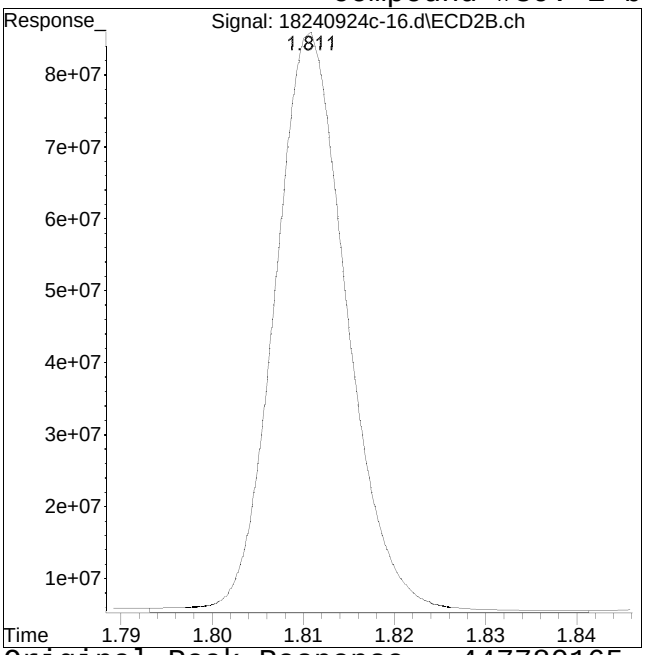


Original Peak Response = 797336179 Manual Peak Response = 761227449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

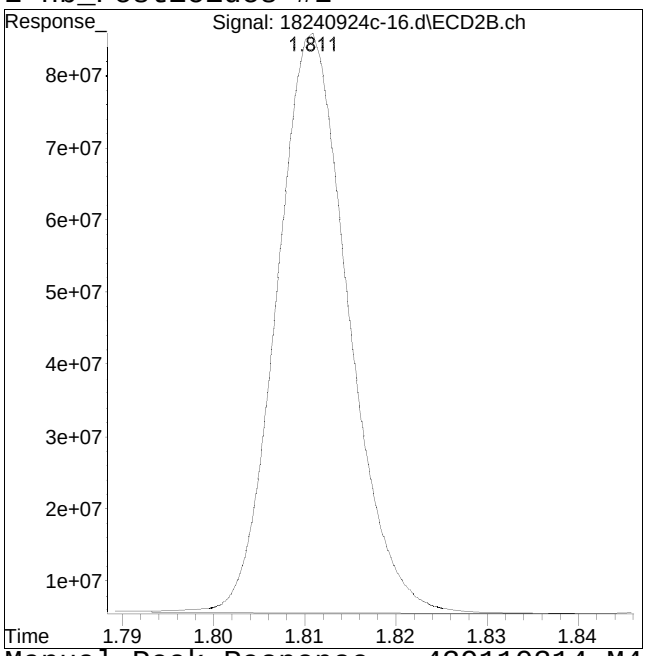
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 447780165



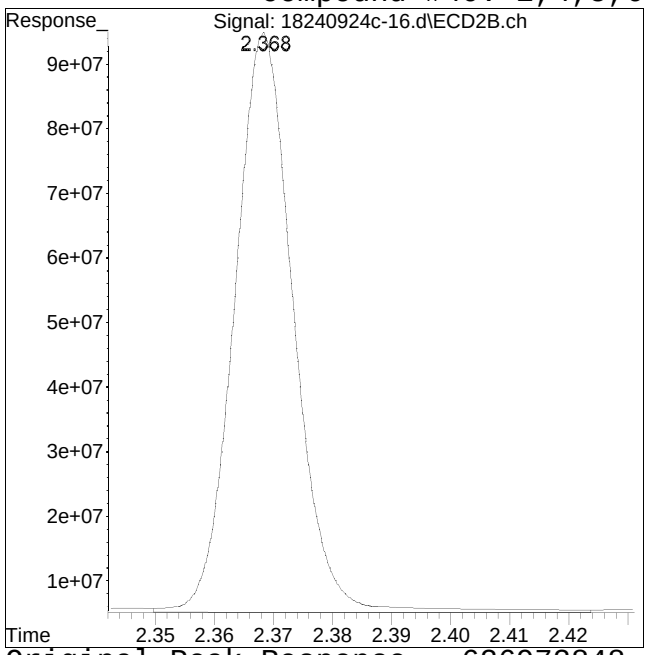
Manual Peak Response = 439110314 M4

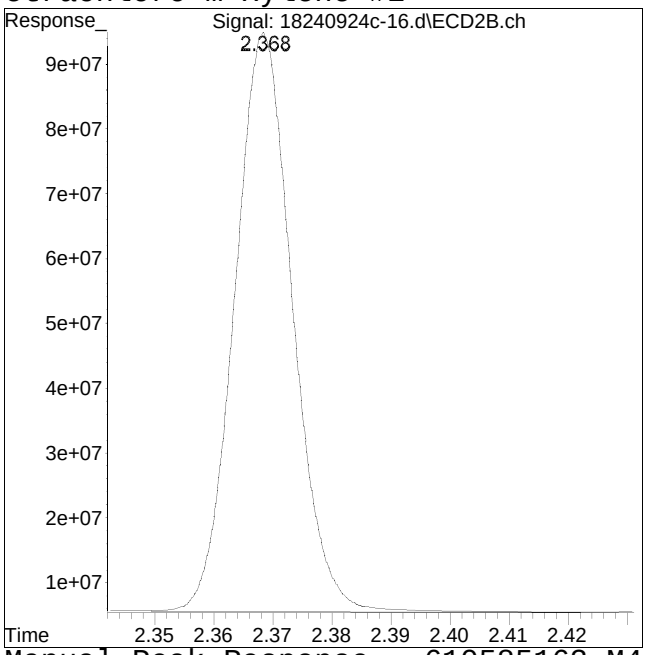
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



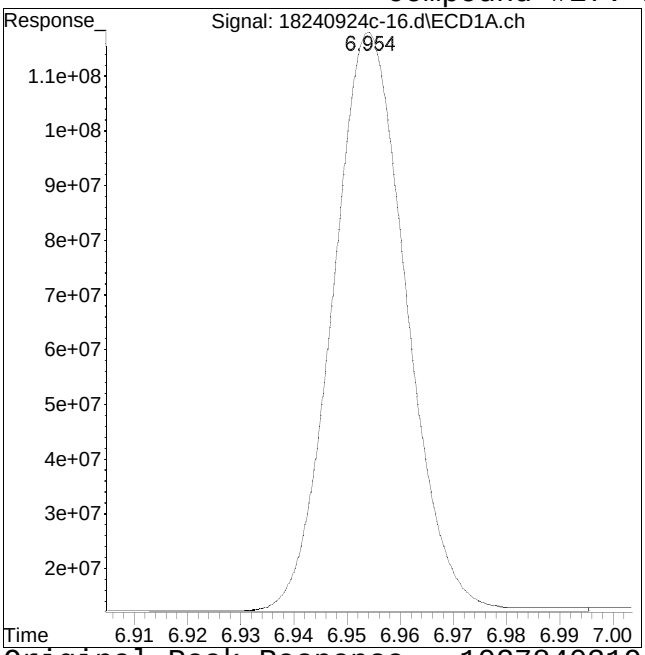


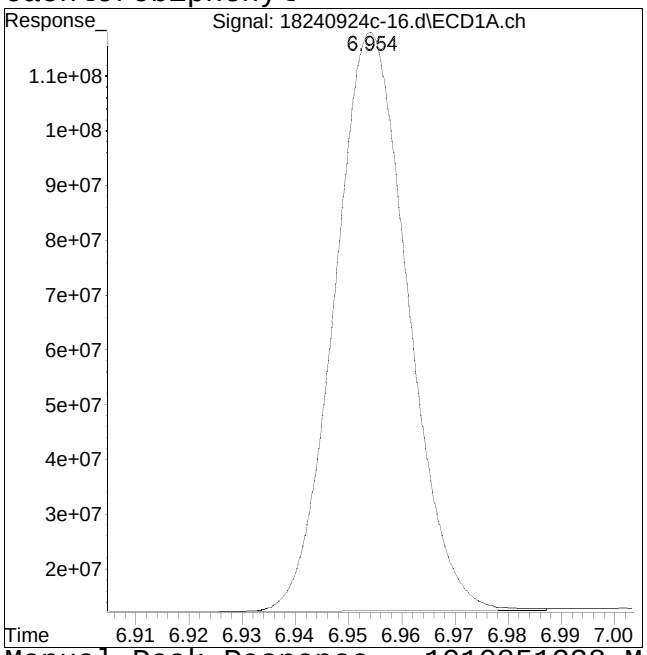
Original Peak Response = 626972848 Manual Peak Response = 610585163 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



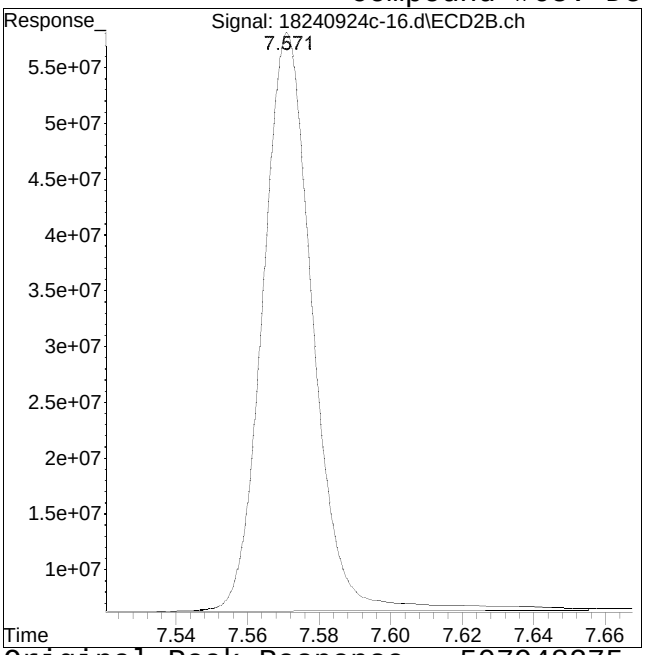


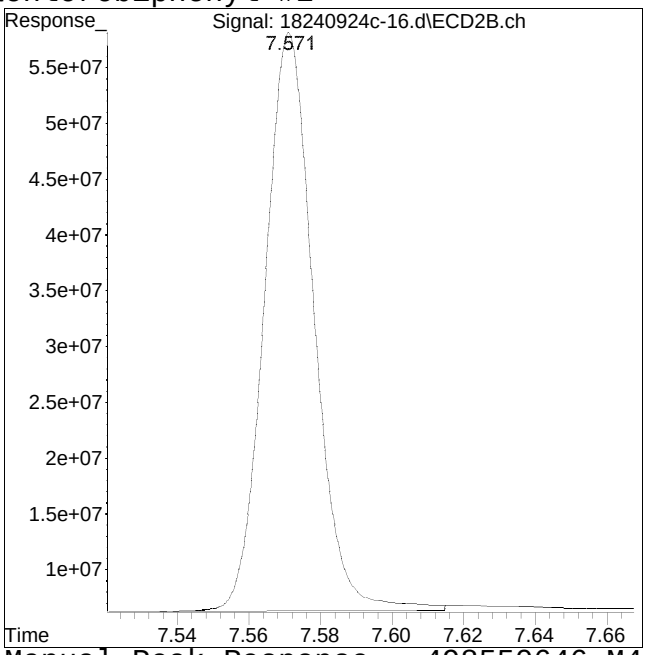
Original Peak Response = 1027840319 Manual Peak Response = 1010851238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



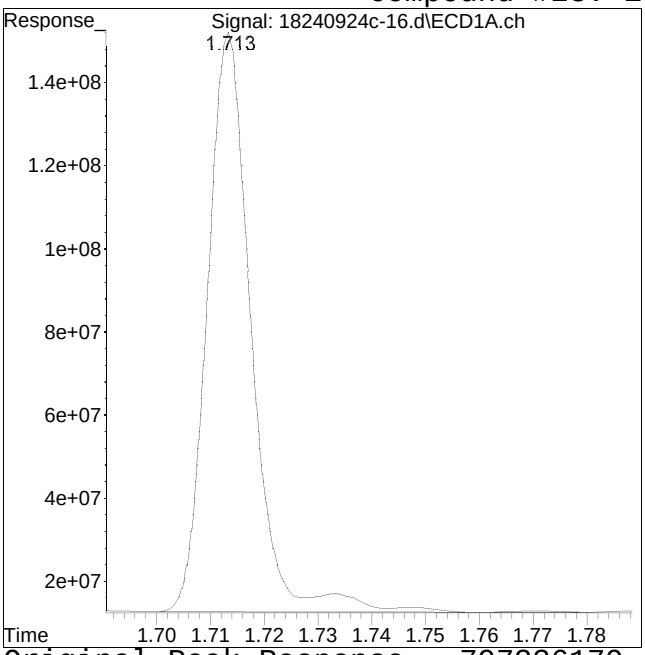


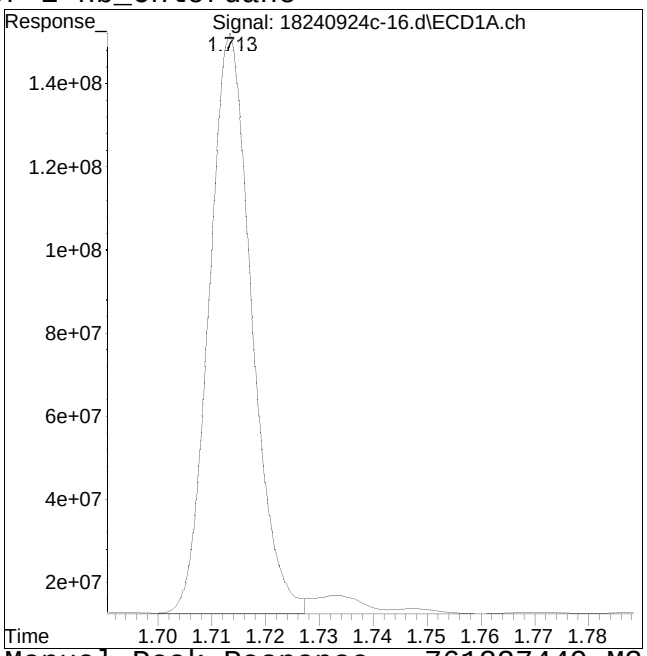
Original Peak Response = 507948275 Manual Peak Response = 498550646 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



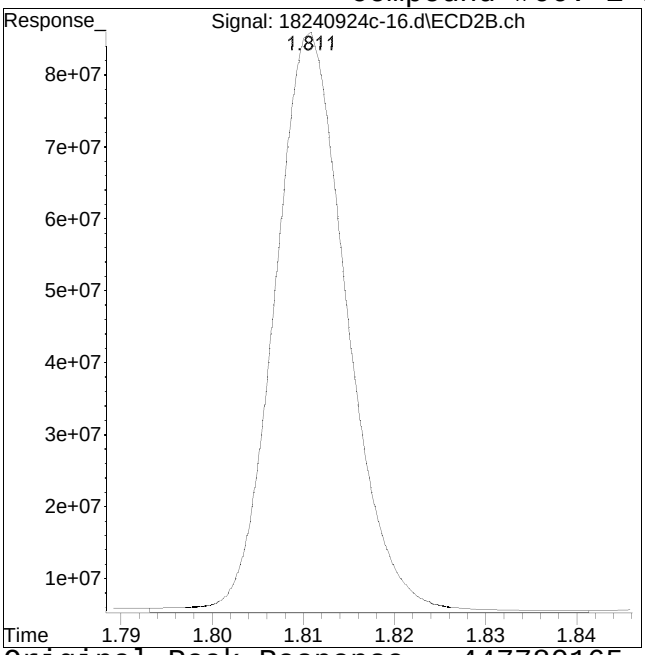


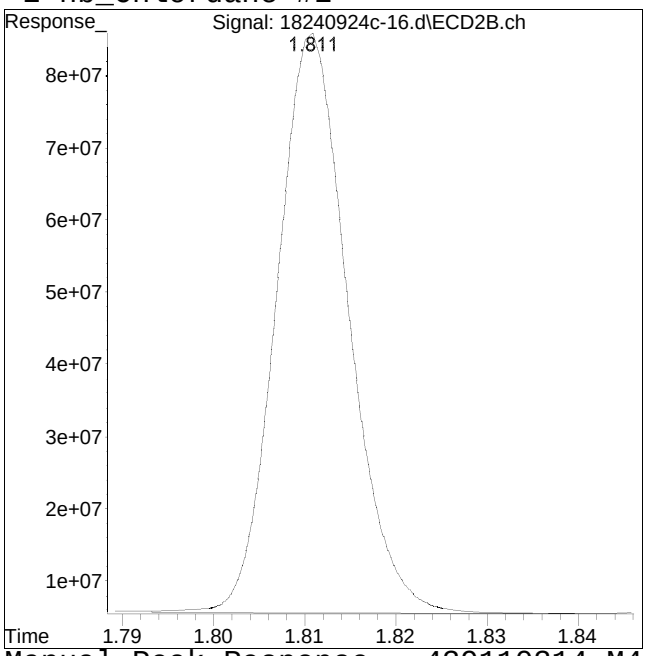
Original Peak Response = 797336179 Manual Peak Response = 761227449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



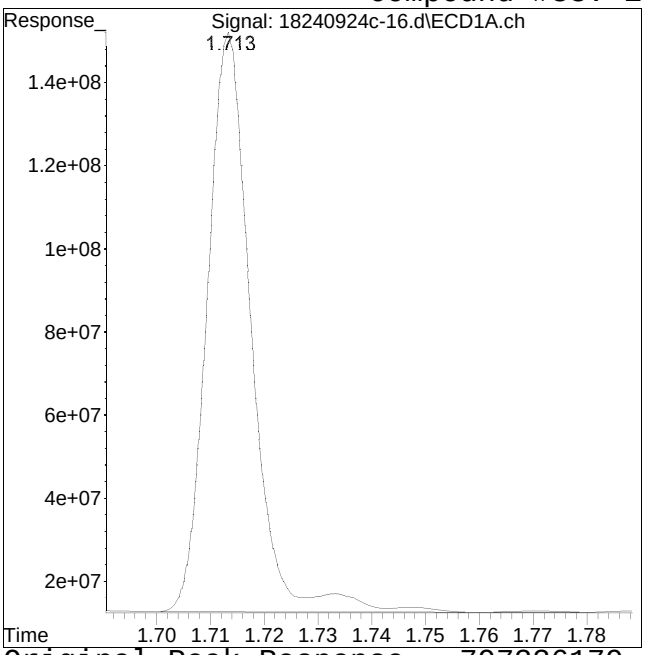


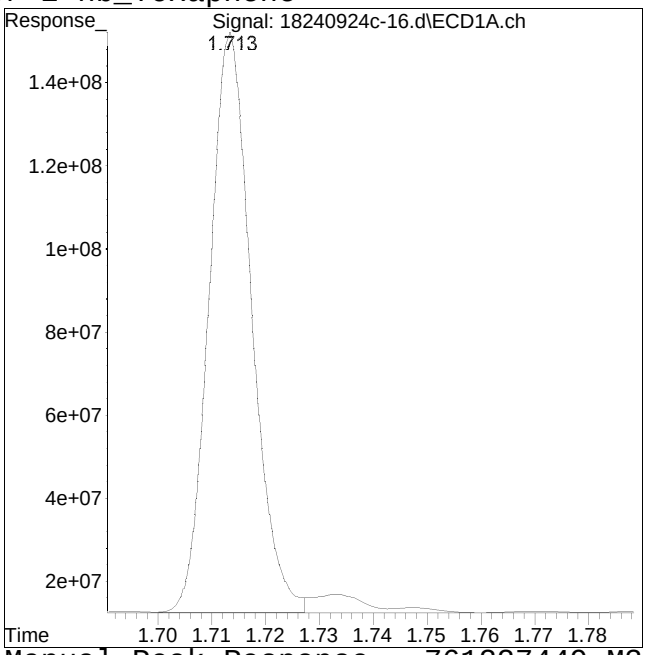
Original Peak Response = 447780165 Manual Peak Response = 439110314 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



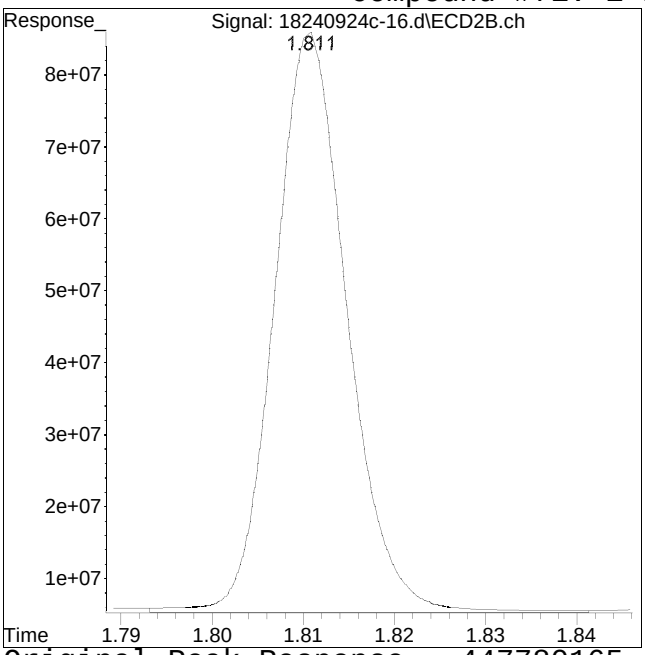


Original Peak Response = 797336179 Manual Peak Response = 761227449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

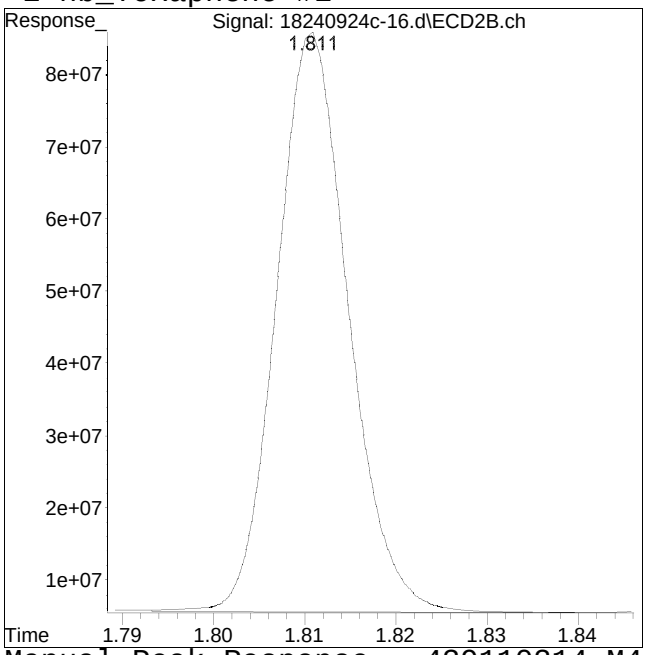
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-16.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 12:53 Instrument : Pest 18
Sample : L2453342-05,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 447780165



Manual Peak Response = 439110314 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:04
Operator : PEST18:akm
Sample : L2453342-06,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.713	1.811	762.7E6	444.2E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 115.79%		
	Standard Area 1 : #2 = 368373311				Recovery = 120.60%		
28) i	1-br-2-nb_Ch	1.713	1.811	762.7E6	444.2E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.713	1.811	762.7E6	444.2E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.149	2.368	954.8E6	542.5E6	25.661M4	25.891M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 51.32%		51.78%
27) s	Decachlorobi	6.954	7.570	791.8E6	431.9E6	21.509M4	25.513M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 43.02%		51.03%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:04
Operator : PEST18:akm
Sample : L2453342-06,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

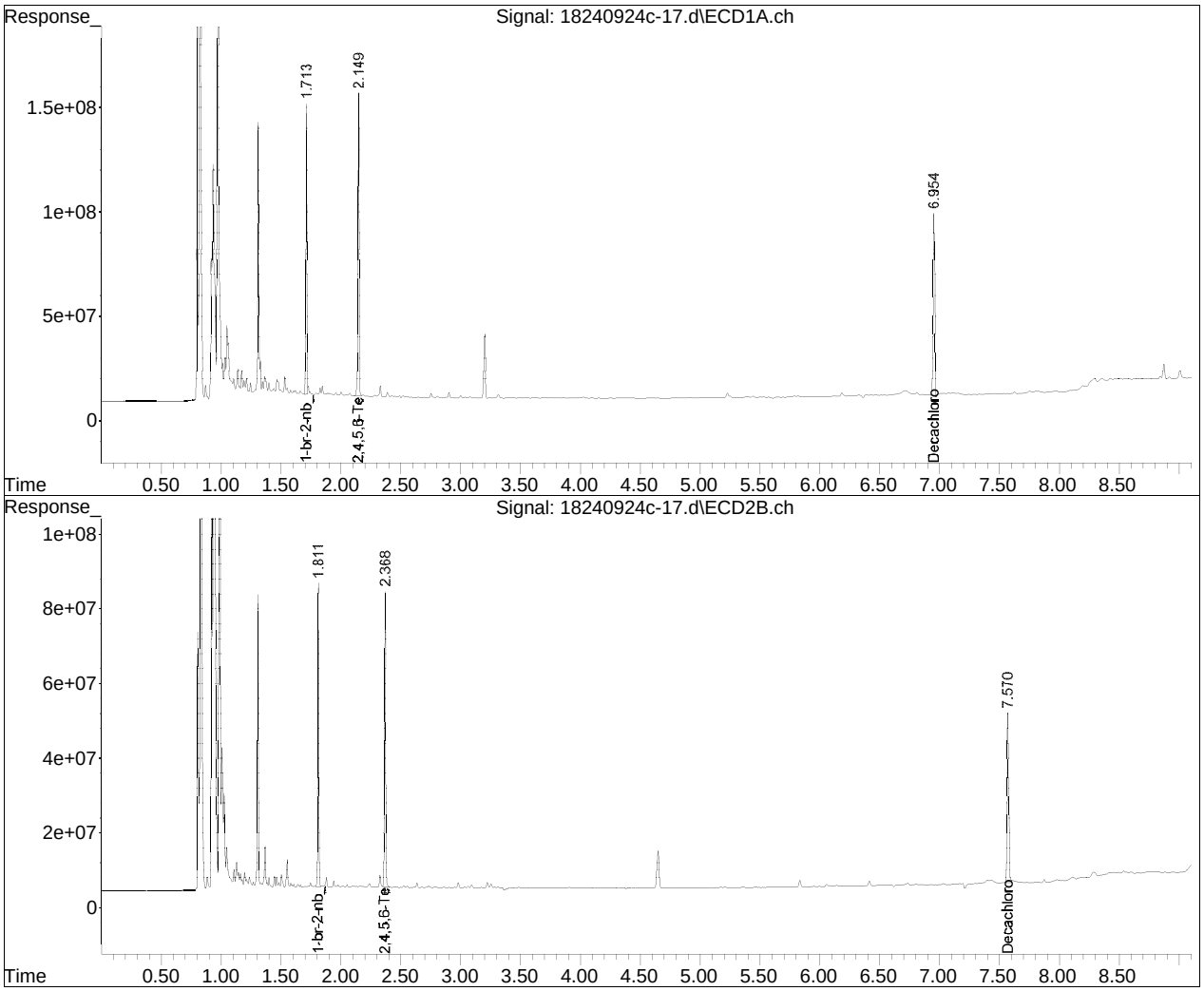
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:04
Operator : PEST18:akm
Sample : L2453342-06,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

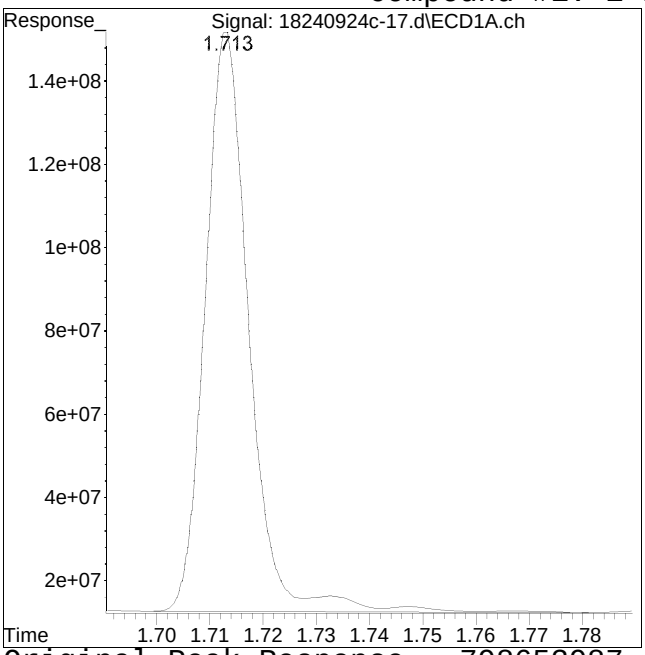
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

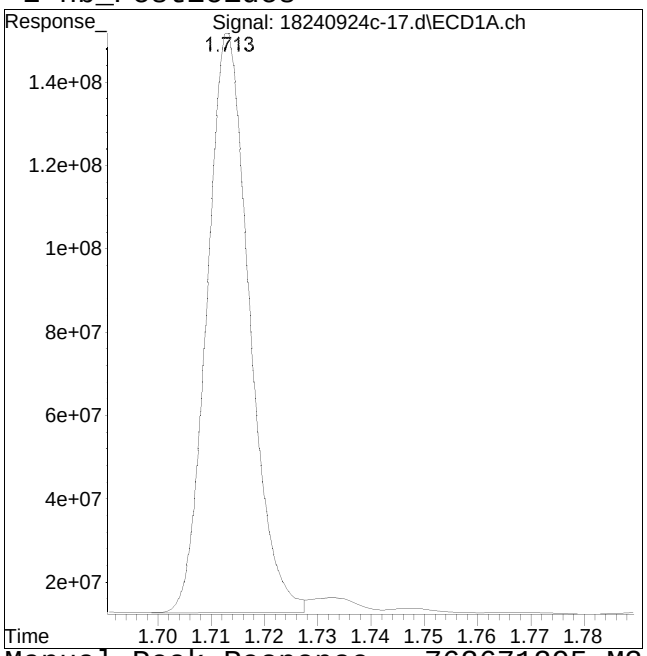


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



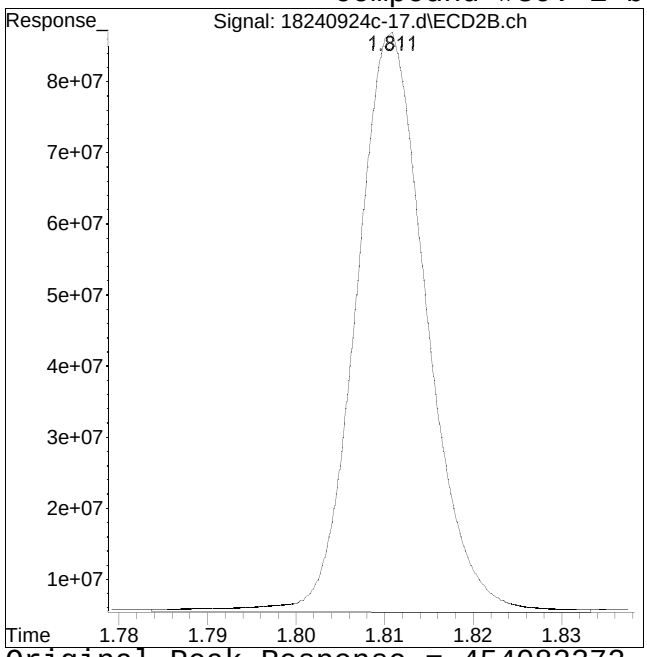


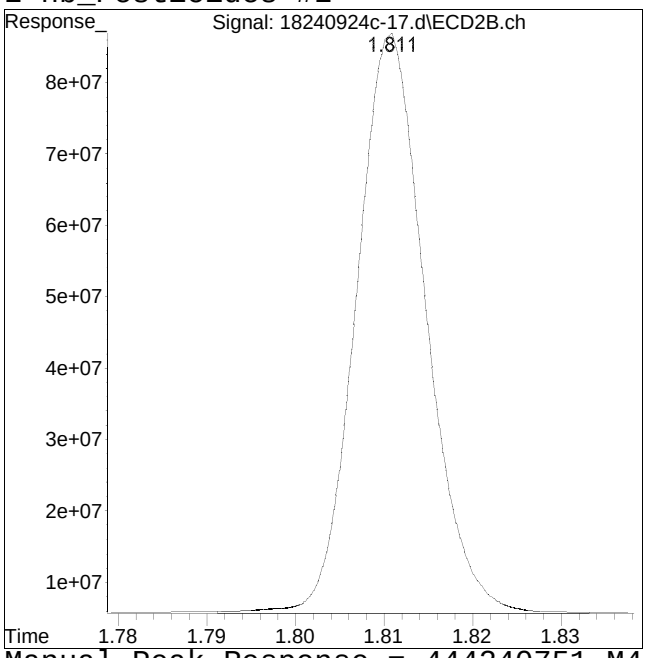
Original Peak Response = 798653987 Manual Peak Response = 762671295 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



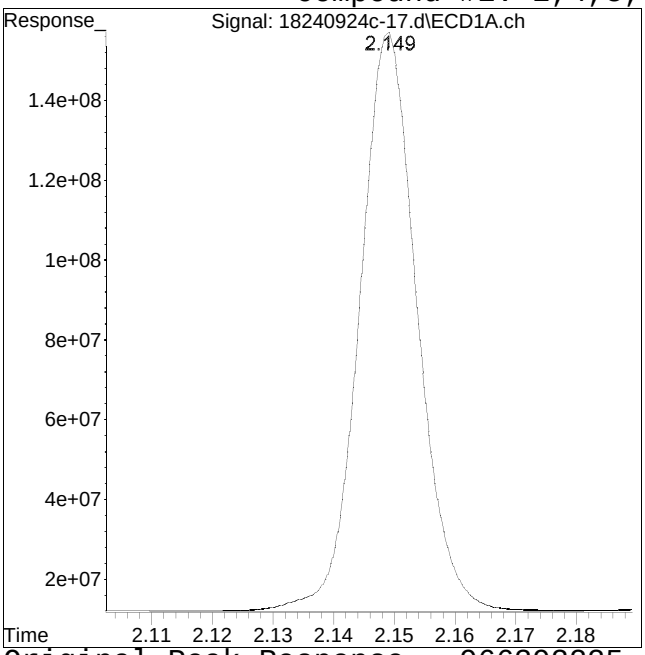


Original Peak Response = 454082372 Manual Peak Response = 444240751 M4
M4 = Poor automated baseline construction.

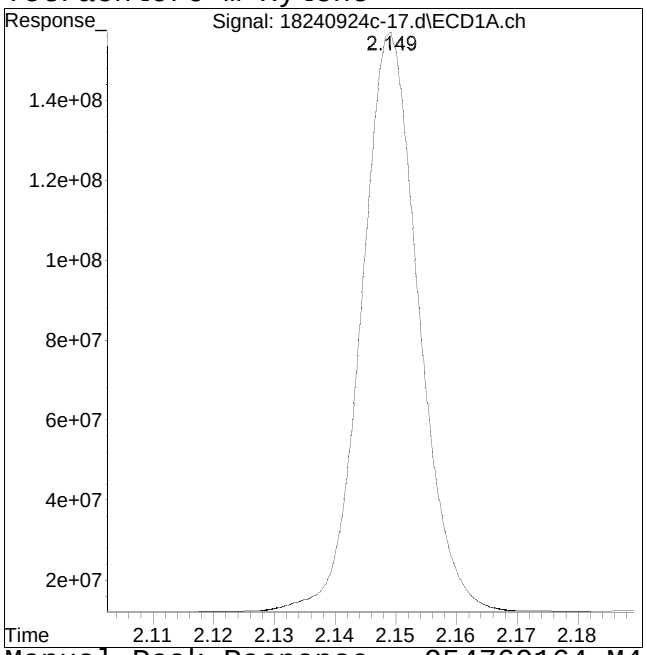
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 966392225



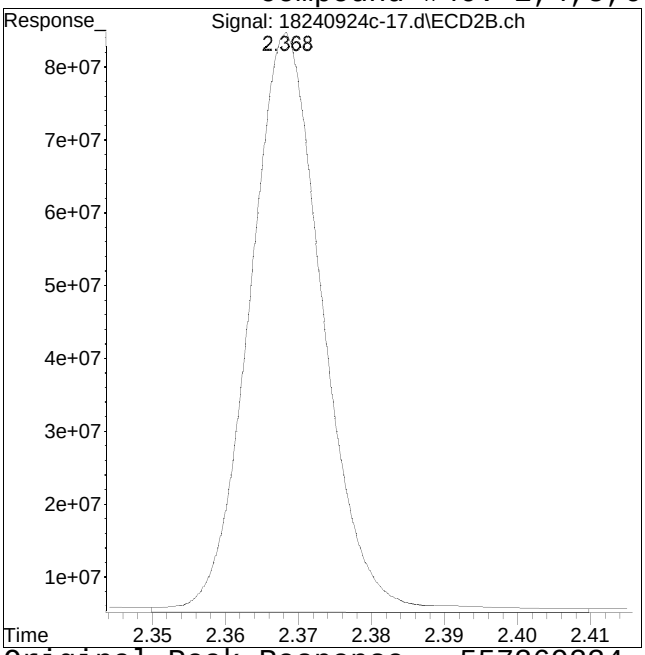
Manual Peak Response = 954760164 M4

M4 = Poor automated baseline construction.

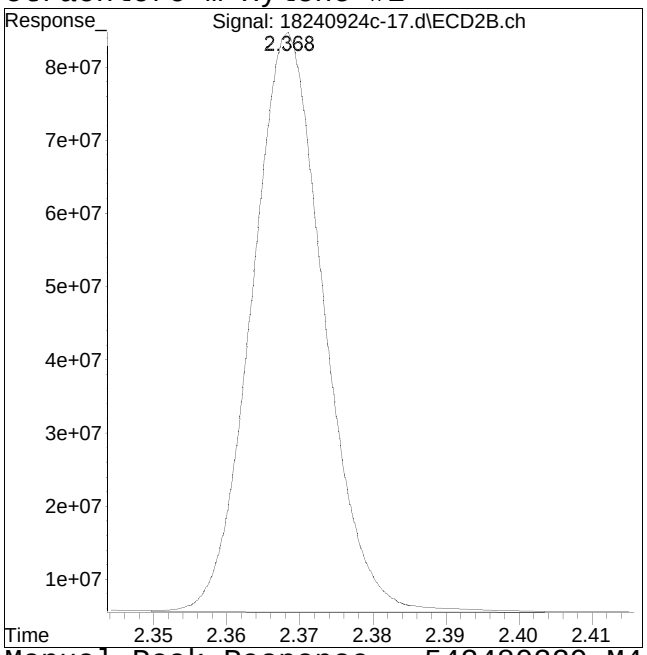
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 557369334



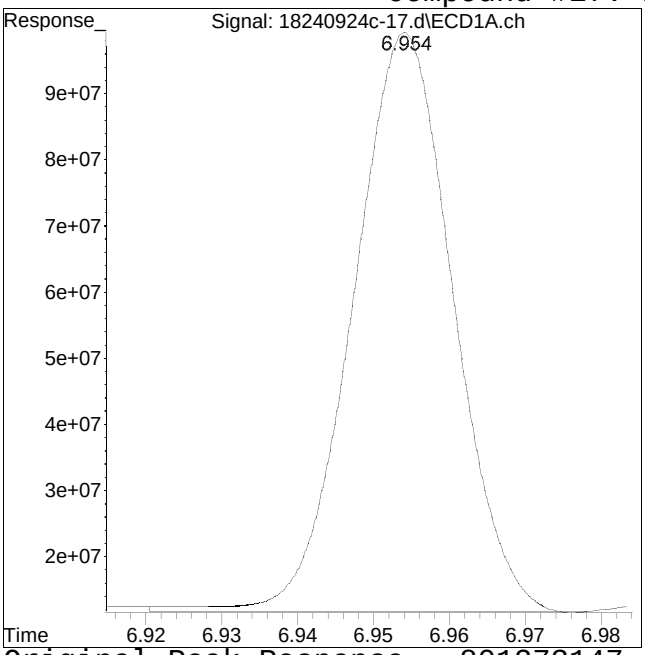
Manual Peak Response = 542480329 M4

M4 = Poor automated baseline construction.

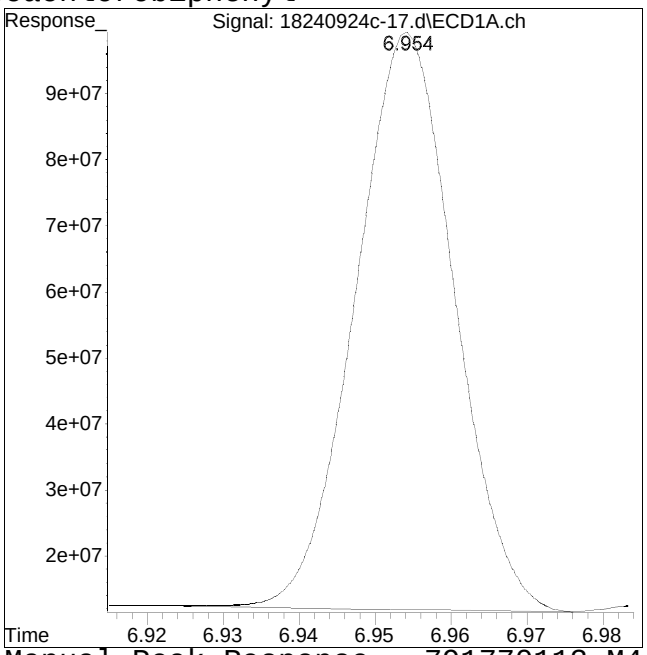
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 801273147



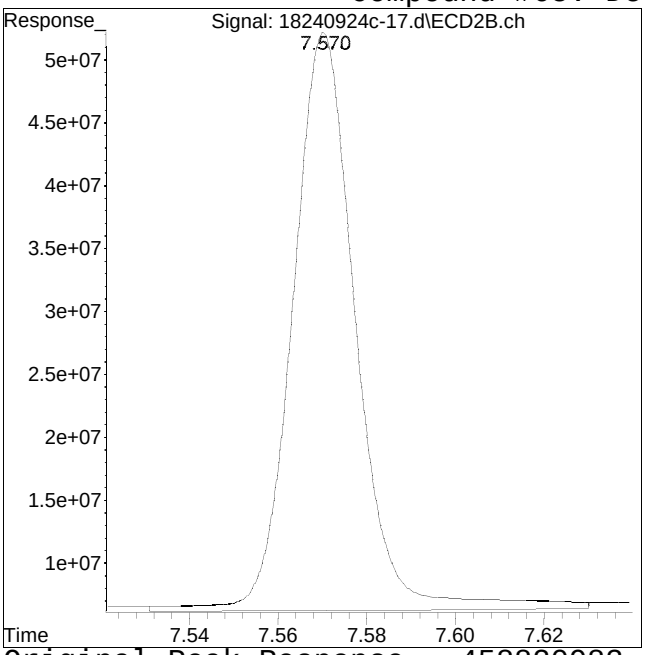
Manual Peak Response = 791770113 M4

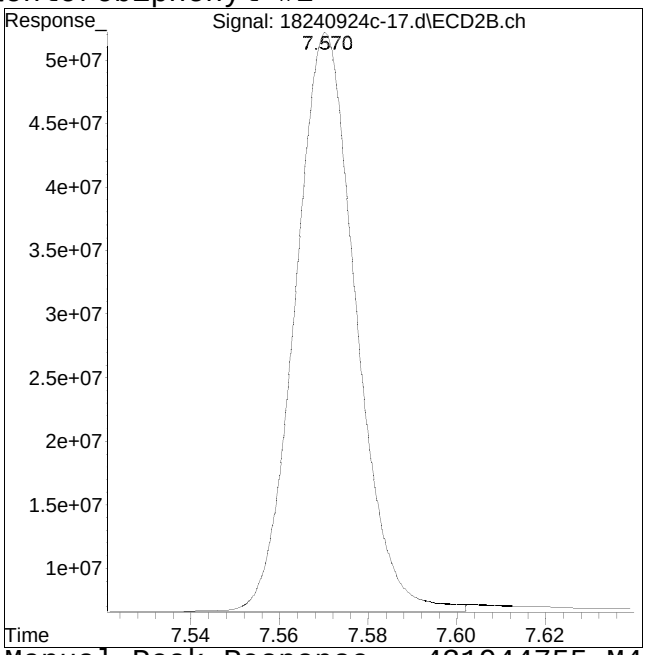
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



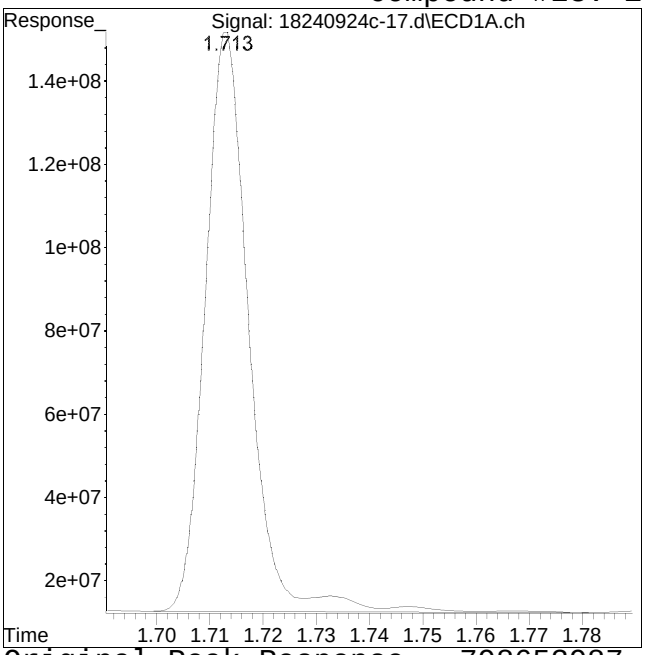


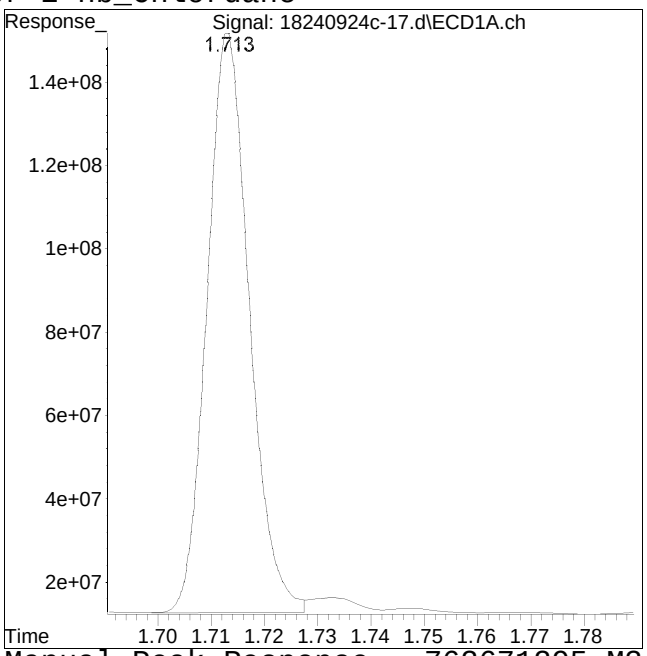
Original Peak Response = 458820983 Manual Peak Response = 431944755 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



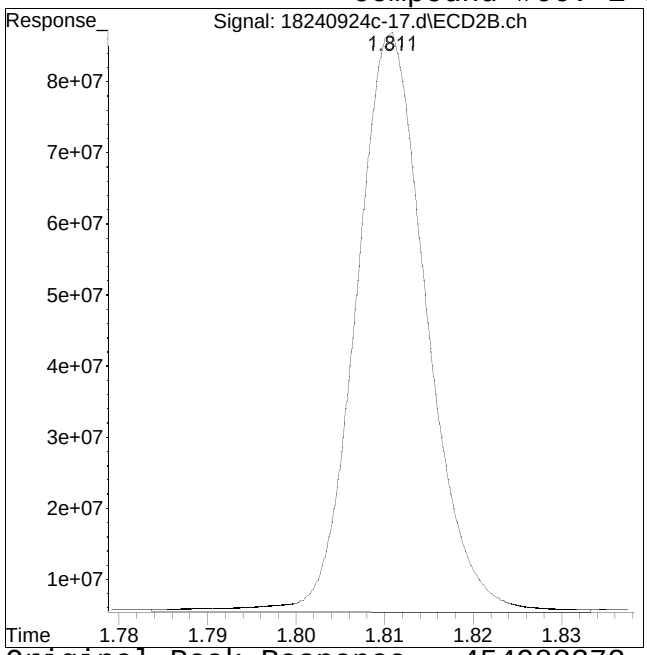


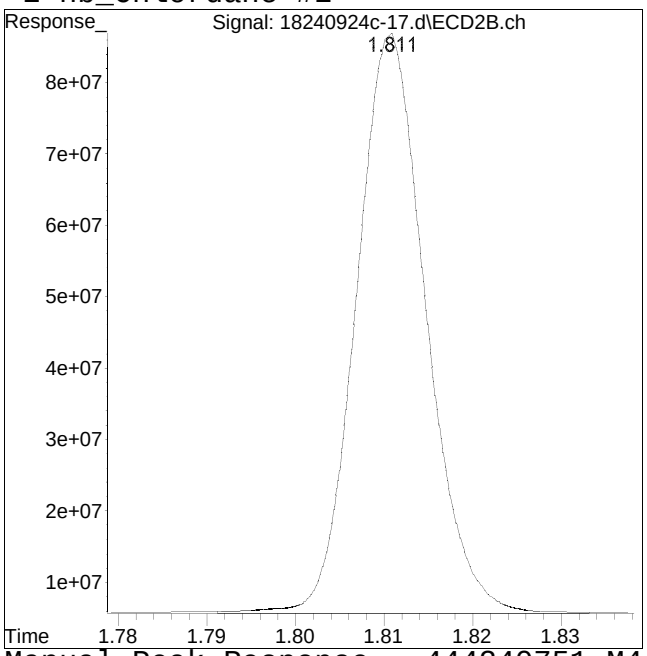
Original Peak Response = 798653987 Manual Peak Response = 762671295 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



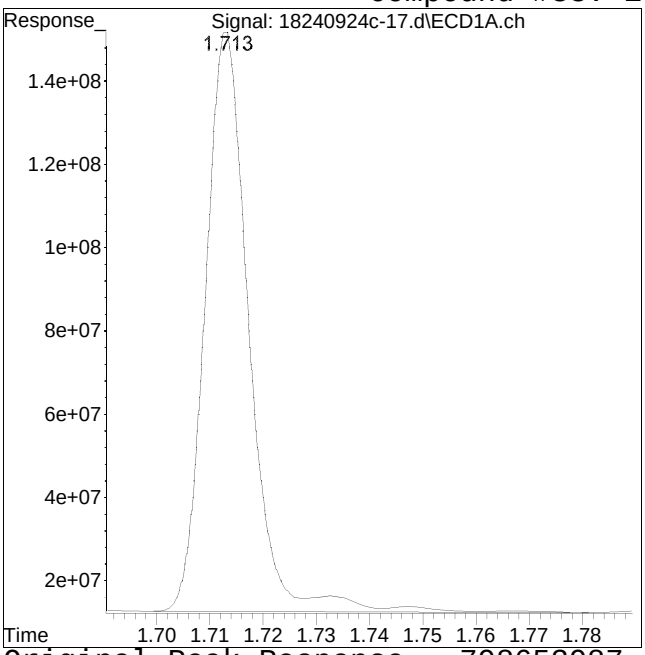


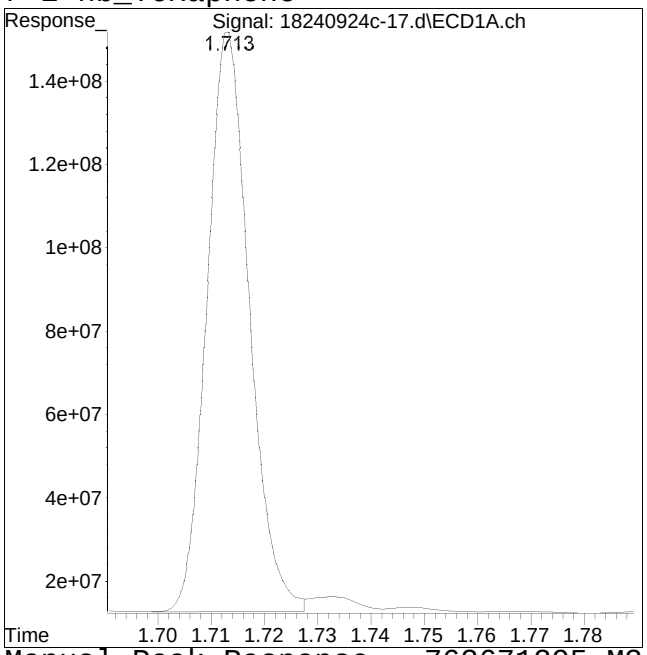
Original Peak Response = 454082372 Manual Peak Response = 444240751 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



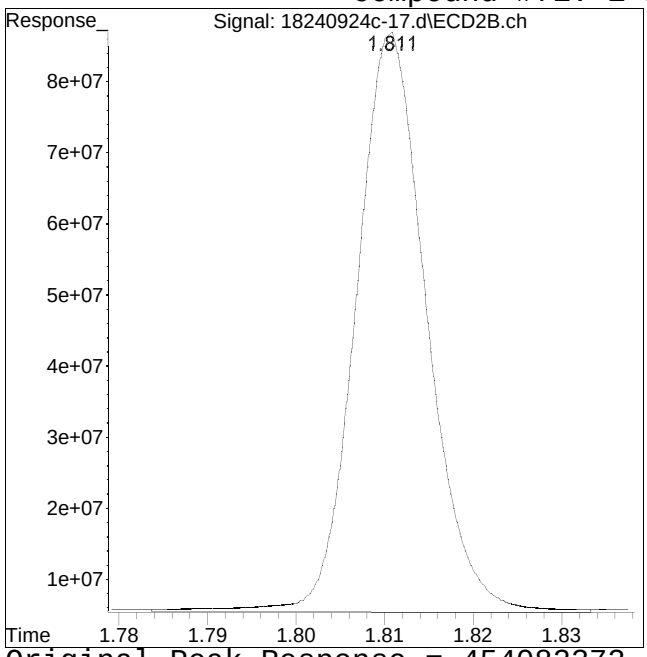


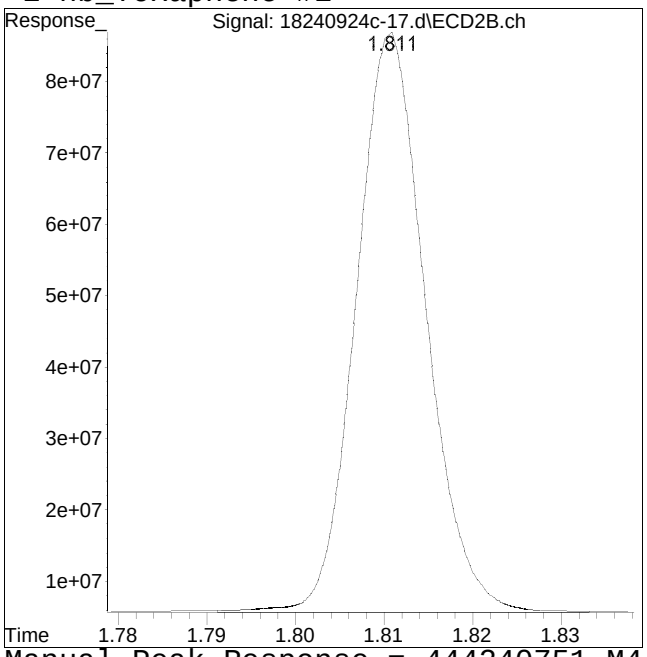
Original Peak Response = 798653987 Manual Peak Response = 762671295 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-17.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:04 Instrument : Pest 18
Sample : L2453342-06,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 454082372 Manual Peak Response = 444240751 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:16
Operator : PEST18:akm
Sample : L2453342-07,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:26 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.713	1.811	728.6E6	445.4E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 110.62%		
	Standard Area 1 : #2 = 368373311				Recovery = 120.92%		
28) i	1-br-2-nb_Ch	1.713	1.811	728.6E6	445.4E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.713	1.811	728.6E6	445.4E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.149	2.369	972.6E6	575.6E6	27.363M4	27.398M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 54.73%		54.80%
27) s	Decachlorobi	6.955	7.571	854.0E6	451.7E6	24.384M4	26.608M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 48.77%		53.22%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:16
Operator : PEST18:akm
Sample : L2453342-07,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:26 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

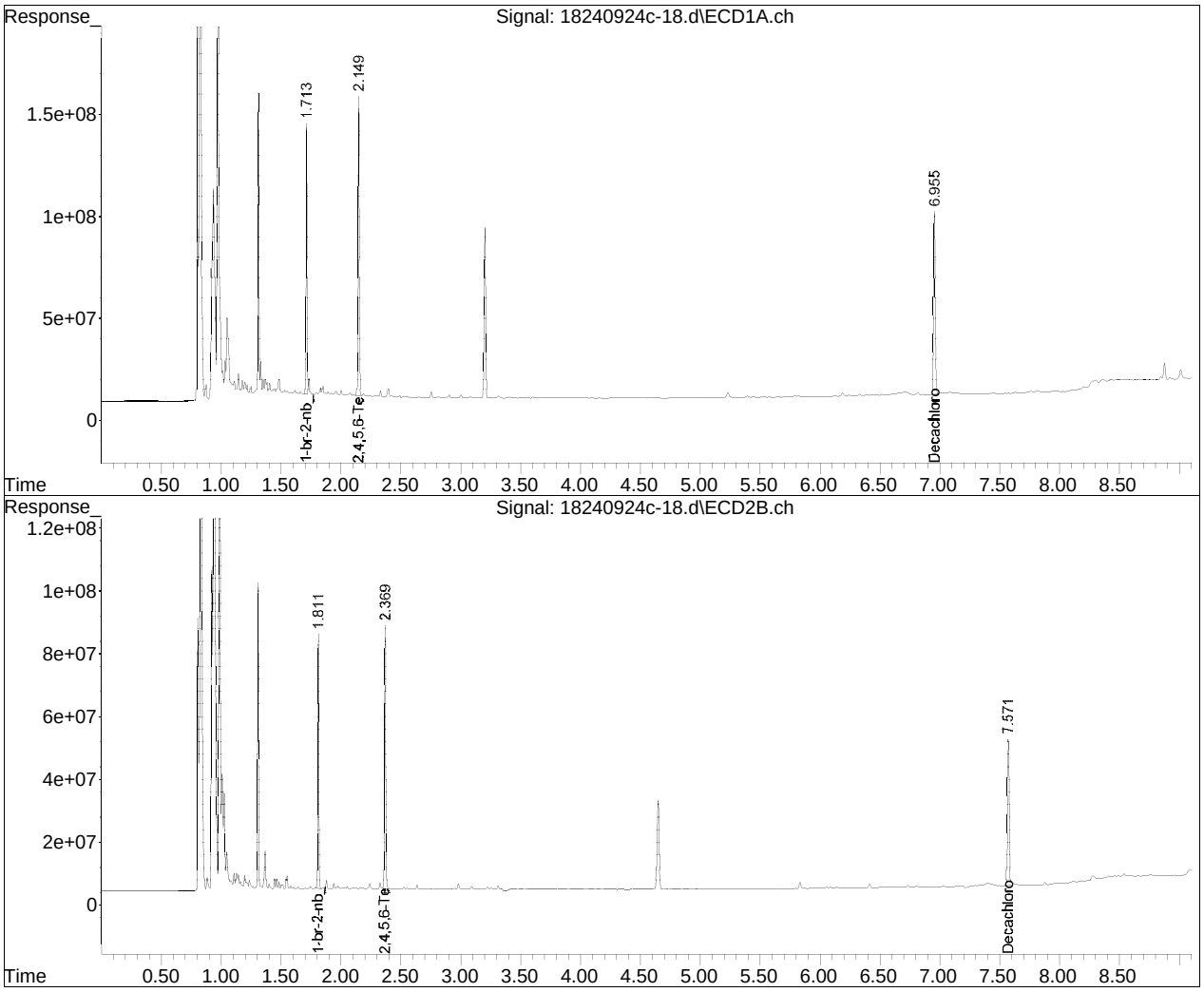
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:16
Operator : PEST18:akm
Sample : L2453342-07,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:26 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

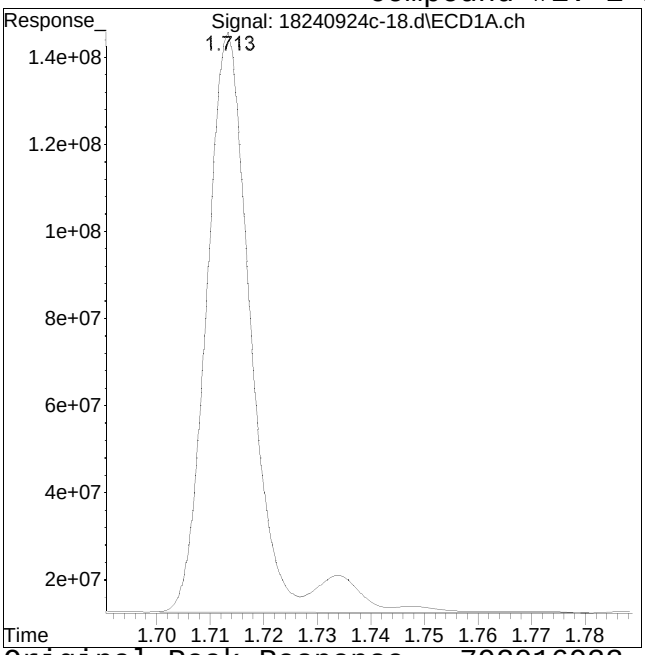
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

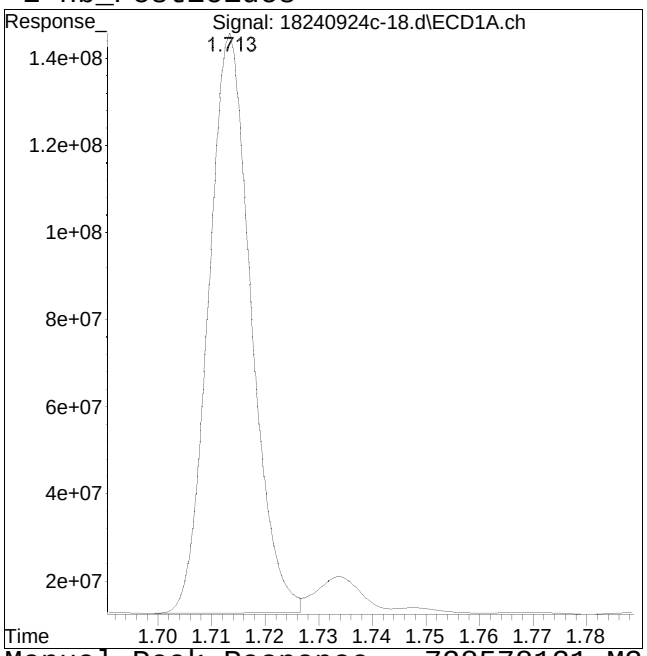


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



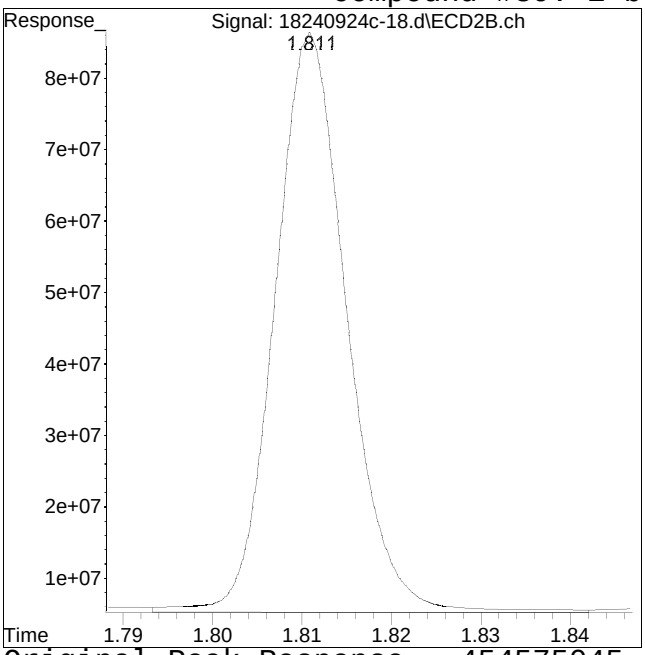


Original Peak Response = 792016933 Manual Peak Response = 728578121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

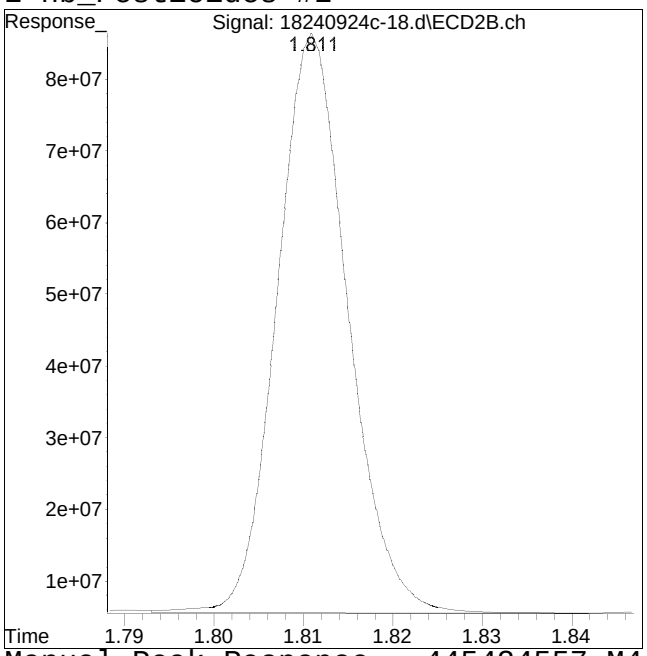
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 454575045



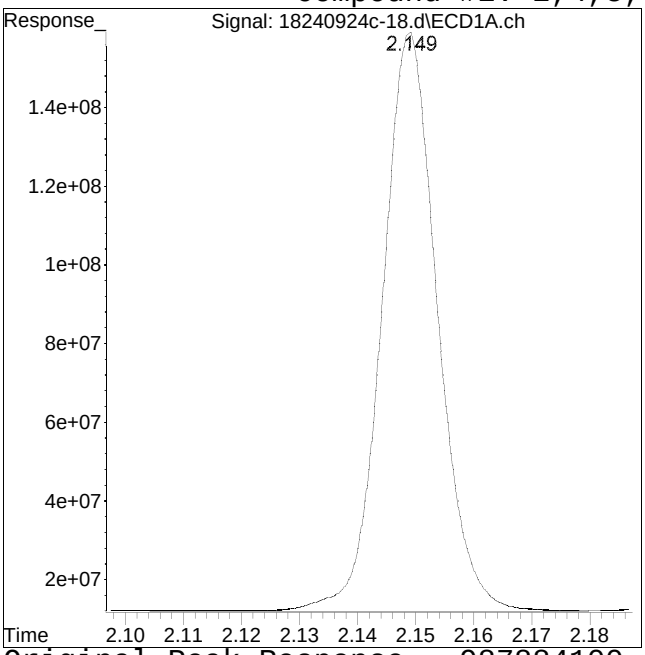
Manual Peak Response = 445424557 M4

M4 = Poor automated baseline construction.

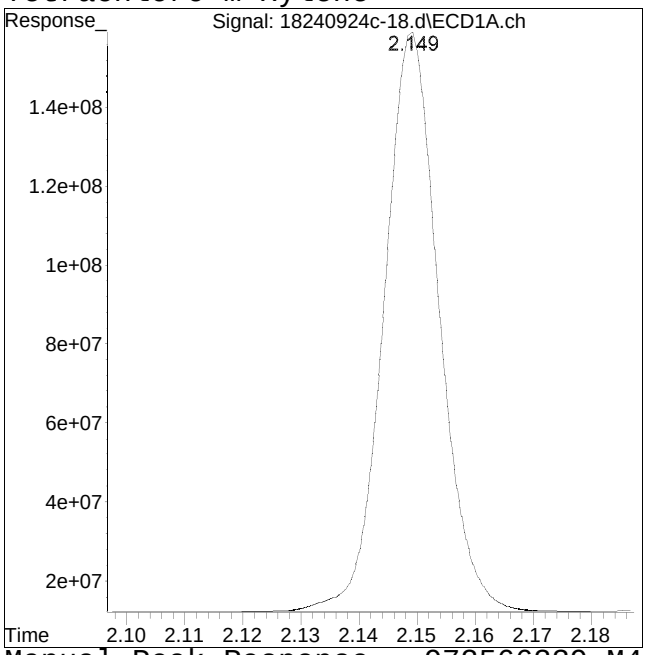
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 987884100



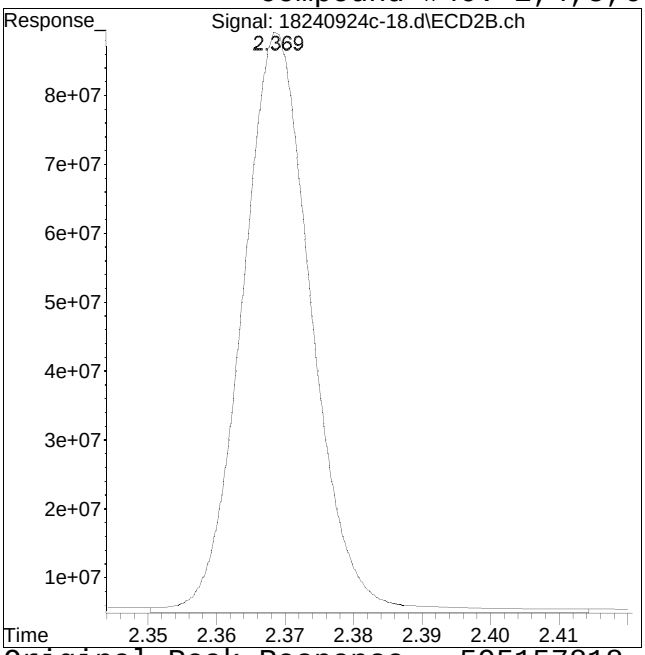
Manual Peak Response = 972566339 M4

M4 = Poor automated baseline construction.

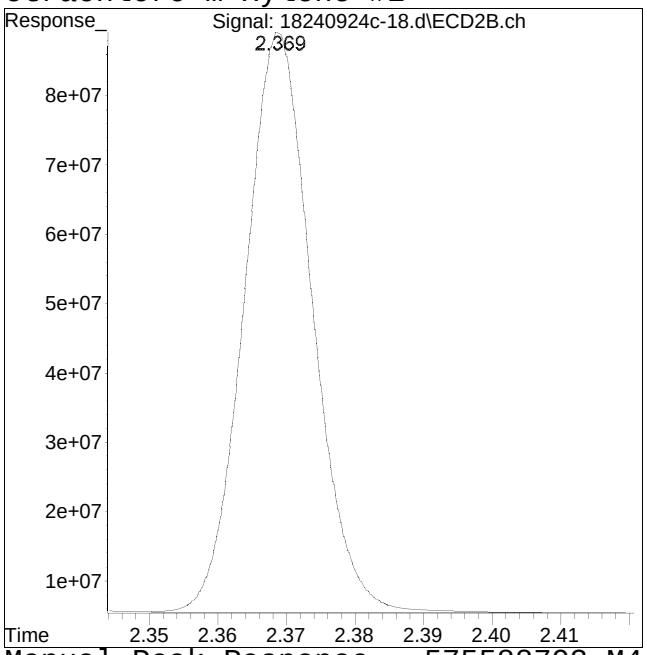
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 595157818



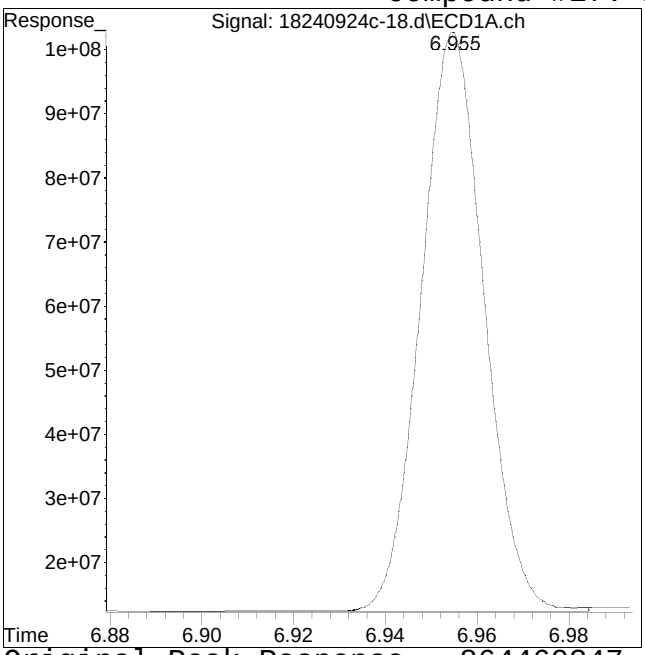
Manual Peak Response = 575588793 M4

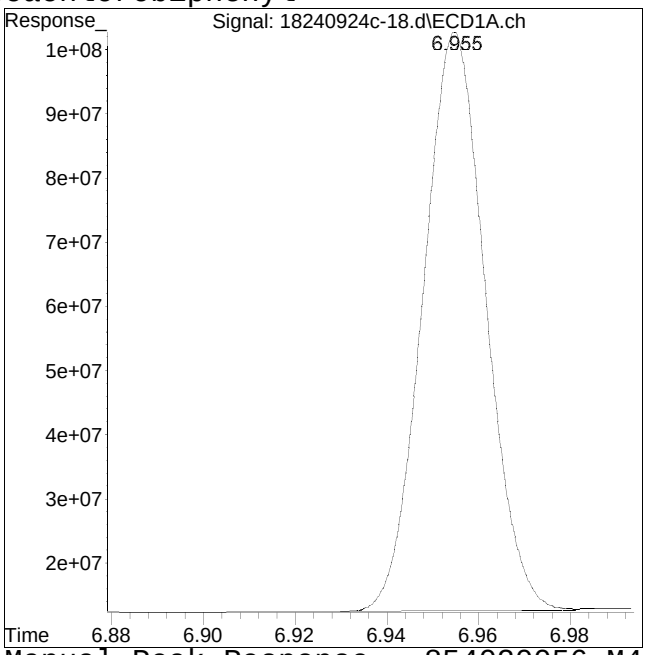
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



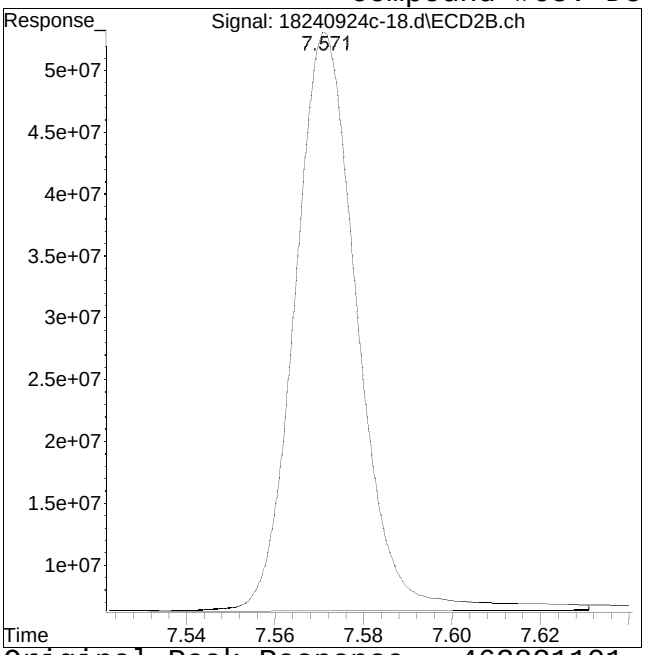


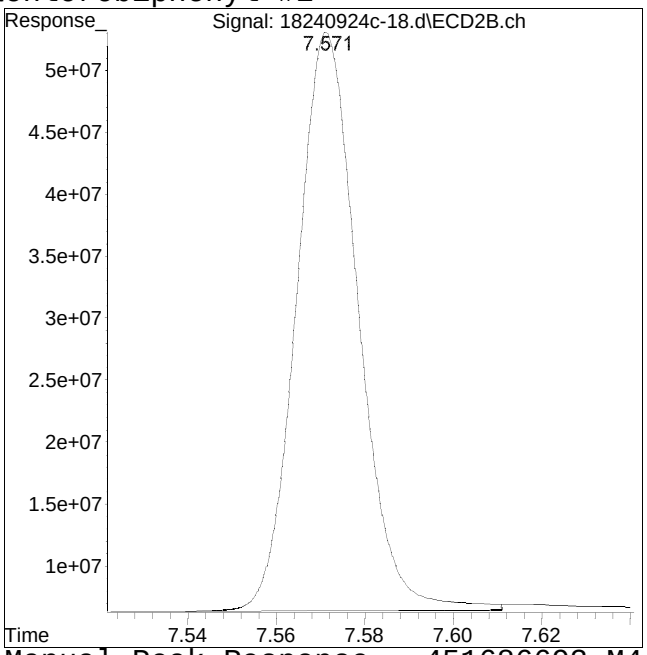
Original Peak Response = 864460347 Manual Peak Response = 854020056 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



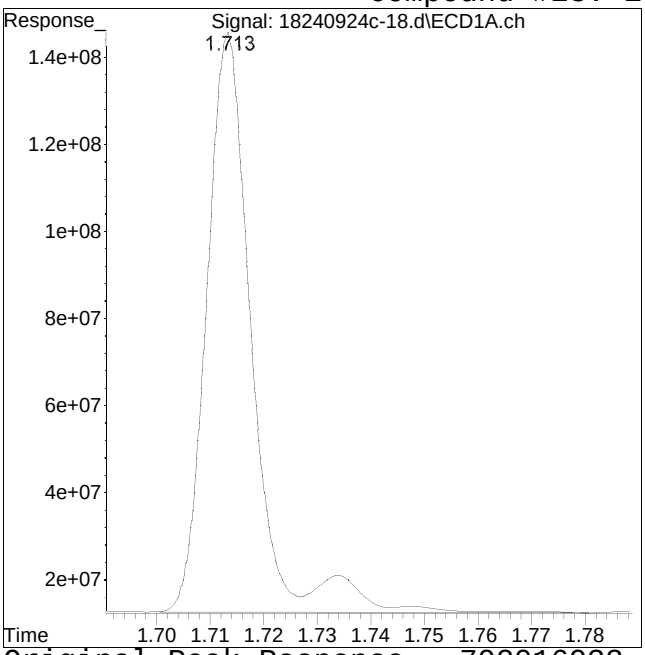


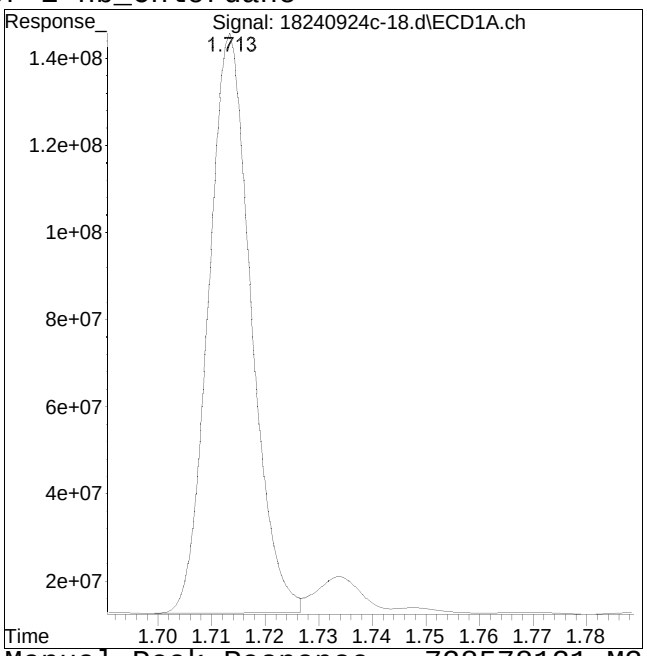
Original Peak Response = 463821101 Manual Peak Response = 451686693 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



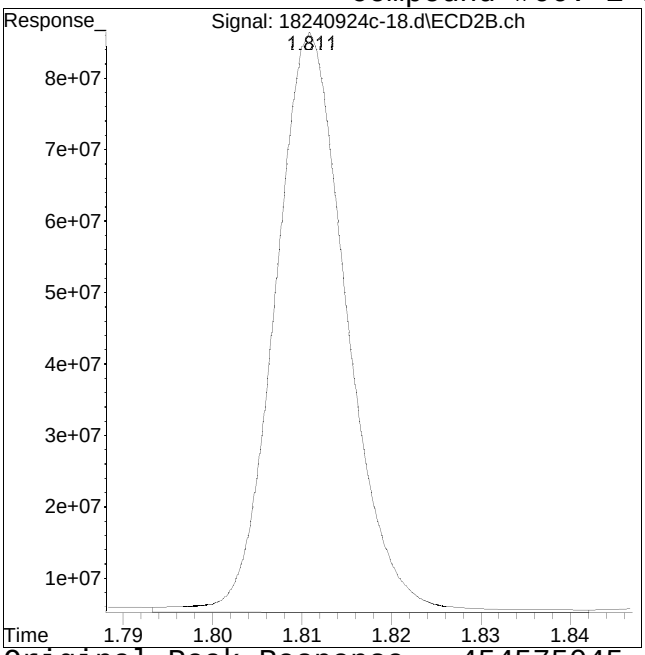


Original Peak Response = 792016933 Manual Peak Response = 728578121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

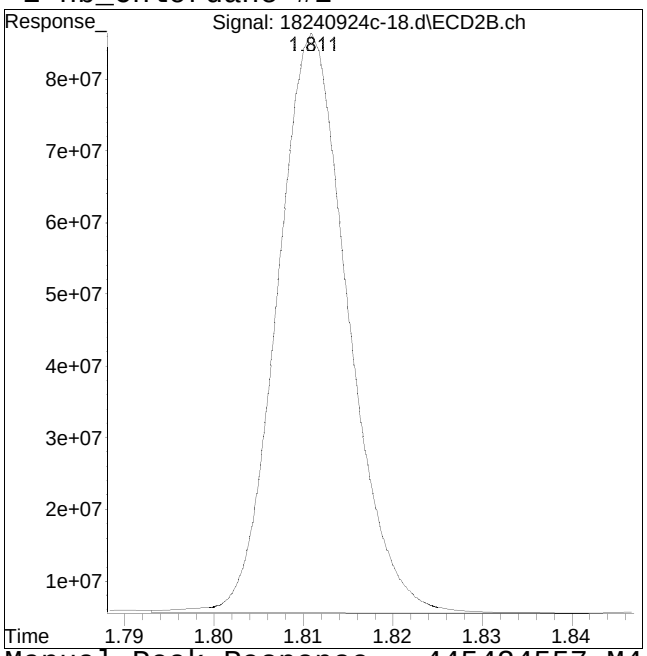
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 454575045



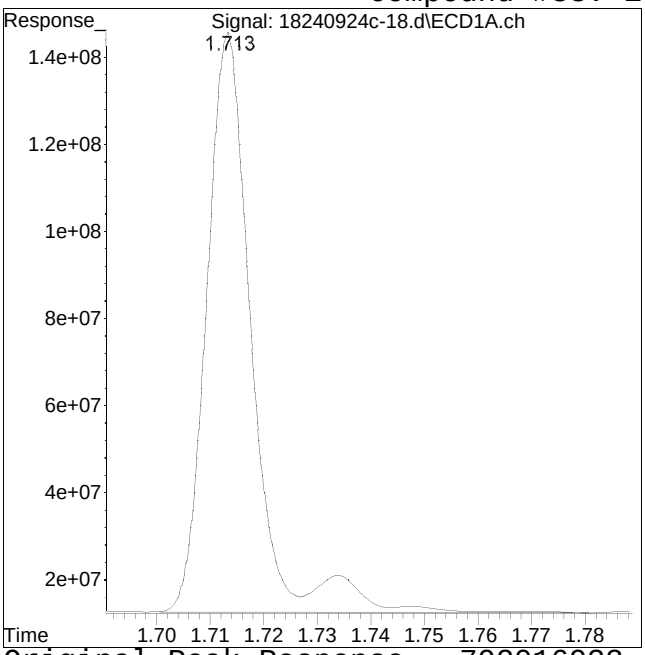
Manual Peak Response = 445424557 M4

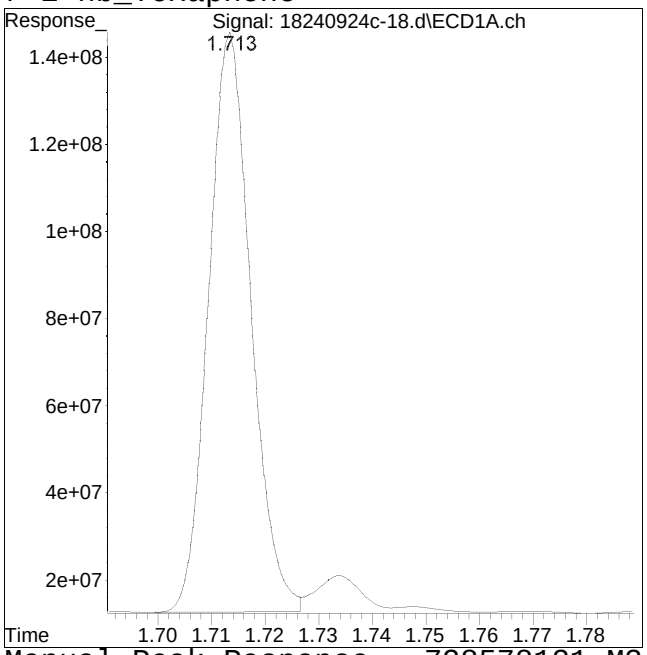
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



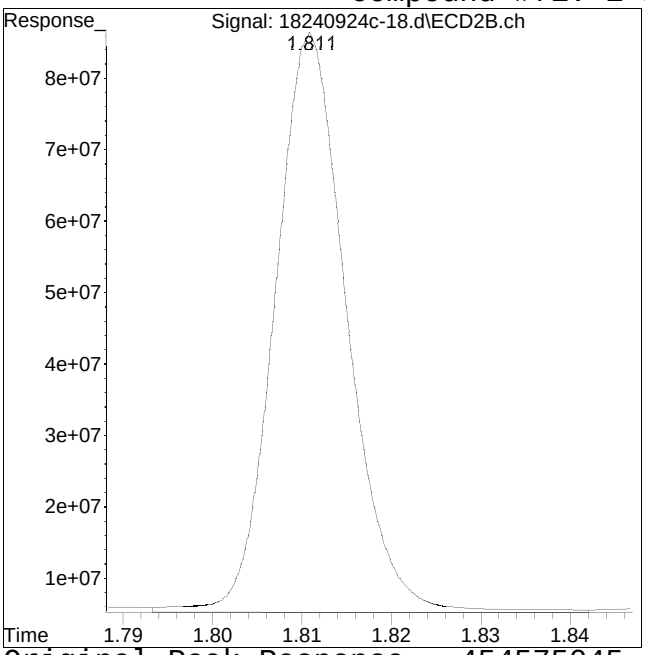


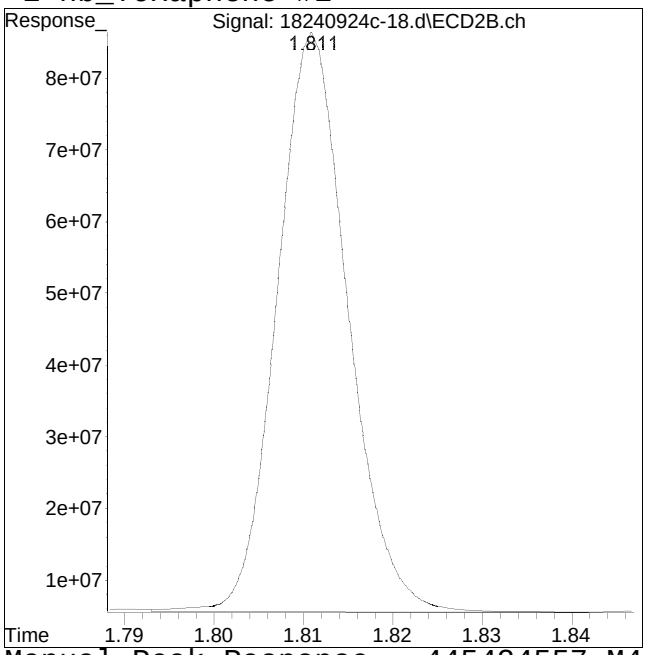
Original Peak Response = 792016933 Manual Peak Response = 728578121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-18.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:16 Instrument : Pest 18
Sample : L2453342-07,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 454575045 Manual Peak Response = 445424557 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:27
Operator : PEST18:akm
Sample : L2453342-08,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:28 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.714	1.811	760.8E6	477.7E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 658653120				Recovery = 115.51%		
	Standard Area 1 : #2 = 368373311				Recovery = 129.68%		
28) i	1-br-2-nb_Ch	1.714	1.811	760.8E6	477.7E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.714	1.811	760.8E6	477.7E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.150	2.368	1016.4E6	613.6E6	27.385M4	27.233M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 54.77%		54.47%
27) s	Decachlorobi	6.955	7.570	950.1E6	504.1E6	26.027M4	27.686M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 52.05%		55.37%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:27
Operator : PEST18:akm
Sample : L2453342-08,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:28 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

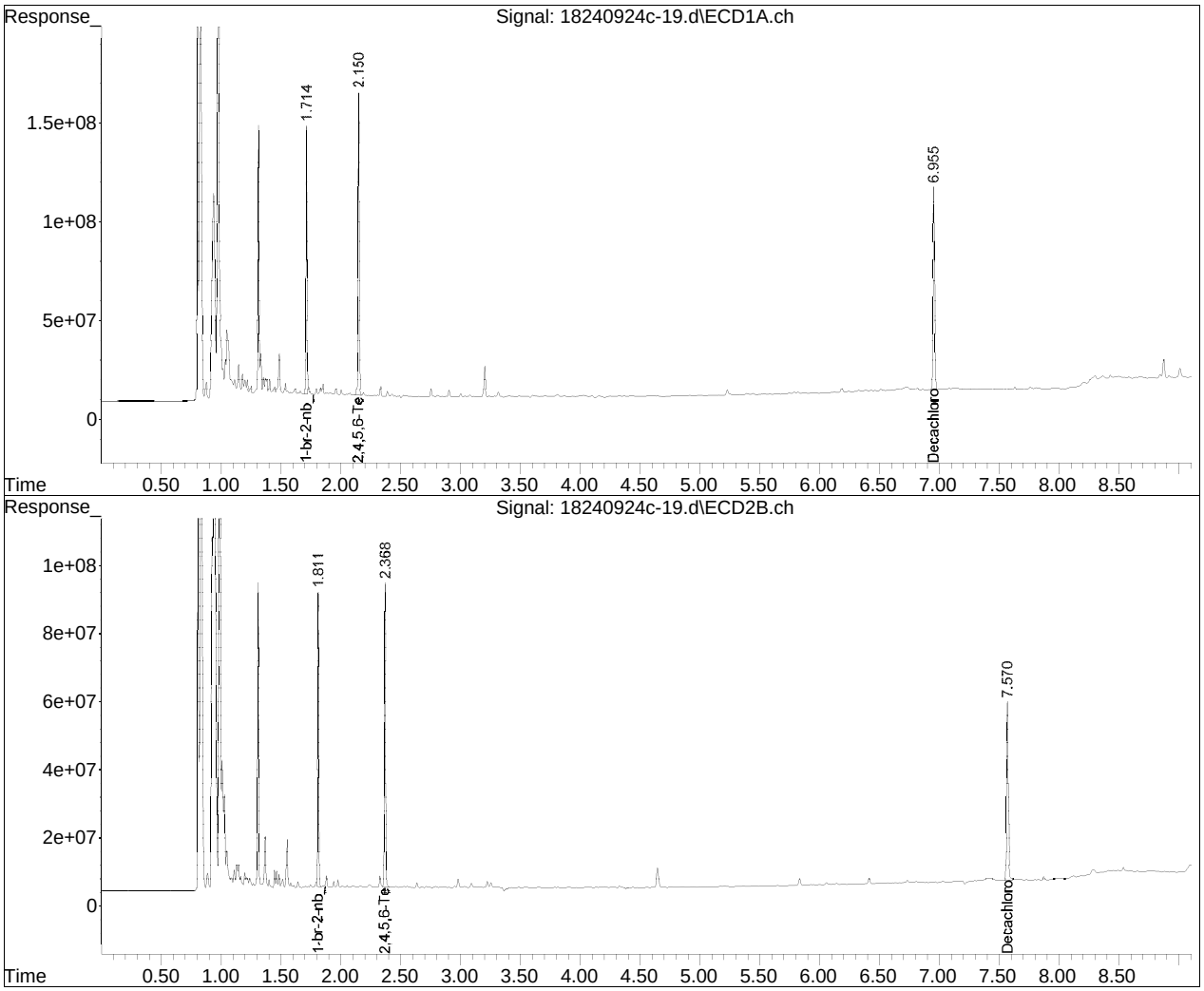
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:27
Operator : PEST18:akm
Sample : L2453342-08,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:28 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

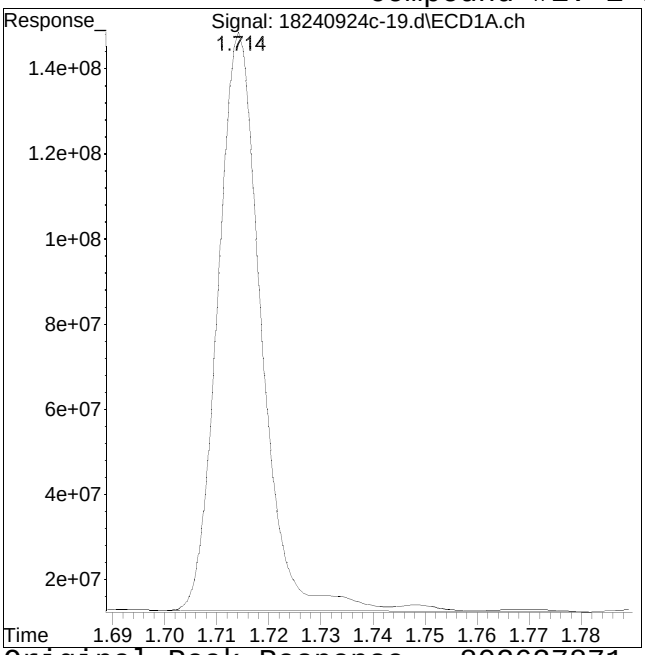
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

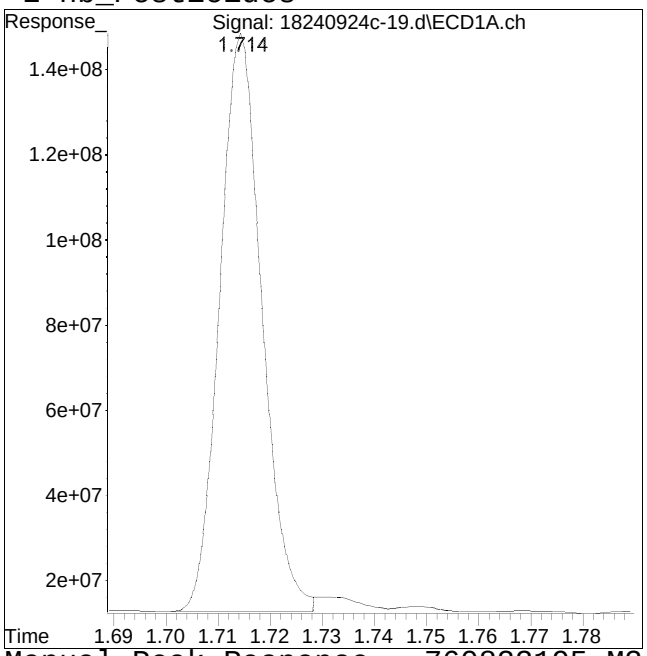


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



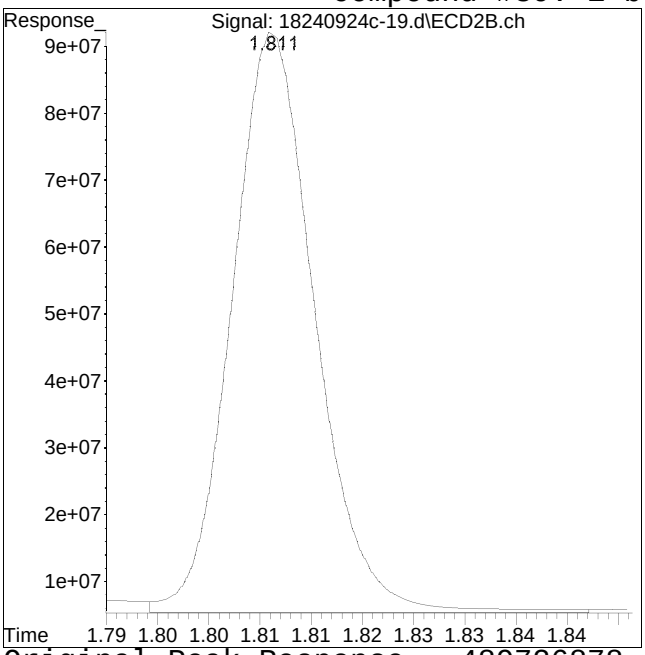


Original Peak Response = 802637871 Manual Peak Response = 760823195 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

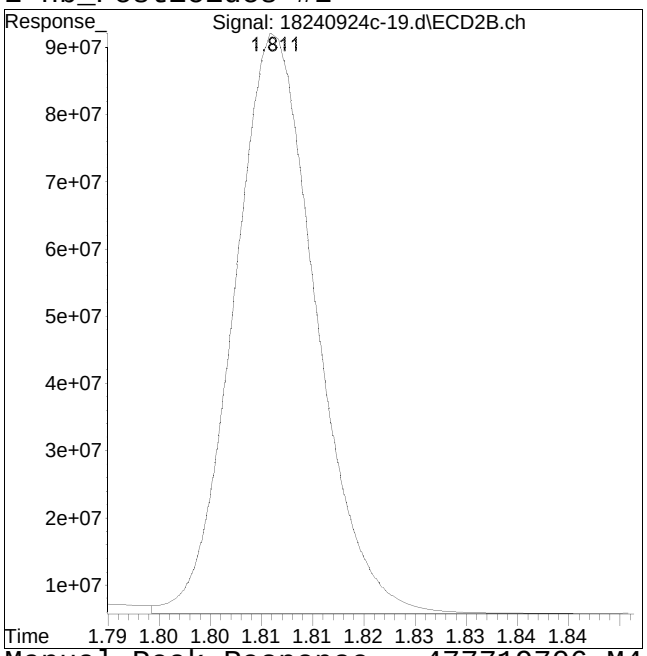
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 489726878



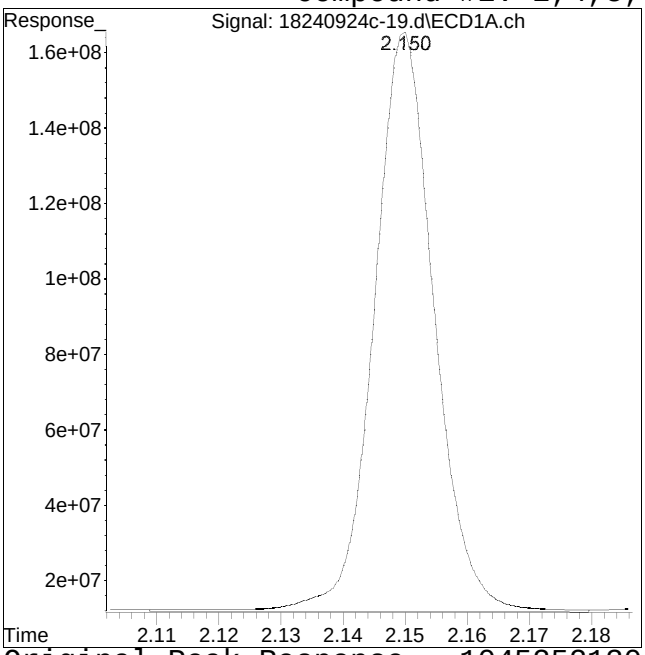
Manual Peak Response = 477719706 M4

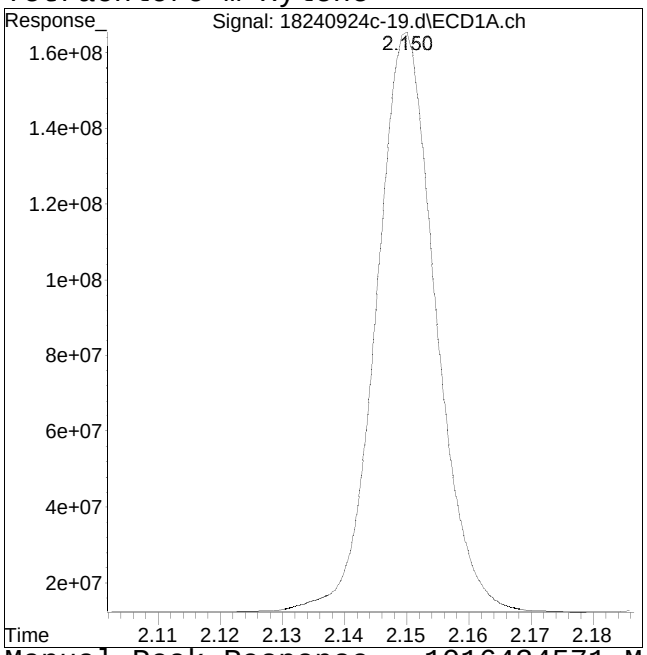
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



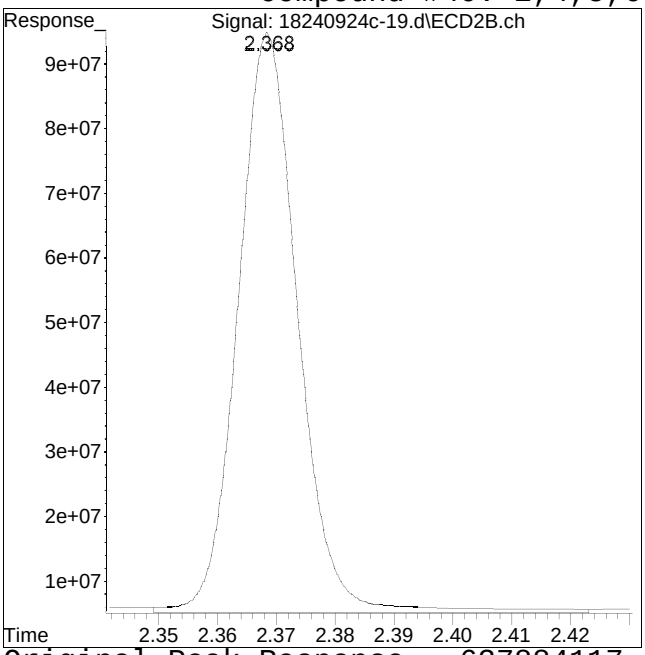


Original Peak Response = 1045252130 Manual Peak Response = 1016434571 M4
M4 = Poor automated baseline construction.

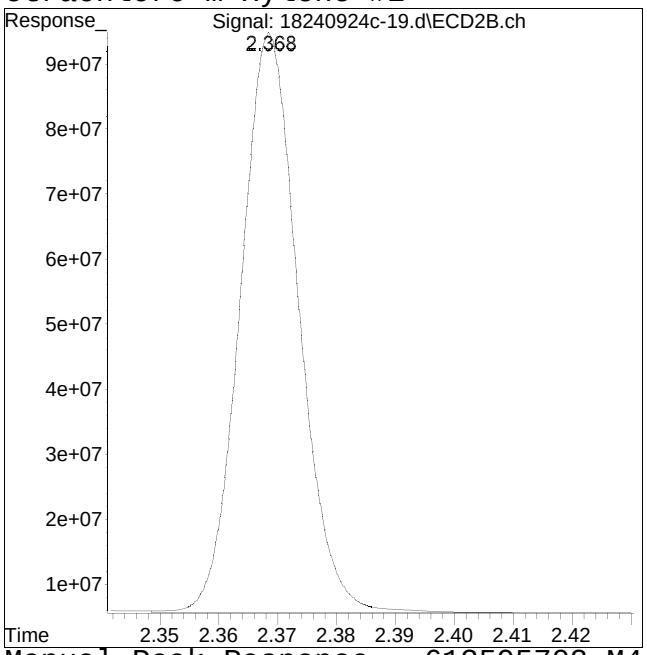
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 637884117



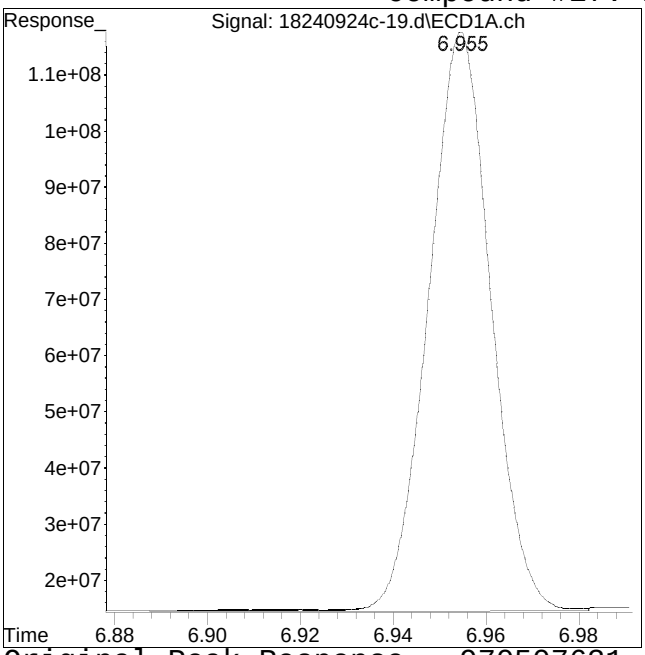
Manual Peak Response = 613595702 M4

M4 = Poor automated baseline construction.

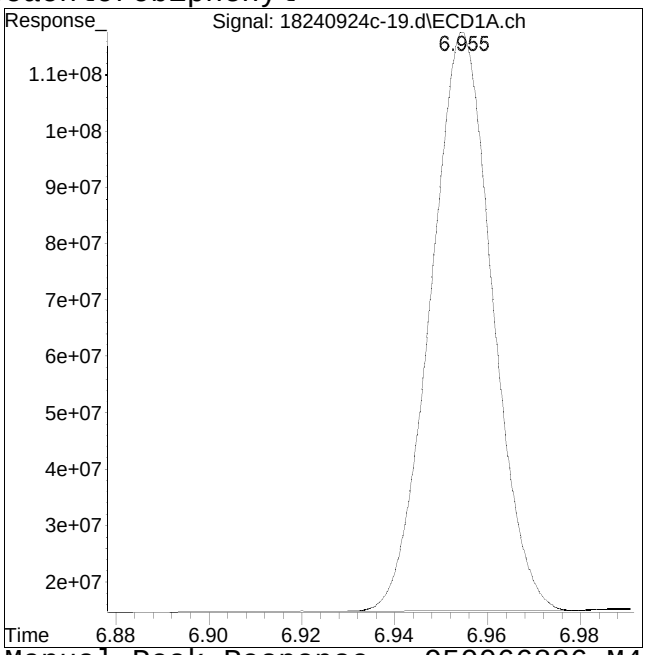
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 970507631



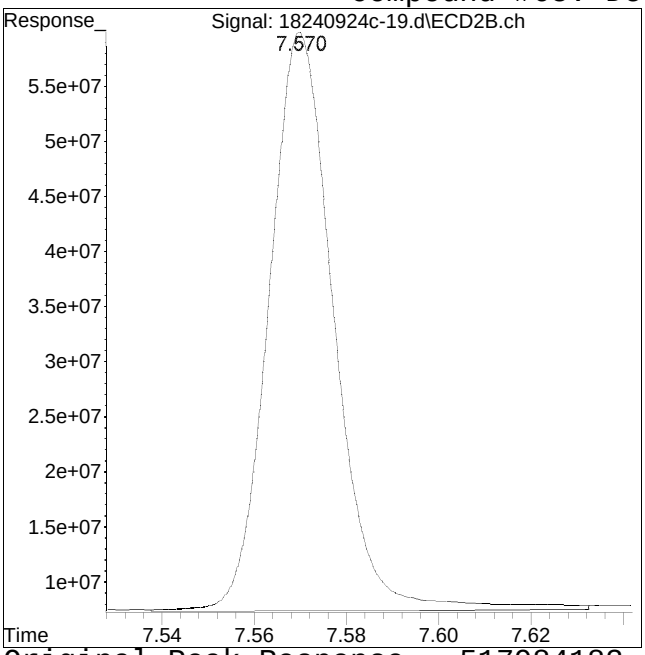
Manual Peak Response = 950066886 M4

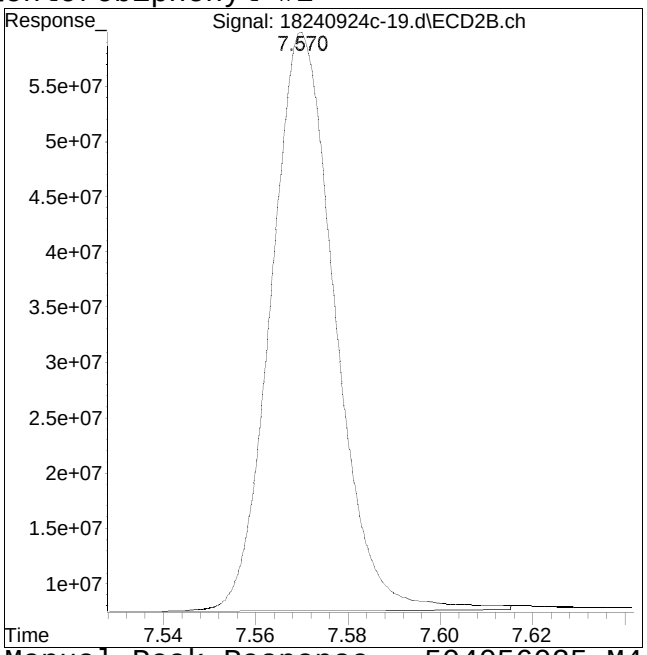
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #65: Decachlorobiphenyl #2



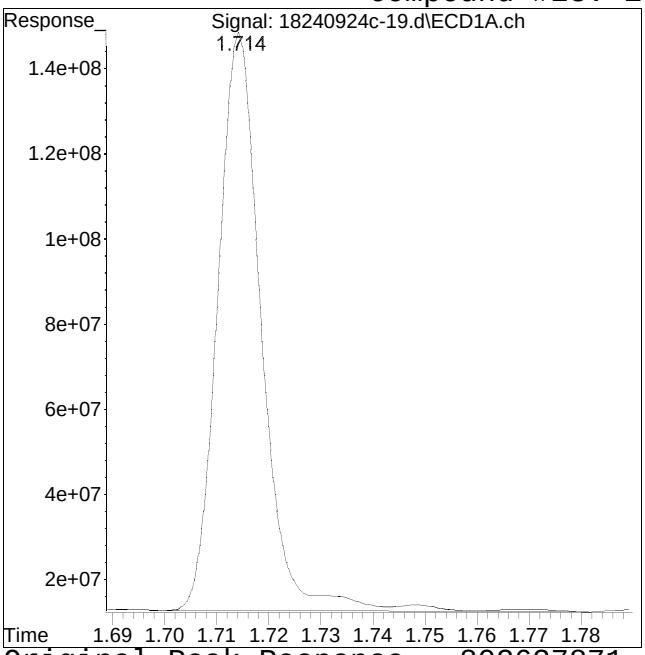


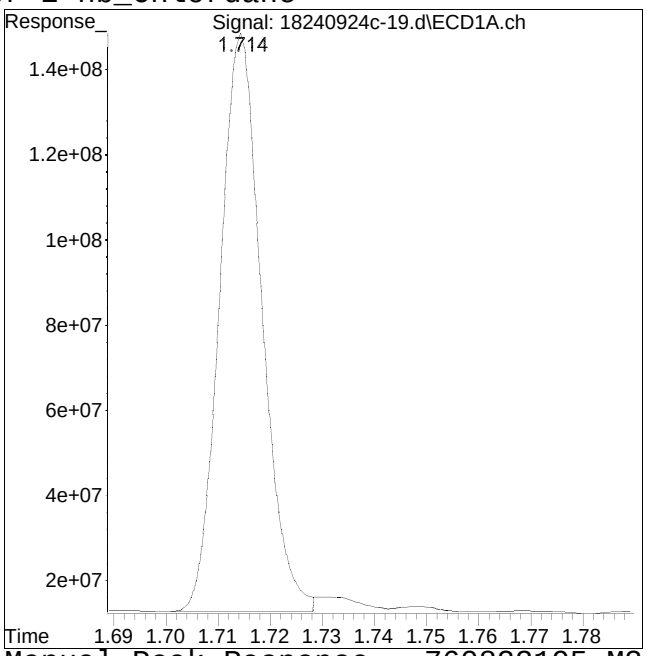
Original Peak Response = 517984183 Manual Peak Response = 504056025 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



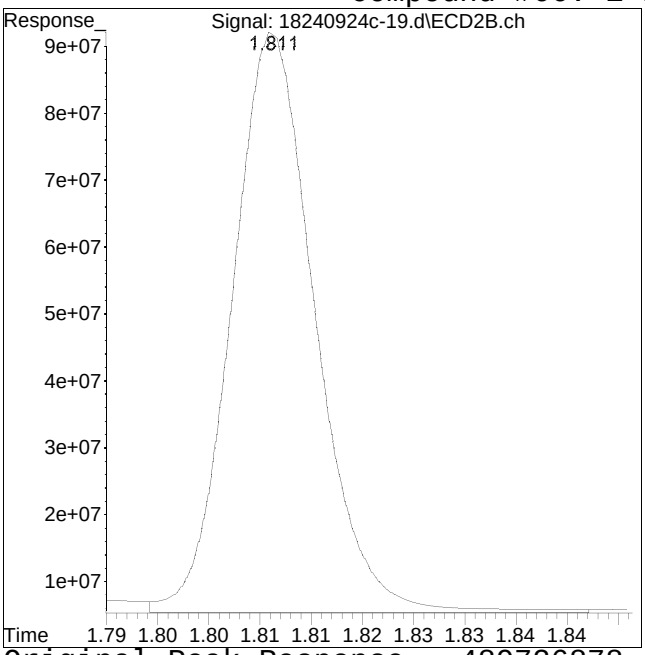


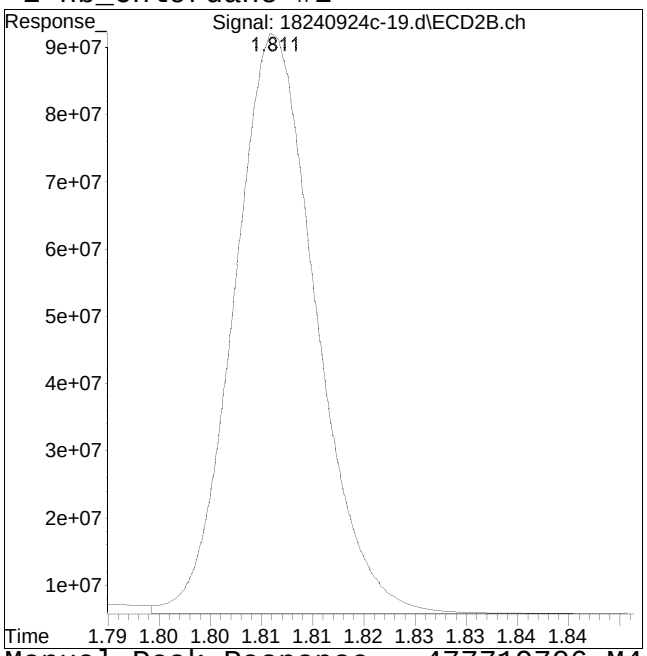
Original Peak Response = 802637871 Manual Peak Response = 760823195 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



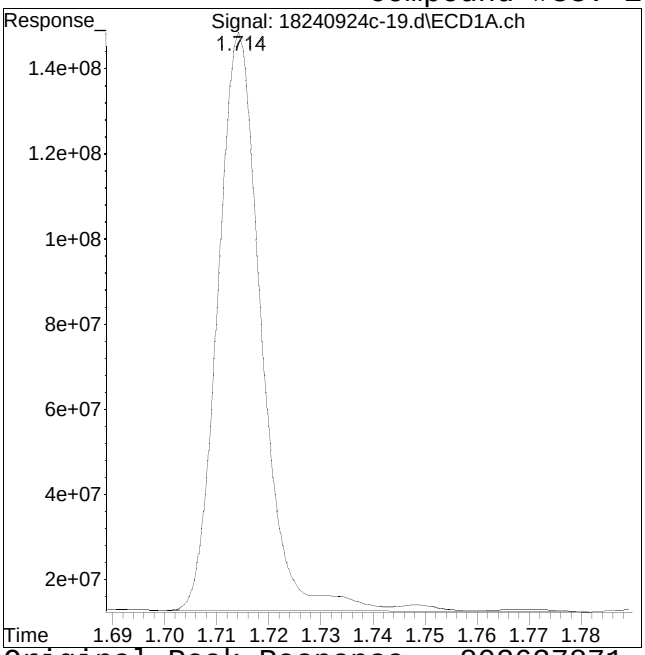


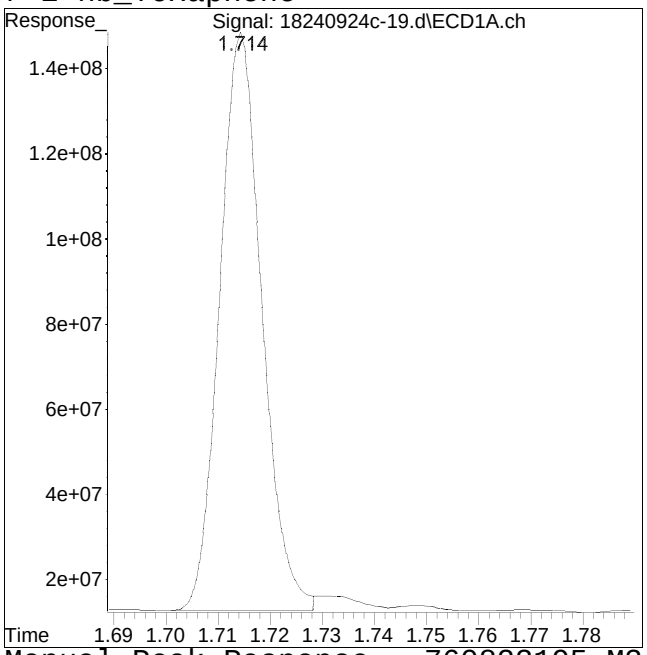
Original Peak Response = 489726878 Manual Peak Response = 477719706 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



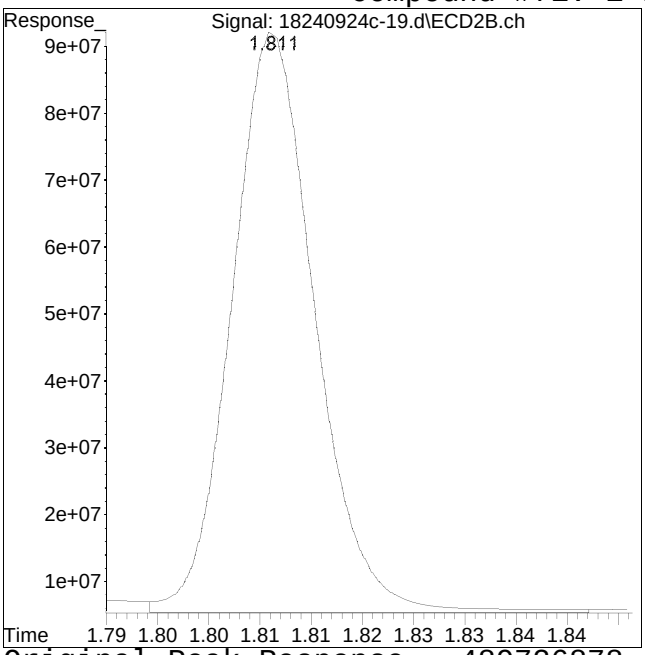


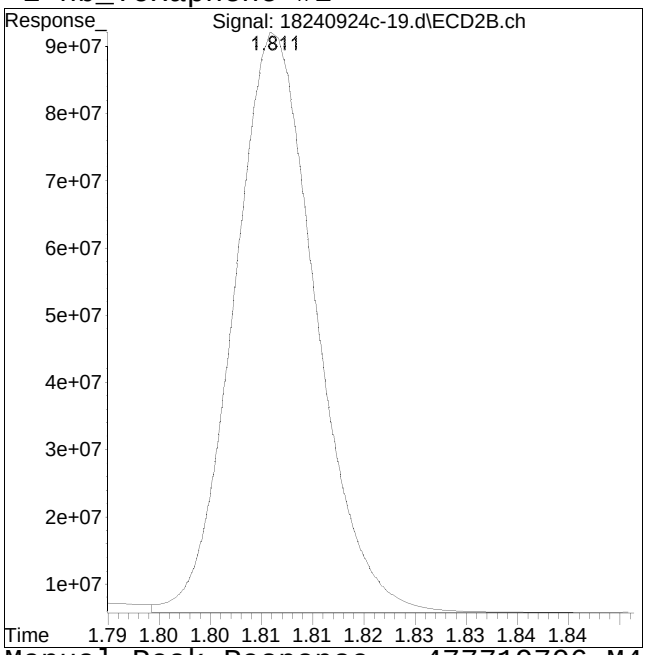
Original Peak Response = 802637871 Manual Peak Response = 760823195 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-19.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:27 Instrument : Pest 18
Sample : L2453342-08,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 489726878 Manual Peak Response = 477719706 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:38
Operator : PEST18:akm
Sample : L2453342-10,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:30 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.713	1.811	744.4E6	464.4E6	25.000M4	25.000M4
		Standard Area 1 : #1 = 658653120				Recovery = 113.02%		
		Standard Area 1 : #2 = 368373311				Recovery = 126.08%		
28)	i	1-br-2-nb_Ch	1.713	1.811	744.4E6	464.4E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	1.713	1.811	744.4E6	464.4E6	25.000M4	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.149	2.368	988.7E6	588.5E6	27.225M4	26.864M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 54.45%		53.73%
27)	s	Decachlorobi	6.955	7.574	812.3E6	434.7E6	22.647	24.560
		Spiked Amount 50.000	Range 30 - 150			Recovery = 45.29%		49.12%
		Target Compounds						
4)		alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)		beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)		Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)		gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)		alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:38
Operator : PEST18:akm
Sample : L2453342-10,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:30 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240924C\18240924c-06.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

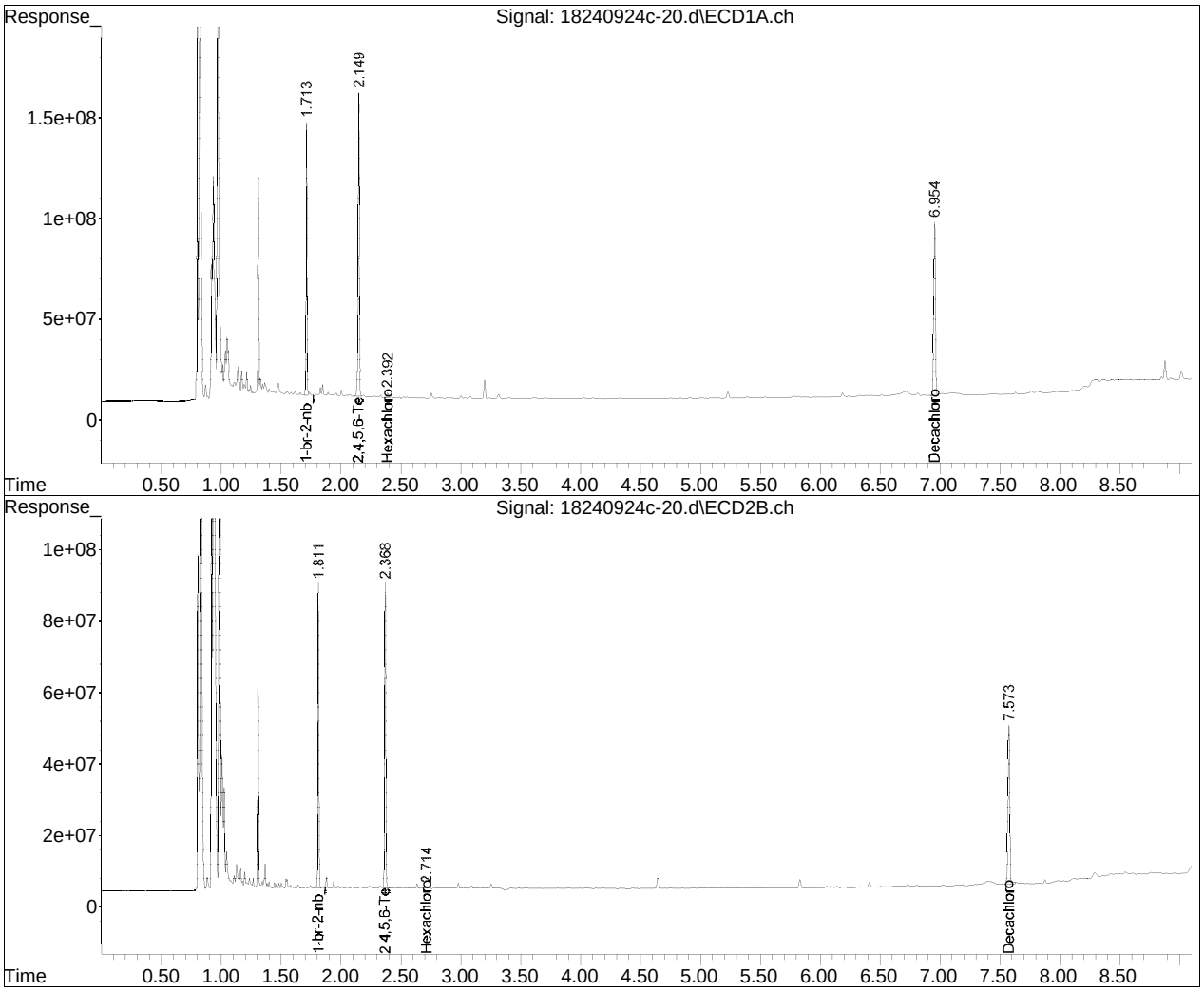
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240924c-06.d•

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 13:38
Operator : PEST18:akm
Sample : L2453342-10,42,,
Misc : wg1975559,WG1974839,ical21398
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 16:42:30 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:42 2024
Response via : Initial Calibration
Integrator: ChemStation

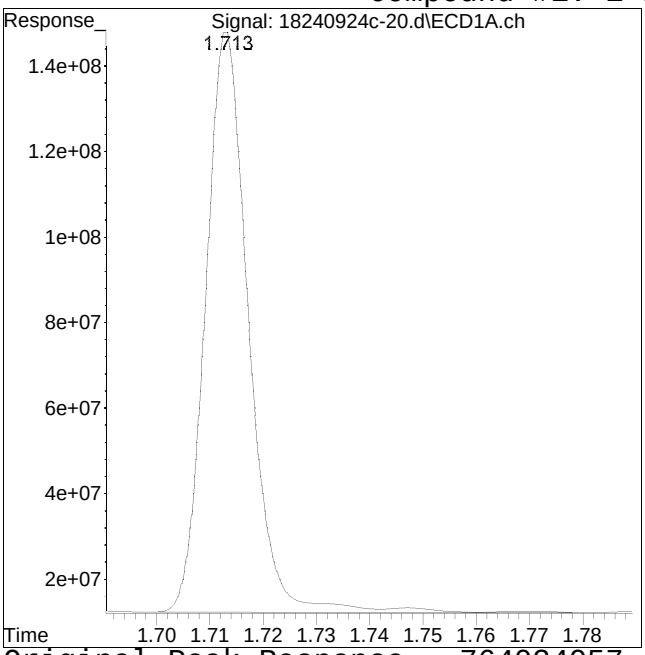
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



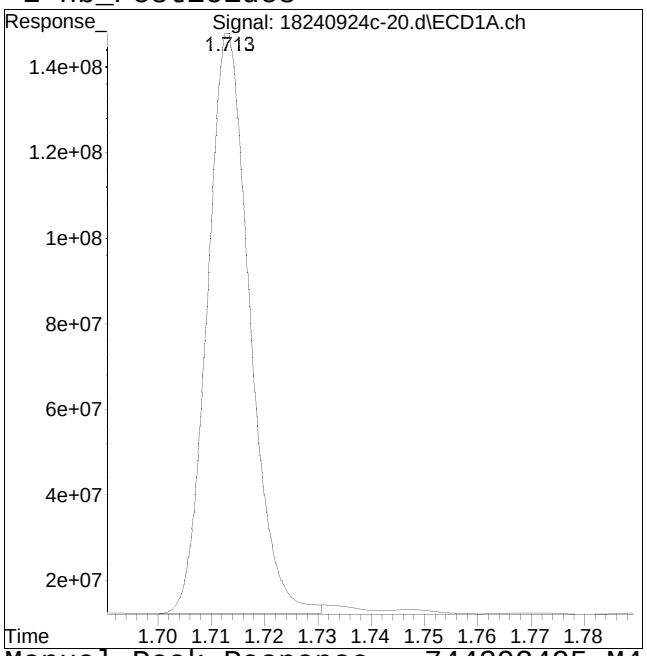
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 764034957



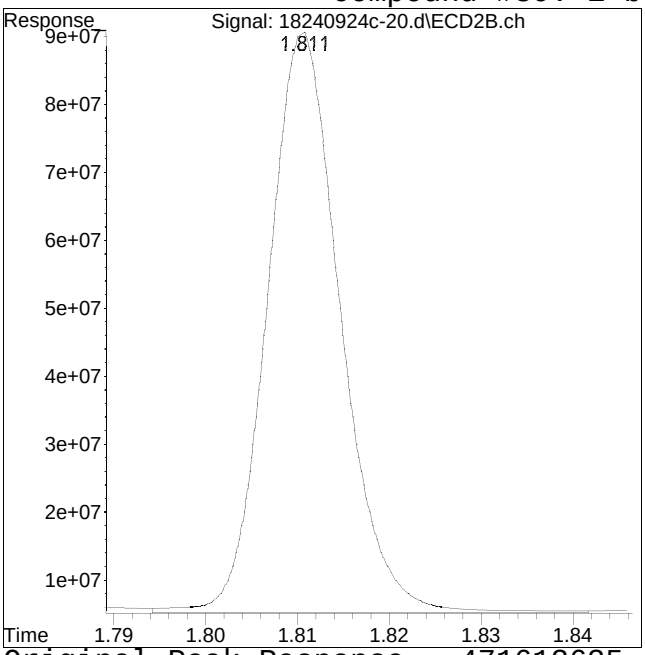
Manual Peak Response = 744392495 M4

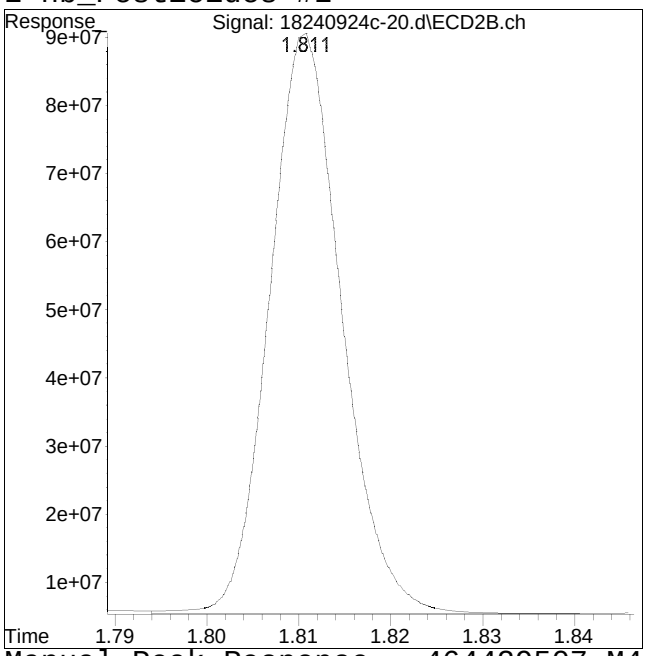
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



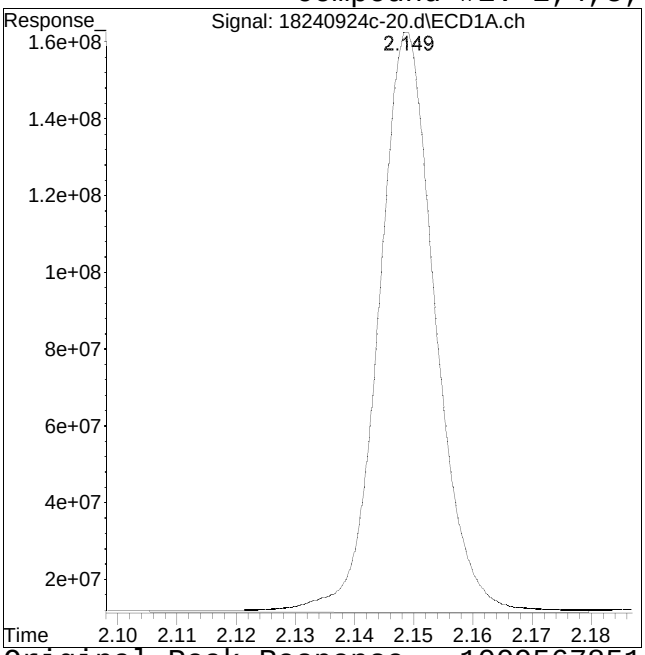


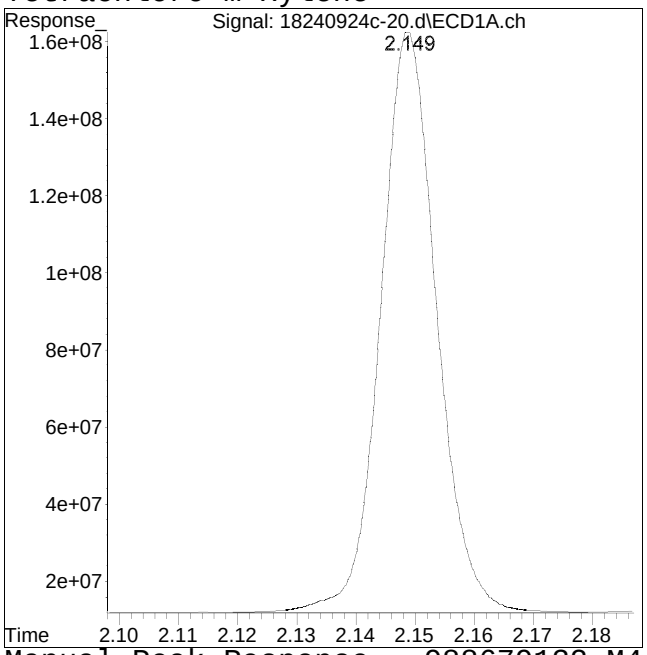
Original Peak Response = 471612635 Manual Peak Response = 464429507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



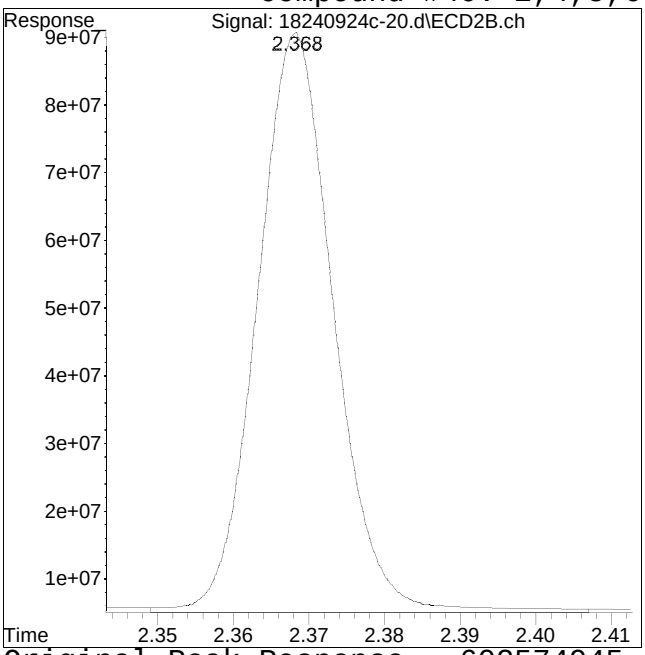


Original Peak Response = 1009567851 Manual Peak Response = 988679132 M4
M4 = Poor automated baseline construction.

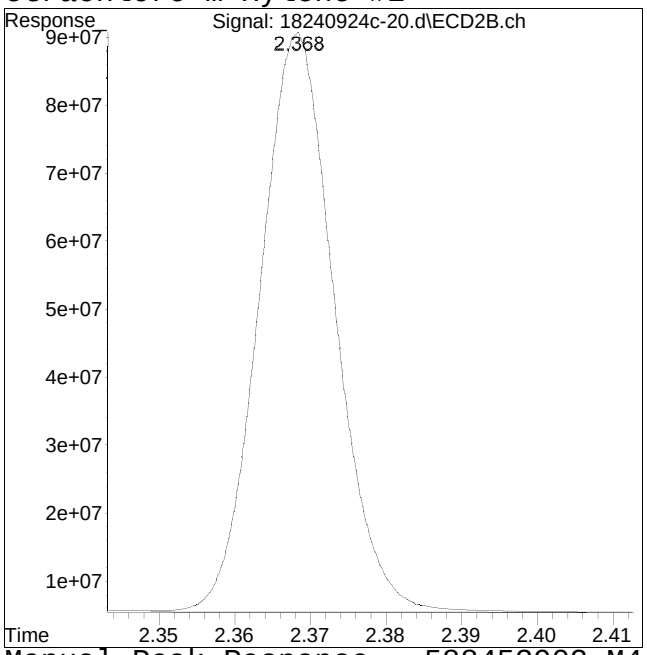
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 602574945



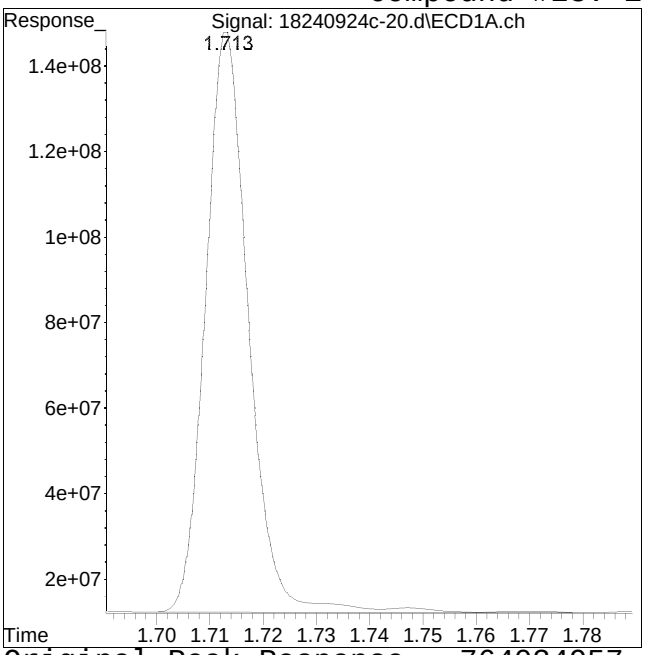
Manual Peak Response = 588453902 M4

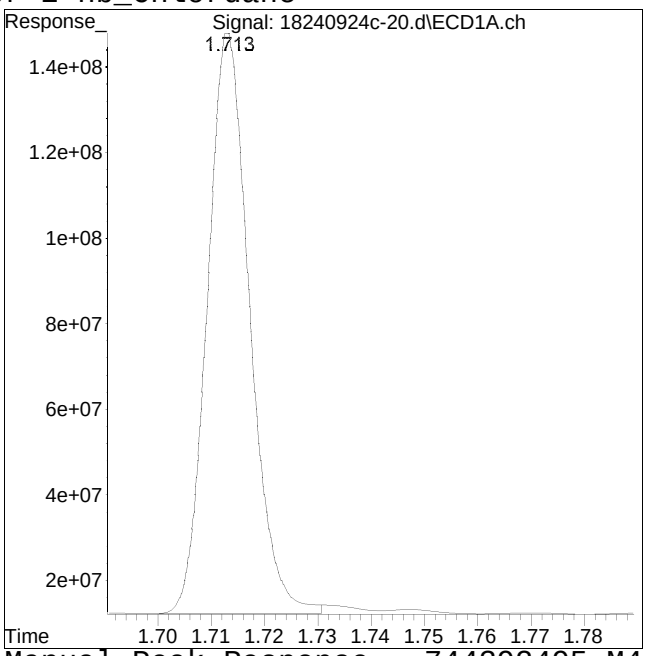
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #28: 1-br-2-nb_Chlordane



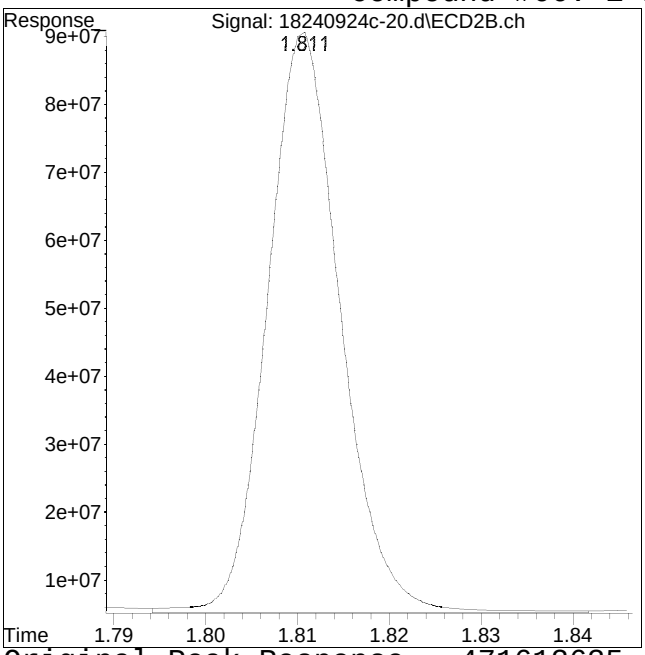


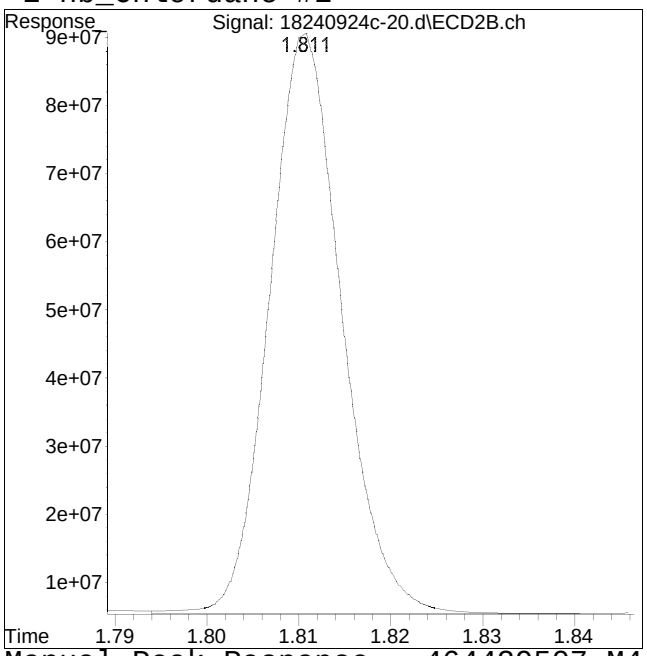
Original Peak Response = 764034957 Manual Peak Response = 744392495 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #66: 1-br-2-nb_Chlordane #2



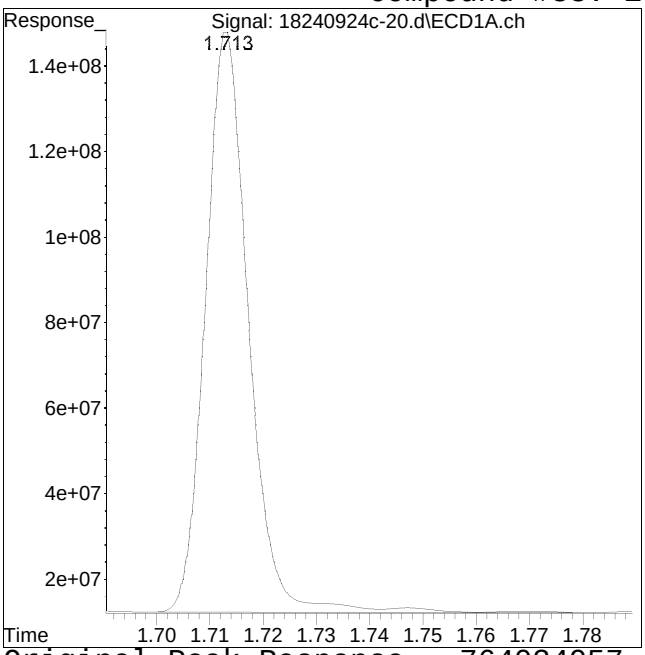


Original Peak Response = 471612635 Manual Peak Response = 464429507 M4
M4 = Poor automated baseline construction.

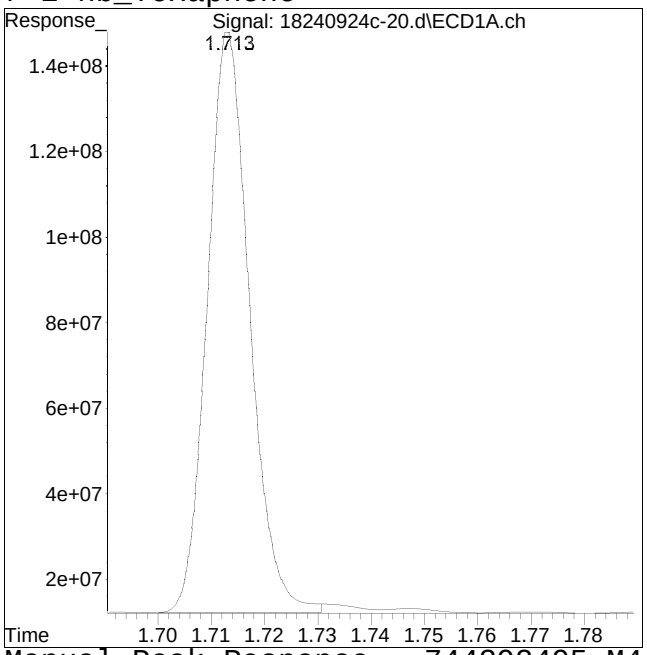
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 764034957



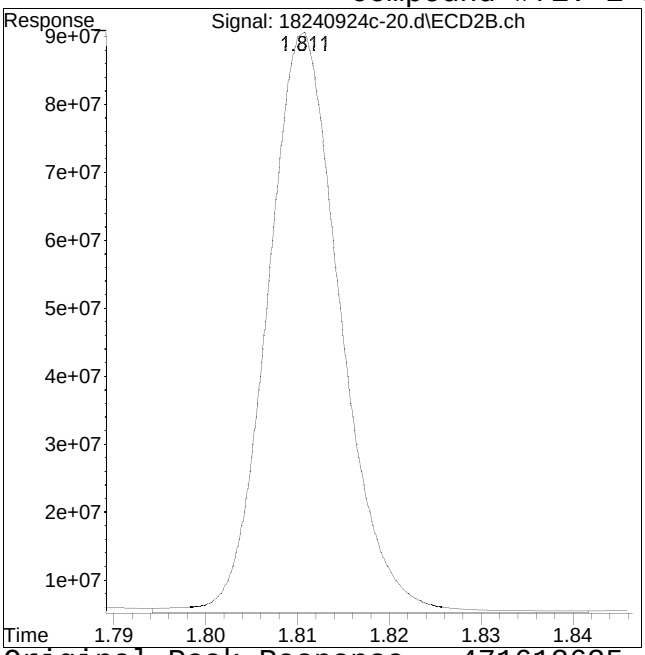
Manual Peak Response = 744392495 M4

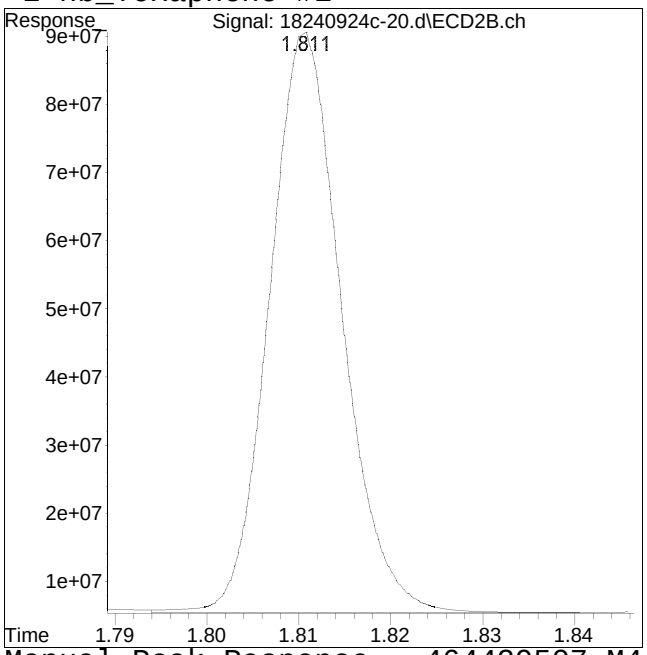
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-20.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 13:38 Instrument : Pest 18
Sample : L2453342-10,42,, Quant Date : 9/24/2024 4:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 471612635 Manual Peak Response = 464429507 M4
M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachlorobenzene		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Epoxide		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlordane (trans)		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlordane (cis)		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Sulfate		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobiphenyl		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3)														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4)														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6)														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.999
8)													
35) l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.999
5)													
36) l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.999
2)													
37) l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.999
9)													

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.999
6)															
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65
10)	t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996	
7)															
11)	t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998	
3)															
12)	t	Heptachlor Ep		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44	
13)	t	gamma-Chlorda		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85	
14)	t	alpha-Chlorda		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54	
15)	t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82	
16)	t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59	
17)	t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11	
18)	t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25	
19)	t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57	
20)	t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39	
21)	t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26	
22)	t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999	
3)															
23)	t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13	
24)	t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999	
3)															
25)	t	Endosulfan Su		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68	
26)	t	Endrin Ketone		1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136	1.261	6.75	
27)	s	Decachlorobip		1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929	1.060	12.61	
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.054	0.052	0.044	0.039	0.040	0.040	0.035		*L	0.996	
3)															
30)	l1	chlordane-3			0.070	0.064	0.055	0.047	0.046	0.044	0.037		*L	0.991	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
31)	l1	chlordane-4			0.208	0.191	0.166	0.163	0.167	0.169	0.147		*L	0.995
9)														
32)	l1	chlordane-5			0.162	0.149	0.130	0.126	0.128	0.129	0.113		*L	0.996
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.028	0.028		0.023	0.023	0.024			*L	0.999
7)														
35)	l2	toxaphene-3			0.042	0.040		0.035	0.035	0.035			*L	0.999
8)														
36)	l2	toxaphene-4			0.049	0.047		0.041	0.041	0.042			*L	0.999
7)														
37)	l2	toxaphene-5			0.050	0.045		0.038	0.038	0.039			*L	0.999
7)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL21398**
Calibration dates	**: 08/15/24 14:05 08/15/24 18:28**		

Calibration Files

1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene						1.311	1.321	1.272	1.347	1.276	1.220	8.72
3)		Hexachlorobenzene						1.616	1.609	1.580	1.483	1.423	1.431	10.23
4)		alpha-BHC						1.553	1.581	1.570	1.491	1.505	1.531	2.66
5)		gamma-BHC (li					1.600	1.434	1.446	1.435	1.360	1.373	1.404	5.82
6)		beta-BHC						0.744	0.738	0.635	0.674	0.645	0.638	10.78
7)		delta-BHC						1.459	1.475	1.433	1.369	1.379	1.404	3.27
8)		Heptachlor						1.459	1.465	1.425	1.344	1.324	1.315	9.24
9)		Aldrin						1.347	1.386	1.355	1.280	1.268	1.284	5.28
10)		Alachlor					0.219	0.222	0.222	0.197	0.199	0.181	0.194	14.60
11)		Chlorpyrifos								0.660	0.622	0.562	0.521	0.465	0.455	*L	0.996
0)																	
12)		Heptachlor Ep						1.231	1.303	1.292	1.202	1.136	1.133	1.091	1.021	1.036	1.161	8.91
13)		gamma-Chlorda						1.276	1.255	1.236	1.139	1.094	1.087	1.063	1.014	1.096	1.140	8.18
14)		alpha-Chlorda						1.367	1.397	1.391	1.295	1.234	1.225	1.194	1.127	1.225	1.273	7.47
15)		4,4'-DDE						1.245	1.368	1.334	1.290	1.217	1.261	1.236	1.173	1.288	1.268	4.71
16)		Endosulfan I						1.226	1.265	1.270	1.186	1.120	1.108	1.068	0.992	1.005	1.138	9.25
17)		Dieldrin				1.305	1.318	1.303	1.217	1.174	1.186	1.154	1.085	1.138	1.209	6.88	
18)		Endrin				1.288	1.324	1.315	1.245	1.184	1.190	1.152	1.077	1.108	1.209	7.39	
19)		4,4'-DDD				1.022	1.056	1.053	0.982	0.943	0.970	0.942	0.896	0.974	0.982	5.43	
20)		Endosulfan II				1.187	1.223	1.221	1.148	1.077	1.067	1.028	0.948	0.968	1.096	9.50	
21)		4,4'-DDT				1.149	1.224	1.194	1.108	1.042	1.091	1.061	1.002	1.092	1.107	6.44	
22)		Endrin Aldehyde				0.973	1.036	1.024	0.953	0.885	0.896	0.872	0.817	0.851	0.923	8.36	
23)		Methoxychlor						0.750	0.688	0.623	0.591	0.547	0.487		*L	0.994	
5)																	
24)		Mirex				1.252	1.197	1.162	1.052	0.944	0.879	0.838	0.780	0.866	*L	0.997	
7)																	
25)		Endosulfan Su				1.160	1.207	1.174	1.108	1.058	1.062	1.034	0.963	1.011	1.087	7.50	
26)		Endrin Ketone				1.355	1.377	1.361	1.273	1.214	1.181	1.130	1.020	1.030	1.216	11.32	
27)	s	Decachlorobip				1.957	1.621	1.569	1.445	1.246	1.194	1.139	1.082	1.218	*L	0.997	
3)																	
28)	i	1-br-2-nb_Chlordane	ISTD														
29)	l1	chlordane-1						0.091	0.087	0.082	0.077	0.066	0.063			0.078	14.38
30)	l1	chlordane-3						0.057	0.058	0.054	0.049	0.042	0.040			0.050	15.87
31)	l1	chlordane-4						0.206	0.199	0.184	0.177	0.145	0.148			0.176	14.35
32)	l1	chlordane-5						0.314	0.302	0.284	0.272	0.222	0.226			0.270	14.22

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL21398**
Calibration dates	**: 08/15/24 14:05 08/15/24 18:28**		

Calibration Files

1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) l2	toxaphene-1			0.047	0.054		0.051	0.050	0.047			0.050	5.77
35) l2	toxaphene-2			0.048	0.060		0.055	0.057	0.054			0.054	8.29
36) l2	toxaphene-3			0.048	0.066		0.054	0.054	0.053			0.055	11.91
37) l2	toxaphene-4			0.072	0.057		0.049	0.050	0.047			0.055	18.70

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL21398**
Calibration dates	**: 08/15/24 14:05 08/15/24 18:28**		

Signal #2 Calibration Files

1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.253	1.266	1.229	1.185	1.166	1.141	1.128	1.112	1.131	1.179	4.89
3)		Hexachloroben		1.414	1.419	1.368	1.293	1.239	1.165	1.144	1.127	1.175	1.260	9.30
4)		alpha-BHC		1.511	1.542	1.524	1.470	1.523	1.589	1.606	1.620	1.737	1.569	5.07
5)		gamma-BHC (li	1.687	1.441	1.468	1.435	1.376	1.391	1.422	1.432	1.434	1.536	1.462	6.16
6)		beta-BHC		0.764	0.753	0.737	0.694	0.673	0.631	0.618	0.604	0.640	0.679	8.92
7)		delta-BHC		1.450	1.449	1.412	1.357	1.390	1.440	1.459	1.458	1.587	1.445	4.41
8)		Heptachlor		1.386	1.419	1.380	1.304	1.278	1.296	1.270	1.233	1.296	1.318	4.74
9)		Aldrin		1.310	1.336	1.318	1.253	1.267	1.319	1.306	1.274	1.379	1.307	2.96
10)		Alachlor		0.213	0.221	0.217	0.208	0.202	0.186	0.170	0.153		0.196	12.39
11)		Chlorpyrifos					0.706	0.663	0.597	0.550	0.495	0.509	*L	0.997
6)														
12)		Heptachlor Ep		1.354	1.366	1.317	1.230	1.207	1.216	1.181	1.130	1.223	1.247	6.46
13)		gamma-Chlorda		1.174	1.199	1.176	1.109	1.093	1.117	1.091	1.063	1.208	1.137	4.66
14)		alpha-Chlorda		1.323	1.351	1.319	1.245	1.222	1.242	1.209	1.174	1.330	1.268	4.99
15)		4,4'-DDE		1.223	1.272	1.245	1.184	1.187	1.275	1.247	1.210	1.365	1.245	4.48
16)		Endosulfan I		1.228	1.240	1.220	1.153	1.138	1.156	1.123	1.072	1.170	1.167	4.69
17)		Dieldrin		1.210	1.233	1.216	1.149	1.151	1.207	1.183	1.142	1.270	1.196	3.61
18)		Endrin		1.262	1.252	1.232	1.184	1.159	1.190	1.161	1.113	1.223	1.197	4.08
19)		4,4'-DDD		1.023	1.017	0.989	0.924	0.912	0.976	0.954	0.924	1.069	0.976	5.47
20)		Endosulfan II		1.145	1.156	1.125	1.068	1.041	1.059	1.027	0.973	1.053	1.072	5.57
21)		4,4'-DDT		1.097	1.138	1.092	1.031	1.014	1.070	1.039	1.001	1.151	1.070	4.97
22)		Endrin Aldehyde		0.992	0.971	0.957	0.888	0.851	0.879	0.856	0.821	0.917	0.903	6.53
23)		Methoxychlor				0.687	0.646	0.590	0.561	0.521	0.479		0.581	13.27
24)		Mirex		1.060	1.046	1.017	0.954	0.871	0.822	0.776	0.730	0.851	0.903	13.41
25)		Endosulfan Su		1.111	1.121	1.084	1.030	0.990	1.006	0.971	0.930	1.045	1.032	6.28
26)		Endrin Ketone		1.200	1.207	1.182	1.129	1.076	1.096	1.052	0.998	1.104	1.116	6.32
27)	s	Decachlorobip		1.081	1.114	1.071	1.015	0.911	0.879	0.827	0.780	0.897	0.953	12.63
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.048	0.044	0.044	0.041	0.036	0.035			0.041	12.02
30)	l1	chlordane-3			0.053	0.053	0.050	0.044	0.037	0.036			0.046	16.76
31)	l1	chlordane-4			0.180	0.175	0.173	0.168	0.143	0.146			0.164	9.49
32)	l1	chlordane-5			0.146	0.142	0.138	0.132	0.112	0.114			0.131	11.17
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.020	0.027		0.026	0.026	0.026			0.025	11.73
35)	l2	toxaphene-2			0.034	0.042		0.039	0.037	0.039			0.038	7.22

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL21398**
Calibration dates	**: 08/15/24 14:05 08/15/24 18:28**		

Signal #2 Calibration Files

1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
36) l2 toxaphene-3			0.039	0.048		0.046	0.046	0.047			0.045	7.74
37) l2 toxaphene-4			0.033	0.044		0.041	0.040	0.042			0.040	10.64

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachloroben...		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li...	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Ep...		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlorda...		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlorda...		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Su...		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobip...		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2														

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.9998
35)	l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.9995
36)	l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.9992
37)	l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.9999

Signal #2 Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben...			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li...		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.9996
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10) t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996
7													
11) t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998
3													
12) t	Heptachlor Ep...		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44
13) t	gamma-Chlorda...		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85
14) t	alpha-Chlorda...		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54
15) t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82
16) t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59
17) t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11
18) t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25
19) t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57
20) t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39
21) t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26
22) t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999
3													
23) t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13
24) t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999
3													
25) t	Endosulfan Su...		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)	t	Endrin Ketone	1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136		1.261		6.75
27)	s	Decachlorobip...	1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929		1.060		12.61
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1	0.054	0.052	0.044	0.039	0.040	0.040	0.035				*L		0.996
3															
30)	l1	chlordane-3	0.070	0.064	0.055	0.047	0.046	0.044	0.037				*L		0.991
2															
31)	l1	chlordane-4	0.208	0.191	0.166	0.163	0.167	0.169	0.147				*L		0.995
9															
32)	l1	chlordane-5	0.162	0.149	0.130	0.126	0.128	0.129	0.113				*L		0.996
1															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-2	0.028	0.028	0.023	0.023	0.024						*L		0.999
7															
35)	l2	toxaphene-3	0.042	0.040	0.035	0.035	0.035						*L		0.999
8															
36)	l2	toxaphene-4	0.049	0.047	0.041	0.041	0.042						*L		0.999
7															
37)	l2	toxaphene-5	0.050	0.045	0.038	0.038	0.039						*L		0.999
7															

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	226.2E6	184.7E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.659	4.472	862871	1055459	0.080M2	0.106M4
18) t	Endrin	4.211	4.925	519.0E6	456.6E6	49.762M4	45.902M3
19) t	4,4'-DDD	4.325	5.050	1951195	2046326	0.233M4	0.256M3
21) t	4,4'-DDT	4.616	5.325	974.6E6	872.9E6	101.766M4	94.533M4
22) t D	Endrin Aldeh	4.869	5.421	1022766	1047335	0.128M3	N.D. M4
26) t	Endrin Keton	5.487	6.059	4628888	4774072	0.432M4	0.513M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

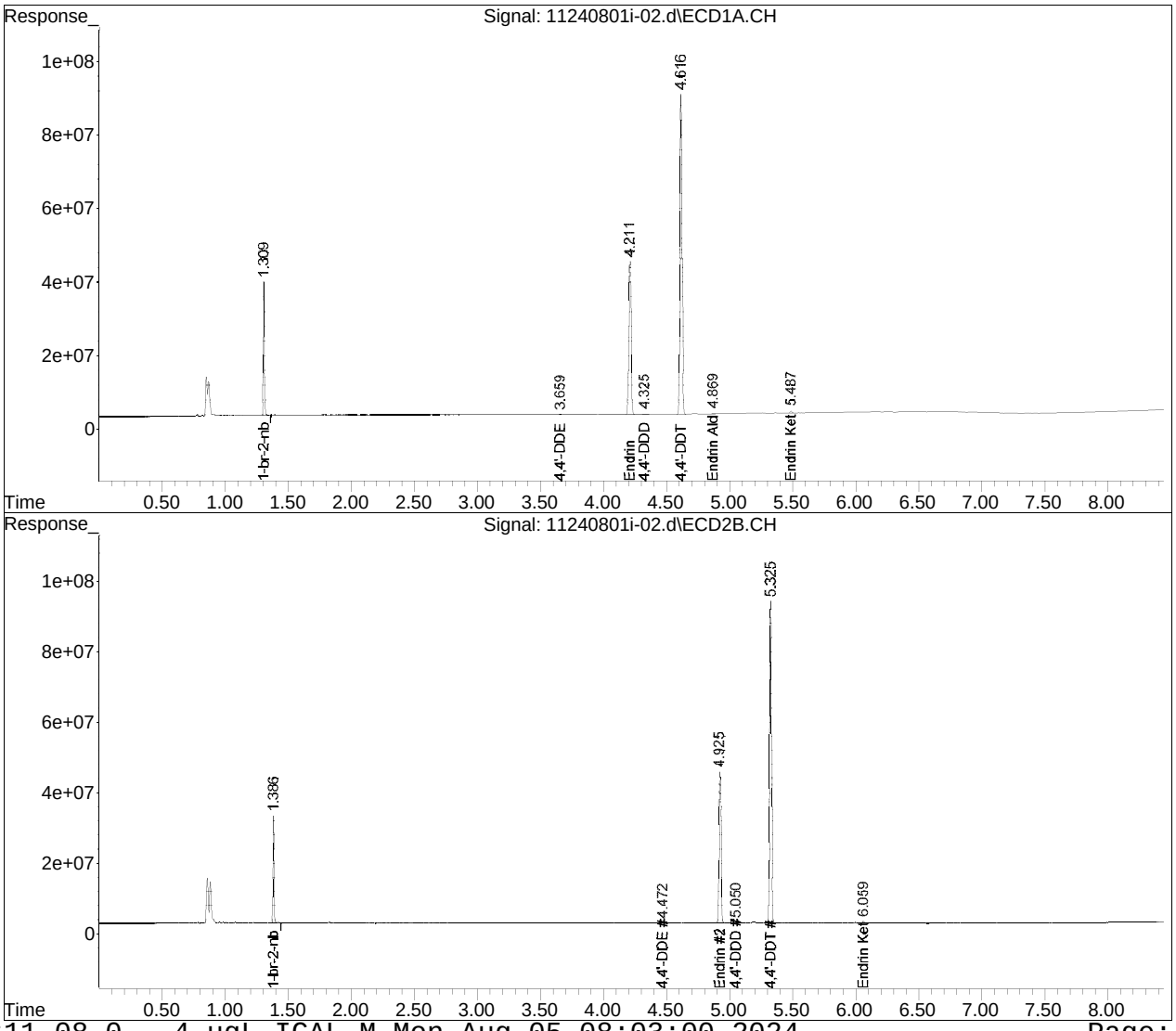
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

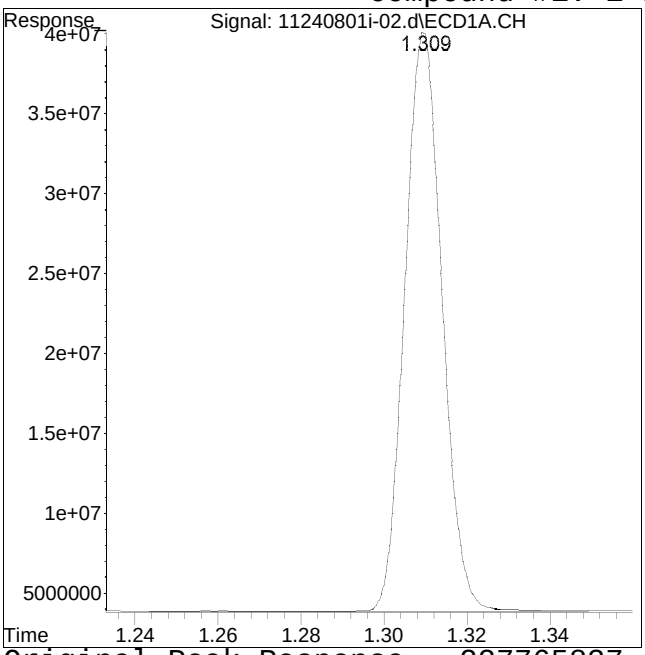


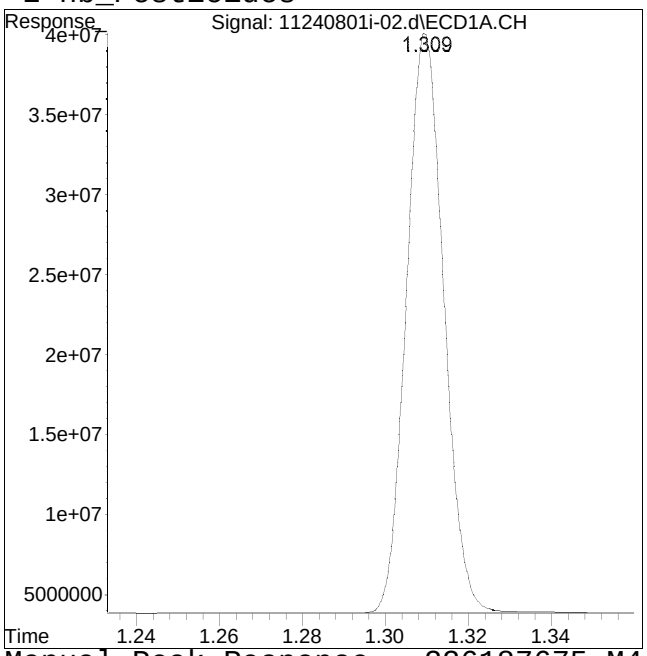
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #1: 1-br-2-nb_Pesticides





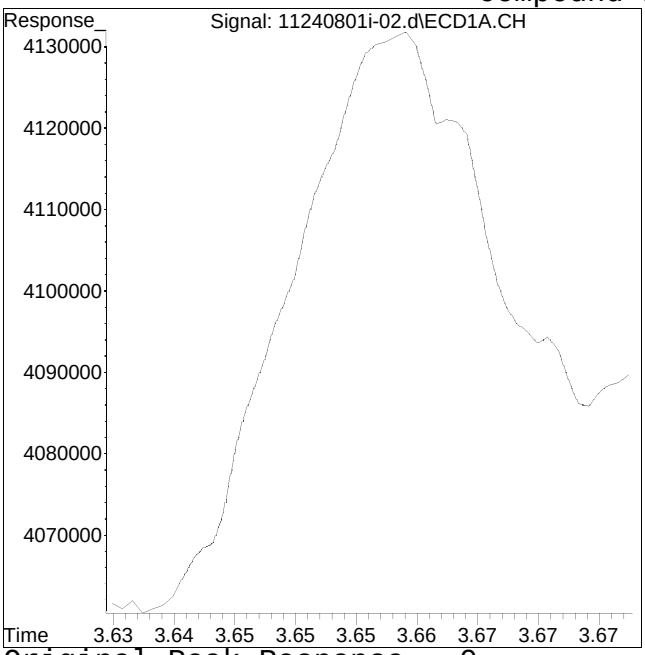
Original Peak Response = 227765837 Manual Peak Response = 226187675 M4
M4 = Poor automated baseline construction.

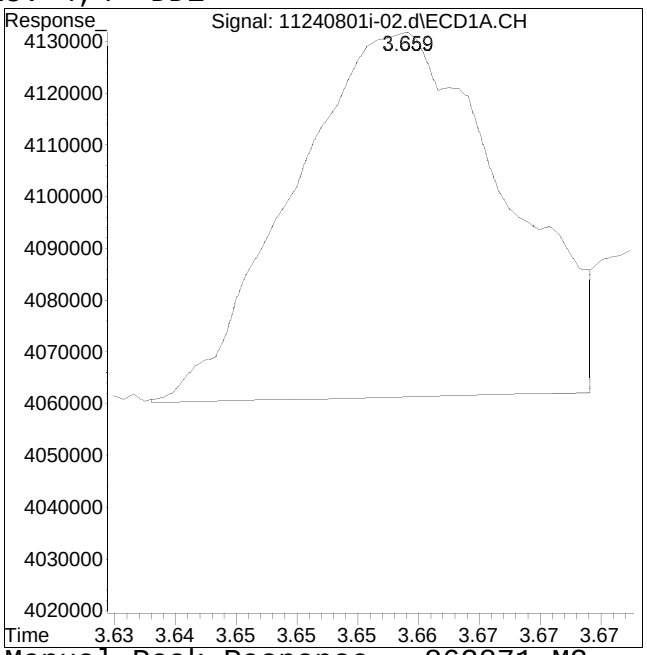
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #15: 4,4'-DDE





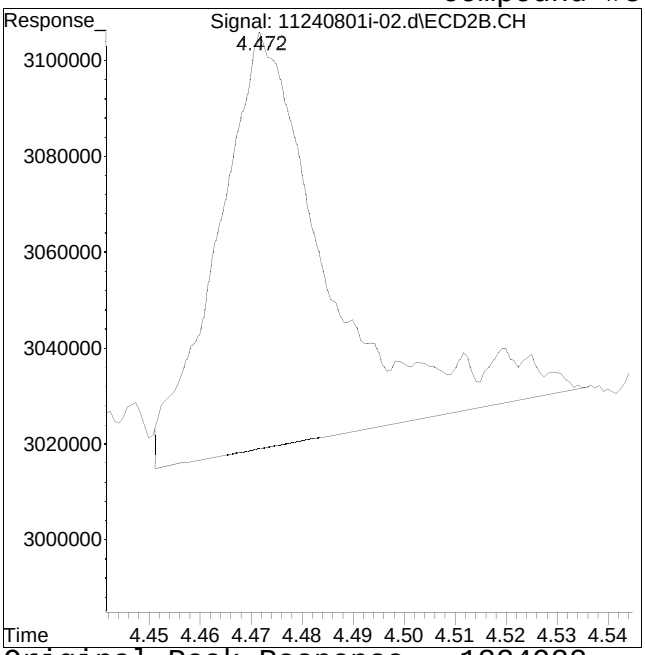
Original Peak Response = 0
Manual Peak Response = 862871 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

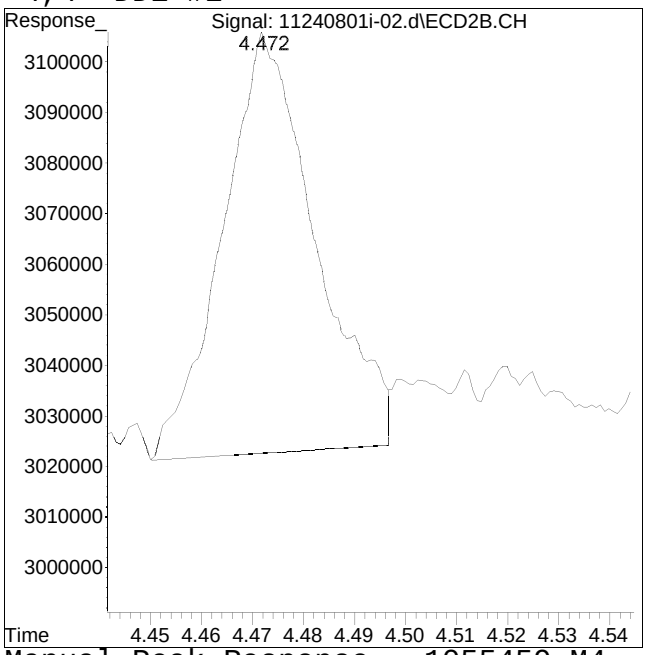
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1324922



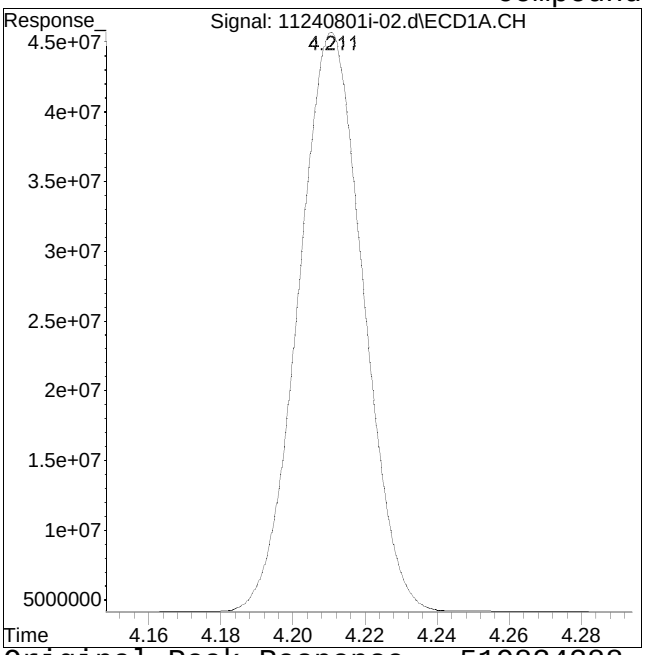
Manual Peak Response = 1055459 M4

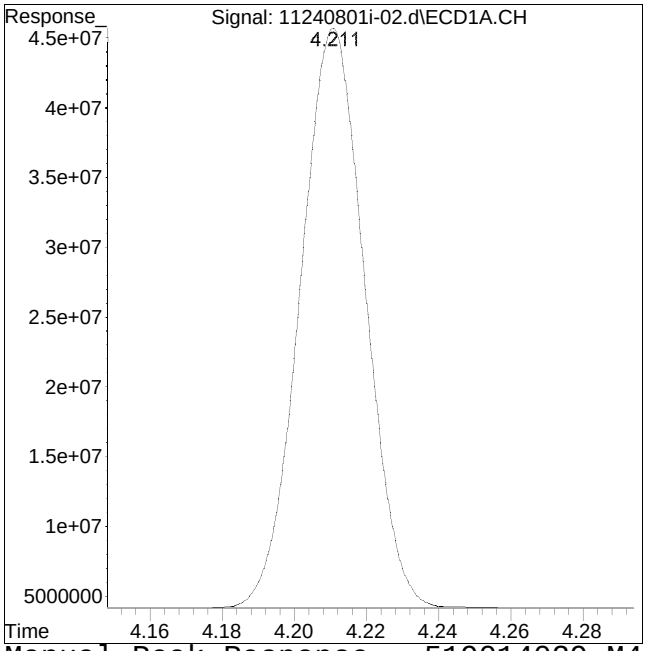
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #18: Endrin



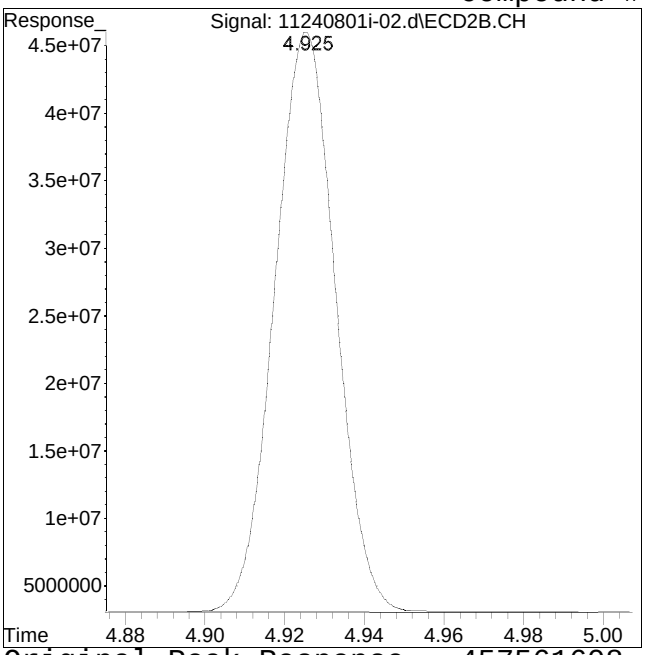


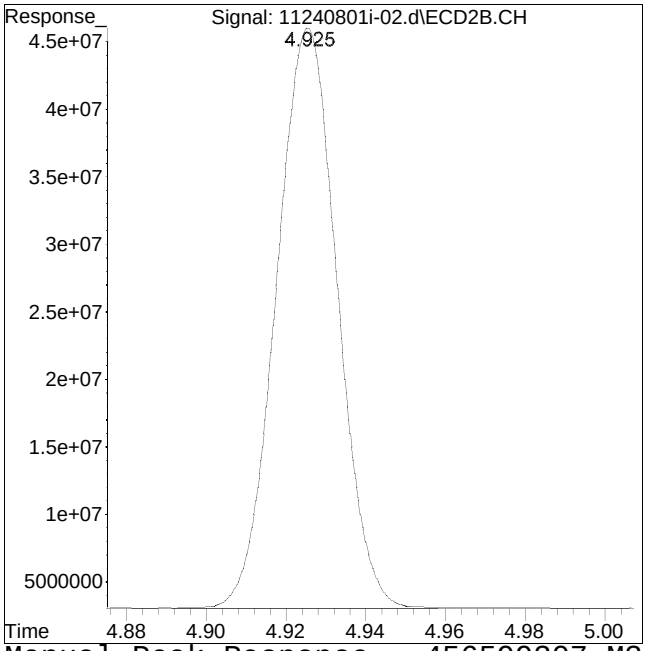
Original Peak Response = 519834388 Manual Peak Response = 519014029 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11 Quant Date : 8/2/2024 12:30 pm

Compound #56: Endrin #2



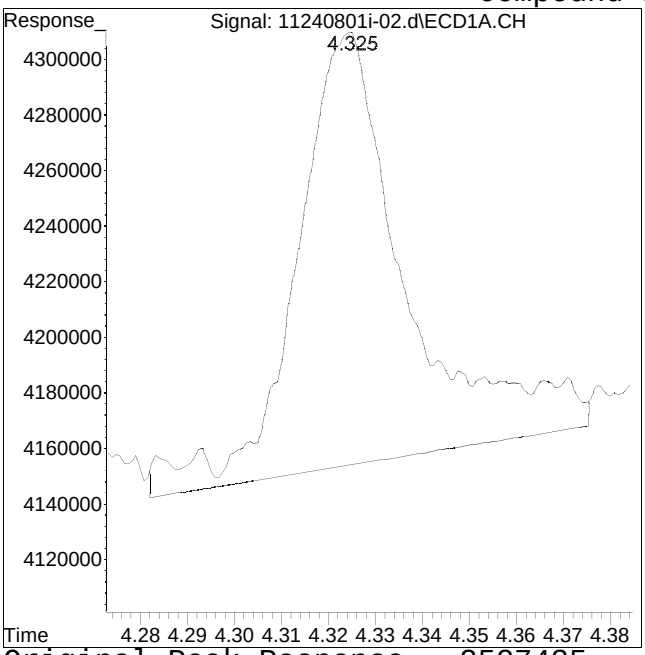


Original Peak Response = 457561608 Manual Peak Response = 456599307 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

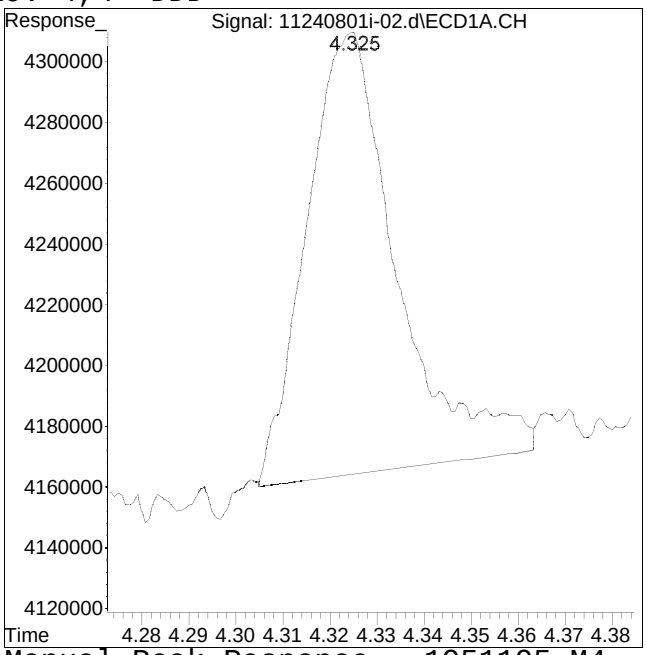
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #19: 4,4'-DDD



Original Peak Response = 2527435



Manual Peak Response = 1951195 M4

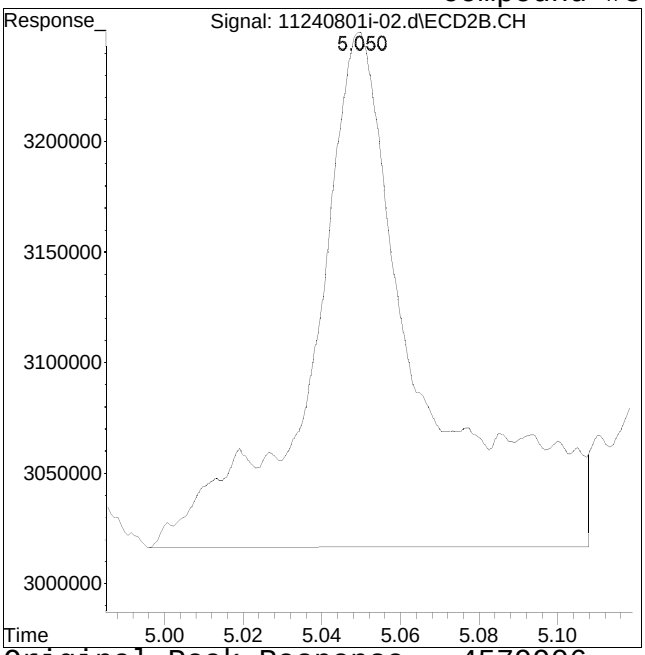
M4 = Poor automated baseline construction.

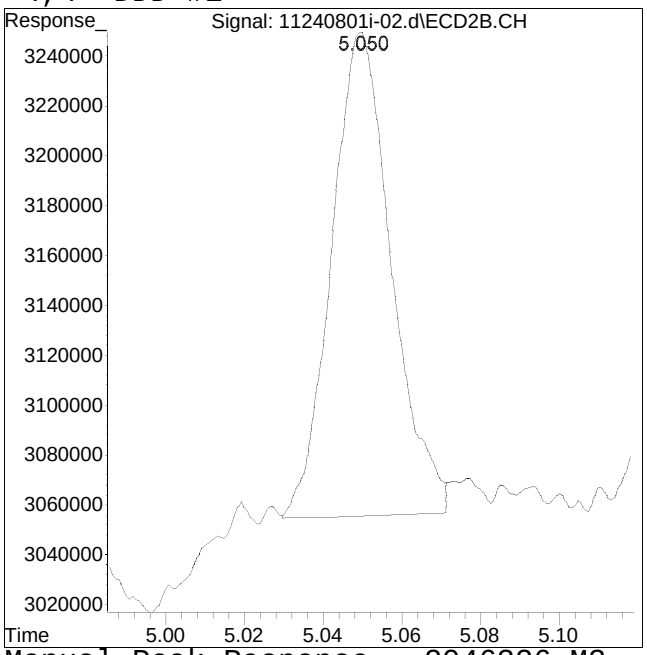
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #57: 4,4'-DDD #2





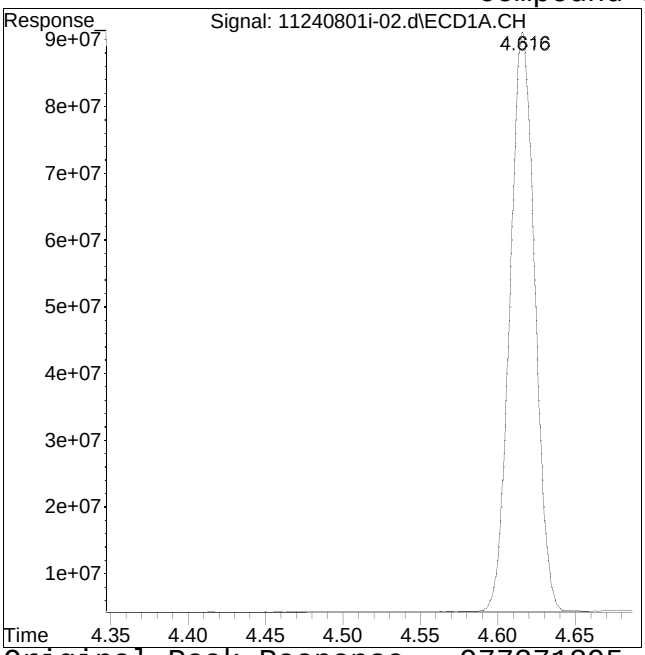
Original Peak Response = 4579906 Manual Peak Response = 2046326 M3

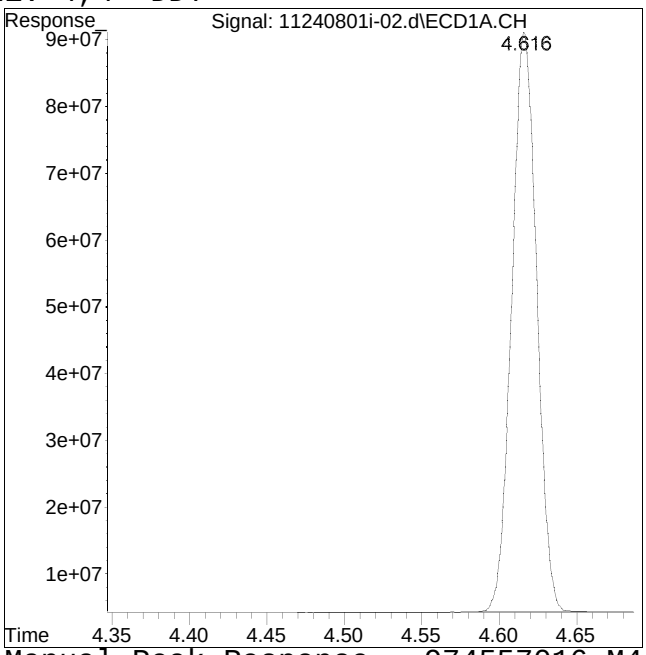
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #21: 4,4'-DDT



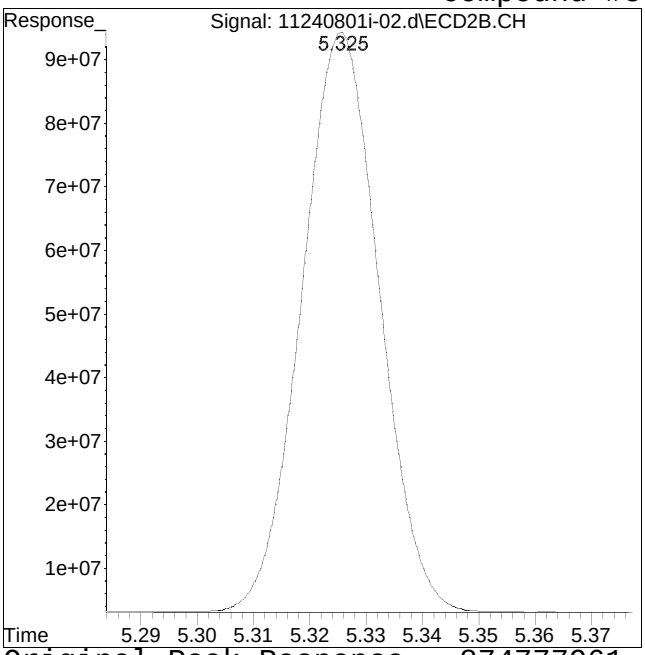


Original Peak Response = 977371295 Manual Peak Response = 974557016 M4
M4 = Poor automated baseline construction.

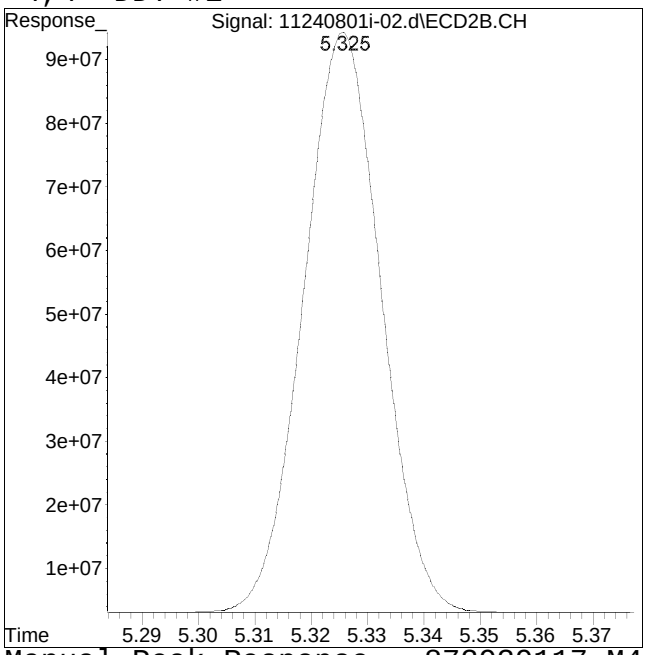
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 874777961



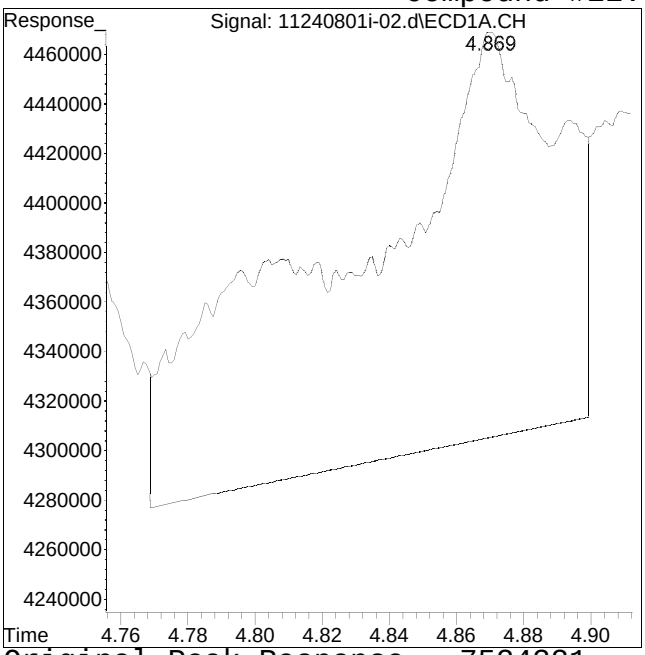
Manual Peak Response = 872939117 M4

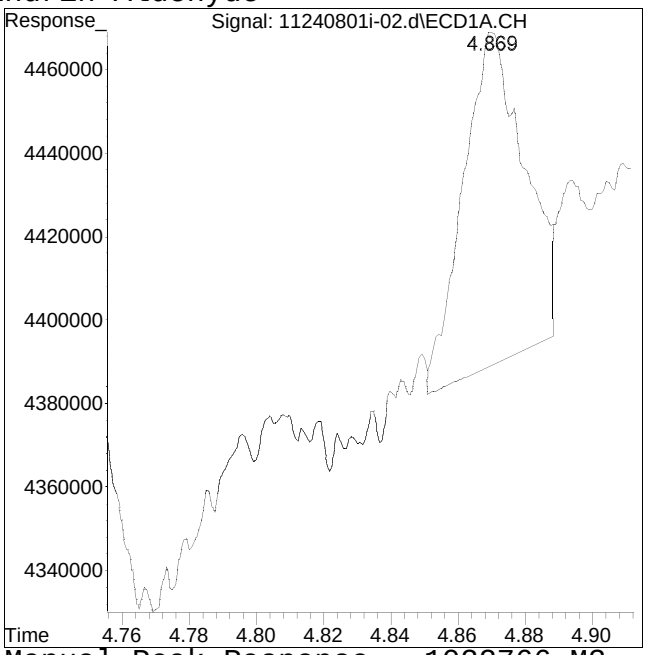
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #22: Endrin Aldehyde



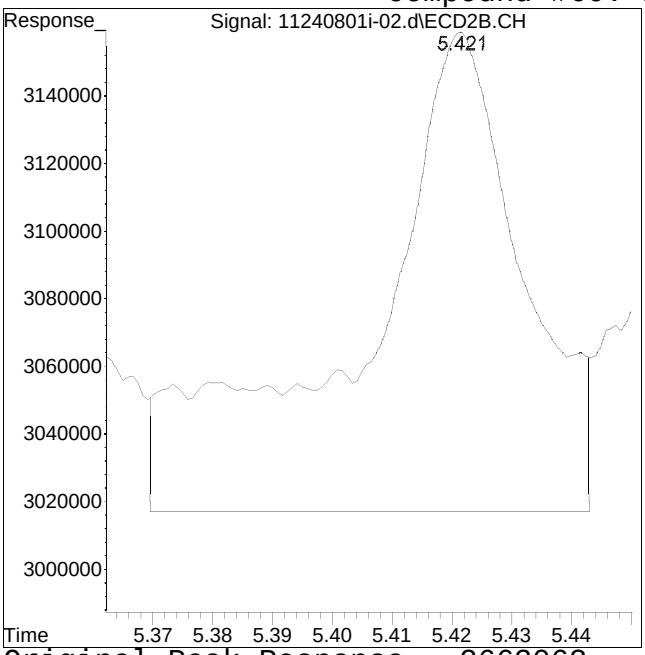


Original Peak Response = 7524321 Manual Peak Response = 1022766 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

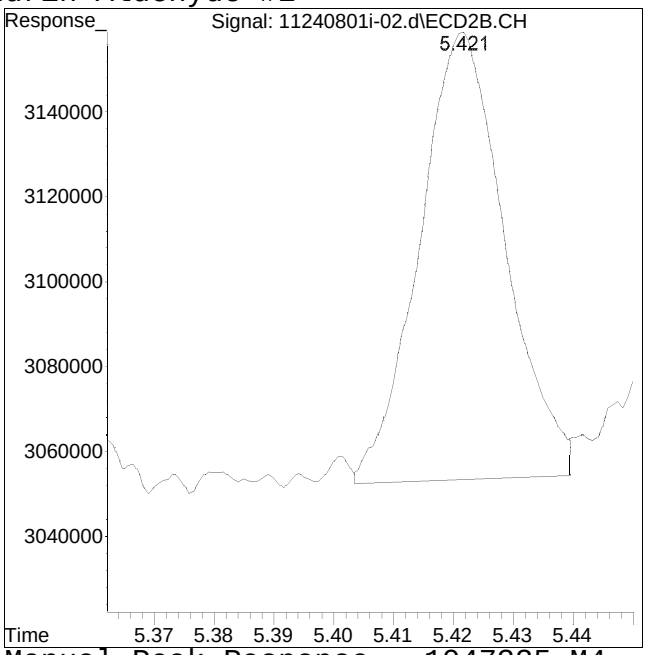
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2663063



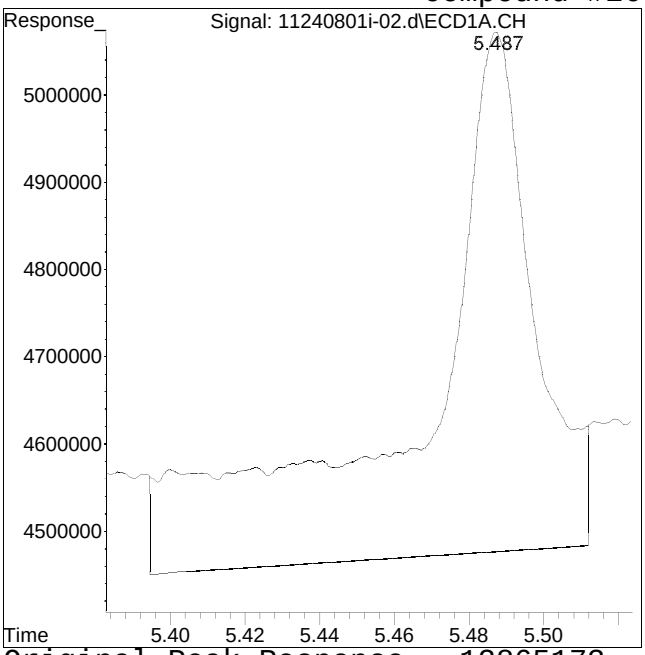
Manual Peak Response = 1047335 M4

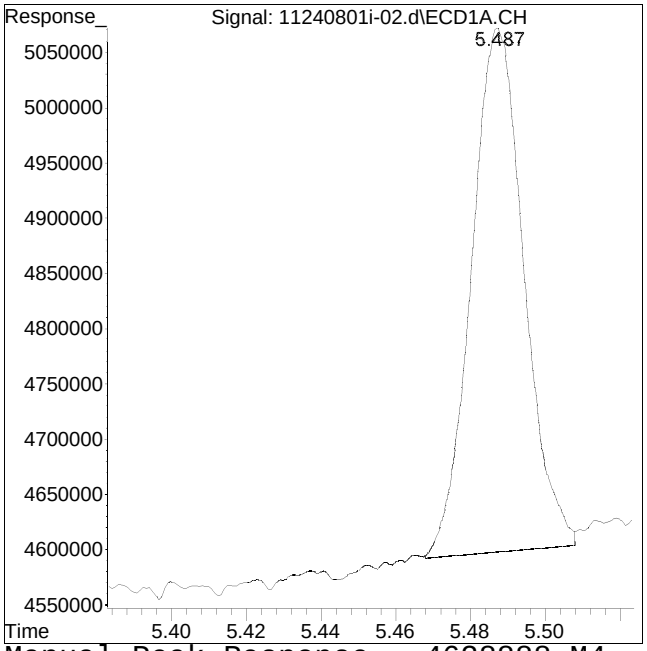
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #26: Endrin Ketone



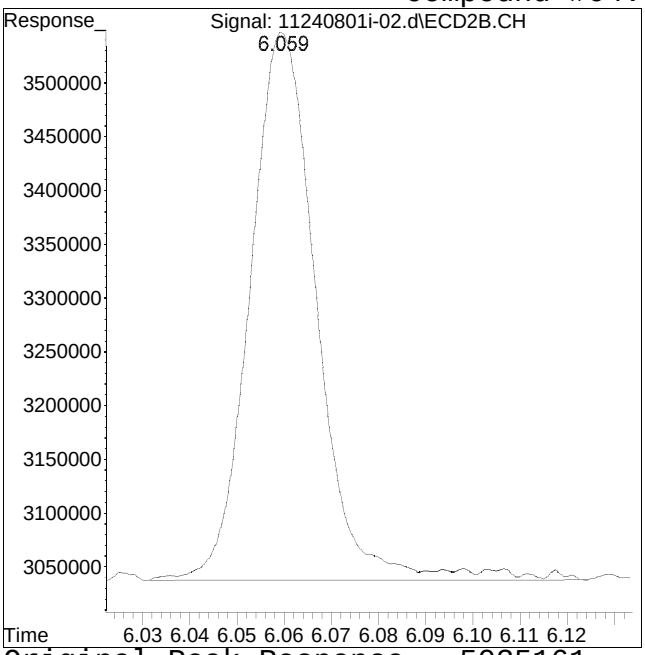


Original Peak Response = 12865173 Manual Peak Response = 4628888 M4
M4 = Poor automated baseline construction.

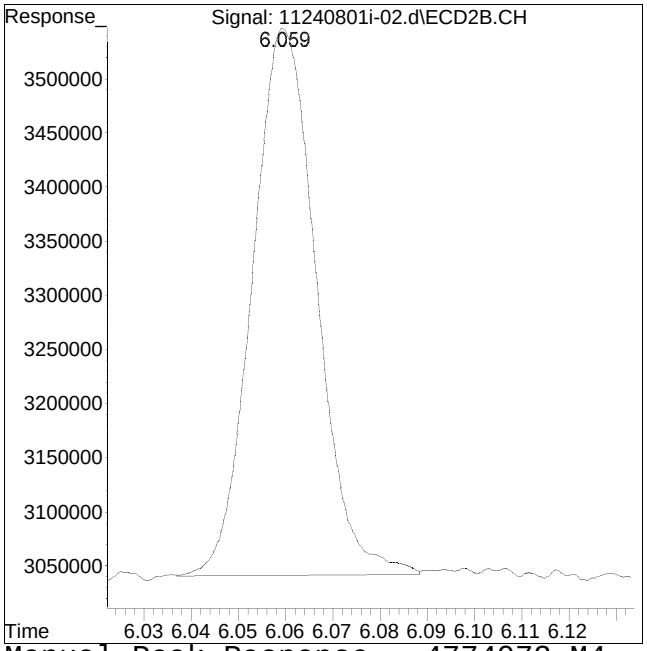
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 5035161



Manual Peak Response = 4774072 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	220.8E6	175.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.165	2.556	6465041	6237465	0.527M4	0.587M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

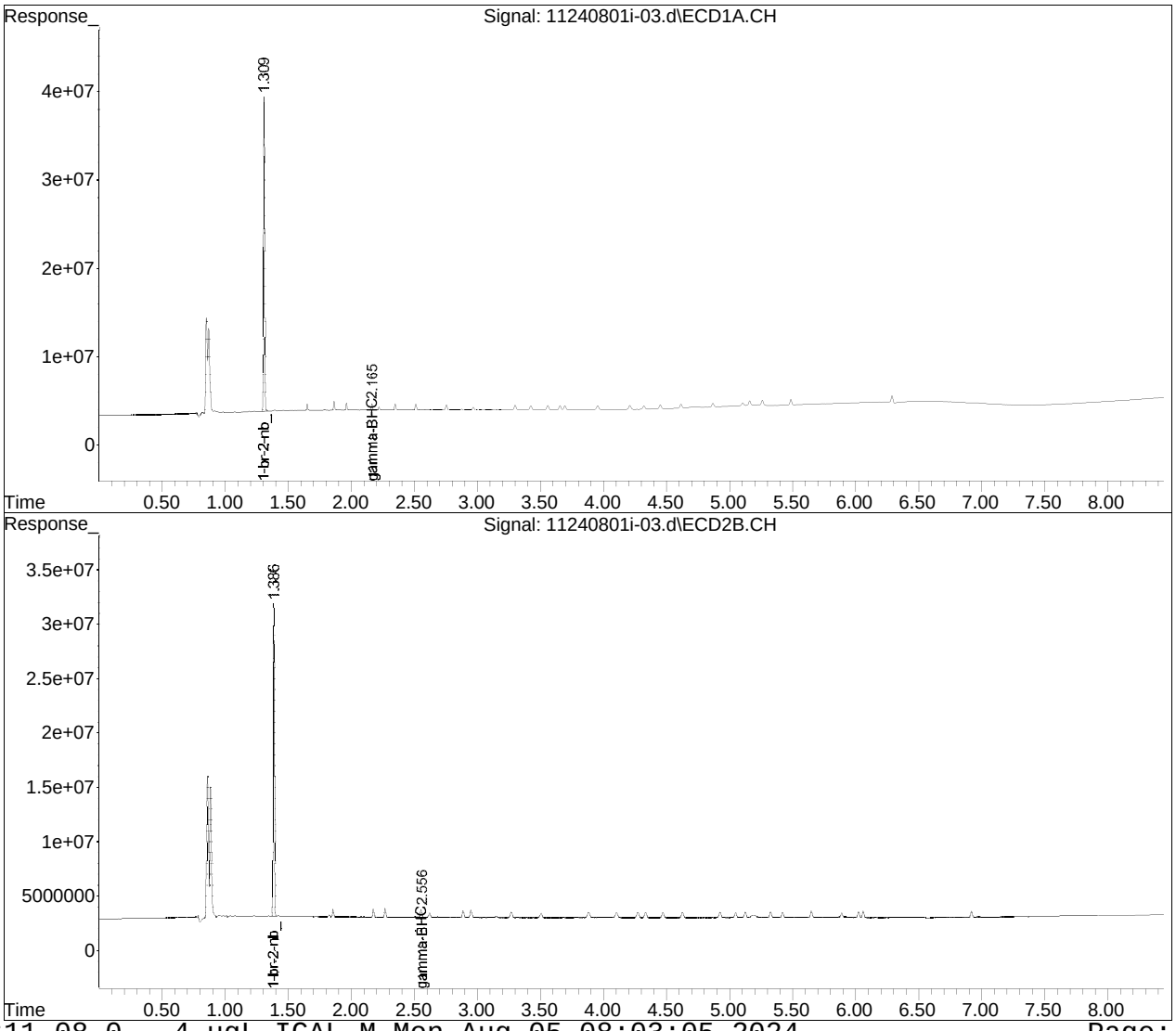
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

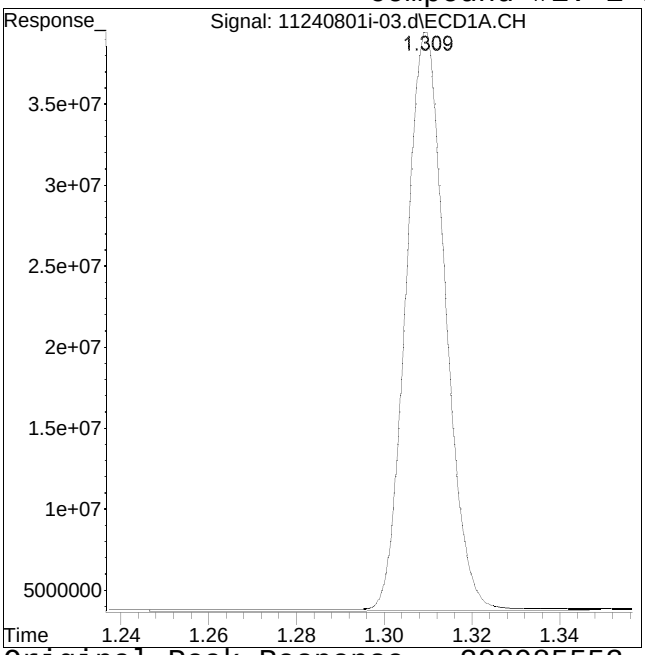
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



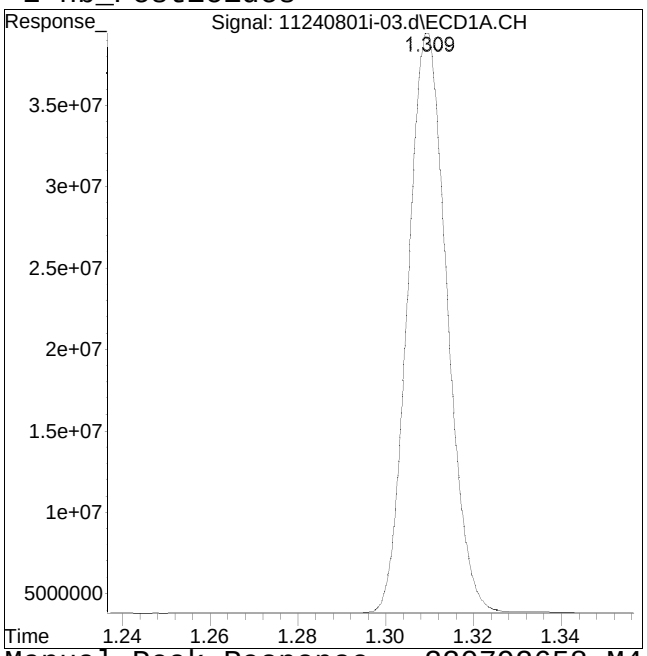
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 228985553



Manual Peak Response = 220792658 M4

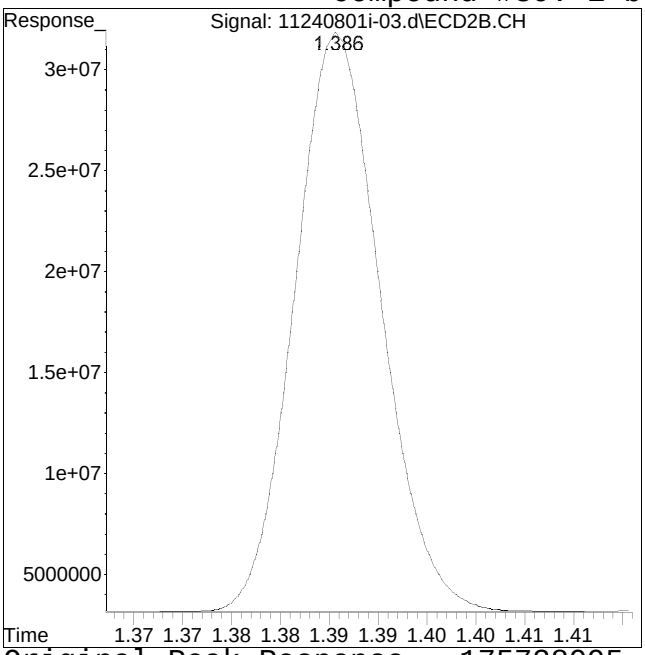
M4 = Poor automated baseline construction.

Manual Integration Report

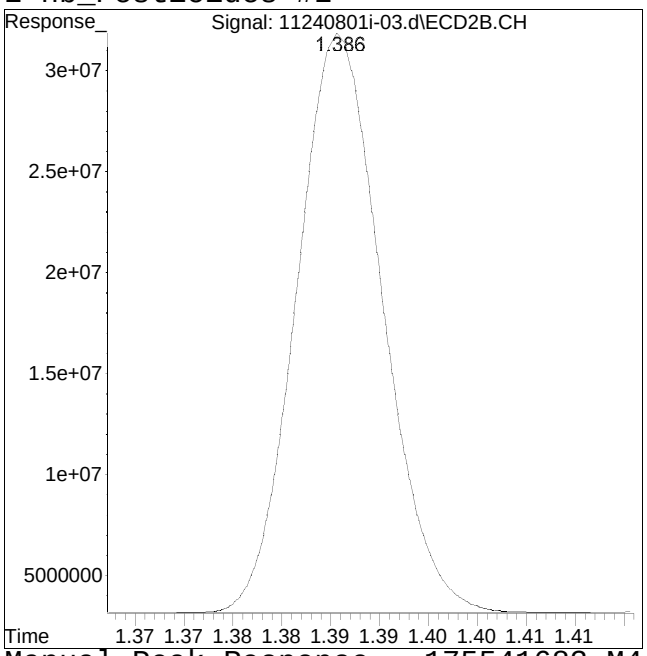
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 175738995



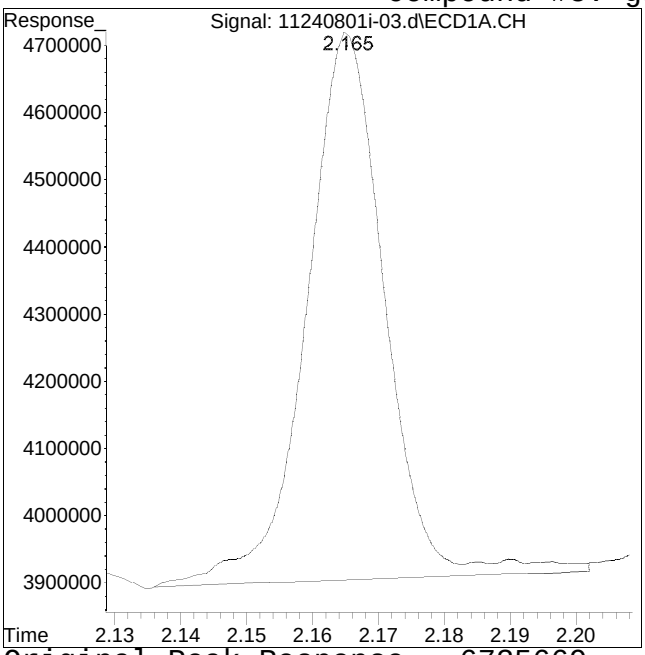
Manual Peak Response = 175541683 M4

M4 = Poor automated baseline construction.

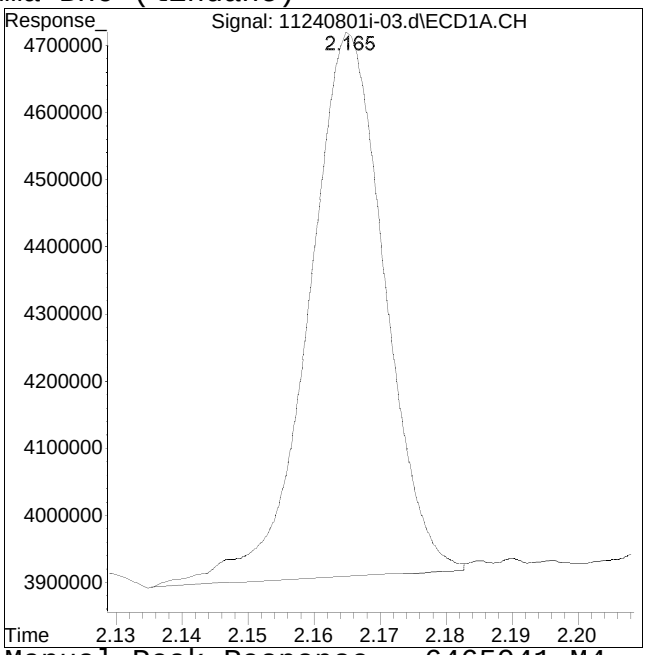
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 6735669



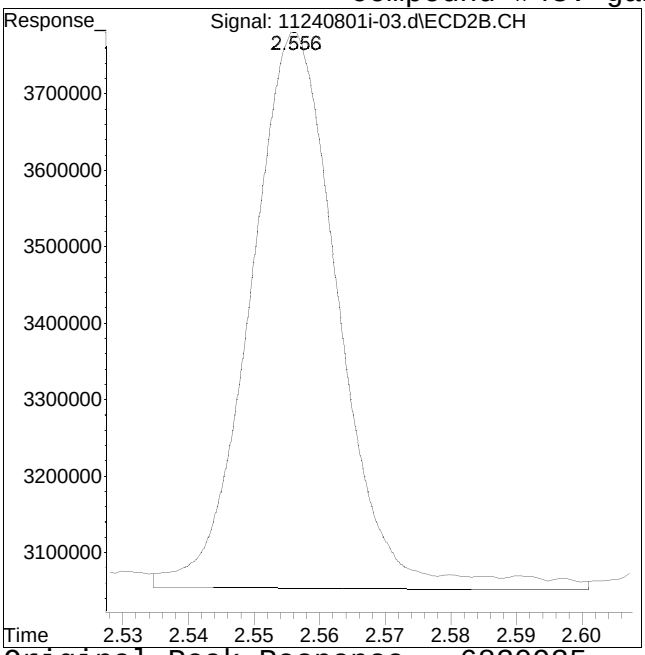
Manual Peak Response = 6465041 M4

M4 = Poor automated baseline construction.

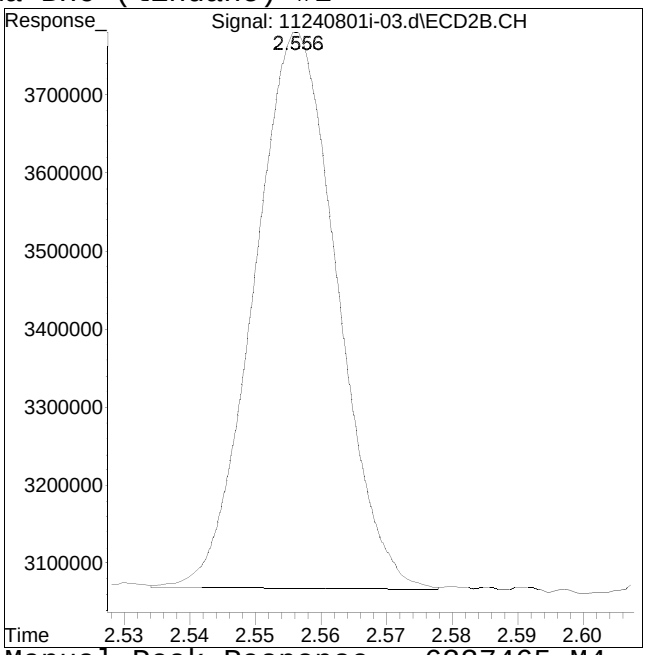
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 6830935



Manual Peak Response = 6237465 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	236.2E6	189.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.857	10103750	9166304	1.033M4	1.095M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.07%#	2.19%#
27) s	Decachlorobi	6.287	6.916	12797286	9509129	1.189M4	1.208M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.38%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	14522616	11025327	1.106M4	1.197M3
4) t	alpha-BHC	1.963	2.270	12213270	11833439	0.873M3	0.957M4
5) t	gamma-BHC (l	2.165	2.555	12327860	11786896	0.933M4	1.029M4
6) t	beta-BHC	2.221	2.622	6284813	6484776	1.068M4	1.227
7) t	delta-BHC	2.349	2.888	11794485	11613870	0.898M4	1.004M4
8) t	Heptachlor	2.512	2.951	12406198	13569126	0.994M4	1.135M4
9) t	Aldrin	2.755	3.270	11094967	11481671	0.947M3	1.060M4
10) t	Alachlor	2.875	3.152	2283039	2193840	1.050M4	1.239M3
11) t	Chlorpyrifos	2.968	3.506	6350609	8645243	1.140M4	1.309M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	11159206	12274465	0.996M4	1.153M4
13)	t	gamma-Chlord	3.424	4.104	10188540	11268731	1.002M4	1.150M3
14)	t	alpha-Chlord	3.558	4.274	11264127	12463945	0.978M4	1.154M4
15)	t	4,4'-DDE	3.655	4.472	10456227	10459964	0.921M4	1.029M4
16)	t	Endosulfan I	3.694	4.335	10476077	11507441	0.993M4	1.157M4
17)	t	Dieldrin	3.954	4.627	10104411	10753372	0.936M4	1.075M4
18)	t	Endrin	4.208	4.925	10369621	10955743	0.947M4	1.080M3
19)	t	4,4'-DDD	4.320	5.049	8095840	8492171	0.916M4	1.035M3
20)	t	Endosulfan I	4.450	5.125	9763069	10359858	0.980M4	1.141M4
21)	t	4,4'-DDT	4.615	5.326	9158338	9826532	0.906M4	1.039M4
22)	t	Endrin Aldeh	4.868	5.421	8559160	8781210	1.025M3	1.158M4
23)	t	Methoxychlor	5.103	5.890	6198489	6445389	1.124M3	1.236M4
24)	t	Mirex	5.159	6.023	10519898	10310168	1.188M3	1.296M4
25)	t	Endosulfan S	5.260	5.649	10237086	10496074	1.083M3	1.175M4
26)	t	Endrin Keton	5.486	6.060	11019089	10468738	0.984M4	1.106M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

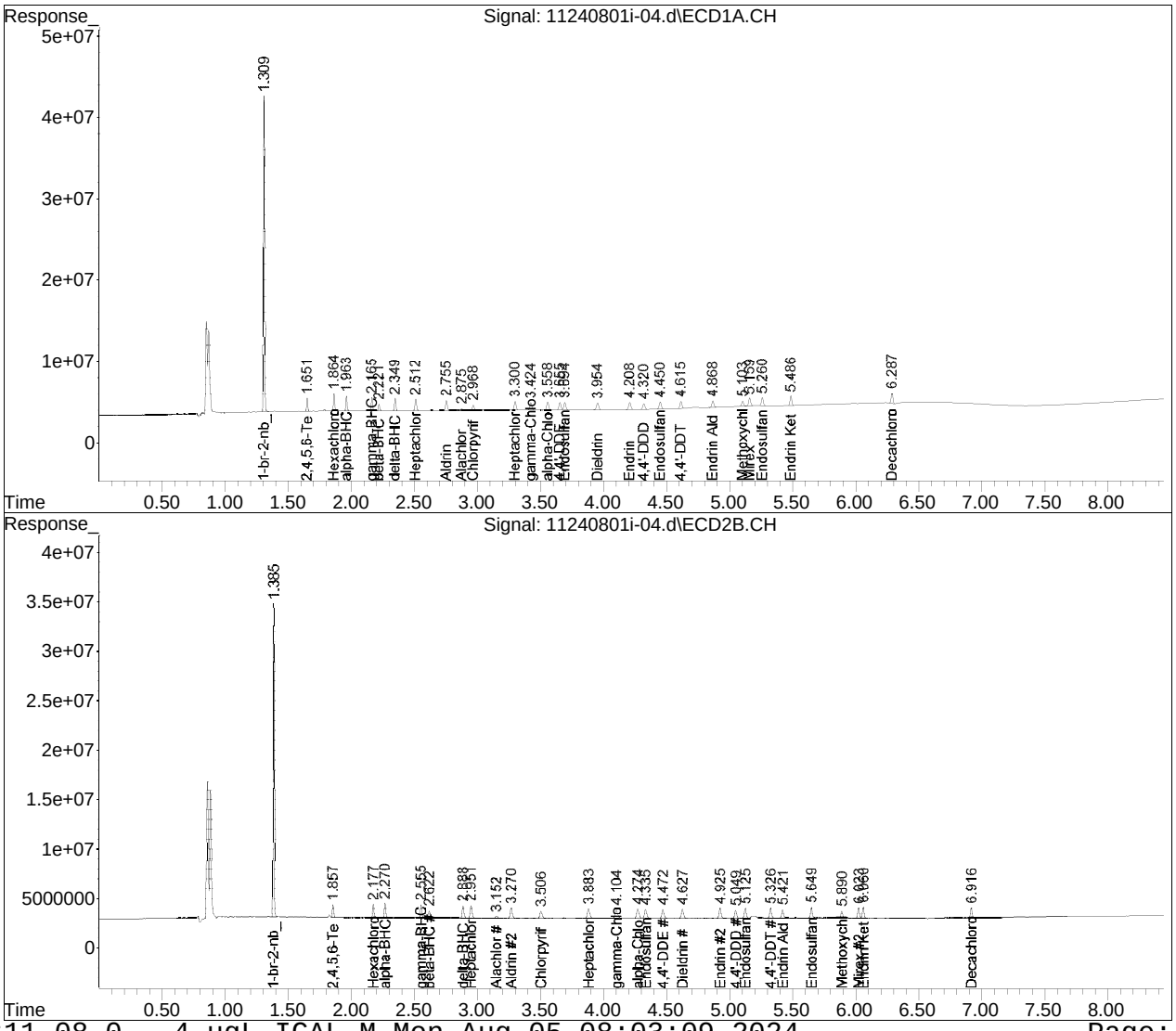
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

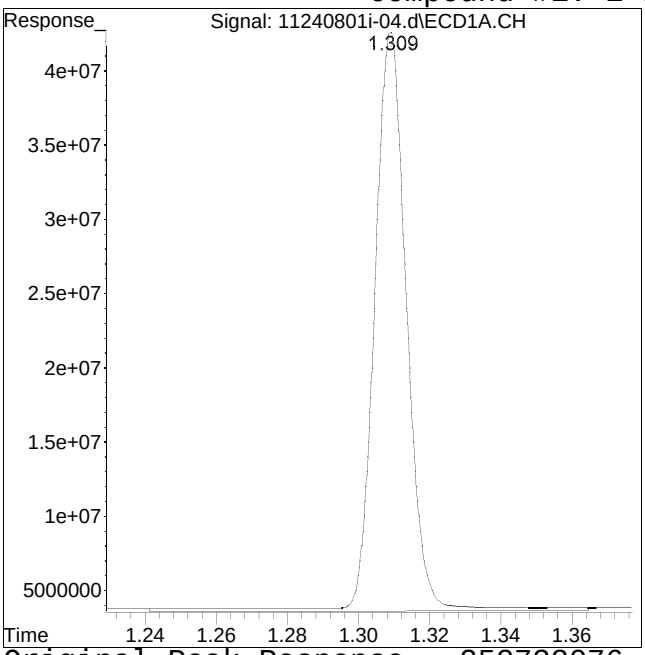


Manual Integration Report

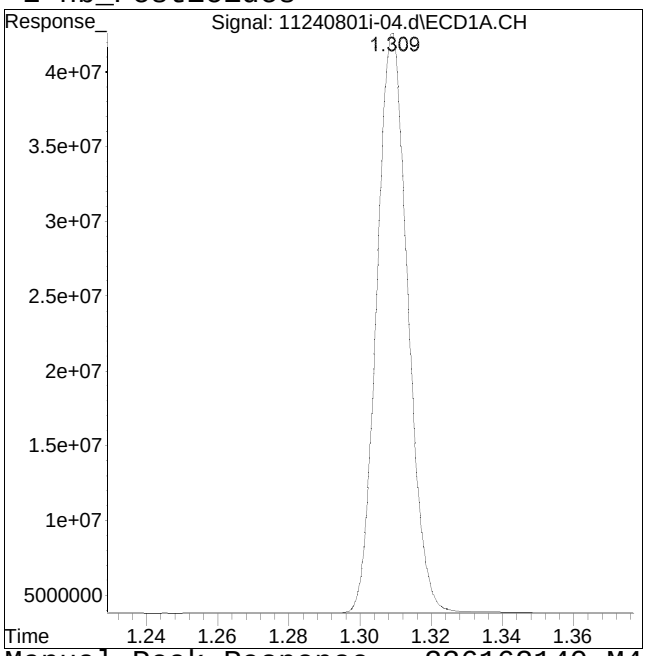
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 252732076



Manual Peak Response = 236162140 M4

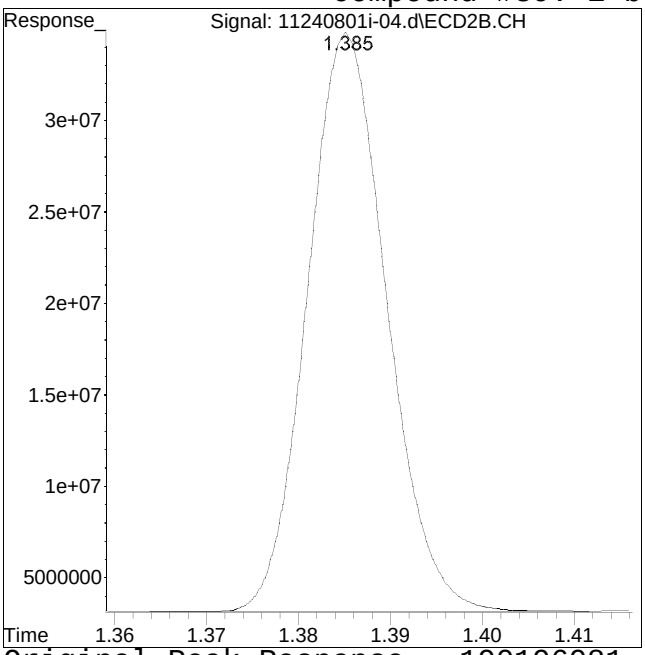
M4 = Poor automated baseline construction.

Manual Integration Report

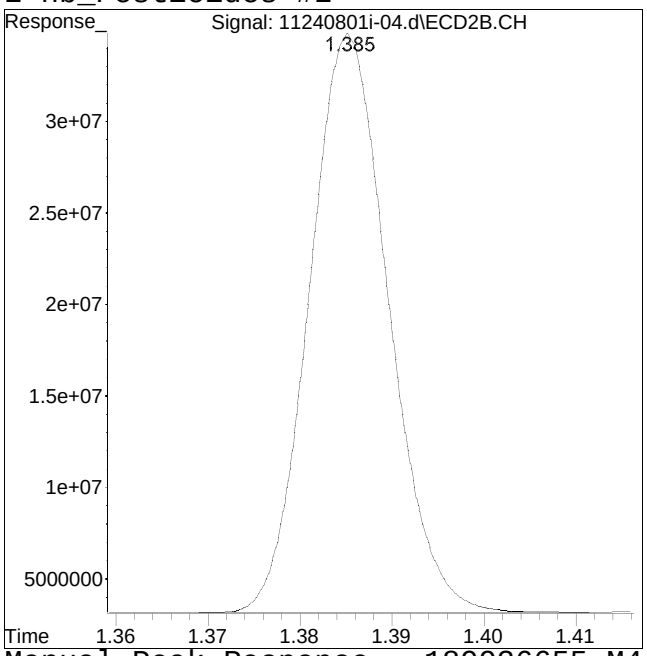
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 190196981



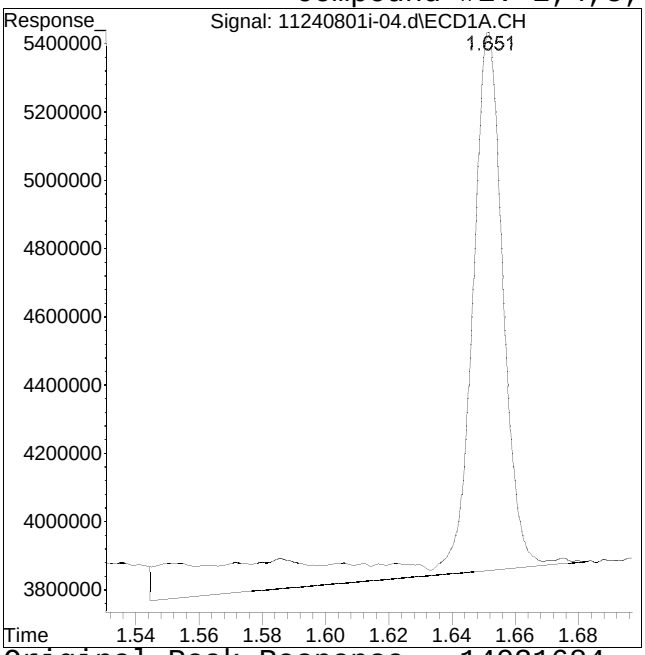
Manual Peak Response = 189936655 M4

M4 = Poor automated baseline construction.

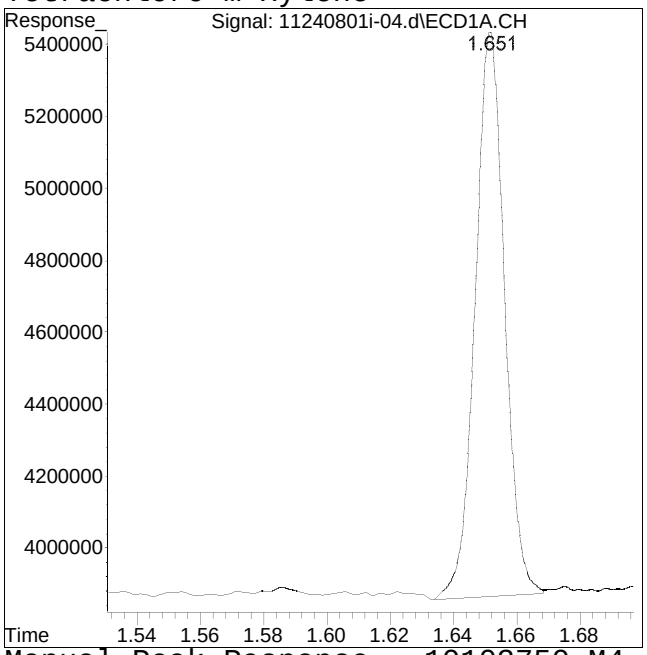
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 14031684



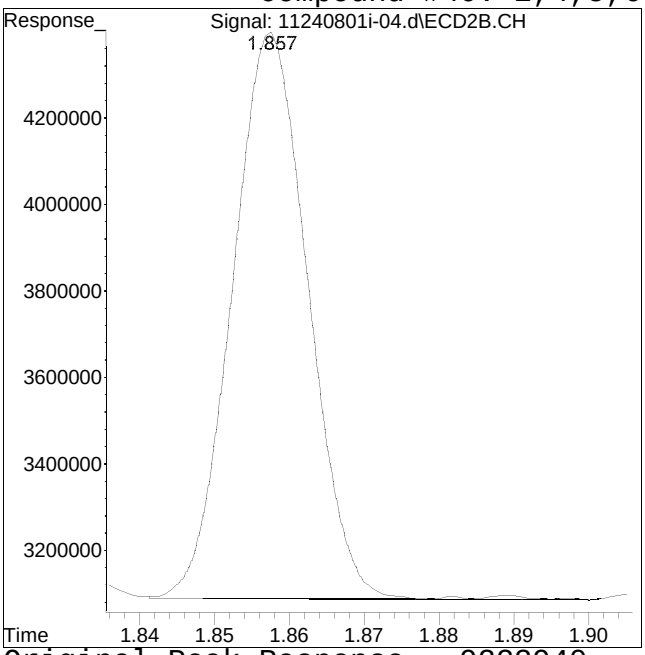
Manual Peak Response = 10103750 M4

M4 = Poor automated baseline construction.

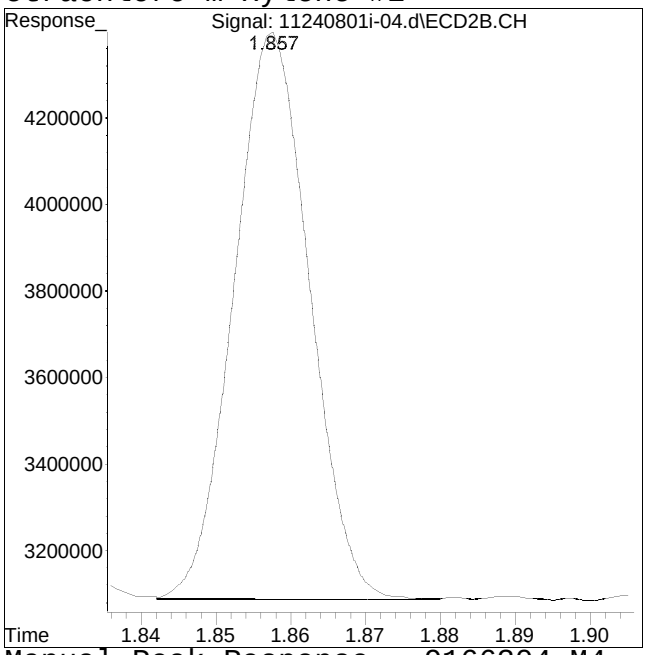
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 9223940



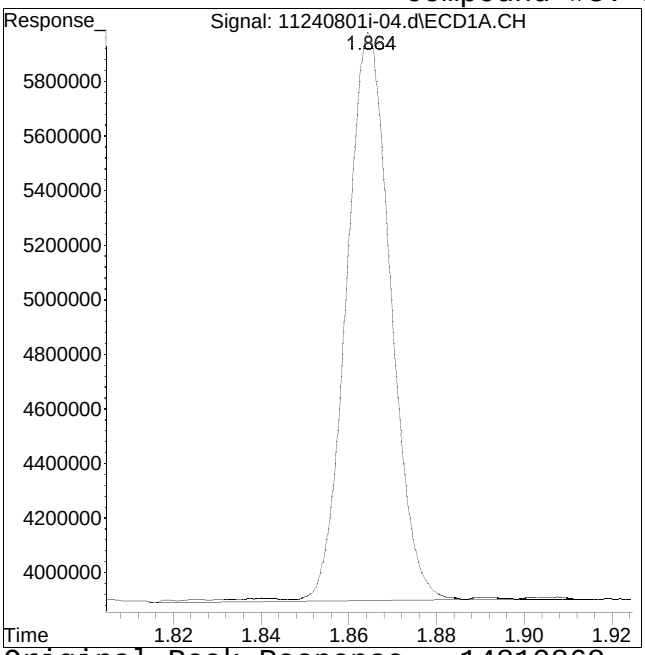
Manual Peak Response = 9166304 M4

M4 = Poor automated baseline construction.

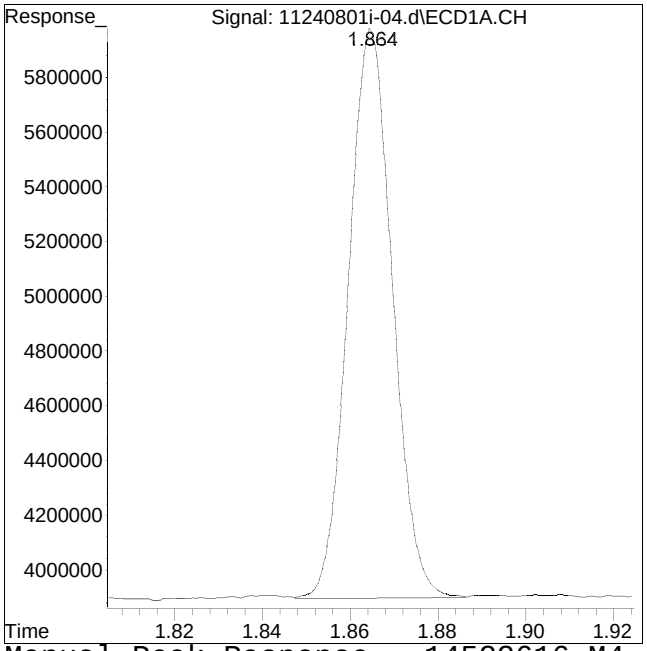
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #3: Hexachlorobenzene



Original Peak Response = 14810868



Manual Peak Response = 14522616 M4

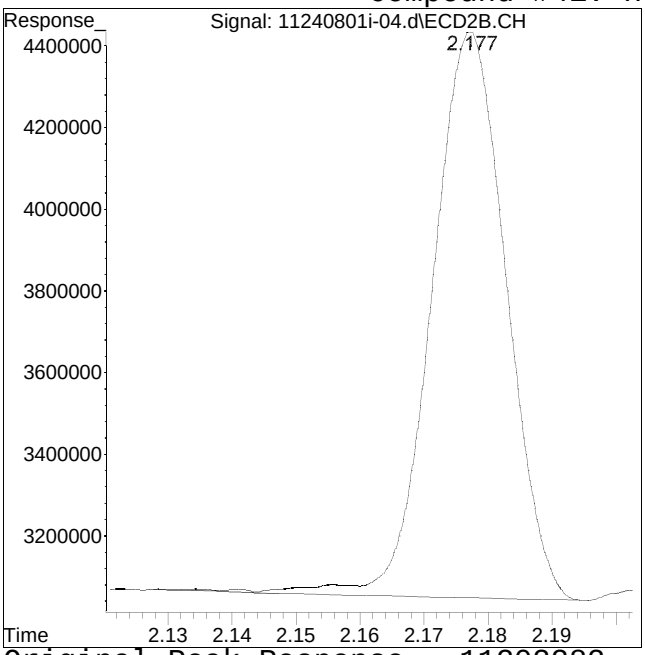
M4 = Poor automated baseline construction.

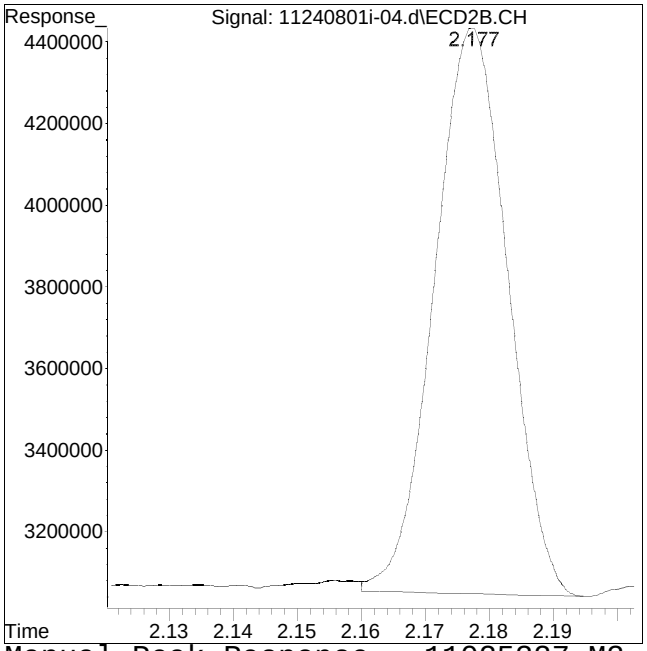
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #41: Hexachlorobenzene #2





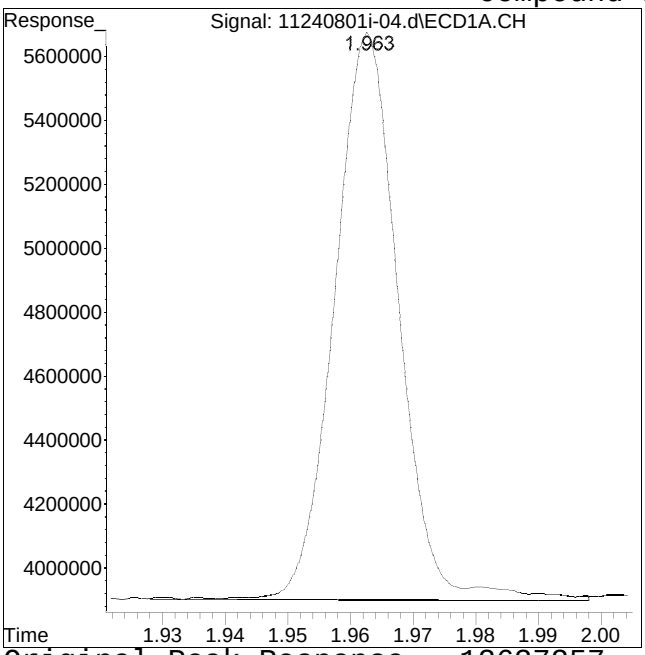
Original Peak Response = 11202282 Manual Peak Response = 11025327 M3

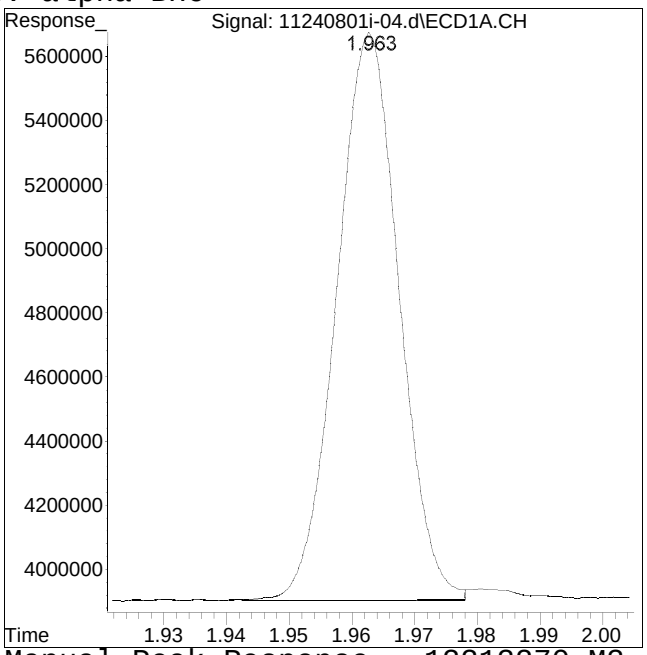
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #4: alpha-BHC



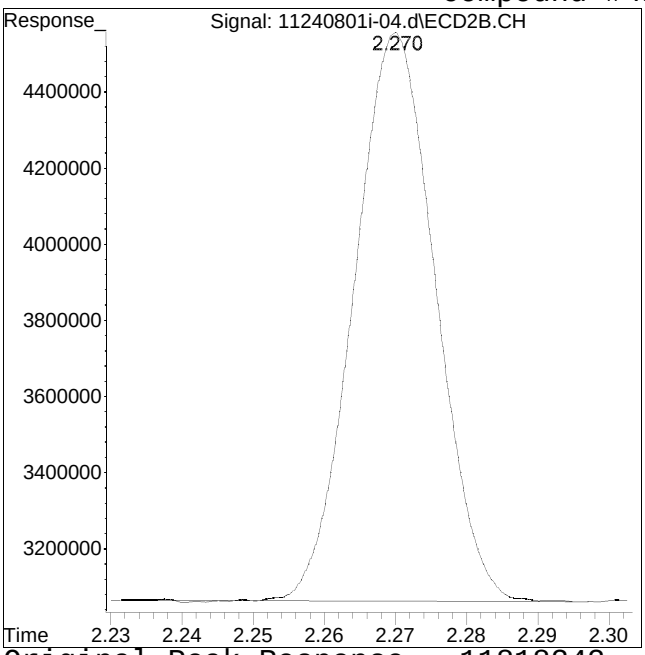


Original Peak Response = 12637257 Manual Peak Response = 12213270 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

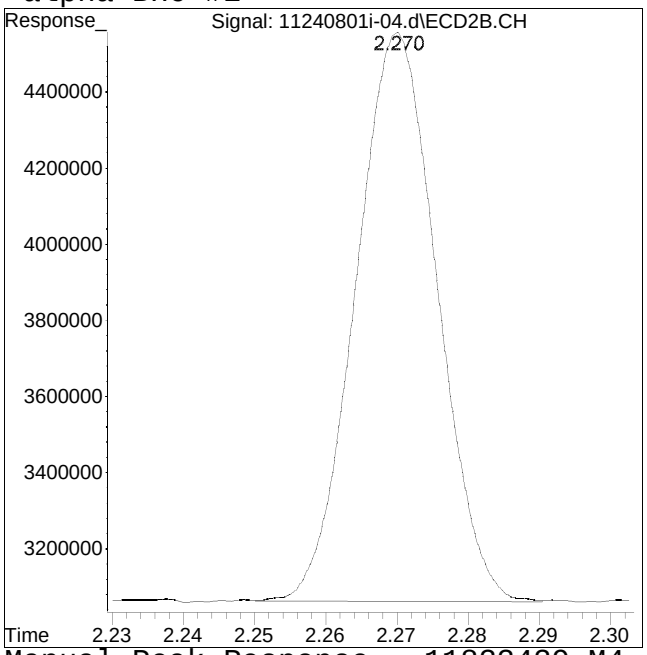
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #42: alpha-BHC #2



Original Peak Response = 11818242



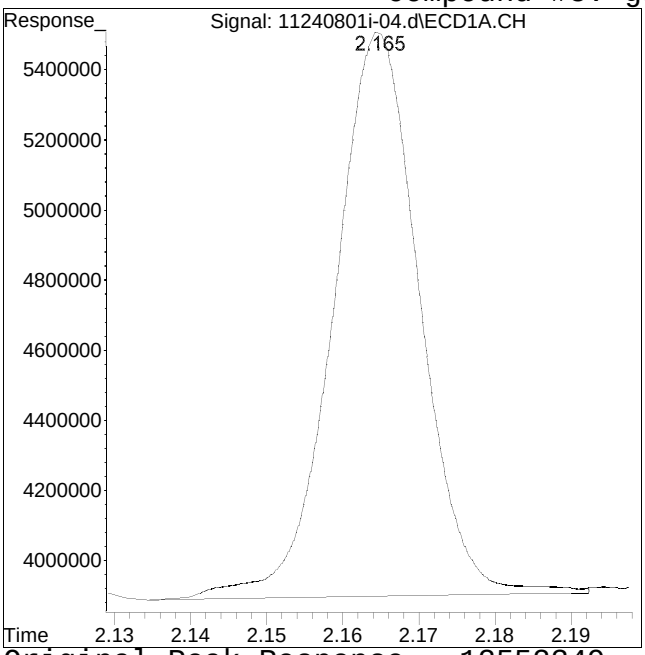
Manual Peak Response = 11833439 M4

M4 = Poor automated baseline construction.

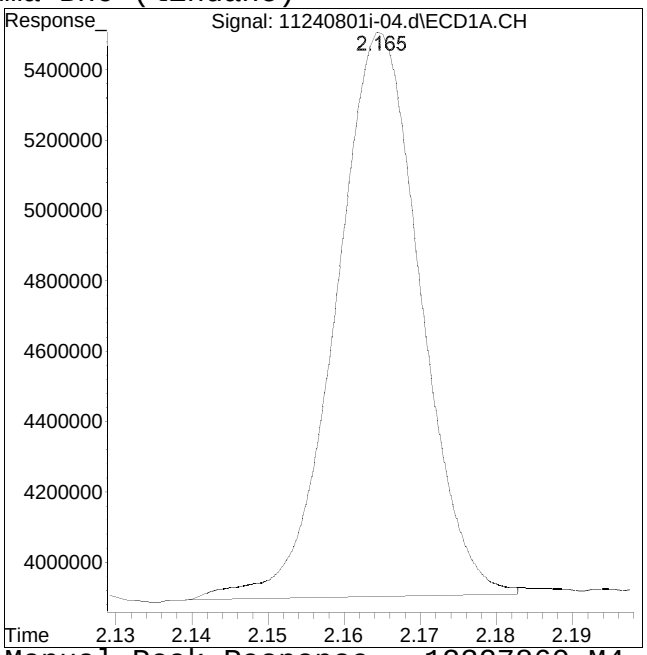
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 12552349

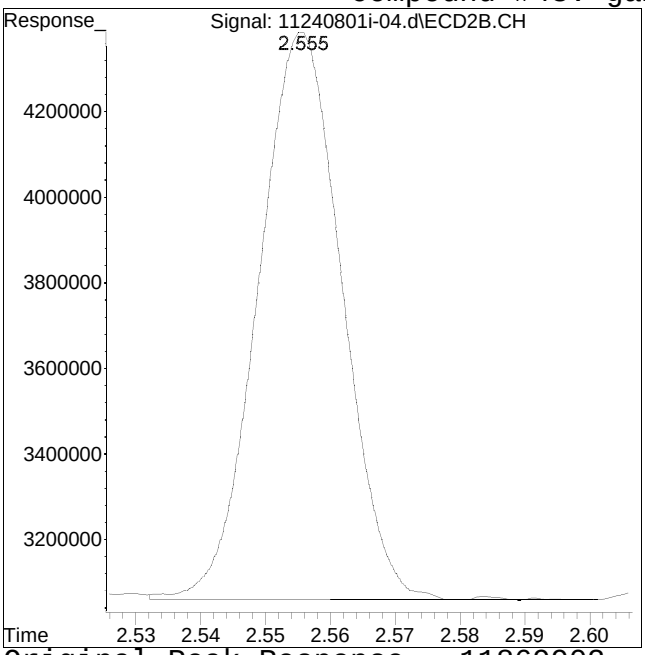


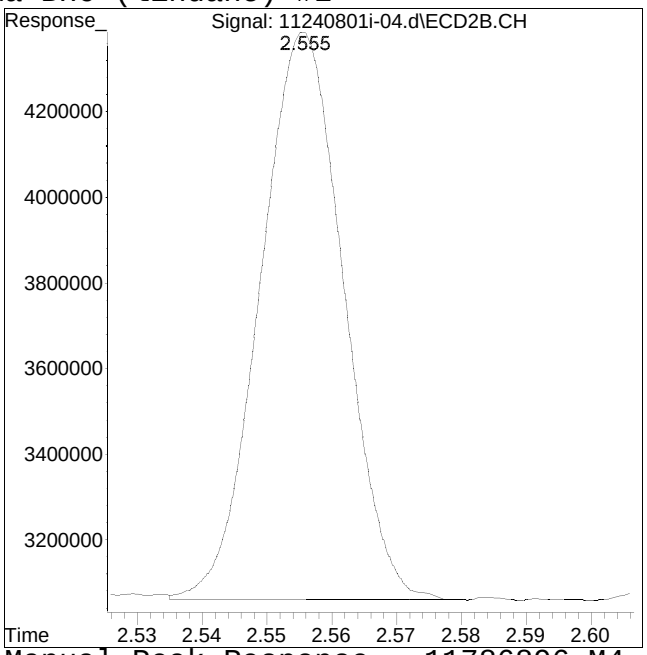
Manual Peak Response = 12327860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #43: gamma-BHC (lindane) #2



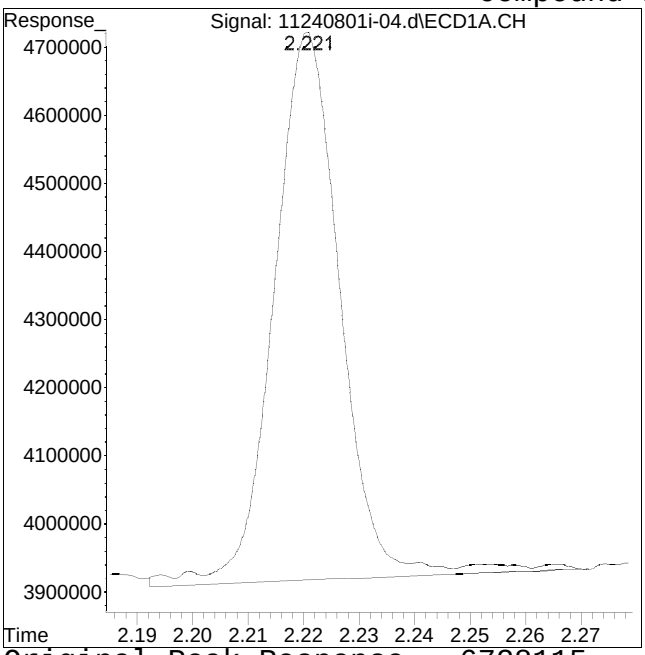


Original Peak Response = 11869902 Manual Peak Response = 11786896 M4
M4 = Poor automated baseline construction.

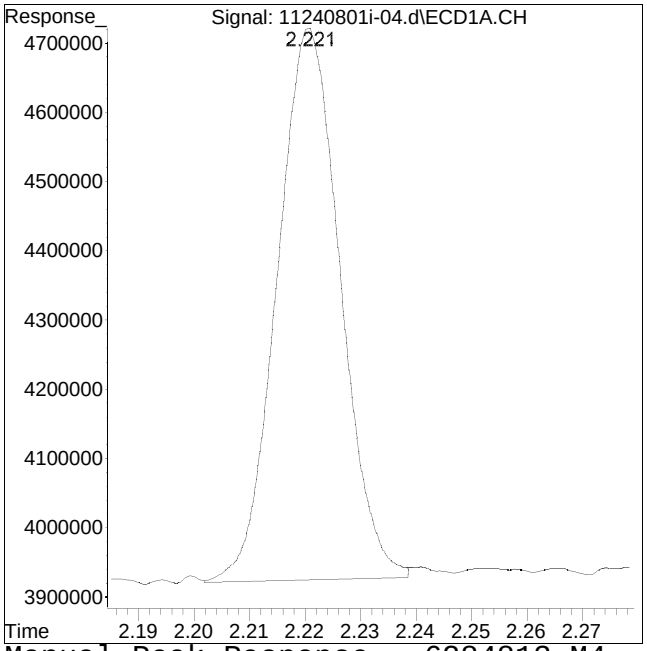
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #6: beta-BHC



Original Peak Response = 6728115



Manual Peak Response = 6284813 M4

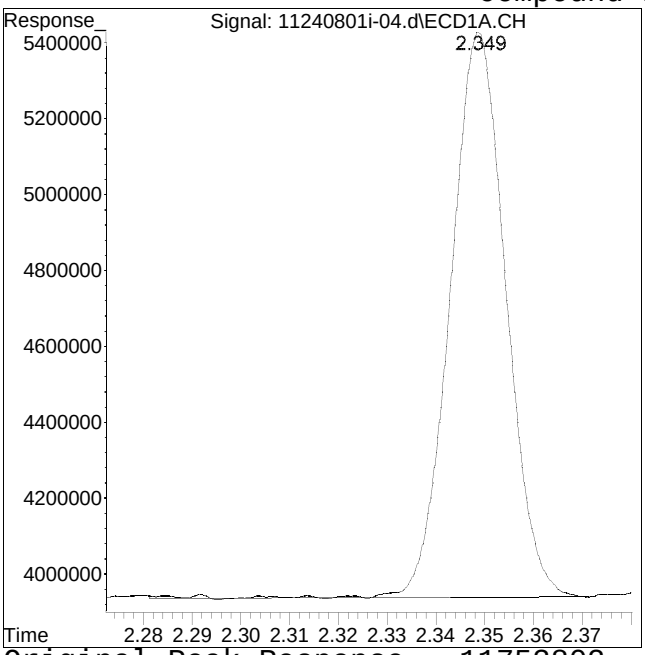
M4 = Poor automated baseline construction.

Manual Integration Report

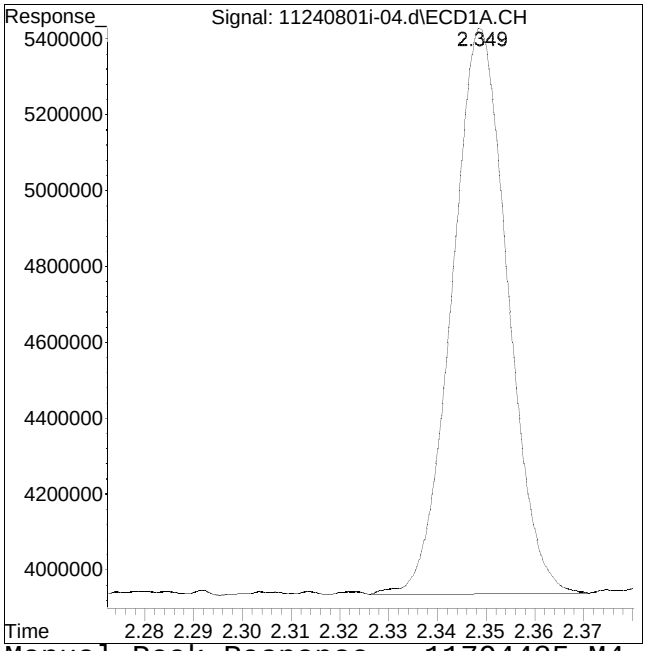
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #7: delta-BHC



Original Peak Response = 11753802



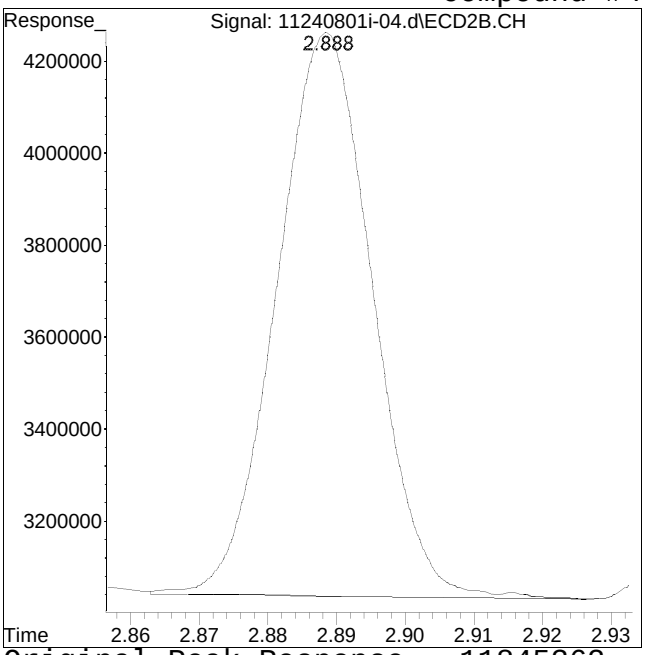
Manual Peak Response = 11794485 M4

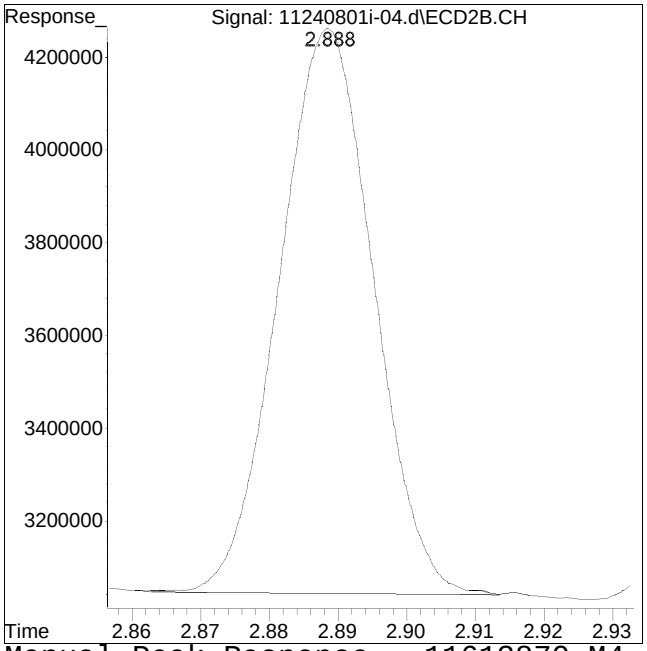
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #45: delta-BHC #2



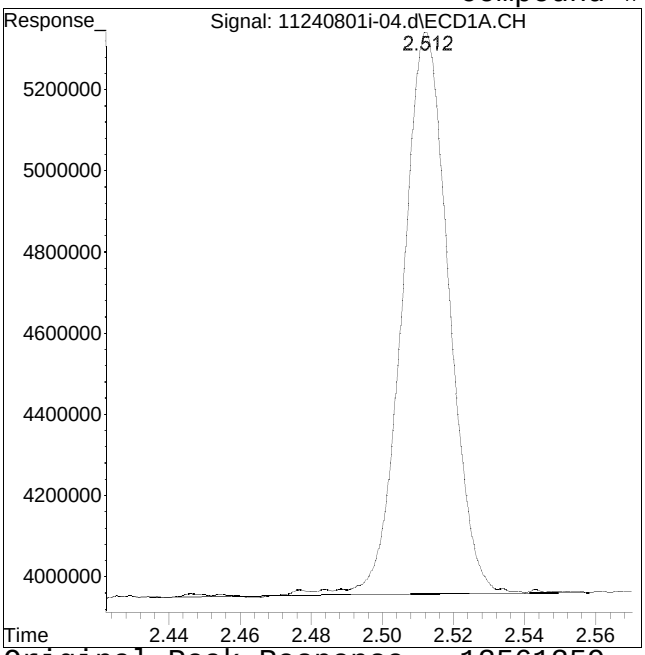


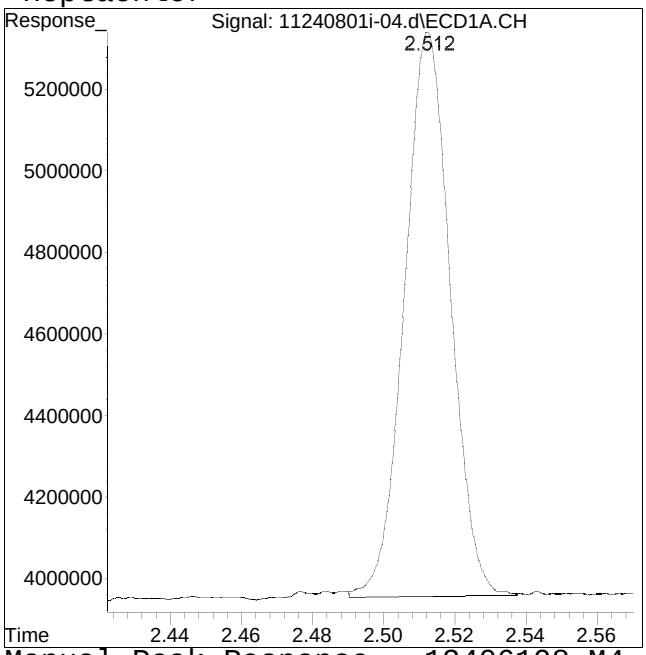
Original Peak Response = 11845362 Manual Peak Response = 11613870 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #8: Heptachlor





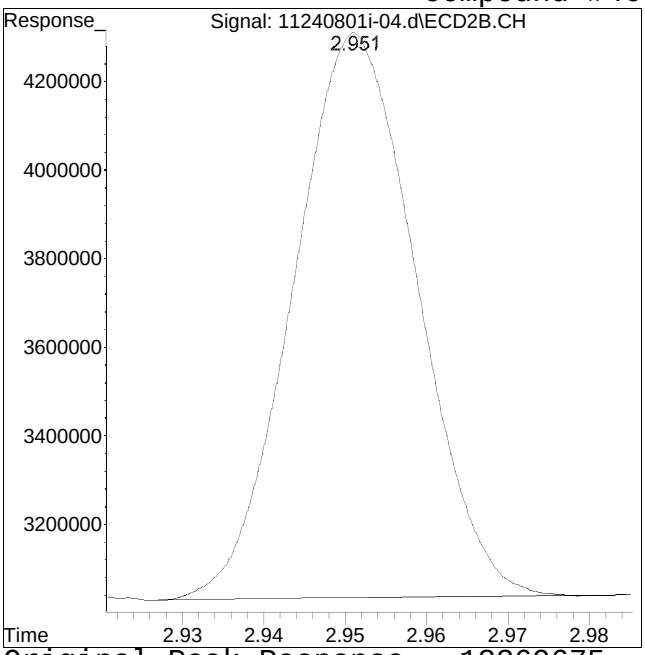
Original Peak Response = 12561259 Manual Peak Response = 12406198 M4
M4 = Poor automated baseline construction.

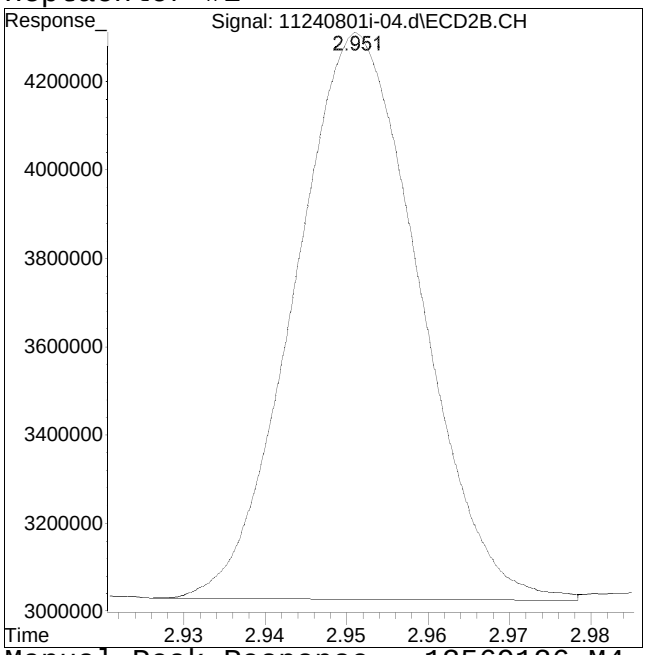
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #46: Heptachlor #2





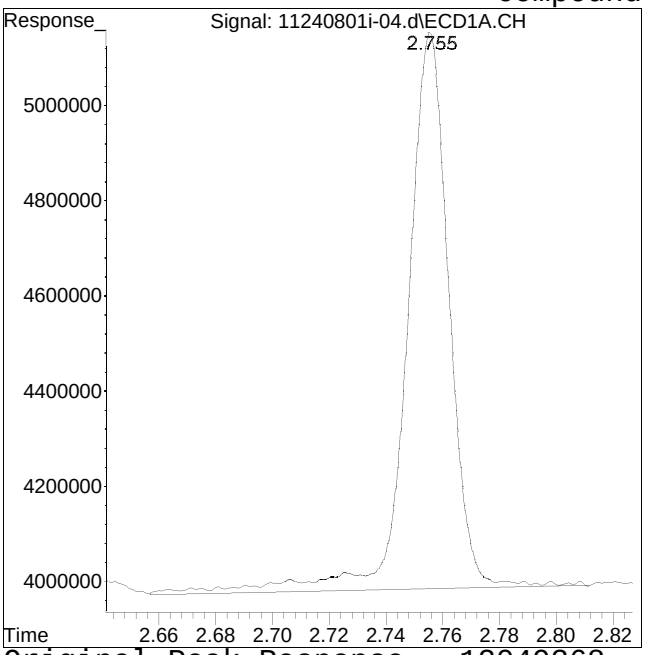
Original Peak Response = 13369675 Manual Peak Response = 13569126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

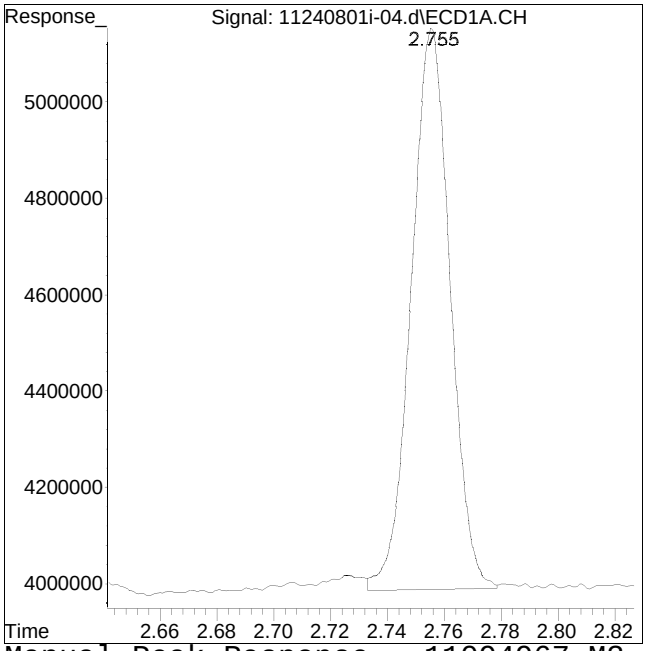
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #9: Aldrin



Original Peak Response = 12049368



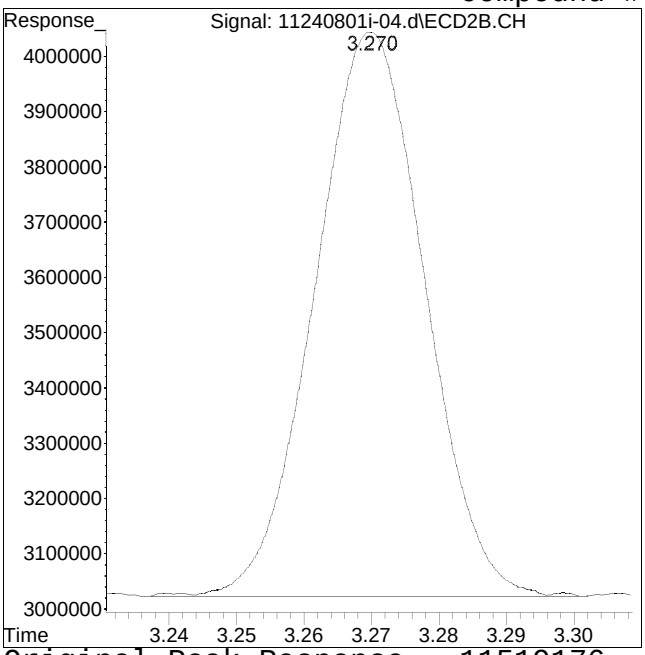
Manual Peak Response = 11094967 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

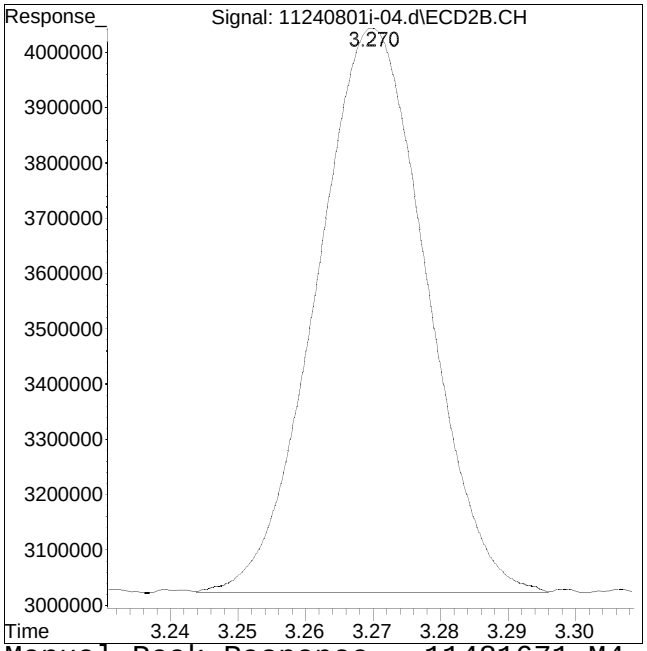
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #47: Aldrin #2



Original Peak Response = 11519176



Manual Peak Response = 11481671 M4

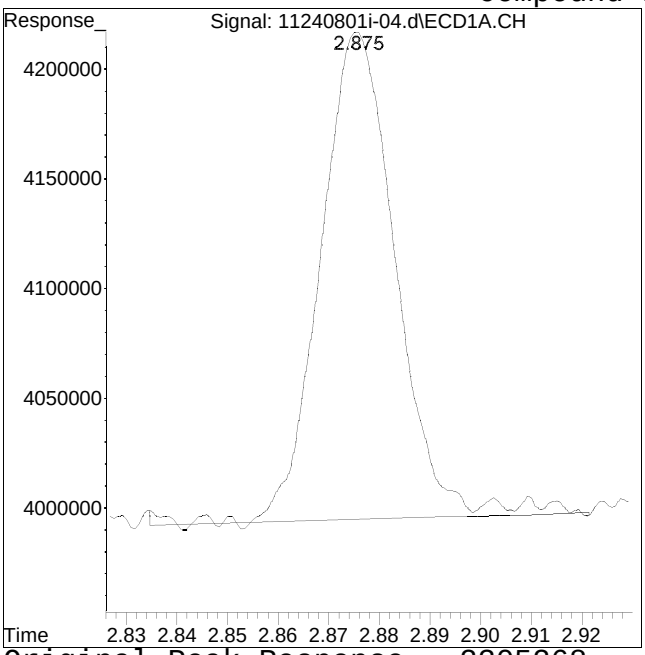
M4 = Poor automated baseline construction.

Manual Integration Report

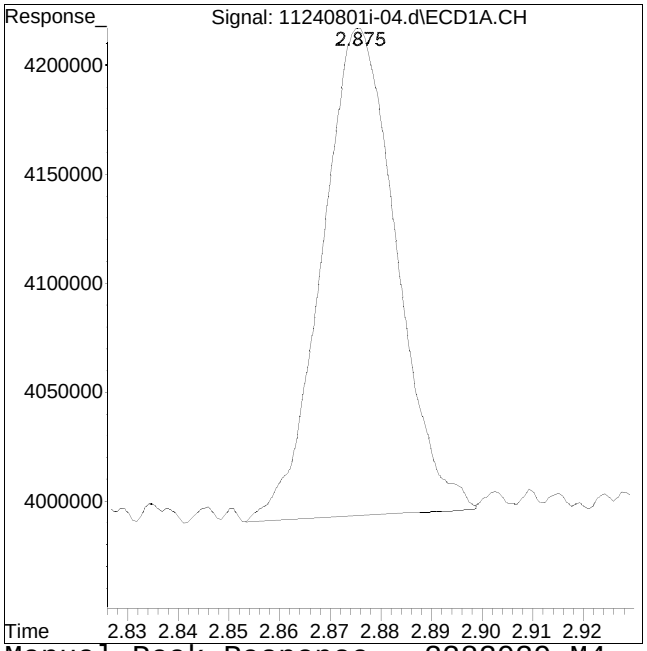
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #10: Alachlor



Original Peak Response = 2305268



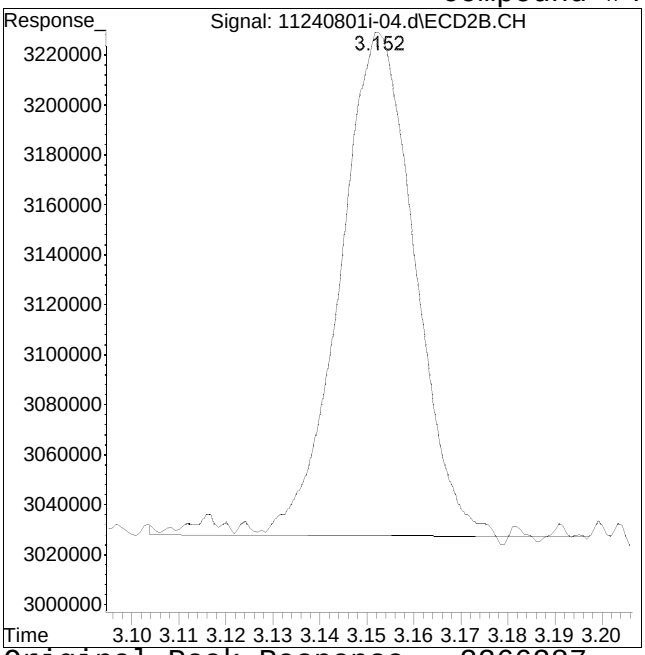
Manual Peak Response = 2283039 M4

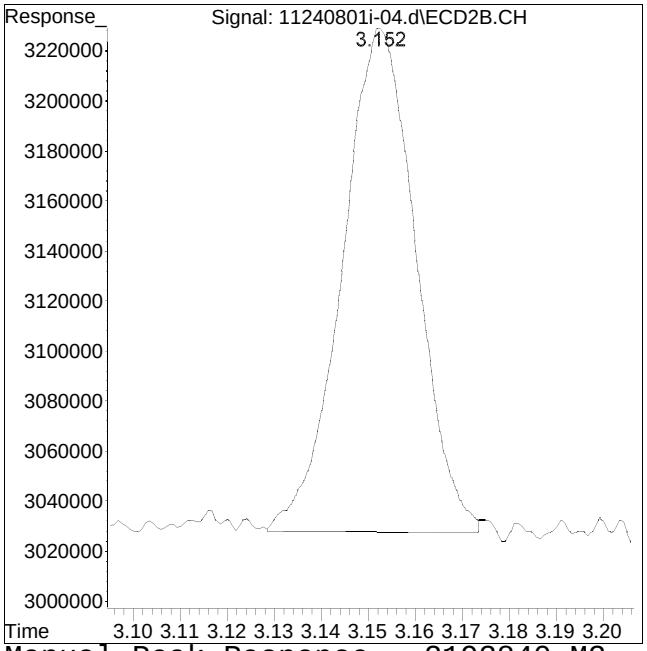
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #48: Alachlor #2



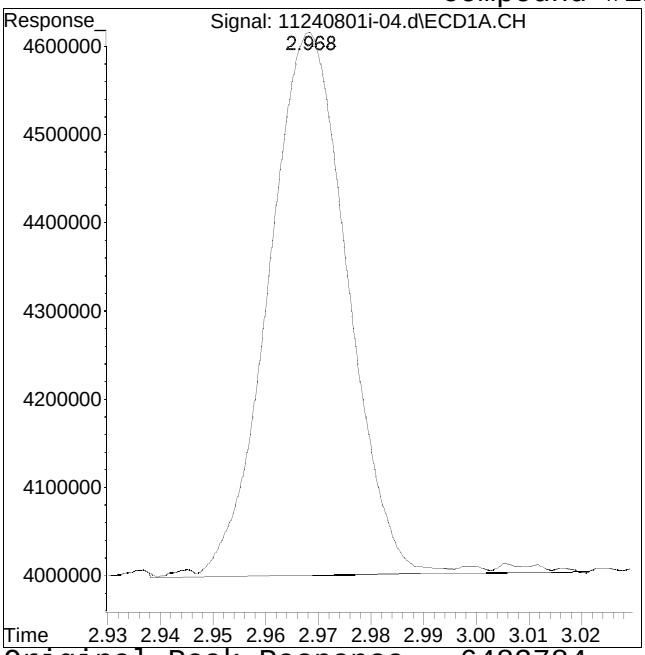


Original Peak Response = 2266287 Manual Peak Response = 2193840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

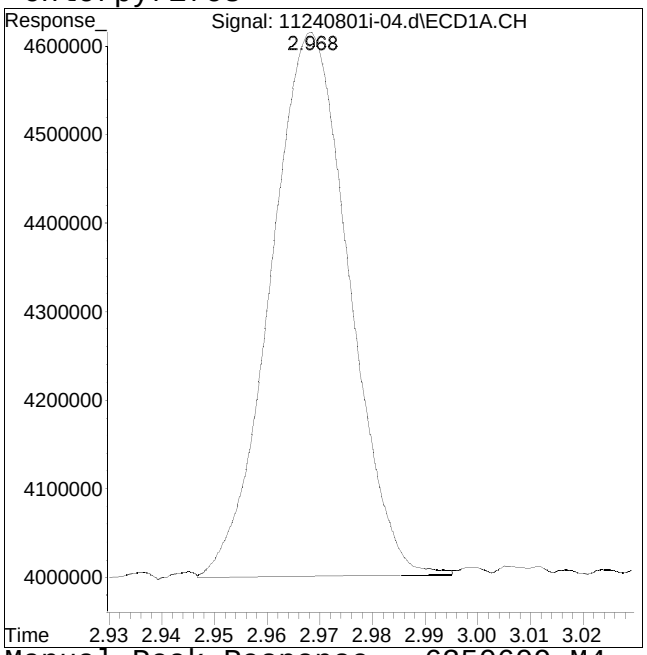
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #11: Chlorpyrifos



Original Peak Response = 6483784



Manual Peak Response = 6350609 M4

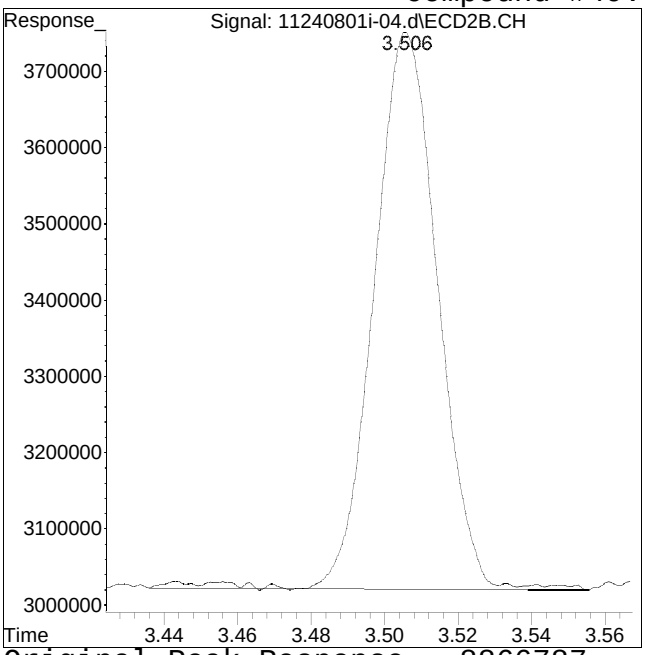
M4 = Poor automated baseline construction.

Manual Integration Report

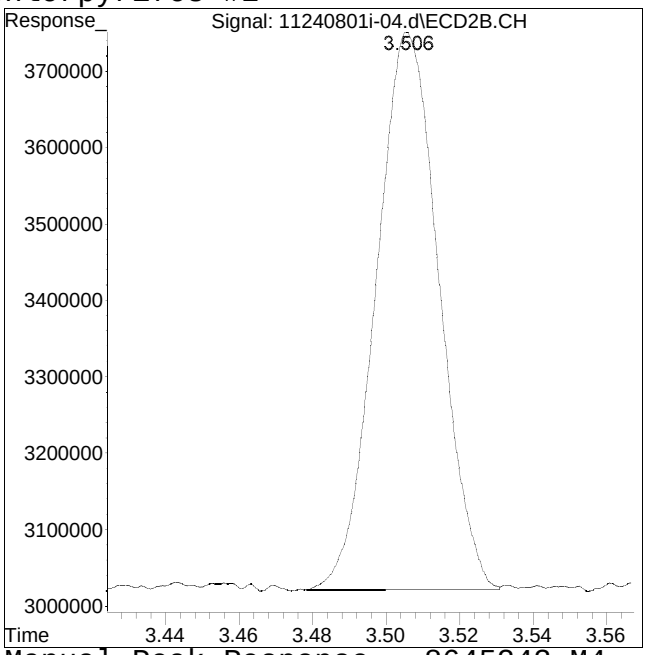
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8866787



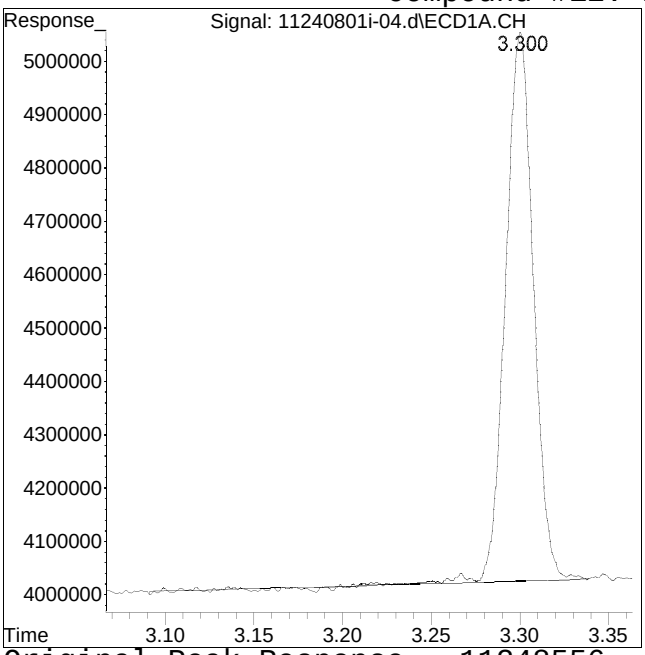
Manual Peak Response = 8645243 M4

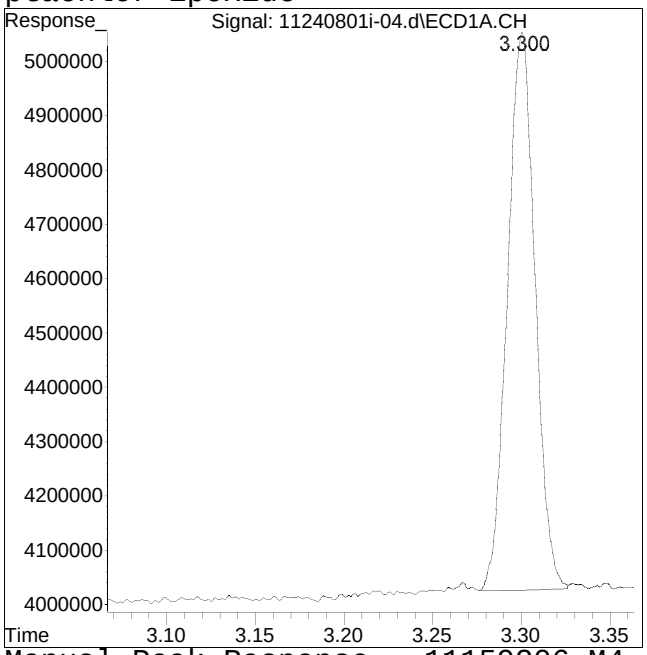
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #12: Heptachlor Epoxide





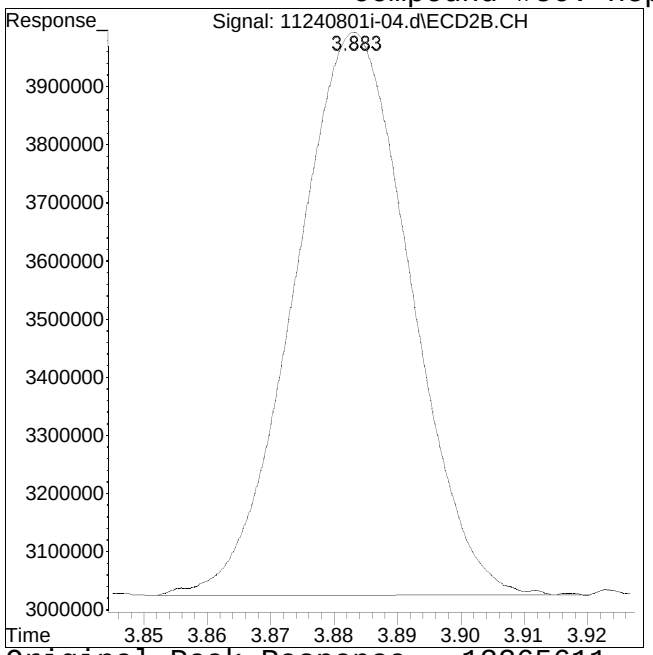
Original Peak Response = 11248556 Manual Peak Response = 11159206 M4
M4 = Poor automated baseline construction.

Manual Integration Report

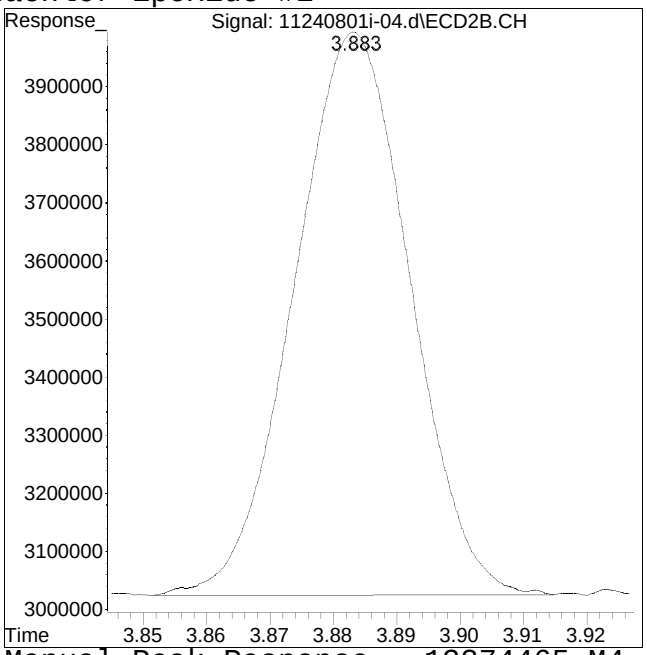
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 12265611



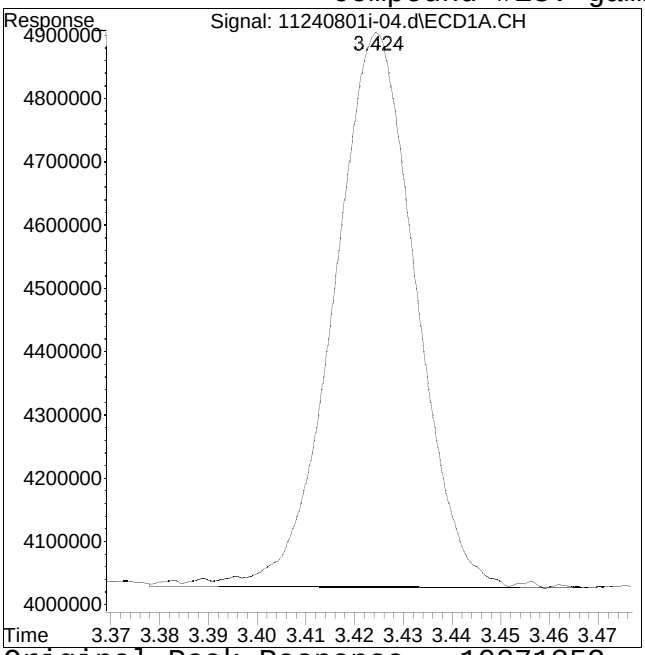
Manual Peak Response = 12274465 M4

M4 = Poor automated baseline construction.

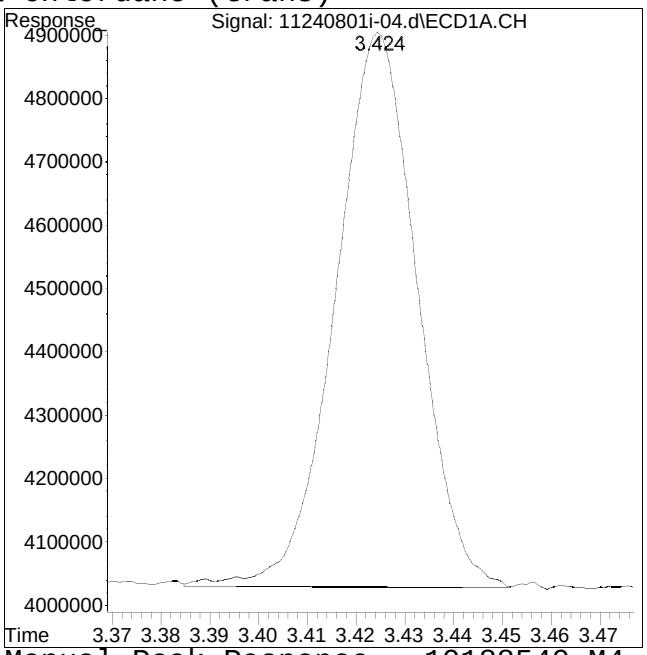
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 10271352



Manual Peak Response = 10188540 M4

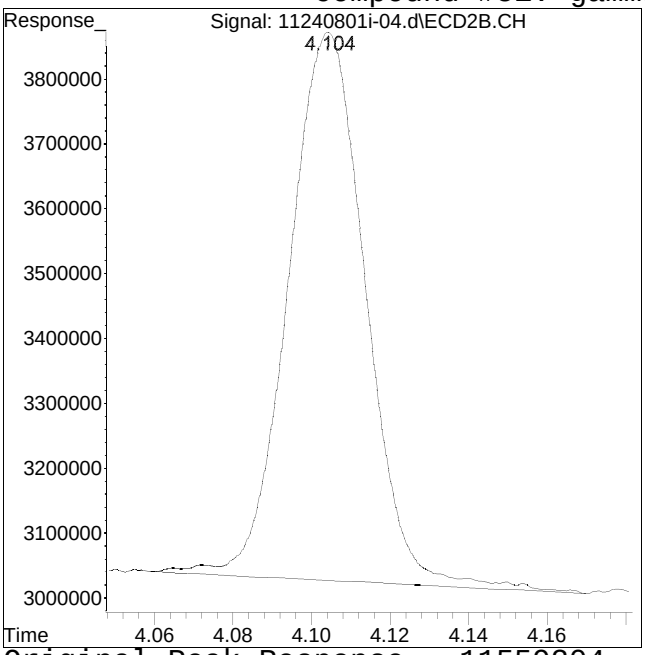
M4 = Poor automated baseline construction.

Manual Integration Report

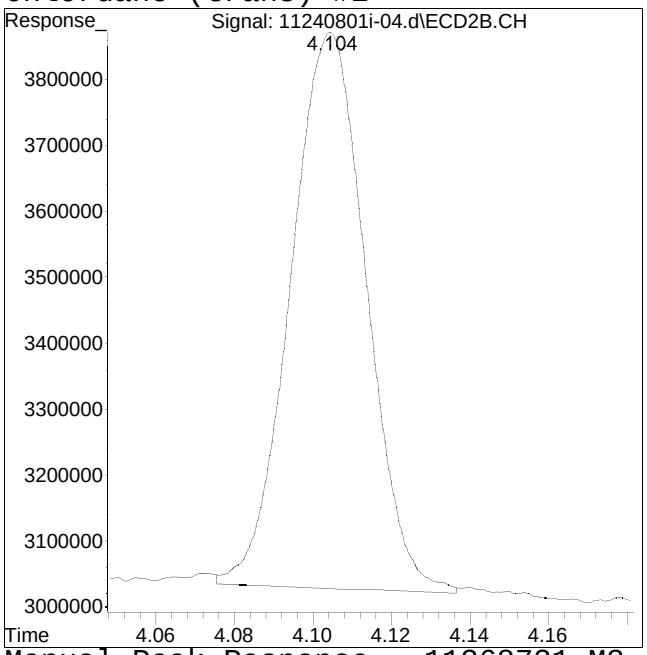
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 11559204



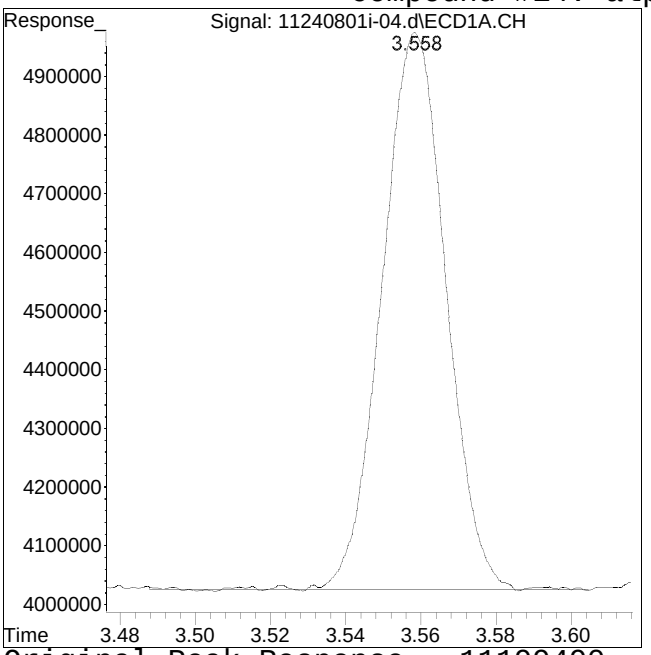
Manual Peak Response = 11268731 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

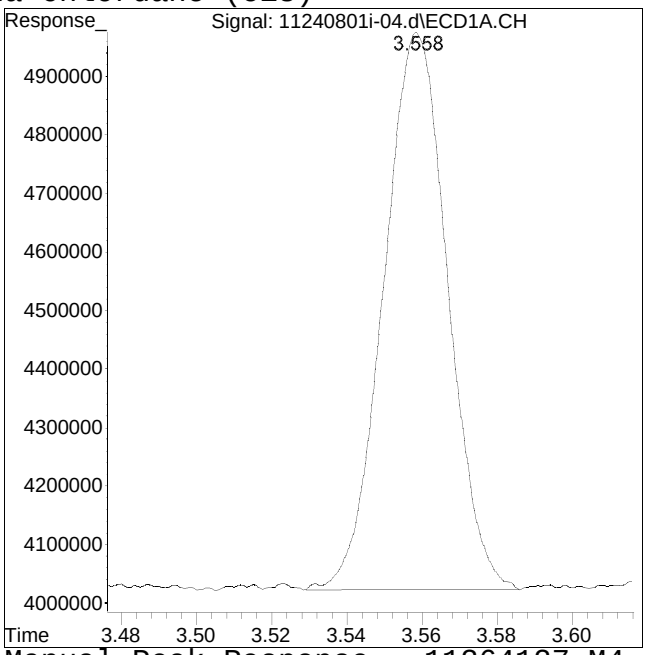
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11199490



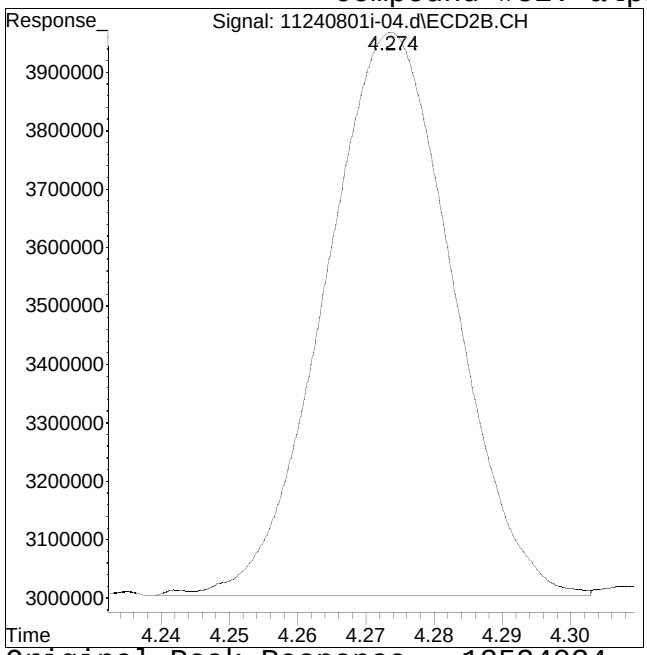
Manual Peak Response = 11264127 M4

M4 = Poor automated baseline construction.

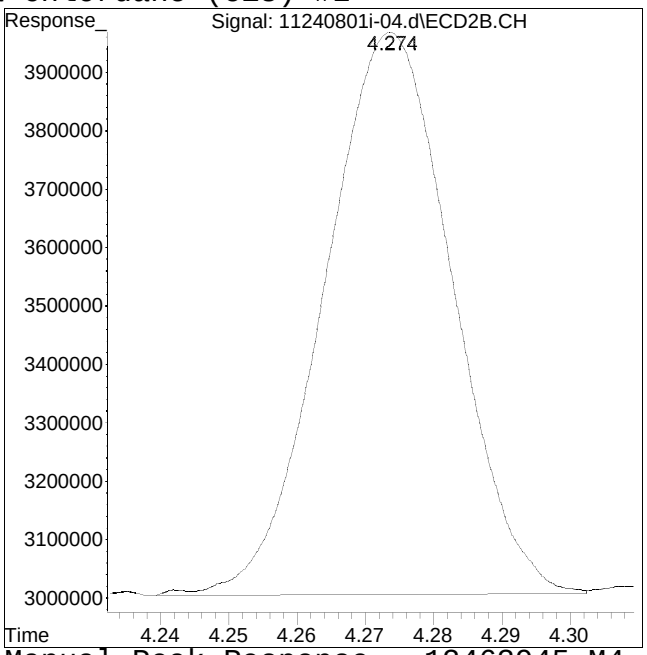
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 12524034



Manual Peak Response = 12463945 M4

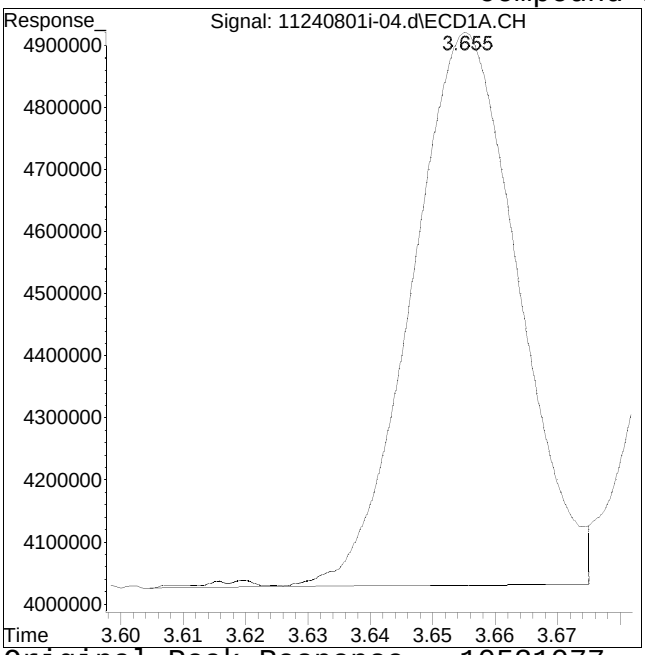
M4 = Poor automated baseline construction.

Manual Integration Report

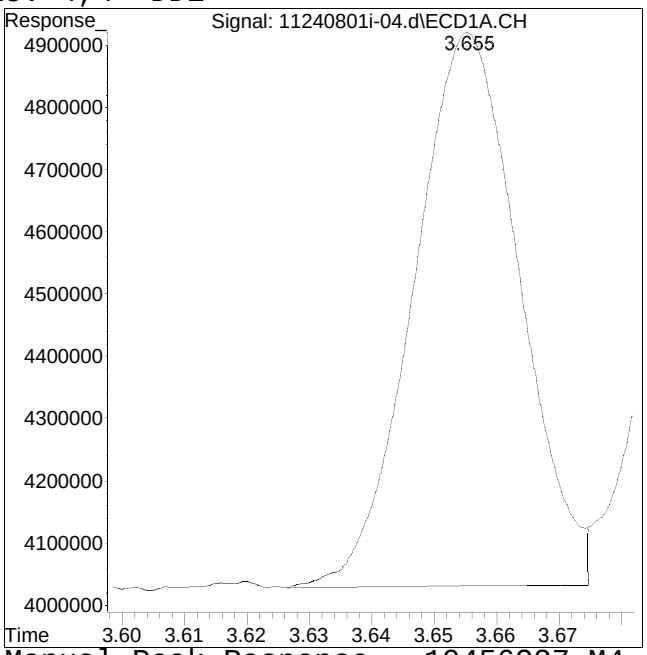
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #15: 4,4'-DDE



Original Peak Response = 10531077



Manual Peak Response = 10456227 M4

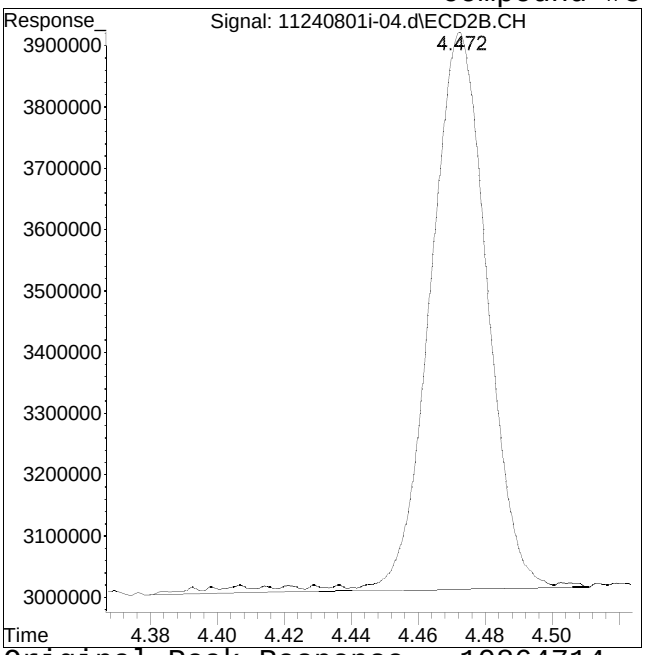
M4 = Poor automated baseline construction.

Manual Integration Report

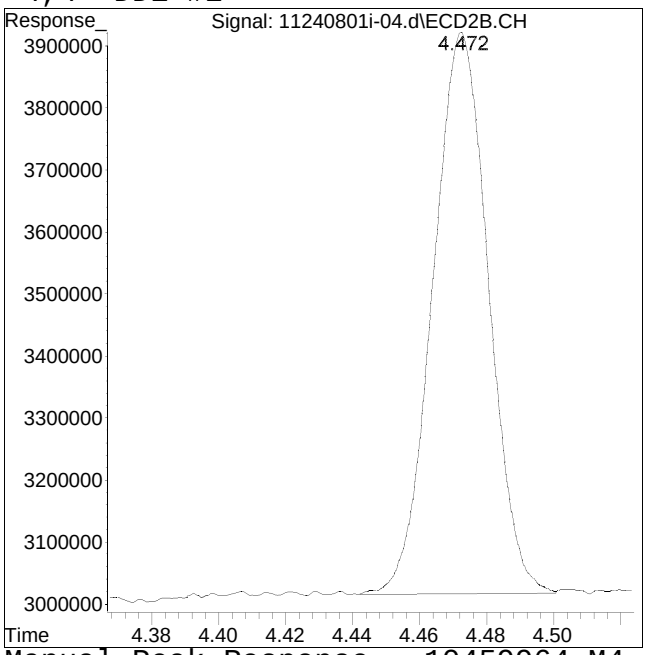
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 10864714



Manual Peak Response = 10459964 M4

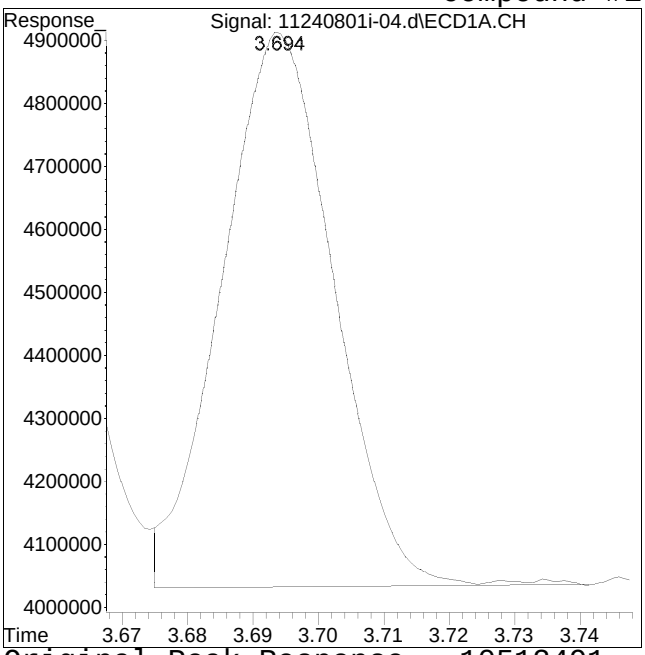
M4 = Poor automated baseline construction.

Manual Integration Report

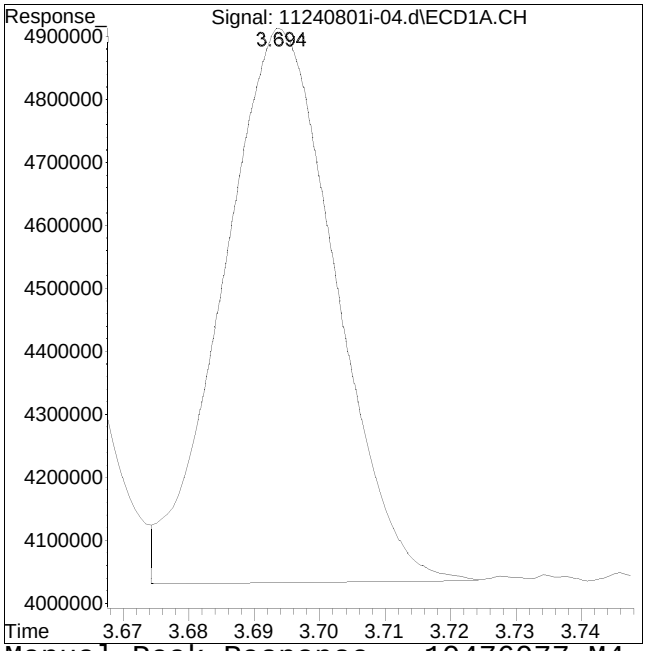
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #16: Endosulfan I



Original Peak Response = 10512491



Manual Peak Response = 10476077 M4

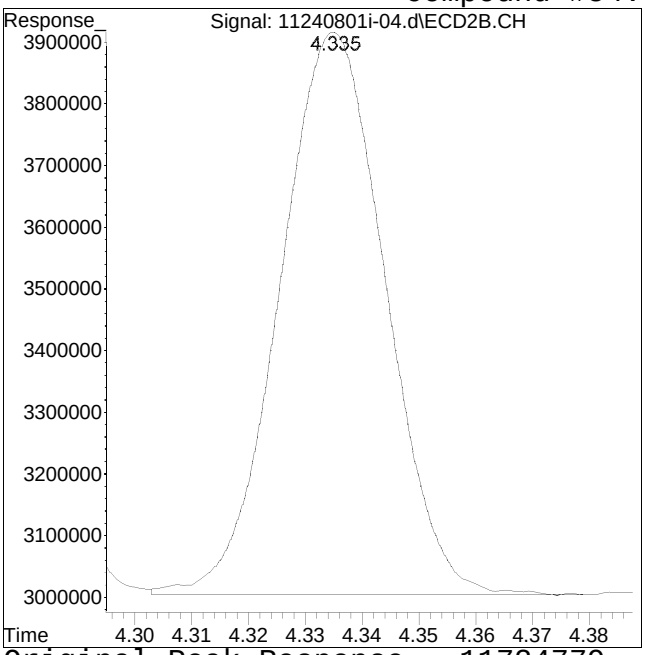
M4 = Poor automated baseline construction.

Manual Integration Report

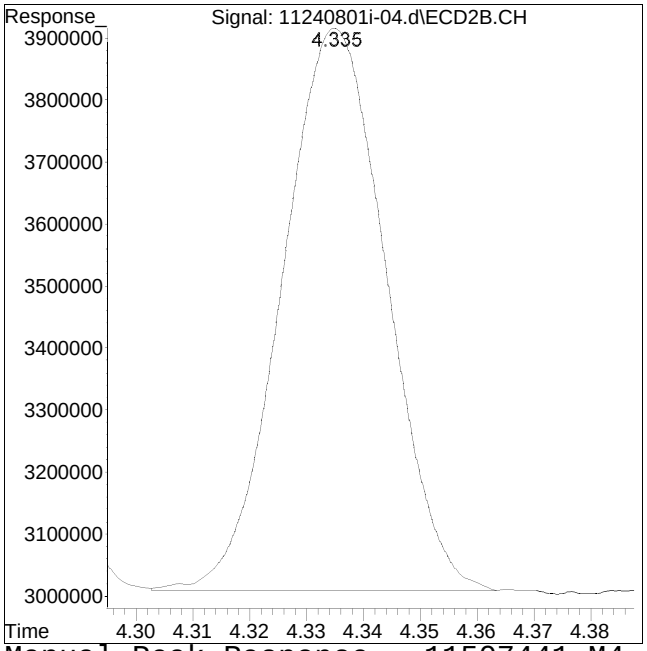
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #54: Endosulfan I #2



Original Peak Response = 11724779



Manual Peak Response = 11507441 M4

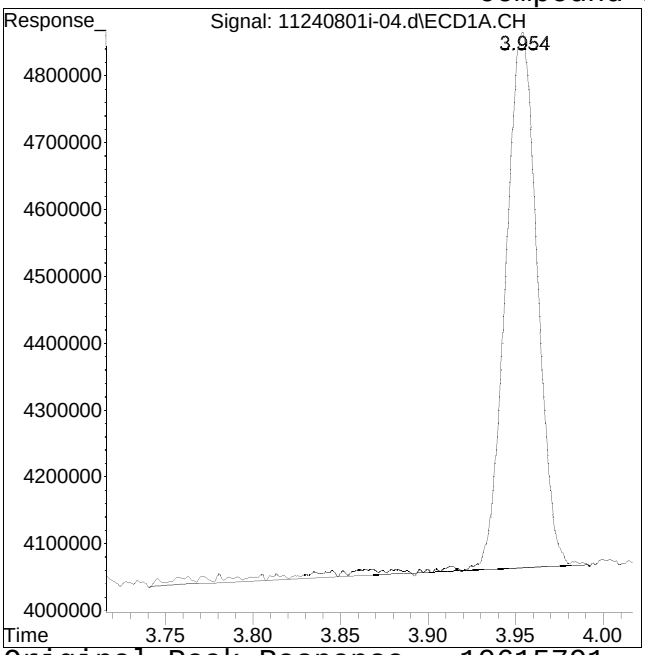
M4 = Poor automated baseline construction.

Manual Integration Report

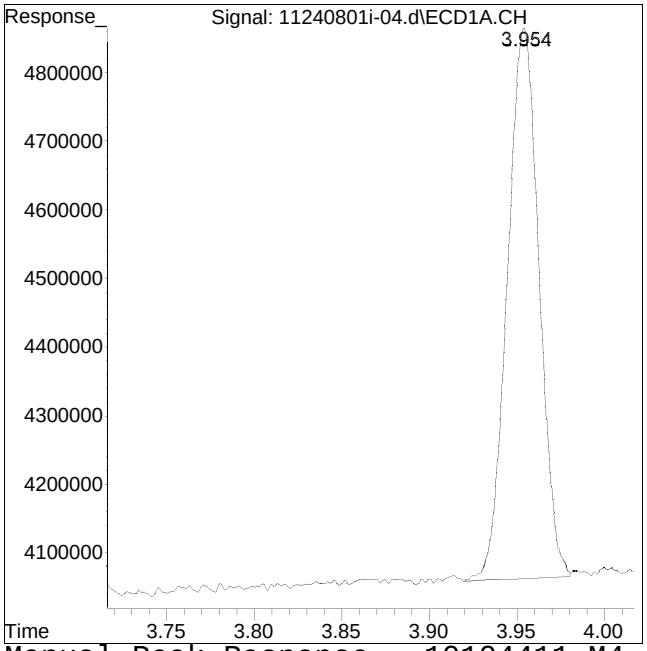
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #17: Dieldrin



Original Peak Response = 10615791



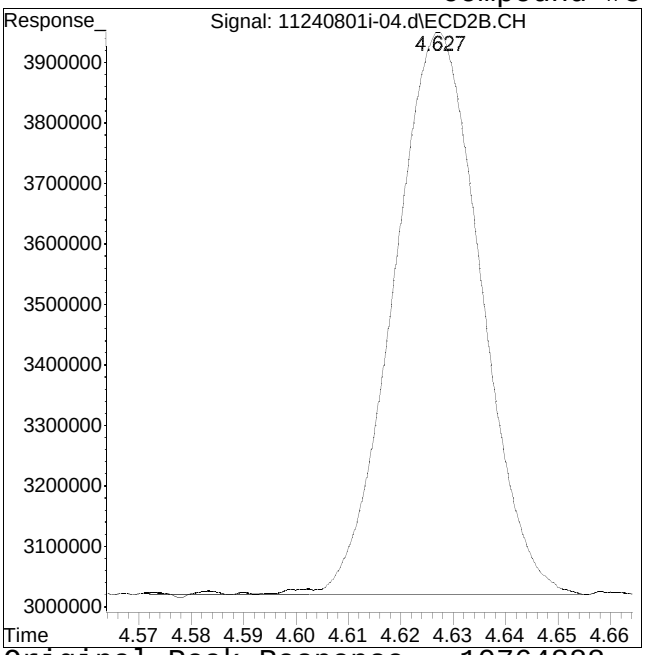
Manual Peak Response = 10104411 M4

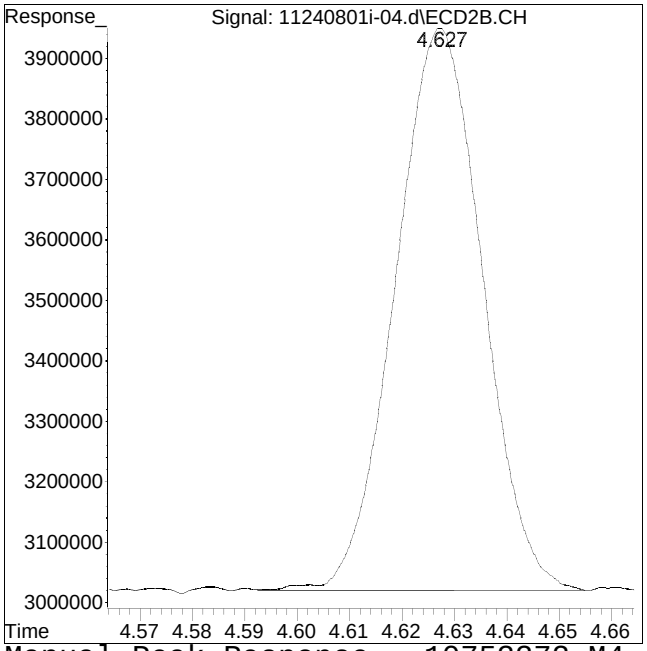
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #55: Dieldrin #2



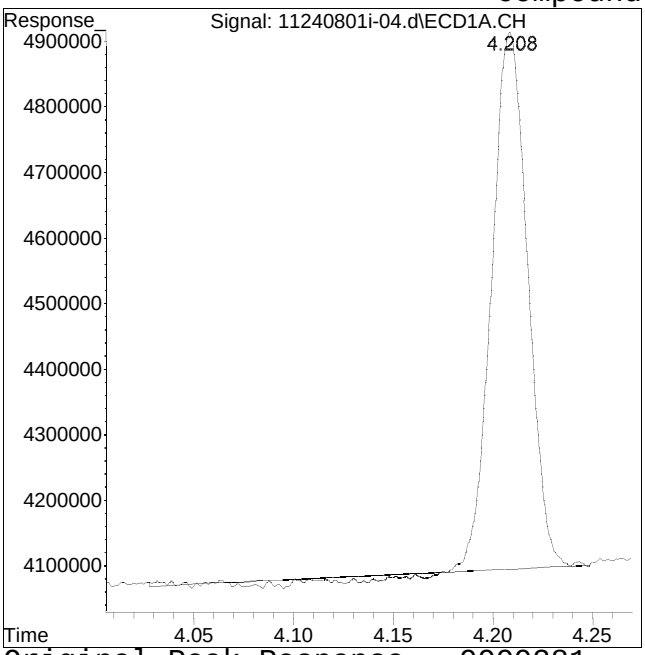


Original Peak Response = 10764888 Manual Peak Response = 10753372 M4
M4 = Poor automated baseline construction.

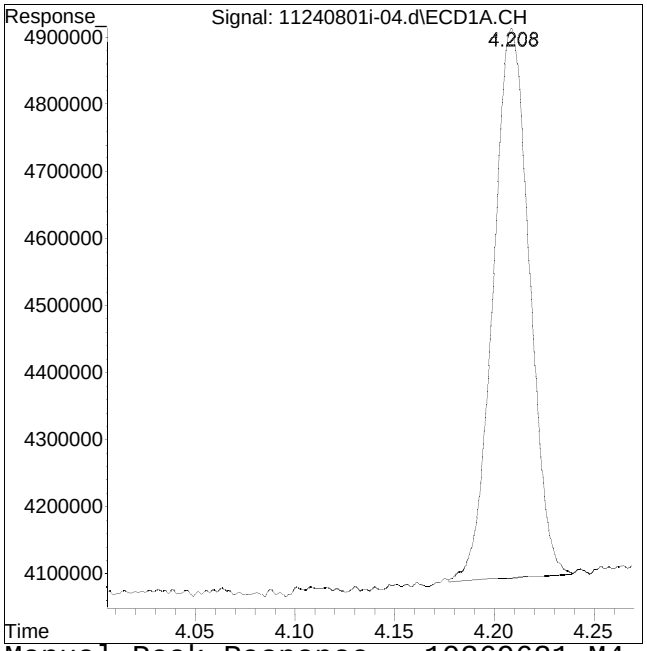
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #18: Endrin



Original Peak Response = 9999281



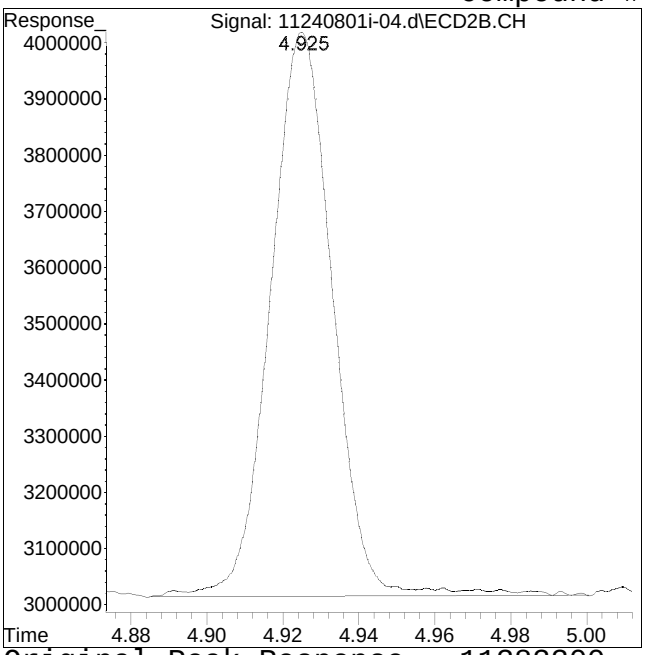
Manual Peak Response = 10369621 M4

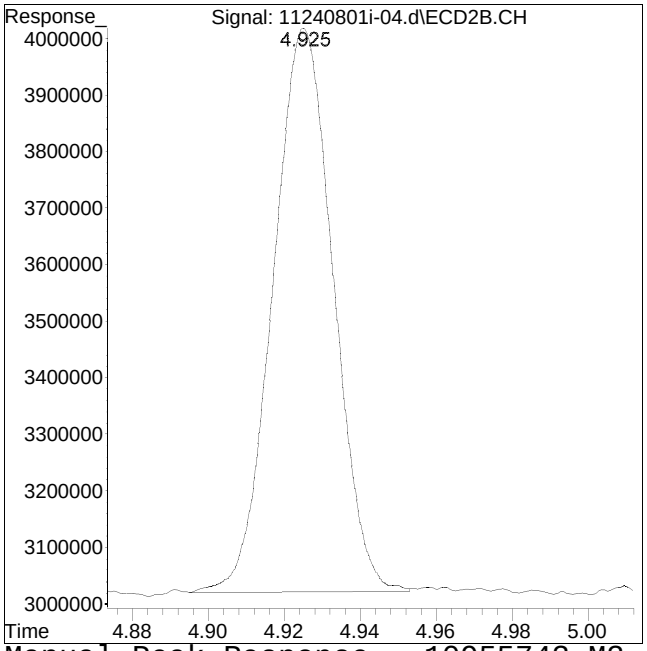
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #56: Endrin #2





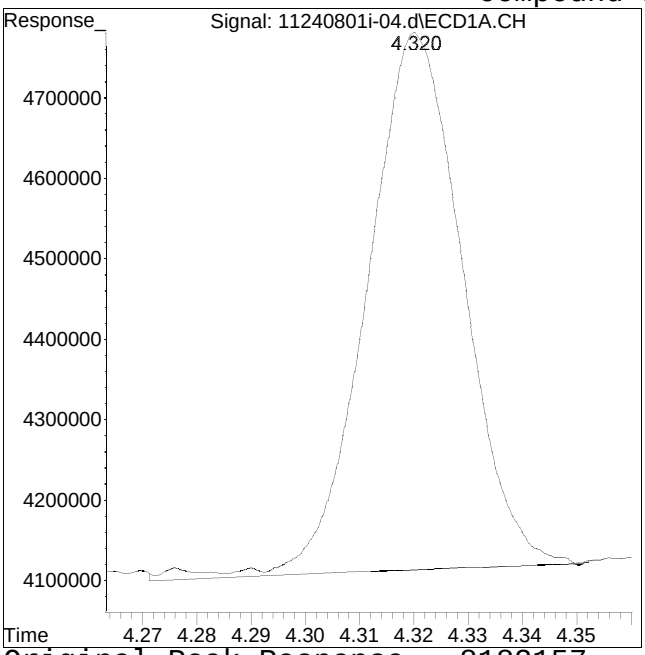
Original Peak Response = 11383300 Manual Peak Response = 10955743 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

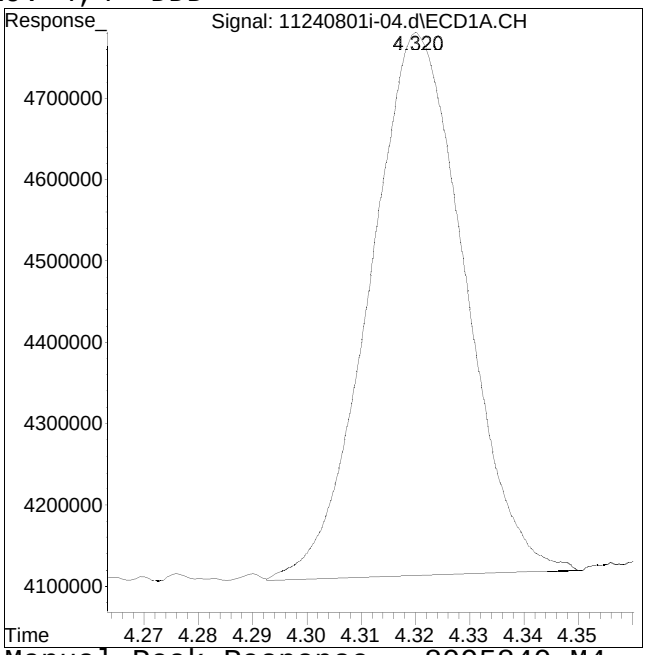
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #19: 4,4'-DDD



Original Peak Response = 8182157



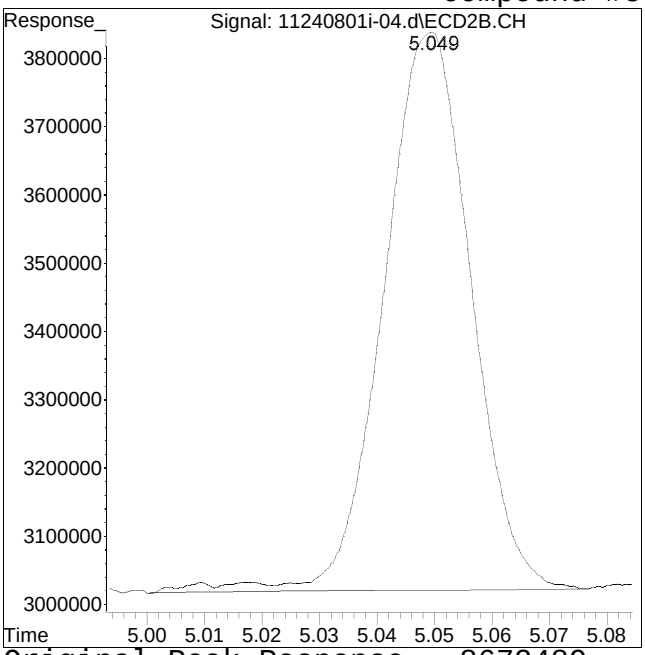
Manual Peak Response = 8095840 M4

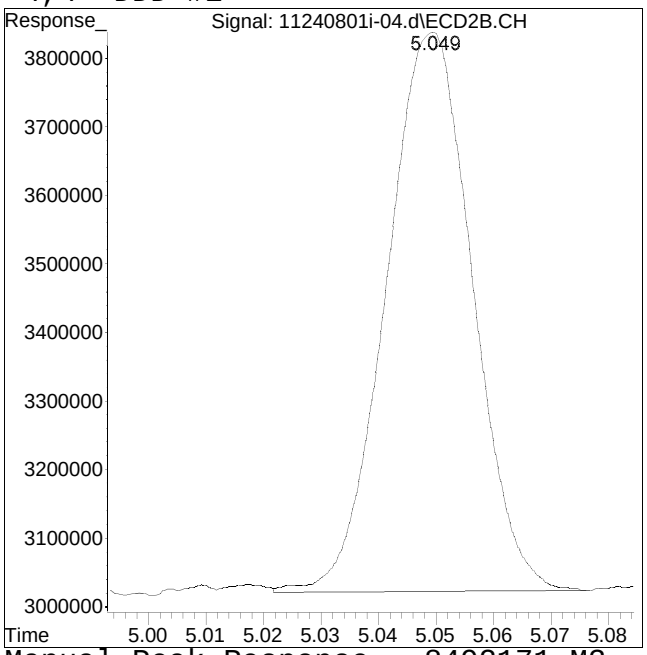
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #57: 4,4'-DDD #2





Original Peak Response = 8672489 Manual Peak Response = 8492171 M3

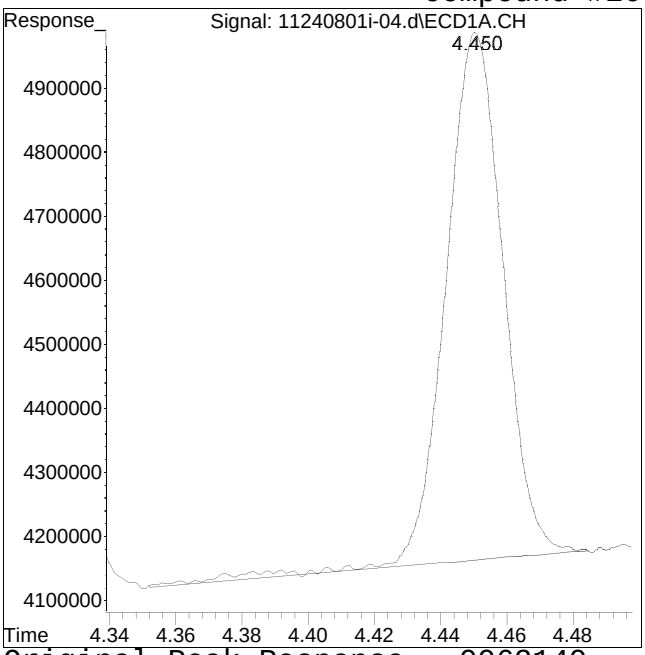
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

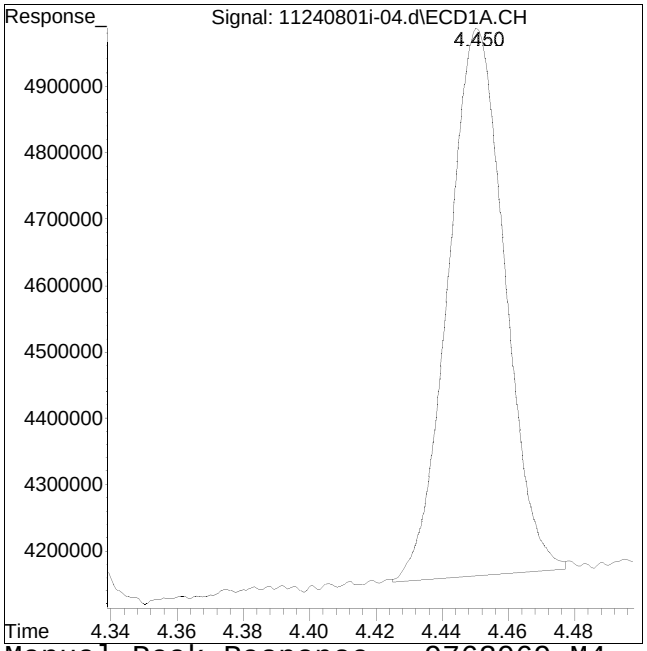
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #20: Endosulfan II



Original Peak Response = 9962149



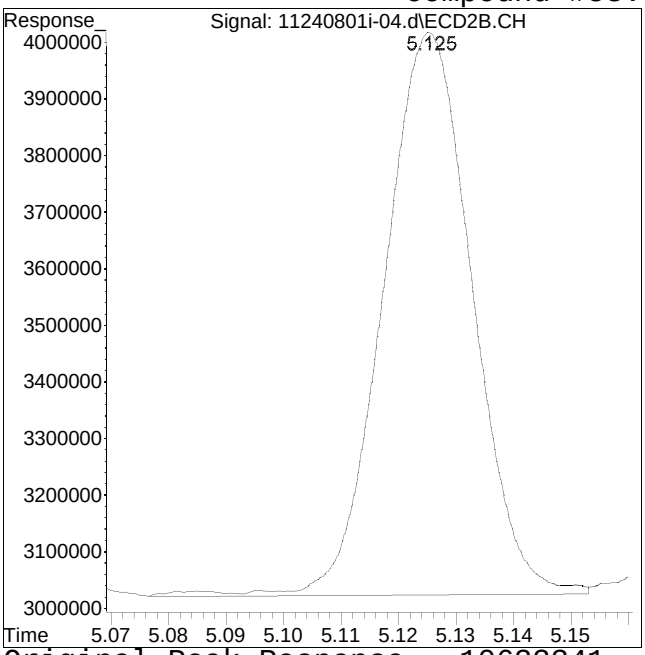
Manual Peak Response = 9763069 M4

M4 = Poor automated baseline construction.

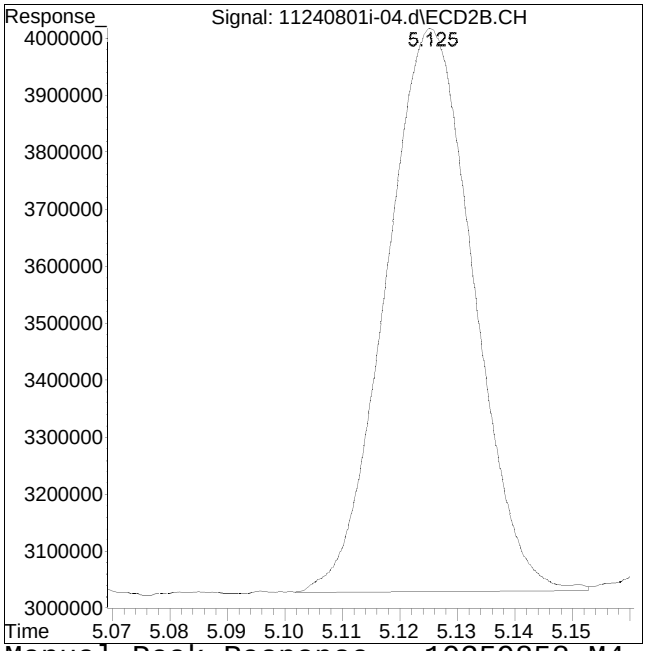
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 10633341



Manual Peak Response = 10359858 M4

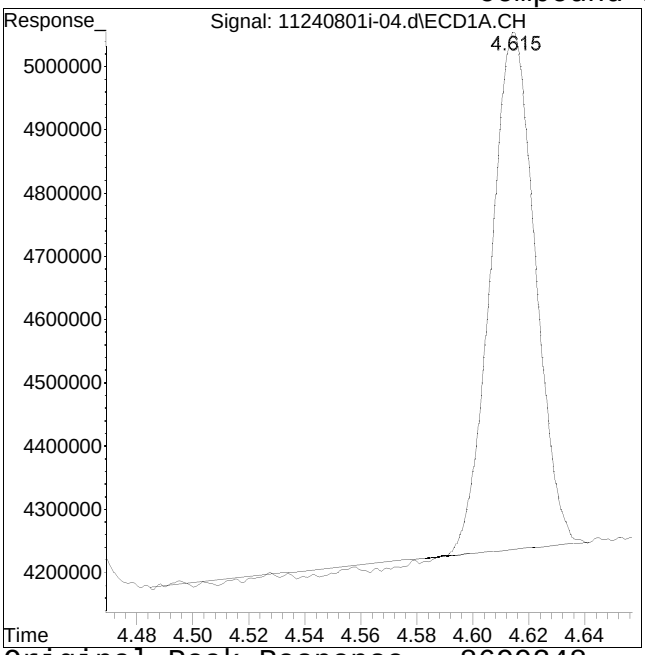
M4 = Poor automated baseline construction.

Manual Integration Report

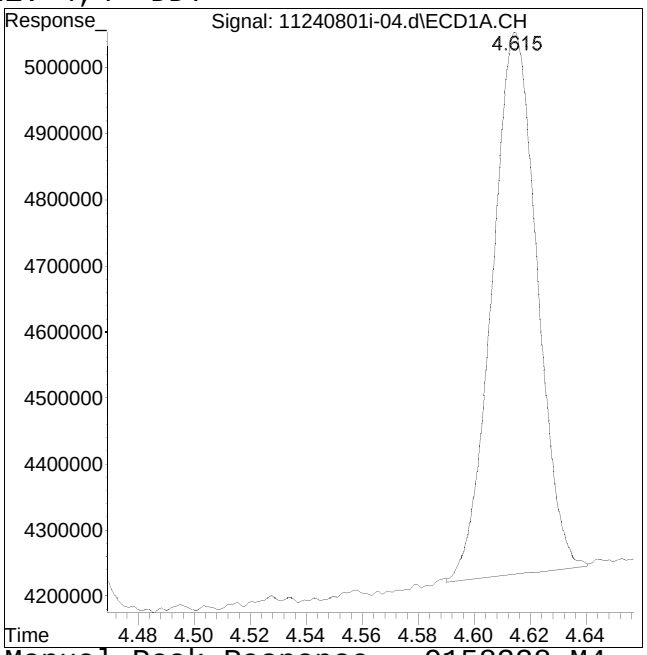
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #21: 4,4'-DDT



Original Peak Response = 8699248



Manual Peak Response = 9158338 M4

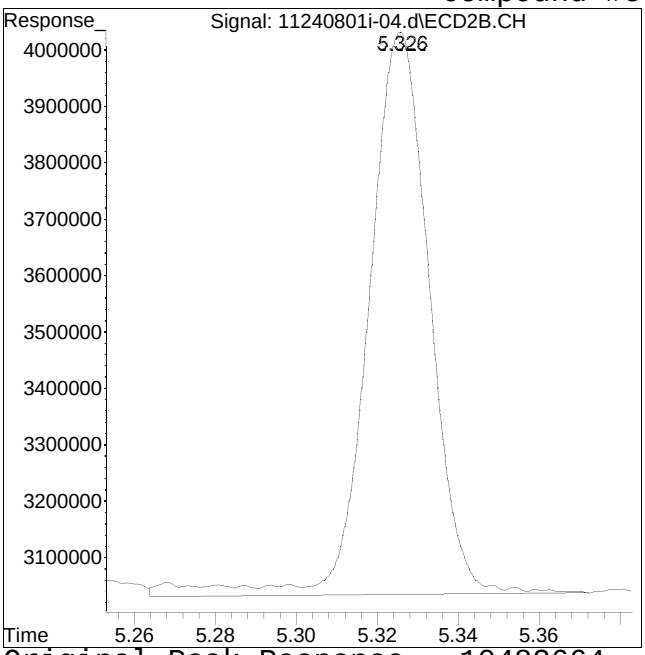
M4 = Poor automated baseline construction.

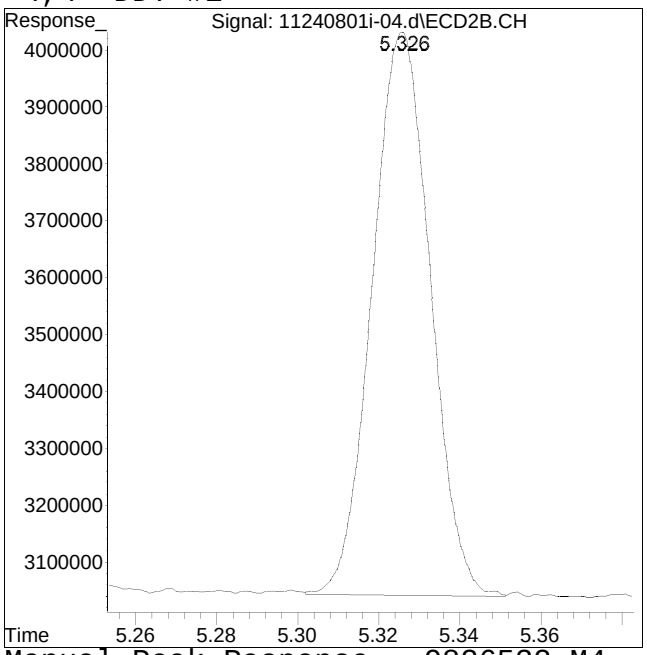
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #59: 4,4'-DDT #2



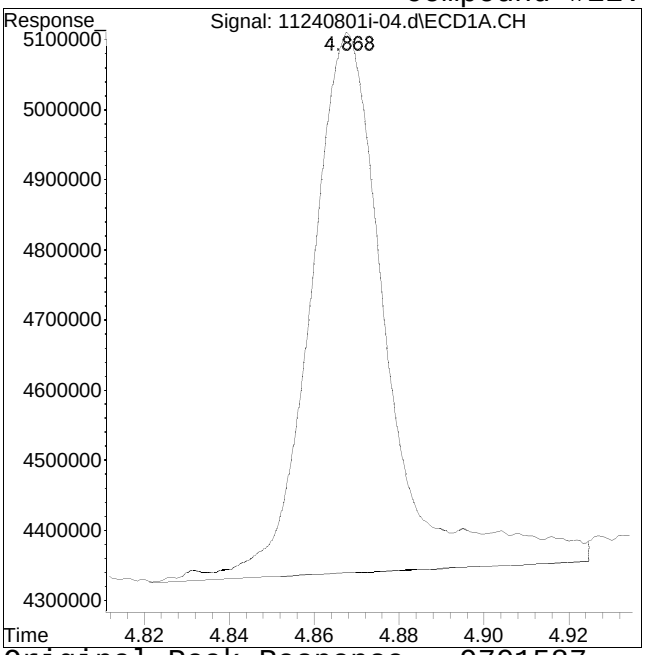


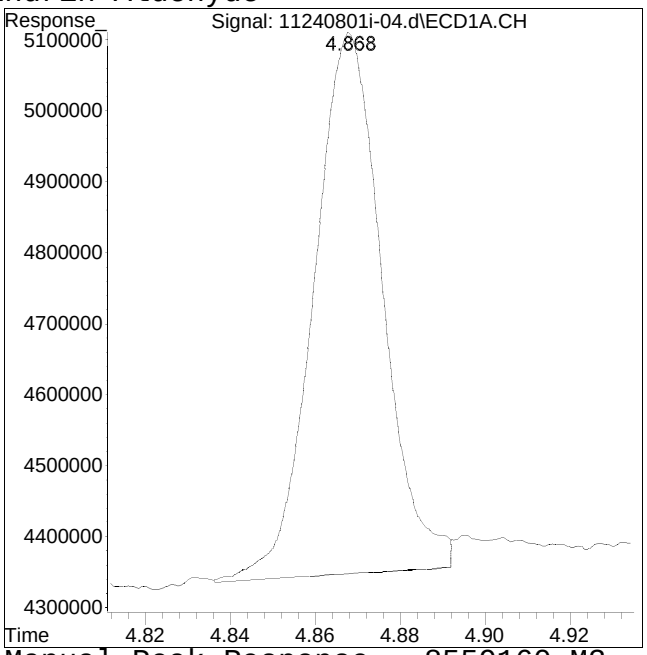
Original Peak Response = 10482664 Manual Peak Response = 9826532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #22: Endrin Aldehyde



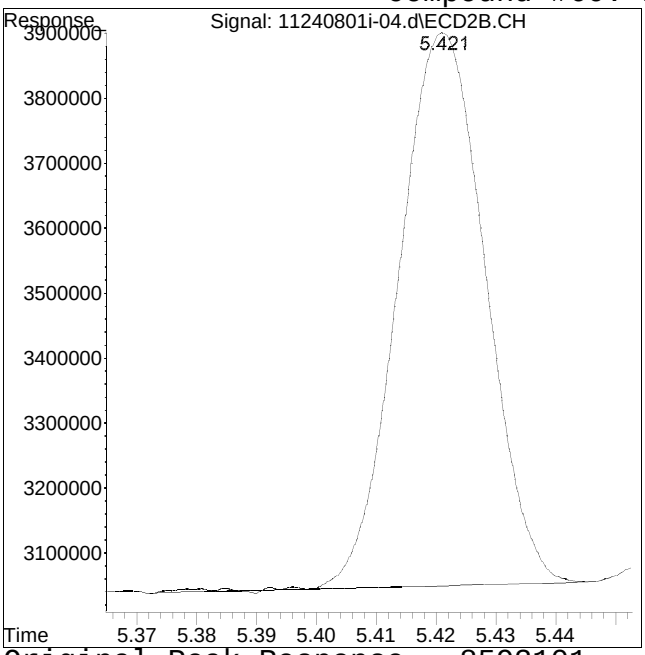


Original Peak Response = 9701587 Manual Peak Response = 8559160 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

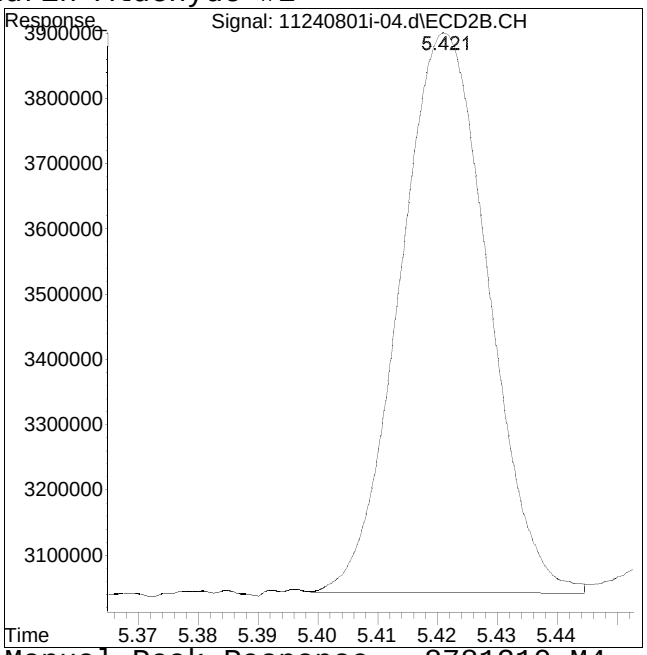
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8593101



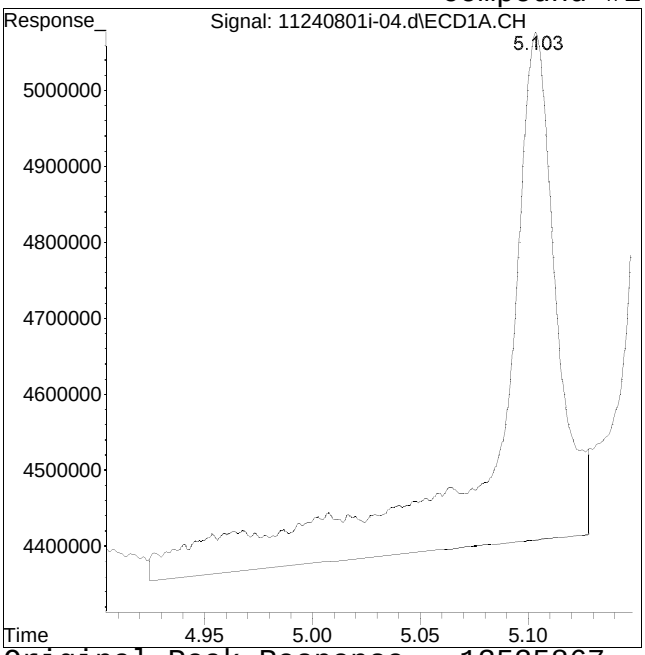
Manual Peak Response = 8781210 M4

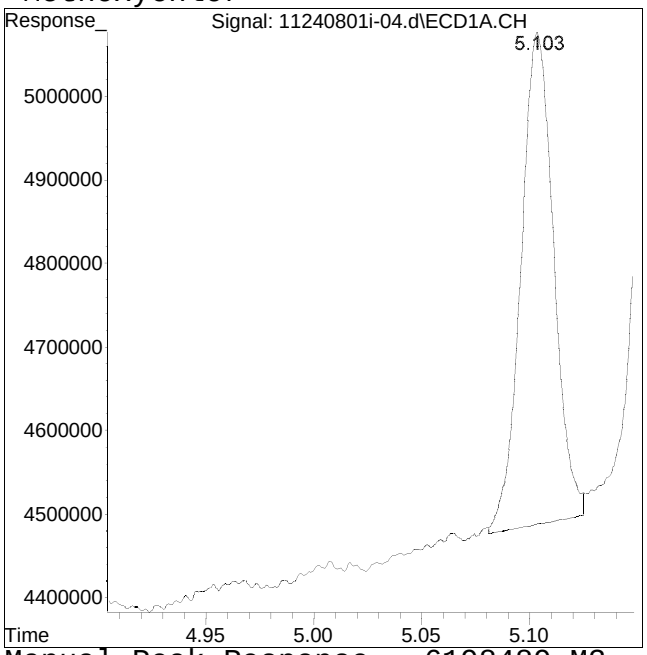
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #23: Methoxychlor





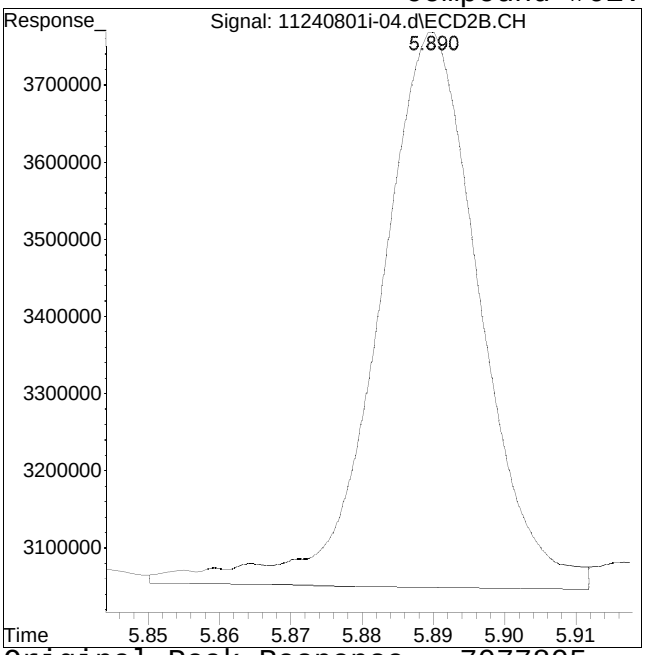
Original Peak Response = 13535867 Manual Peak Response = 6198489 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

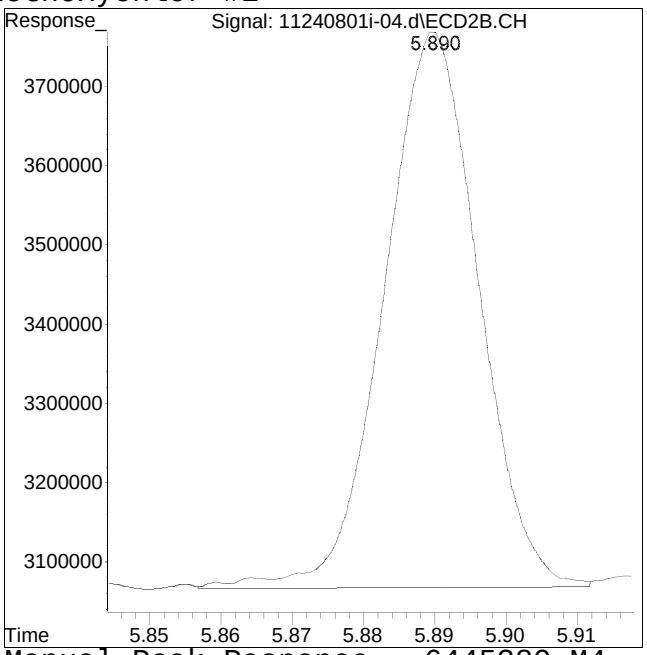
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #61: Methoxychlor #2



Original Peak Response = 7077805



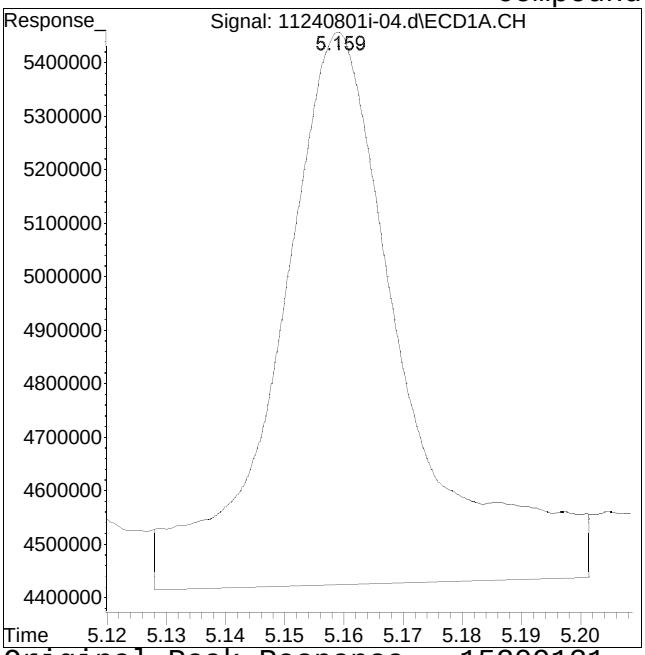
Manual Peak Response = 6445389 M4

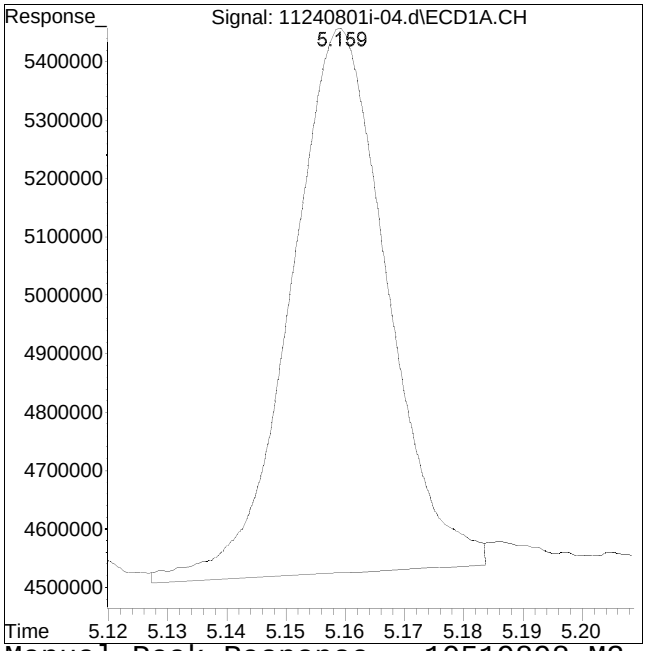
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #24: Mirex





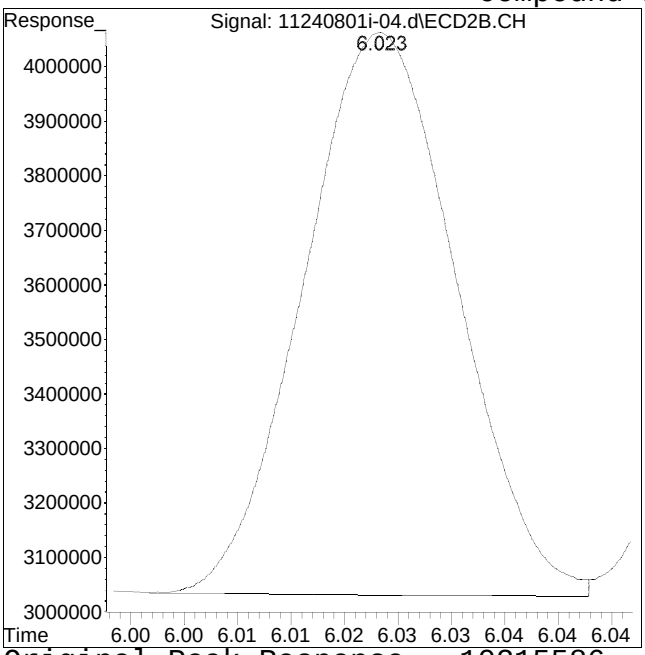
Original Peak Response = 15209131 Manual Peak Response = 10519898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

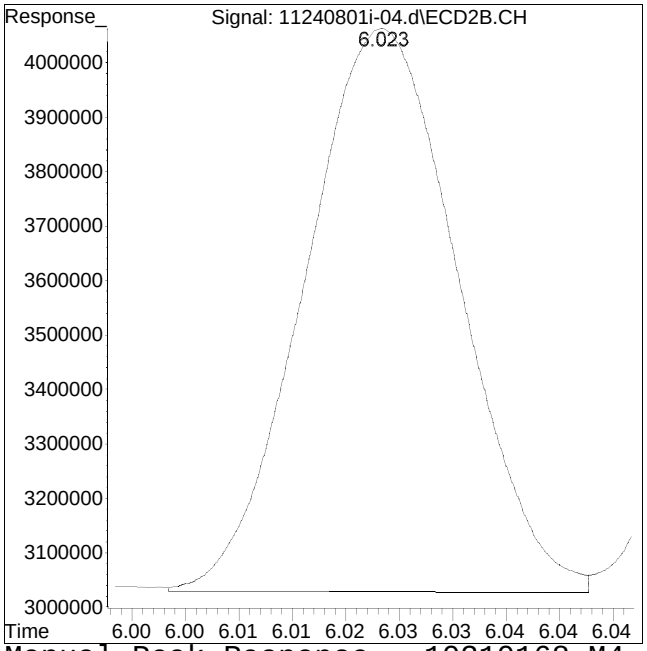
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #62: Mirex #2



Original Peak Response = 10215586



Manual Peak Response = 10310168 M4

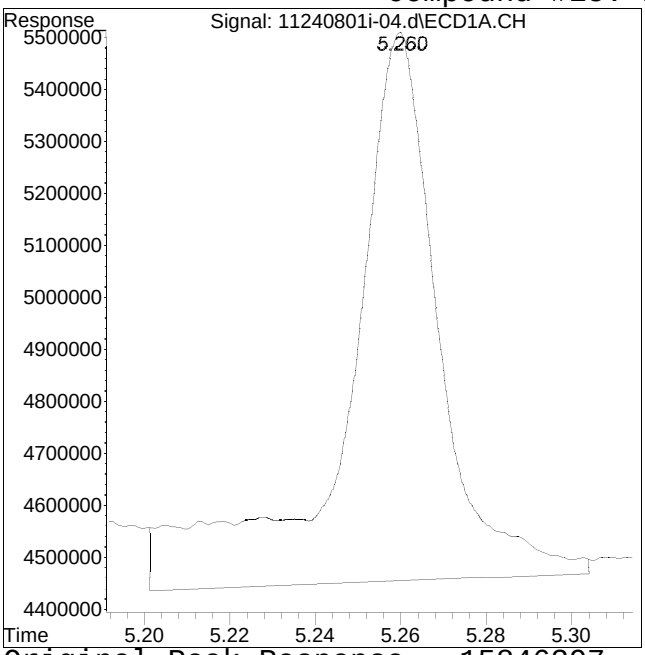
M4 = Poor automated baseline construction.

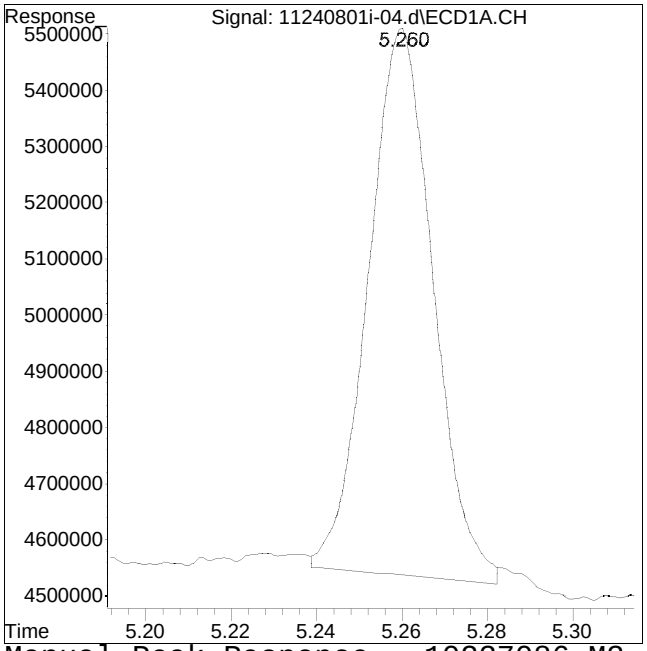
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 15846397 Manual Peak Response = 10237086 M3

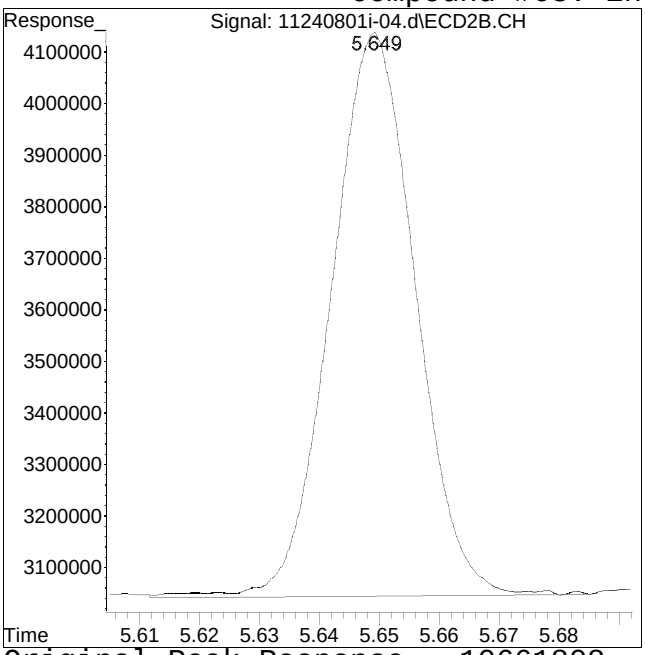
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

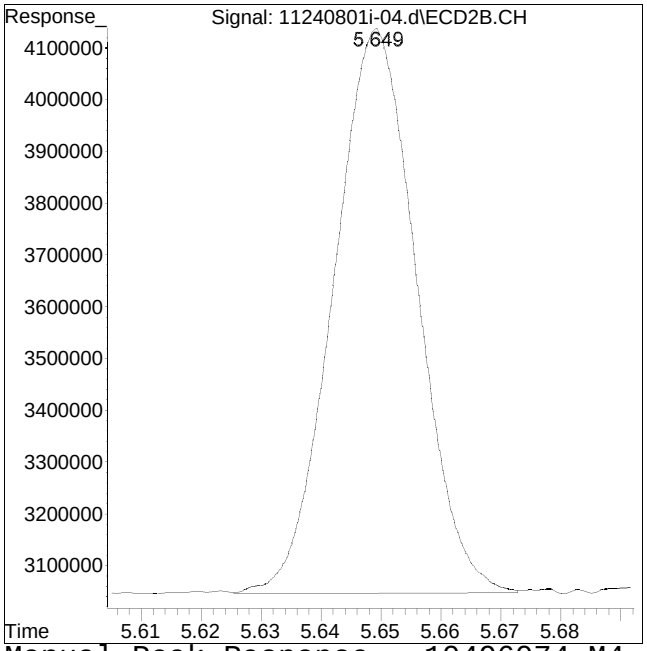
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 10661808



Manual Peak Response = 10496074 M4

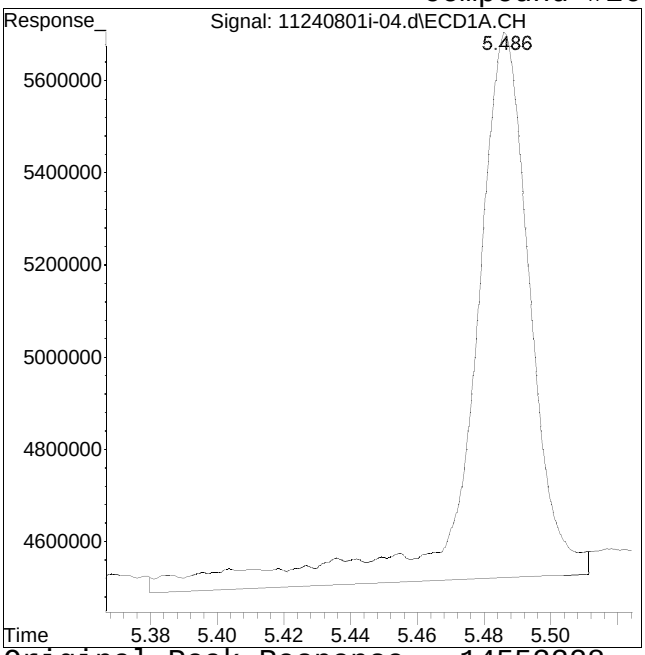
M4 = Poor automated baseline construction.

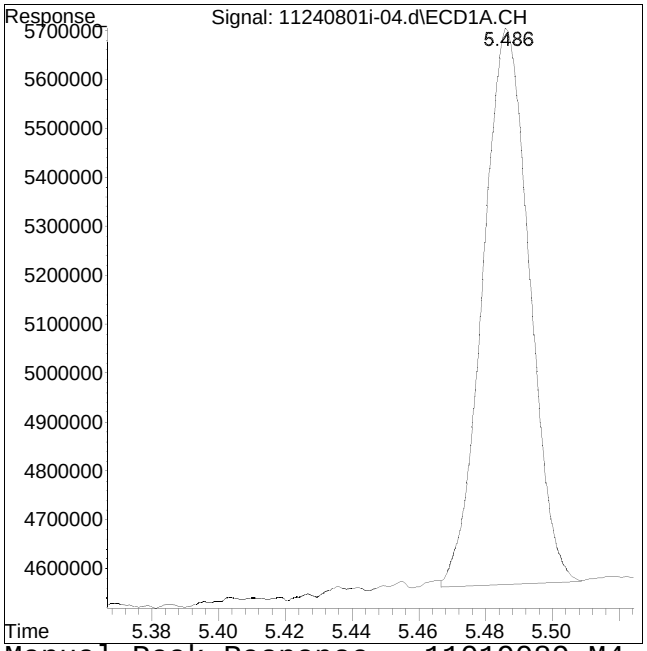
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #26: Endrin Ketone





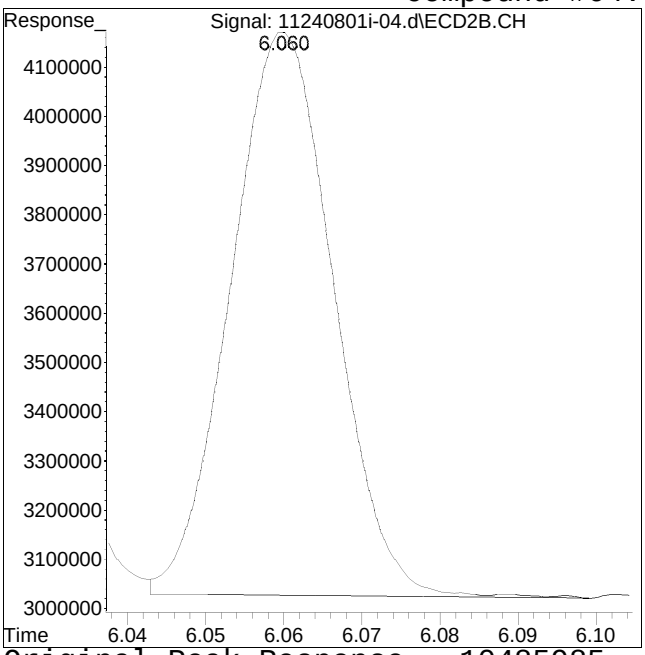
Original Peak Response = 14553228 Manual Peak Response = 11019089 M4
M4 = Poor automated baseline construction.

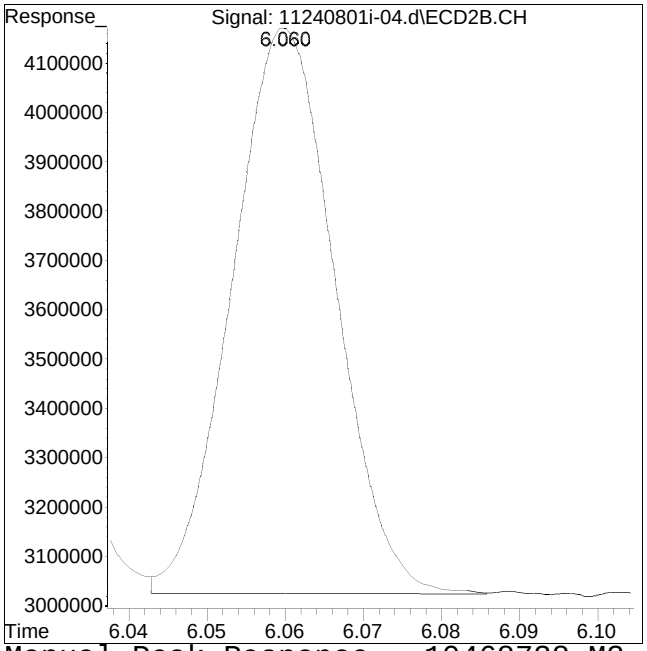
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #64: Endrin Ketone #2





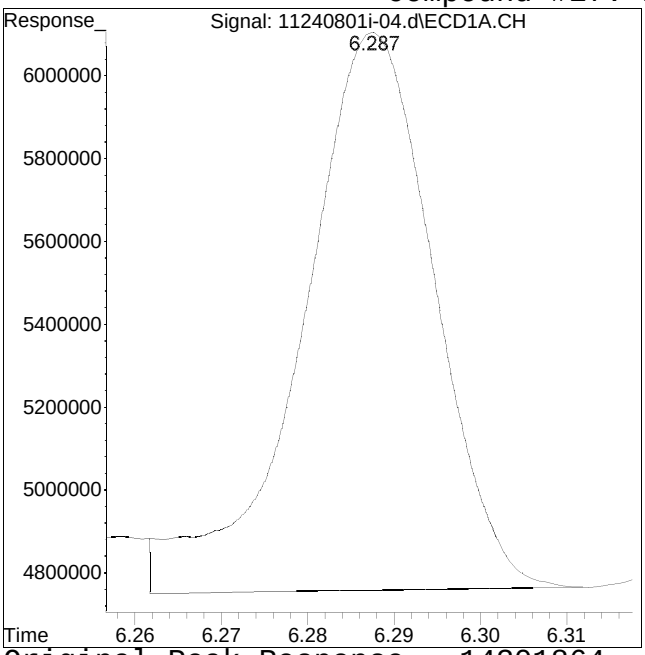
Original Peak Response = 10485985 Manual Peak Response = 10468738 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

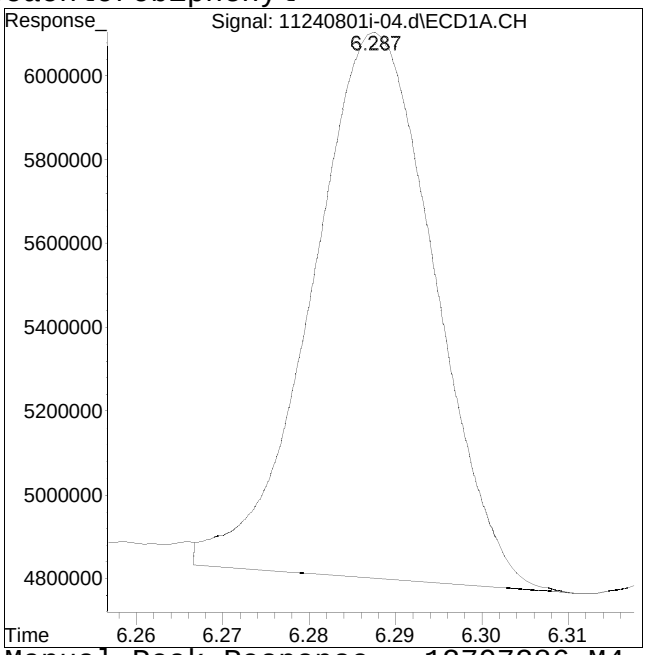
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 14301864



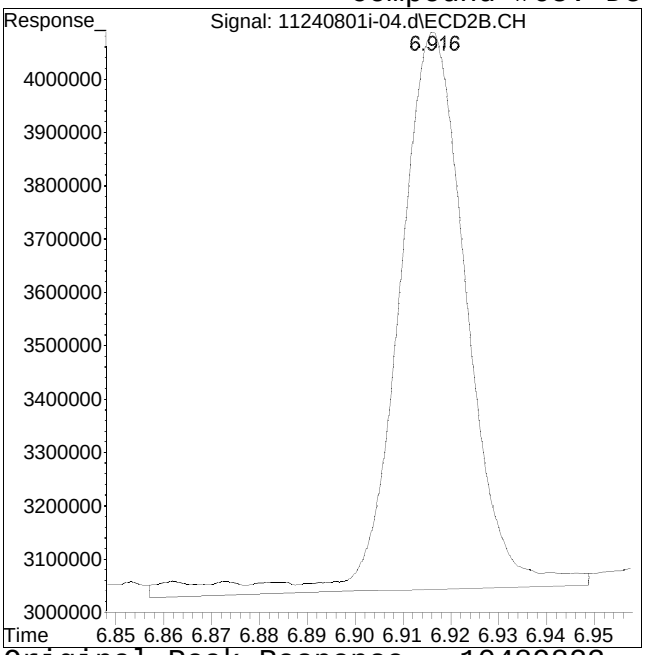
Manual Peak Response = 12797286 M4

M4 = Poor automated baseline construction.

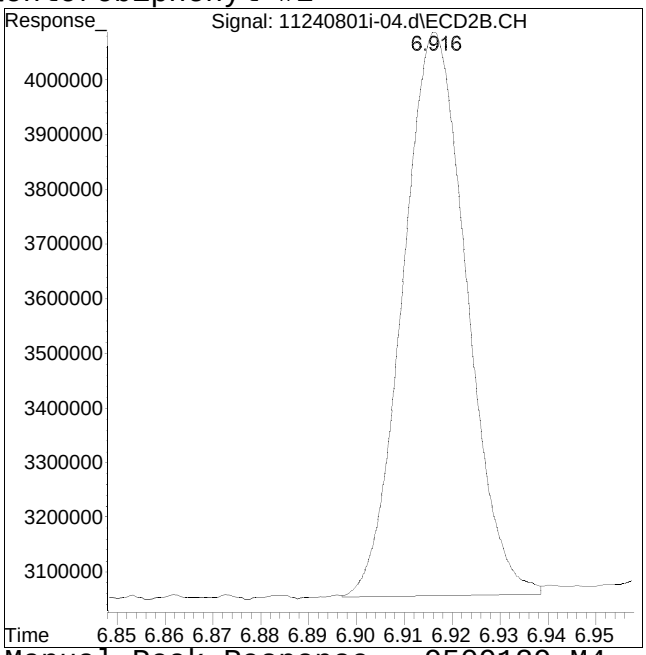
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 10489823



Manual Peak Response = 9509129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	233.6E6	183.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	19656914	17683979	2.037M4	2.218M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.07%#	4.44%#
27) s	Decachlorobi	6.288	6.921	24597164	17880278	2.363M4	2.415M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.73%#	4.83%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	28232919	20378901	2.202M4	2.341M4
4) t	alpha-BHC	1.963	2.270	24776337	22916880	1.763M3	1.910M4
5) t	gamma-BHC (l	2.165	2.556	24518590	22225331	1.860M4	2.012M4
6) t	beta-BHC	2.221	2.622	12371613	12076597	2.144M4	2.433M4
7) t	delta-BHC	2.349	2.889	23489321	22105919	1.784M4	1.978
8) t	Heptachlor	2.513	2.951	24704645	25240850	2.000M3	2.217M4
9) t	Aldrin	2.755	3.270	22221712	21532475	1.906M3	2.069M4
10) t	Alachlor	2.876	3.153	4616058	4291521	2.172M4	2.624M4
11) t	Chlorpyrifos	2.968	3.506	12587779	16060949	2.339M4	2.633M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	22577234	23119137	2.042M3	2.290M4
13)	t	gamma-Chlord	3.425	4.104	20000923	21362303	1.986M3	2.301M3
14)	t	alpha-Chlord	3.559	4.274	22560782	23123524	1.977M4	2.254M4
15)	t	4,4'-DDE	3.656	4.472	21256749	19930567	1.878	2.035M4
16)	t	Endosulfan I	3.695	4.335	20979786	21644513	2.011	2.297M4
17)	t	Dieldrin	3.954	4.627	20608823	20372093	1.919M4	2.128M4
18)	t	Endrin	4.209	4.926	21154040	20698754	1.945M4	2.132
19)	t	4,4'-DDD	4.321	5.049	16433727	16195802	1.862M4	2.053M4
20)	t	Endosulfan I	4.451	5.125	19856372	19658239	2.017M4	2.284M4
21)	t	4,4'-DDT	4.615	5.325	19330578	18980554	1.925M4	2.092M3
22)	t	Endrin Aldeh	4.868	5.421	16609803	16584125	2.012M4	2.309M4
23)	t	Methoxychlor	5.104	5.890	11871688	11964320	2.204M4	2.443M3
24)	t	Mirex	5.159	6.024	19186744	19029253	2.220M4	2.566M4
25)	t	Endosulfan S	5.259	5.649	19345504	19598268	2.080M3	2.317M4
26)	t	Endrin Keton	5.487	6.060	22428996	20121740	2.028M4	2.235M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

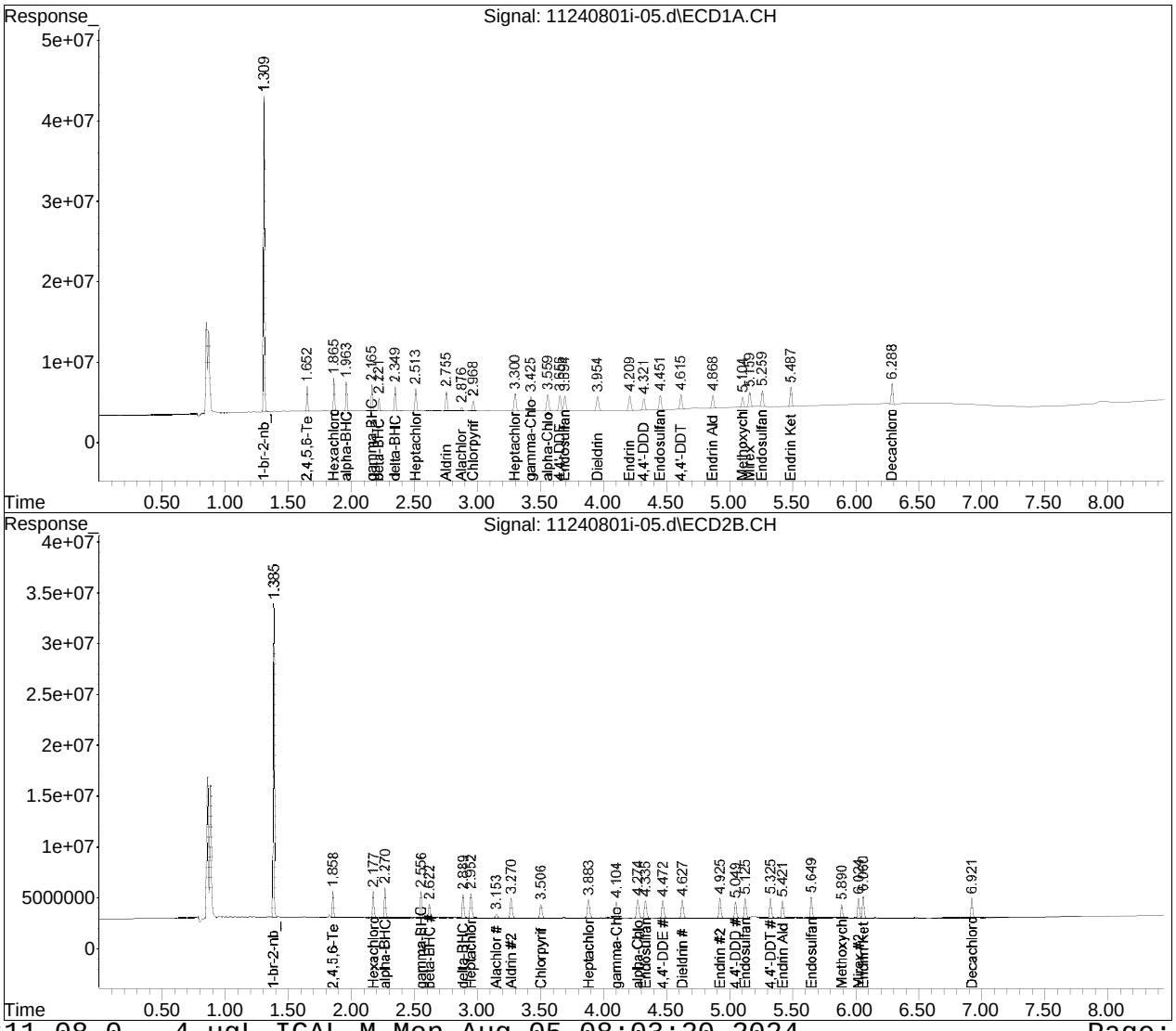
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

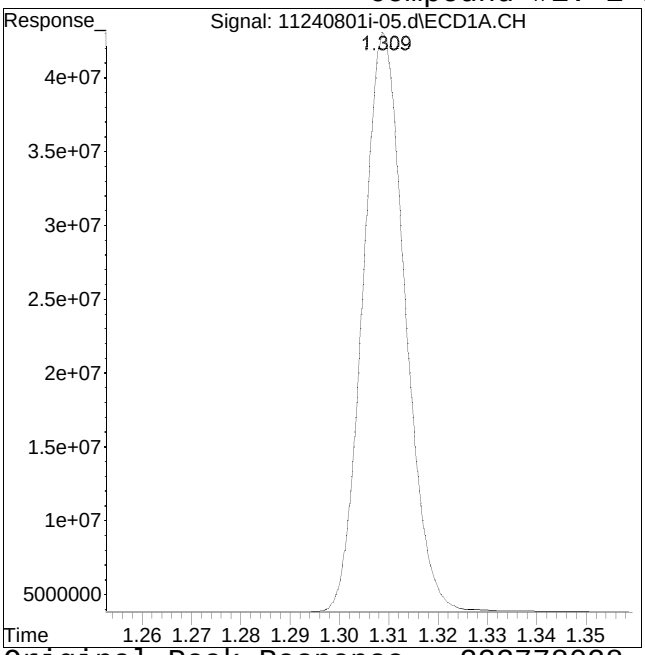


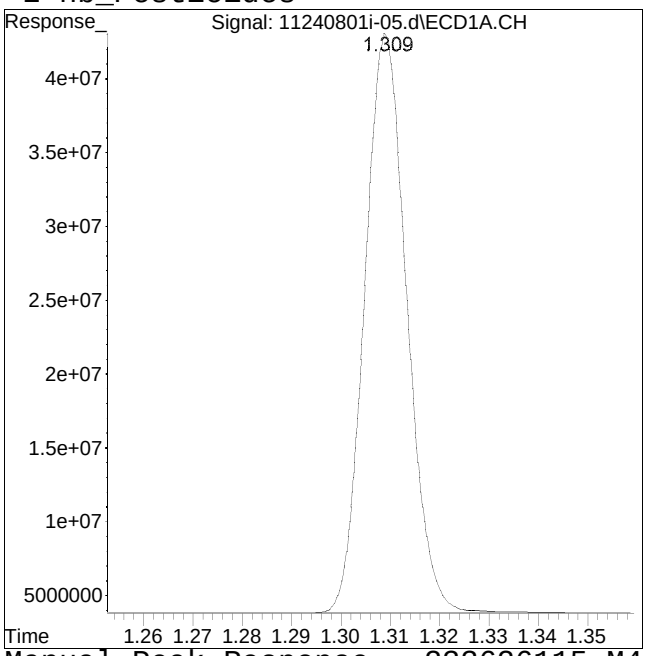
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #1: 1-br-2-nb_Pesticides





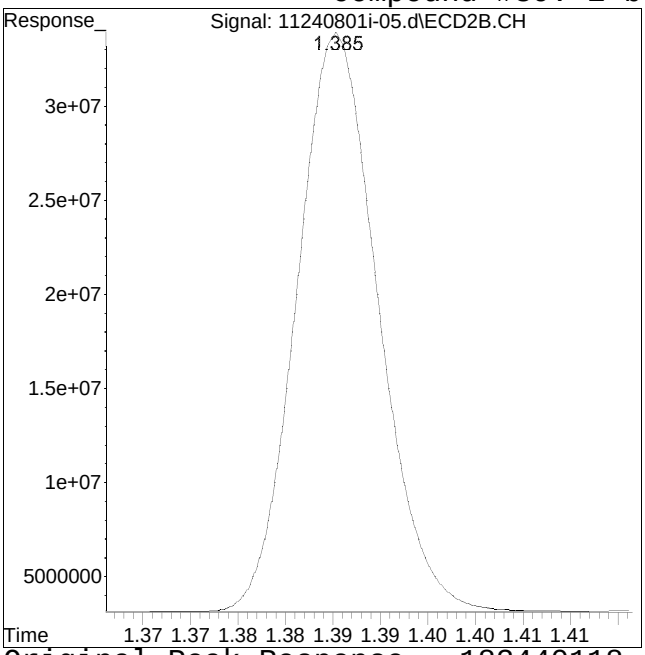
Original Peak Response = 233778028 Manual Peak Response = 233626115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

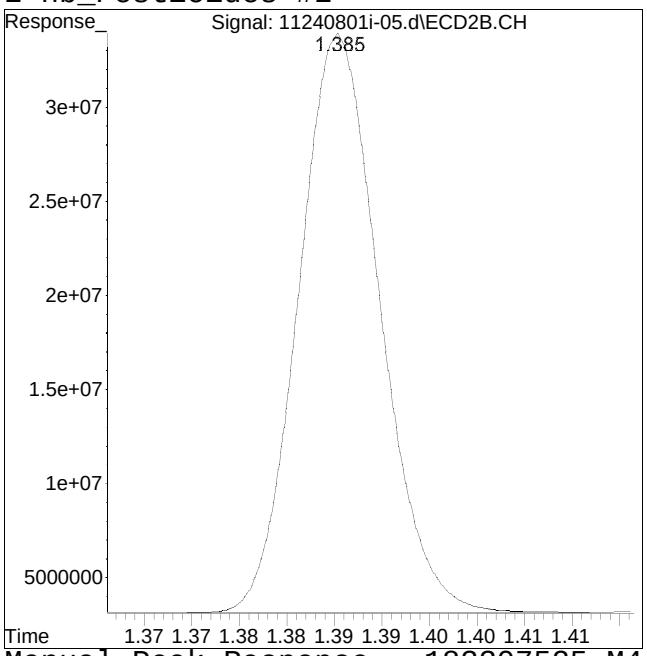
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183440118



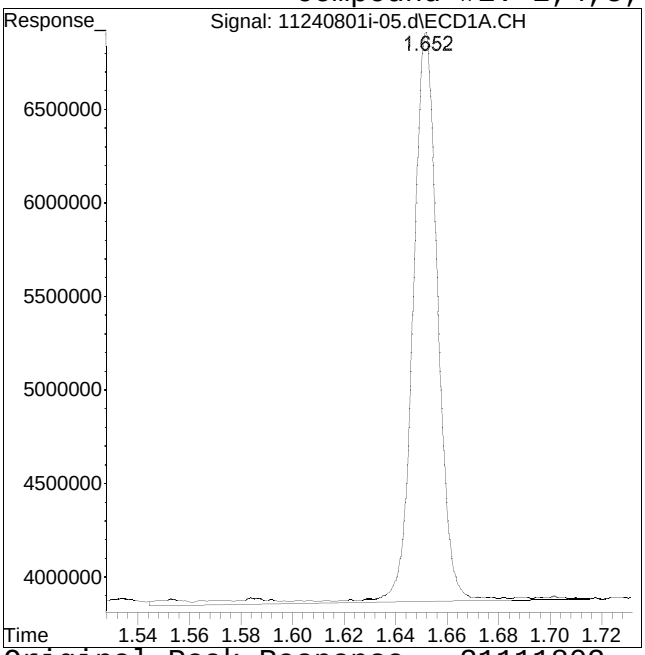
Manual Peak Response = 183307525 M4

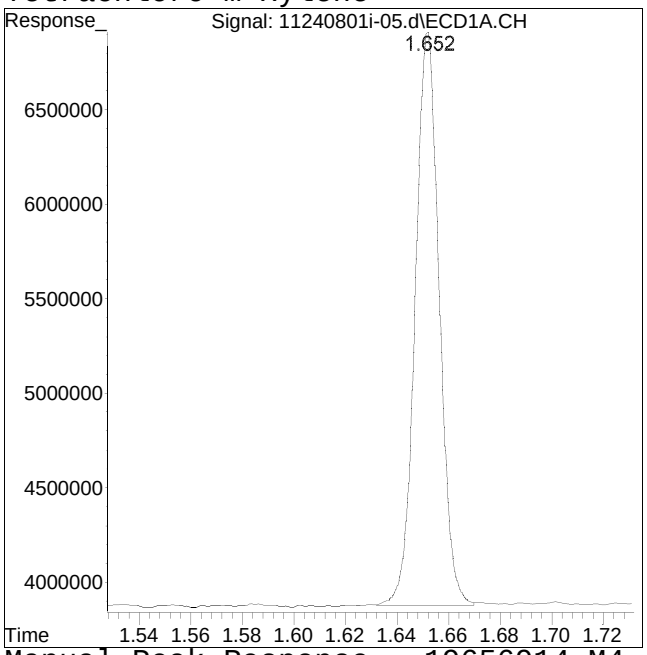
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



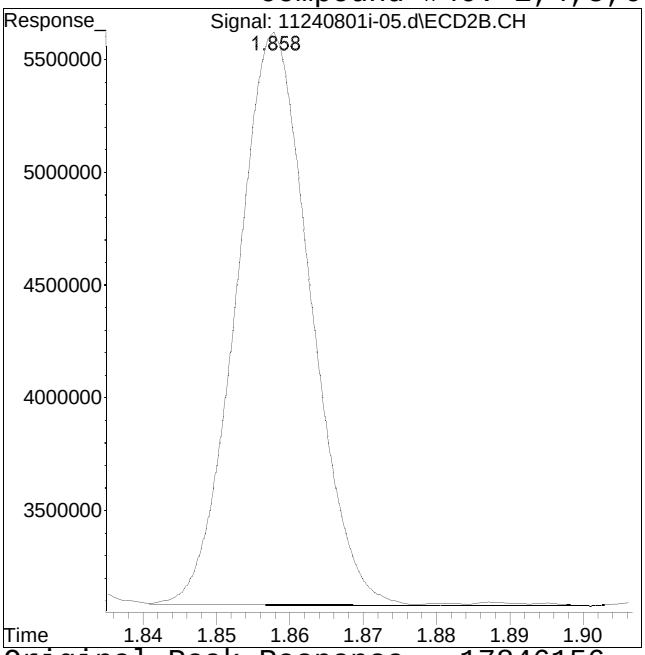


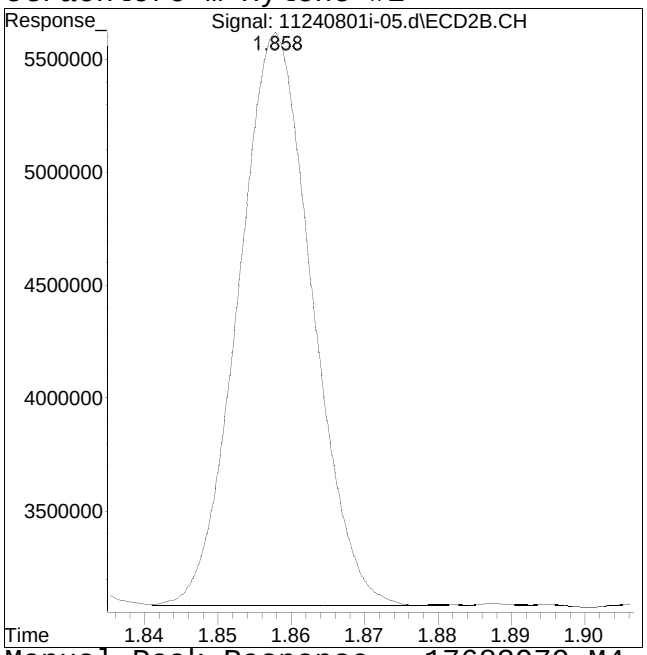
Original Peak Response = 21111802 Manual Peak Response = 19656914 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





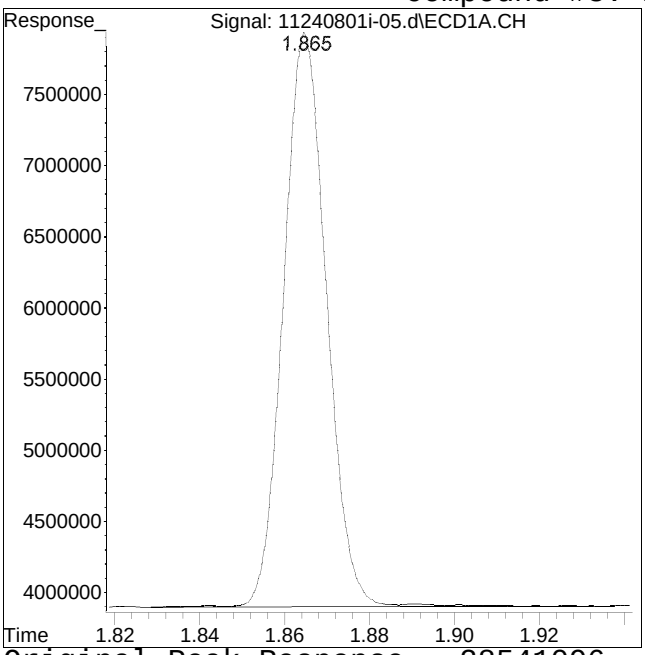
Original Peak Response = 17846156 Manual Peak Response = 17683979 M4
M4 = Poor automated baseline construction.

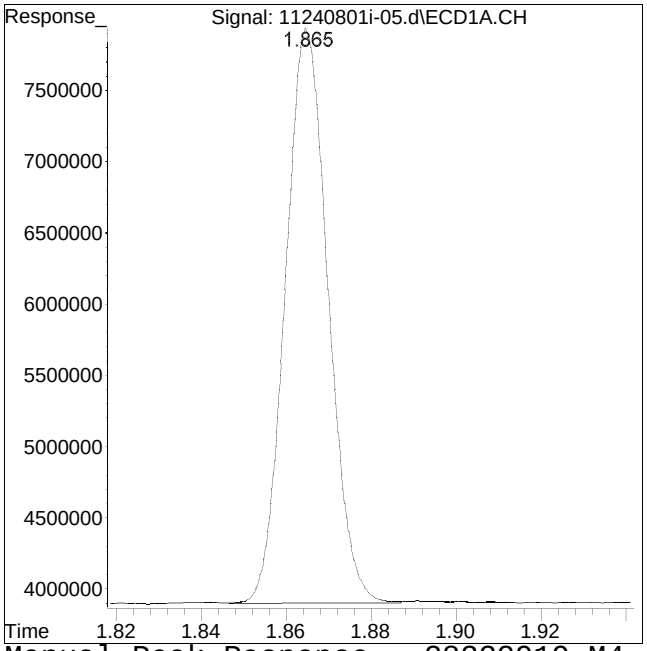
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #3: Hexachlorobenzene



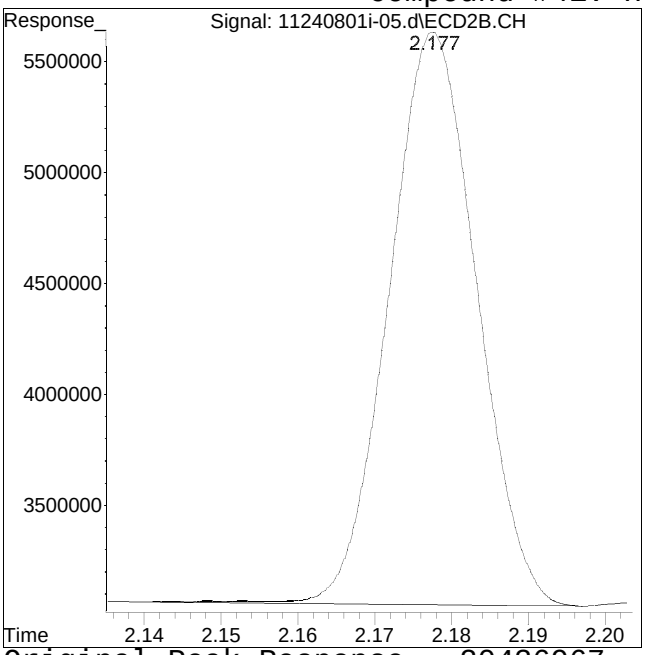


Original Peak Response = 28541096 Manual Peak Response = 28232919 M4
M4 = Poor automated baseline construction.

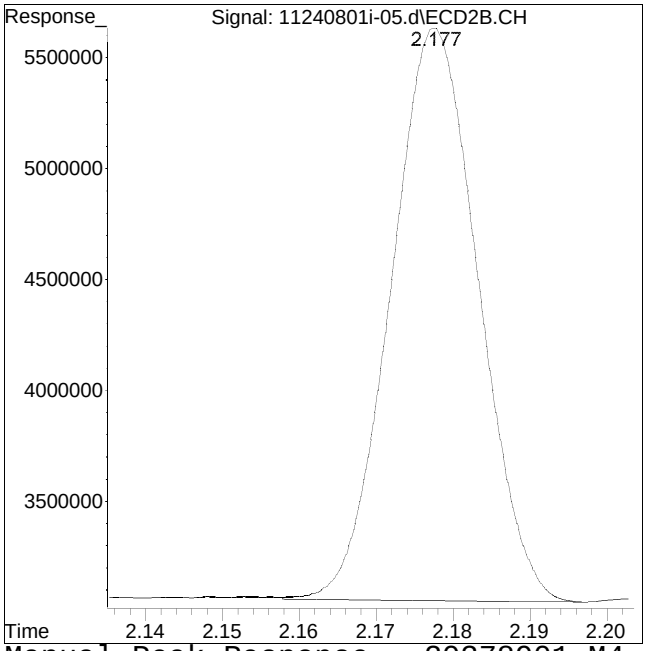
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 20436967



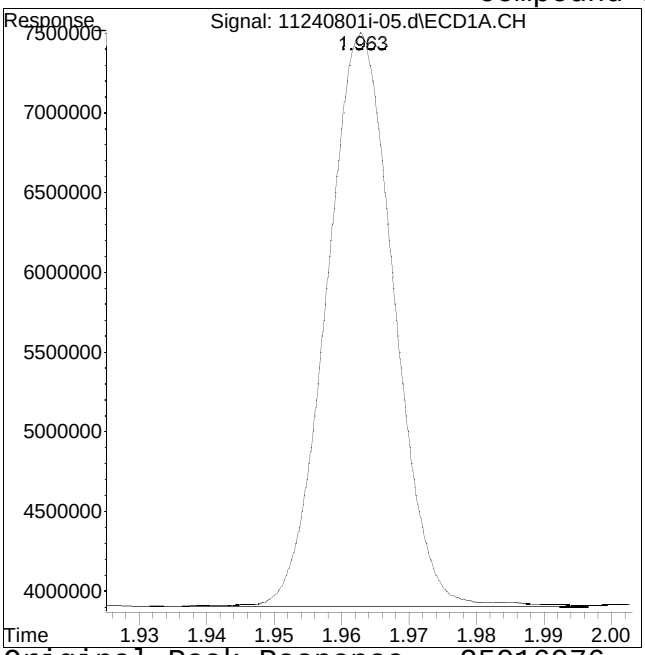
Manual Peak Response = 20378901 M4

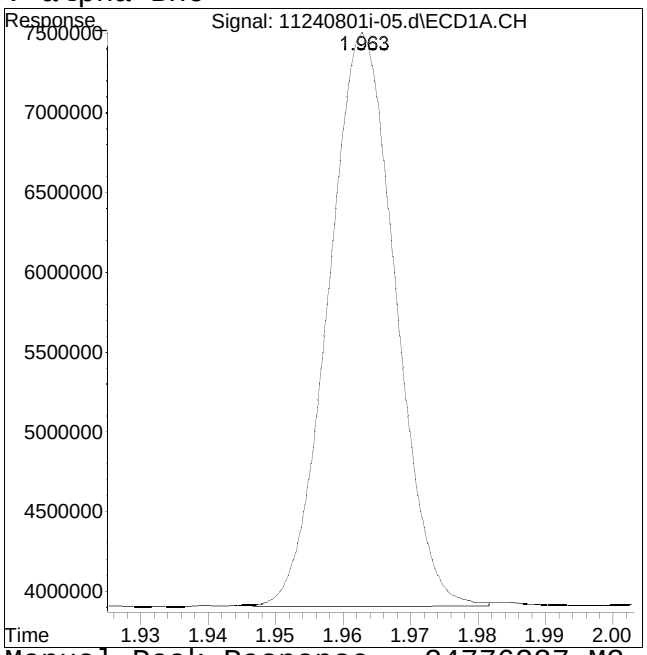
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0 Quant Date : 8/2/2024 11:14 am

Compound #4: alpha-BHC



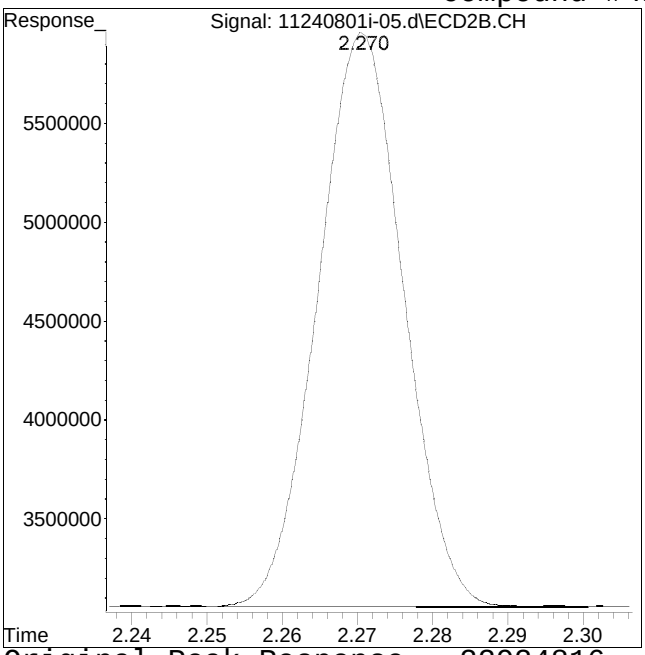


Original Peak Response = 25016976 Manual Peak Response = 24776337 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

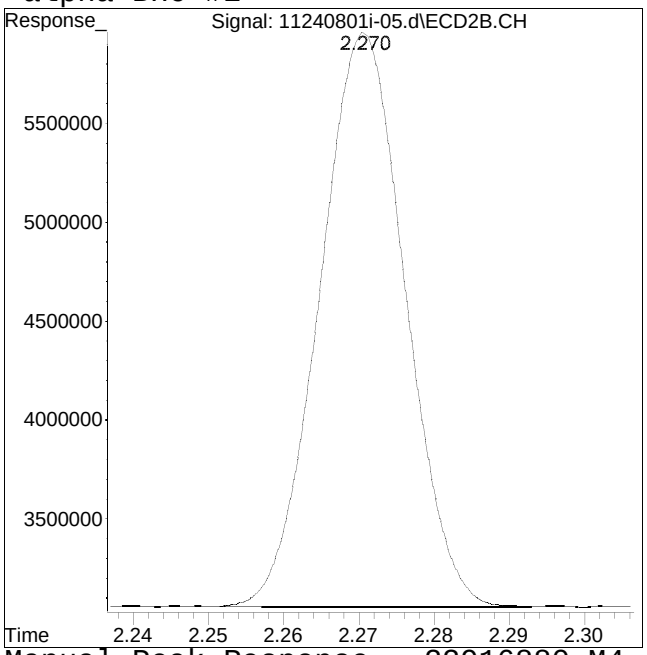
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #42: alpha-BHC #2



Original Peak Response = 22924816



Manual Peak Response = 22916880 M4

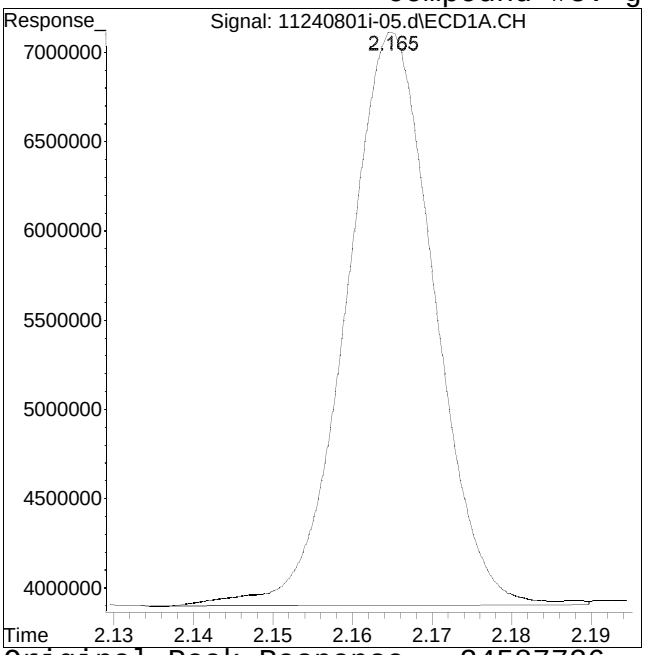
M4 = Poor automated baseline construction.

Manual Integration Report

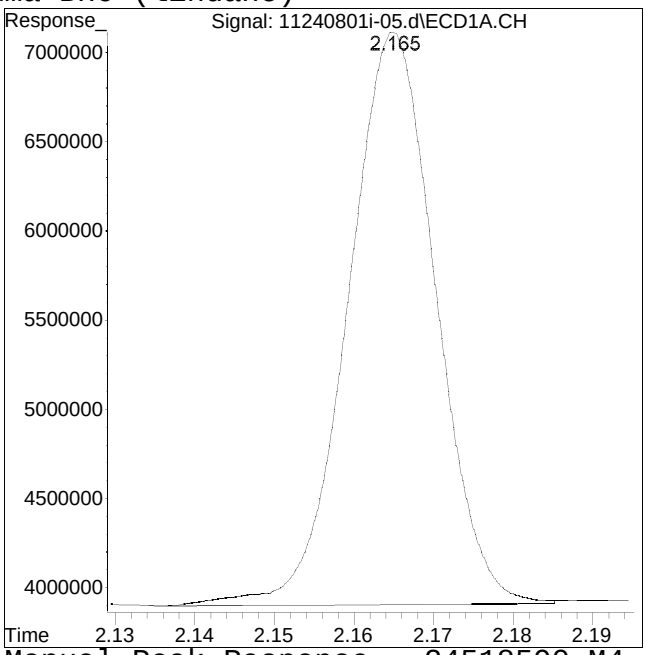
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 24587736



Manual Peak Response = 24518590 M4

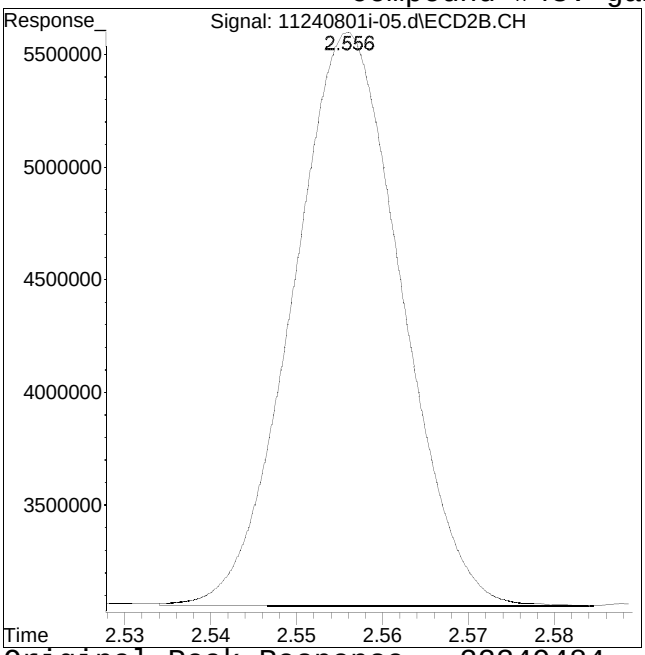
M4 = Poor automated baseline construction.

Manual Integration Report

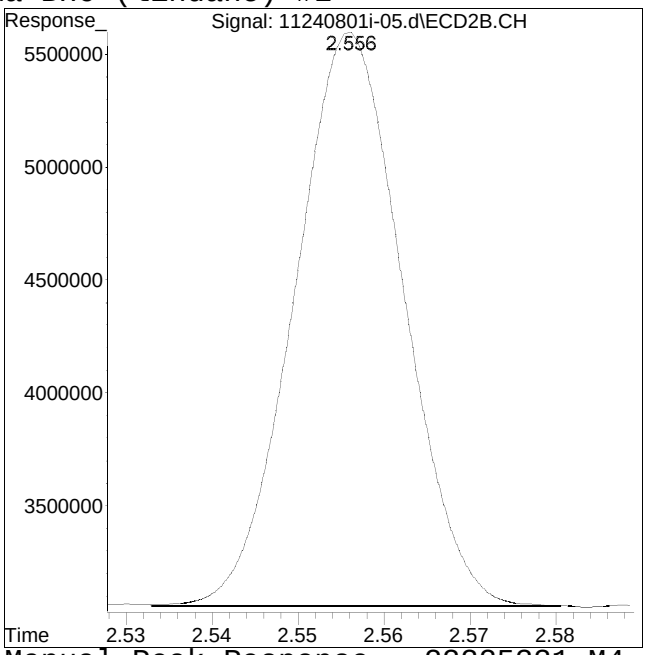
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 22349484



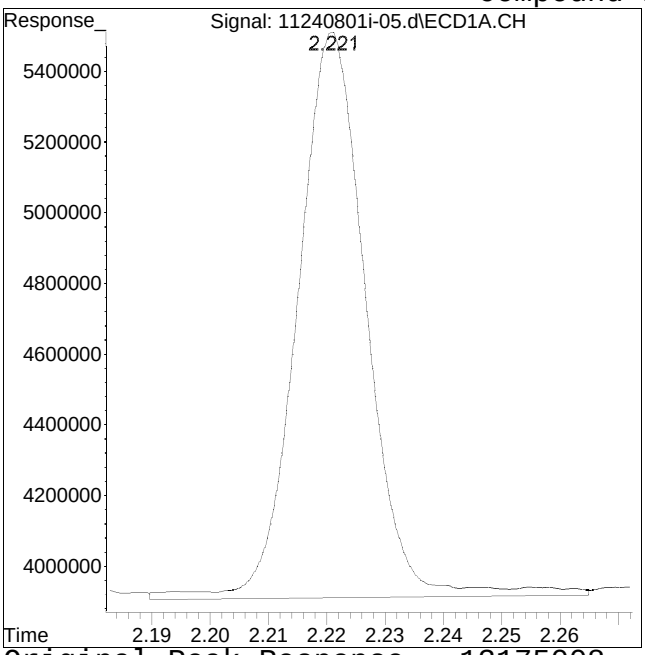
Manual Peak Response = 22225331 M4

M4 = Poor automated baseline construction.

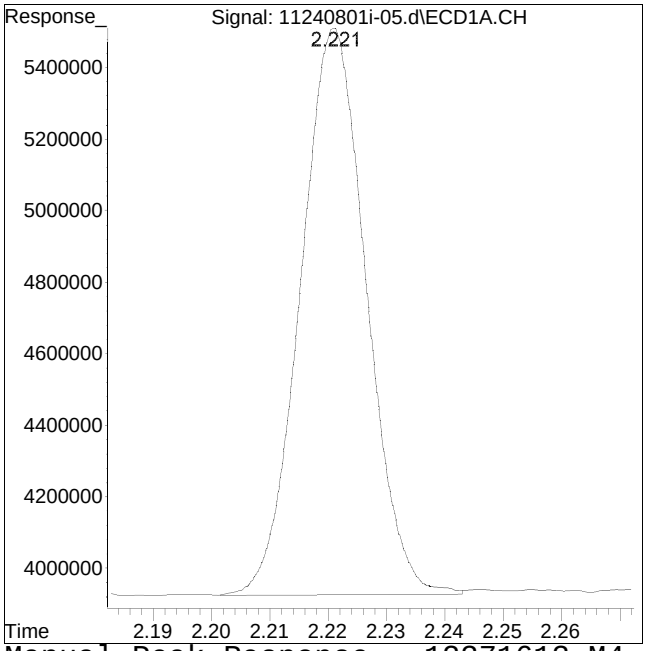
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #6: beta-BHC



Original Peak Response = 13175008

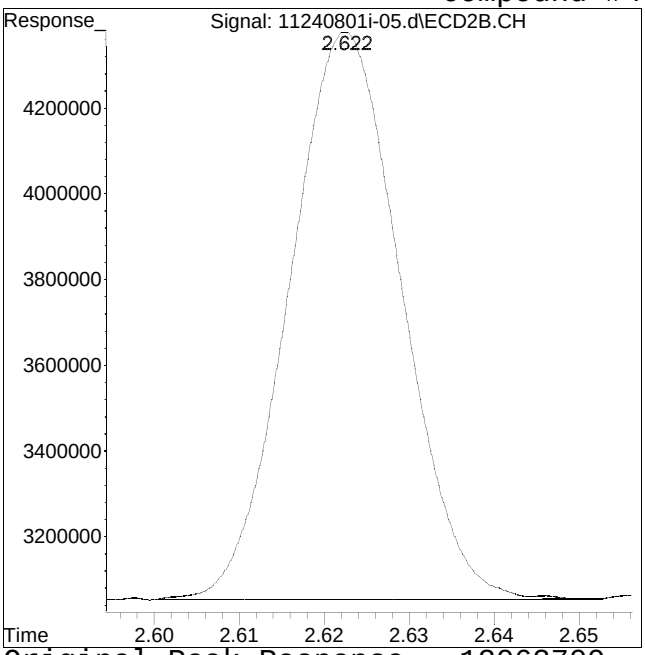


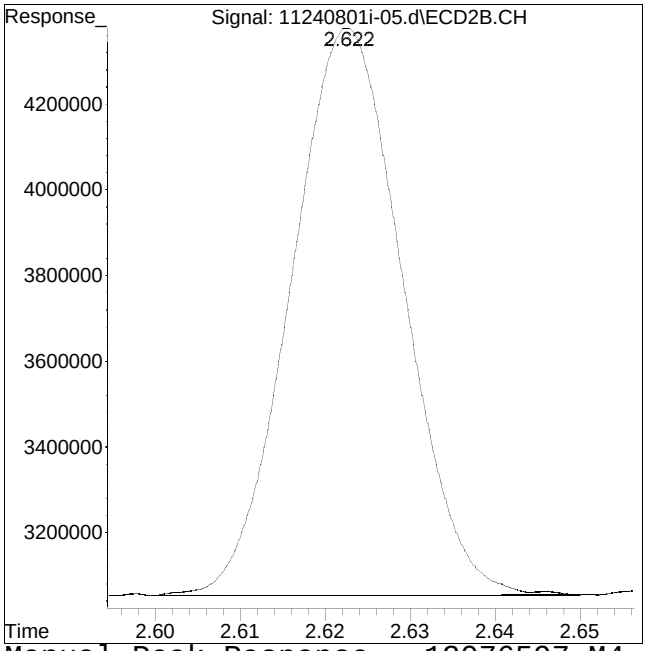
Manual Peak Response = 12371613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #44: beta-BHC #2



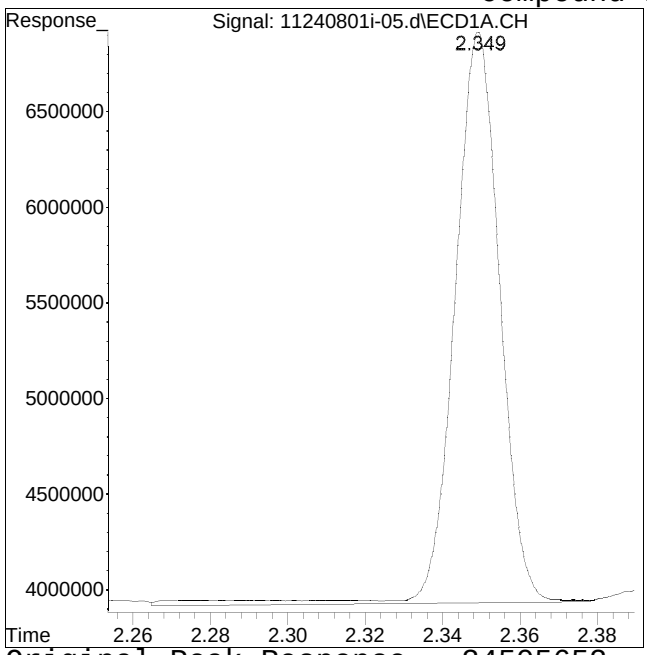


Original Peak Response = 12062700 Manual Peak Response = 12076597 M4
M4 = Poor automated baseline construction.

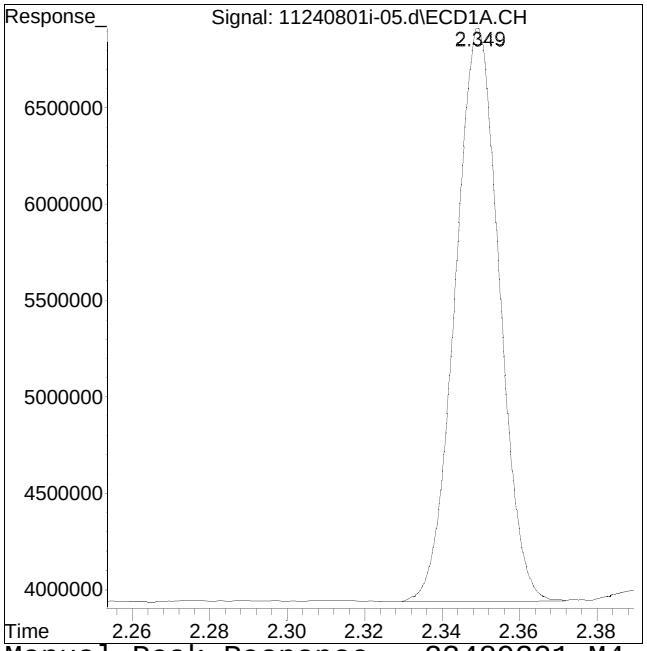
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #7: delta-BHC



Original Peak Response = 24505652

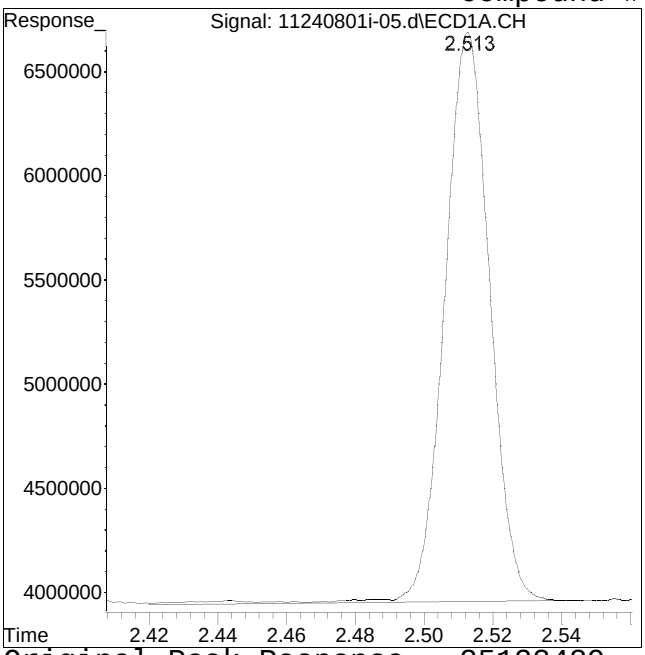


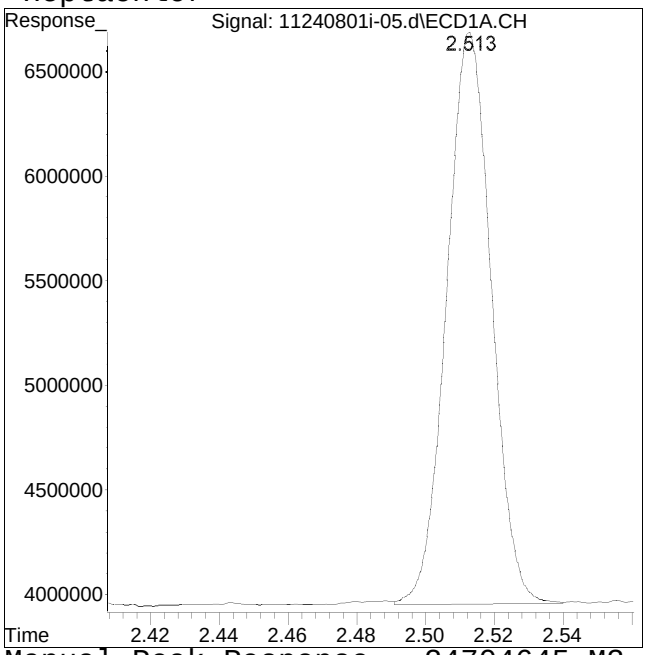
Manual Peak Response = 23489321 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #8: Heptachlor



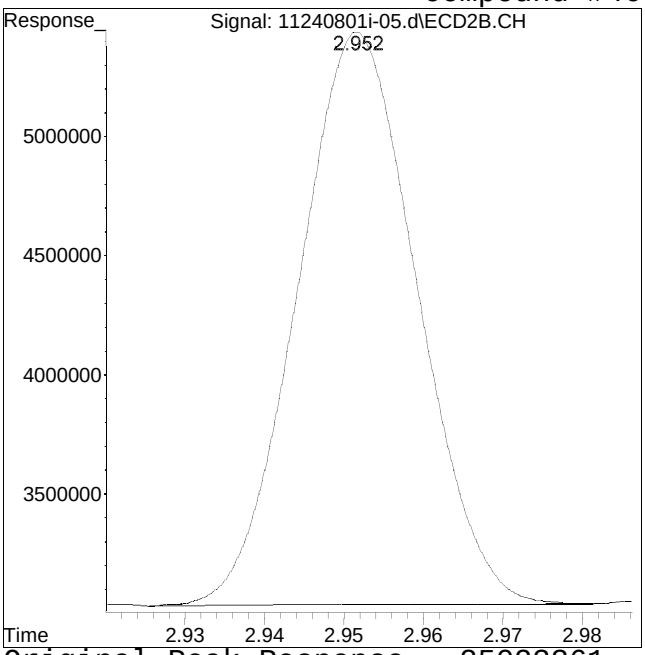


Original Peak Response = 25122429 Manual Peak Response = 24704645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

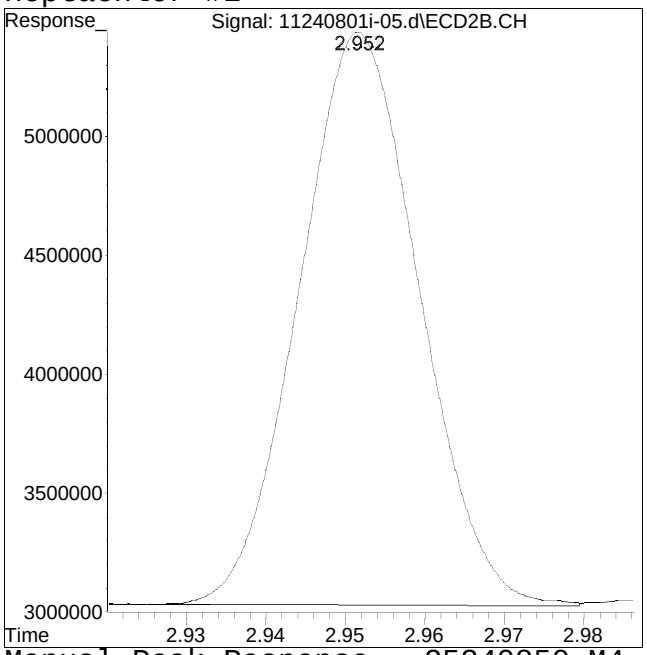
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #46: Heptachlor #2



Original Peak Response = 25023361



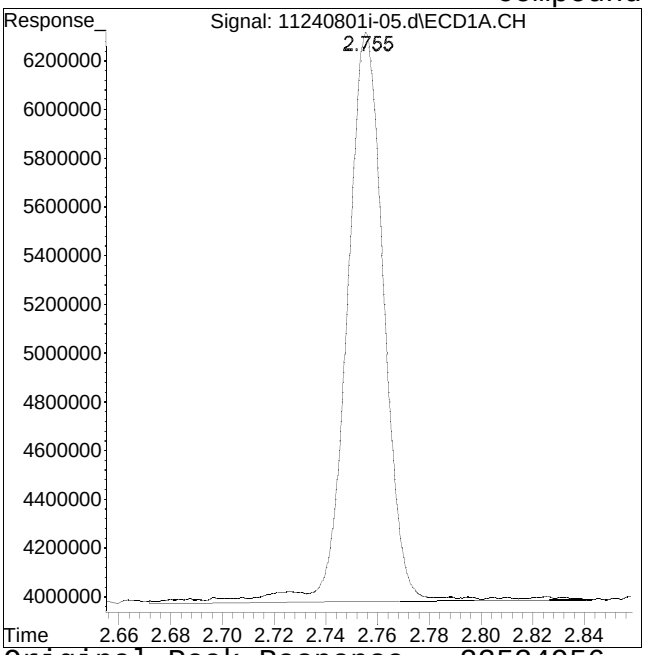
Manual Peak Response = 25240850 M4

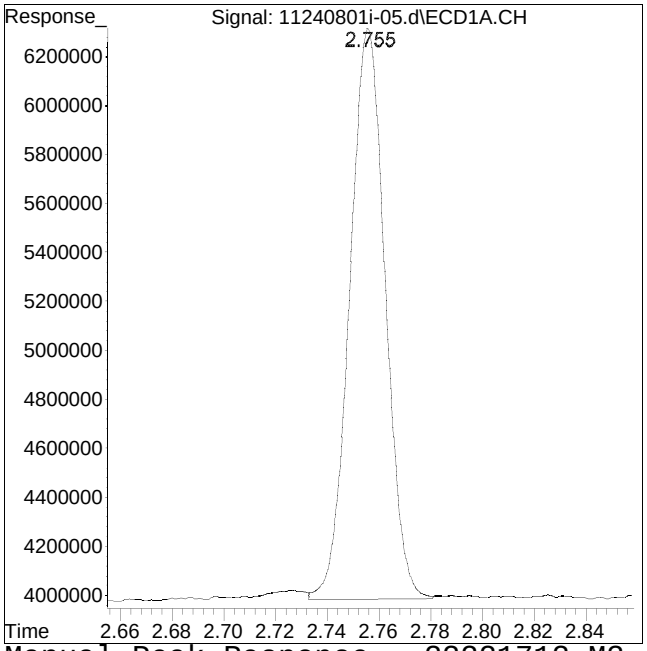
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #9: Aldrin



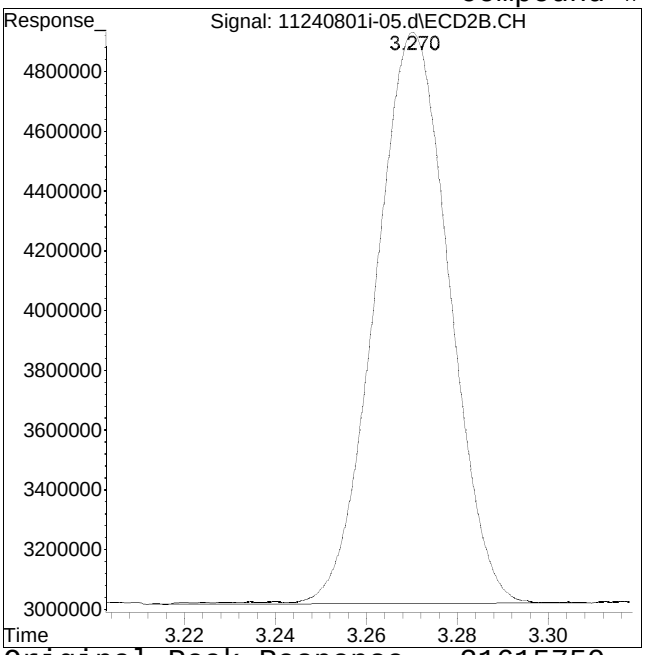


Original Peak Response = 23534956 Manual Peak Response = 22221712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

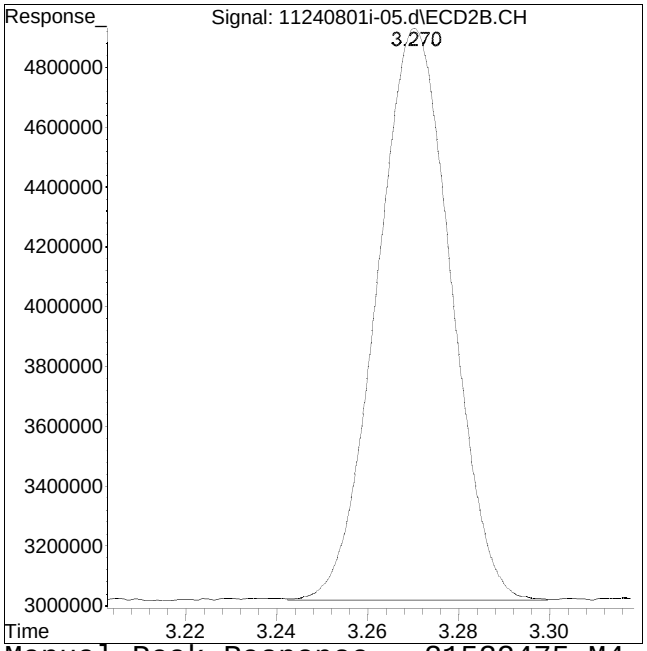
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #47: Aldrin #2



Original Peak Response = 21615750



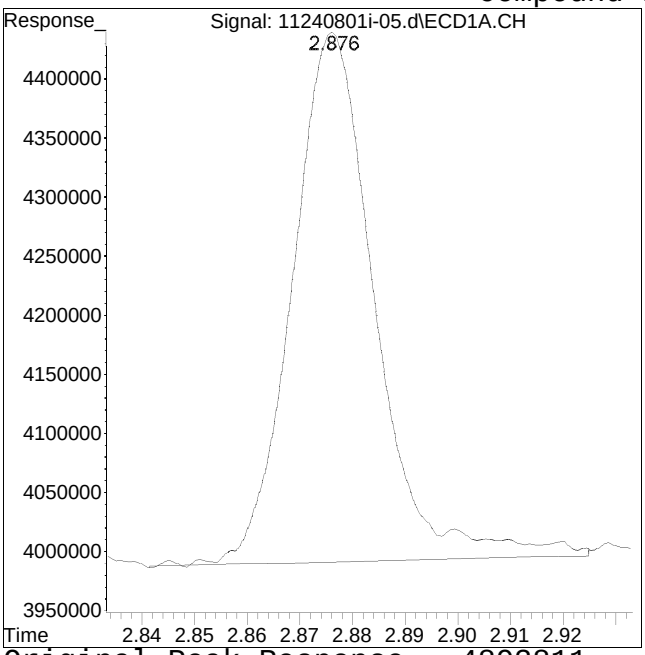
Manual Peak Response = 21532475 M4

M4 = Poor automated baseline construction.

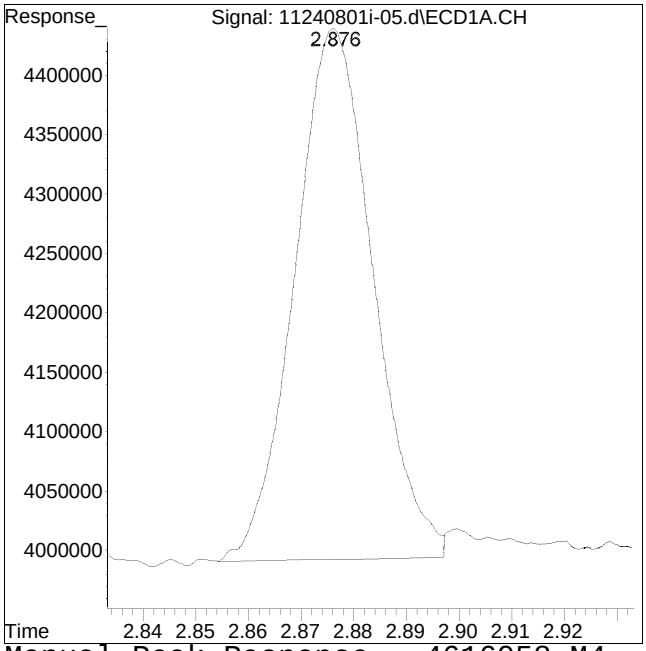
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #10: Alachlor



Original Peak Response = 4893811



Manual Peak Response = 4616058 M4

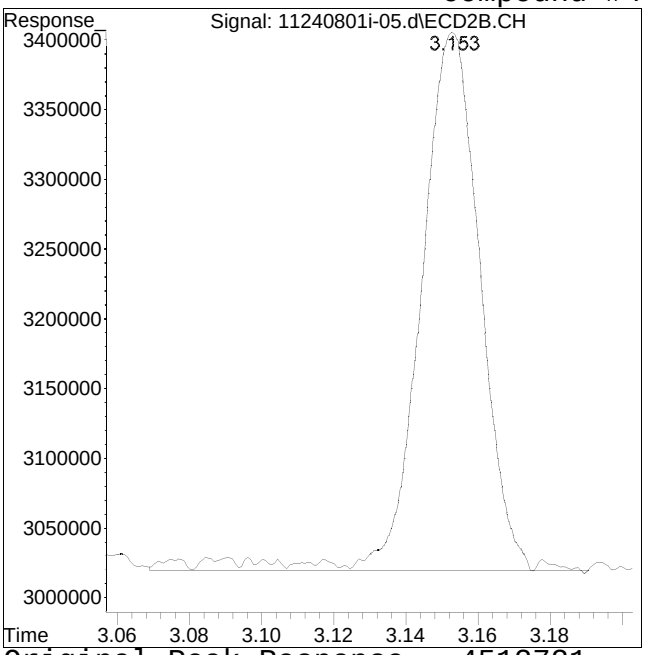
M4 = Poor automated baseline construction.

Manual Integration Report

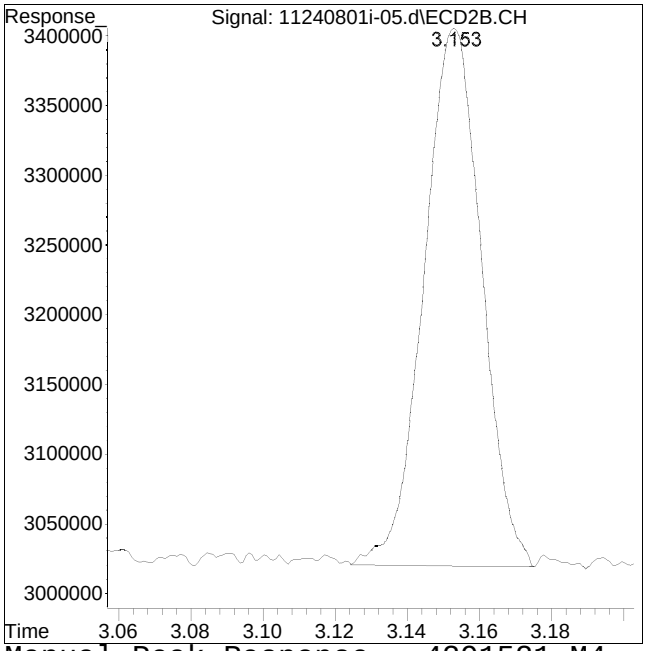
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #48: Alachlor #2



Original Peak Response = 4512721



Manual Peak Response = 4291521 M4

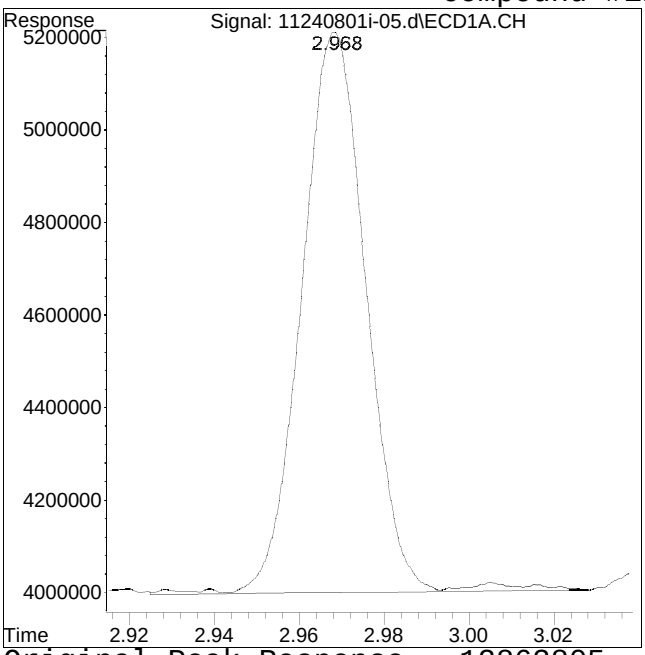
M4 = Poor automated baseline construction.

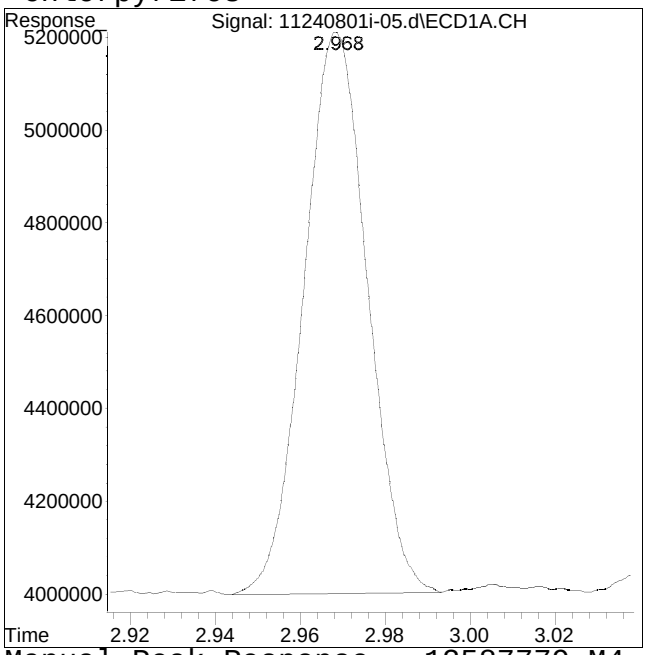
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #11: Chlorpyrifos



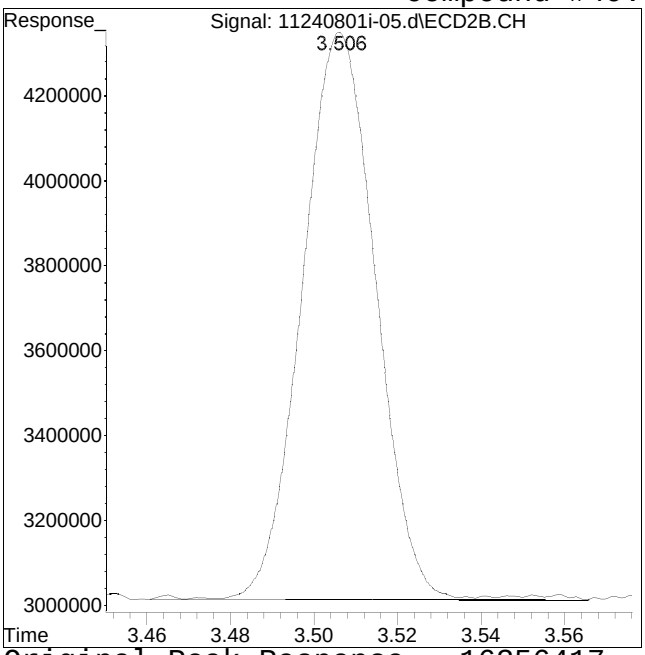


Original Peak Response = 12863805 Manual Peak Response = 12587779 M4
M4 = Poor automated baseline construction.

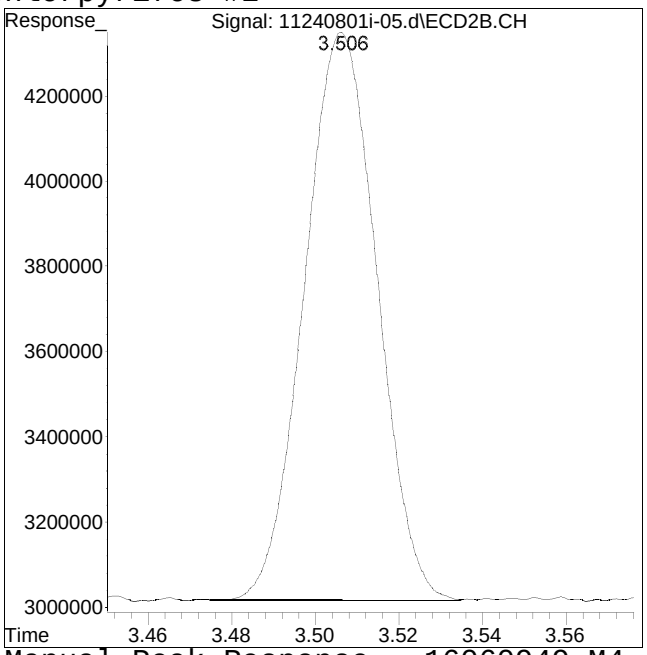
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 16356417



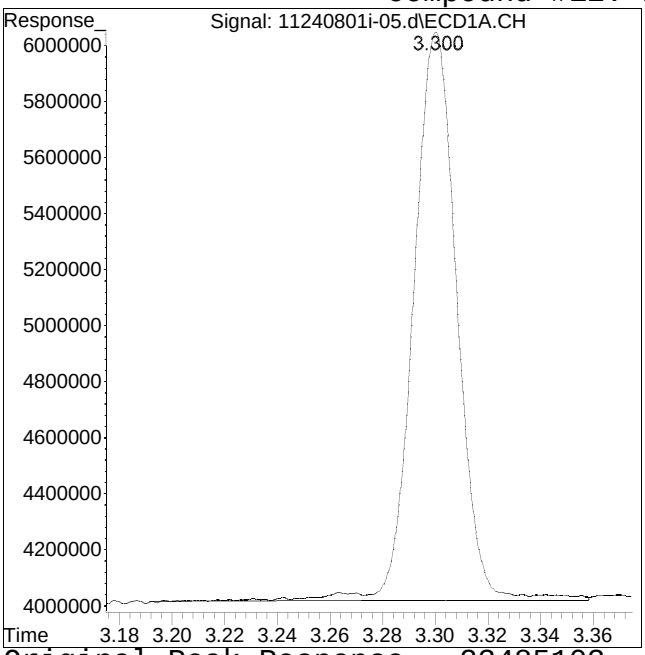
Manual Peak Response = 16060949 M4

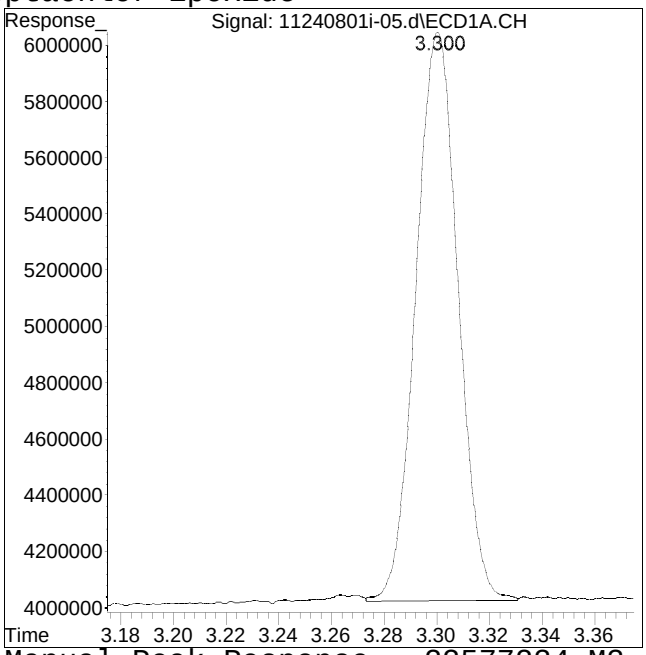
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 23485103 Manual Peak Response = 22577234 M3

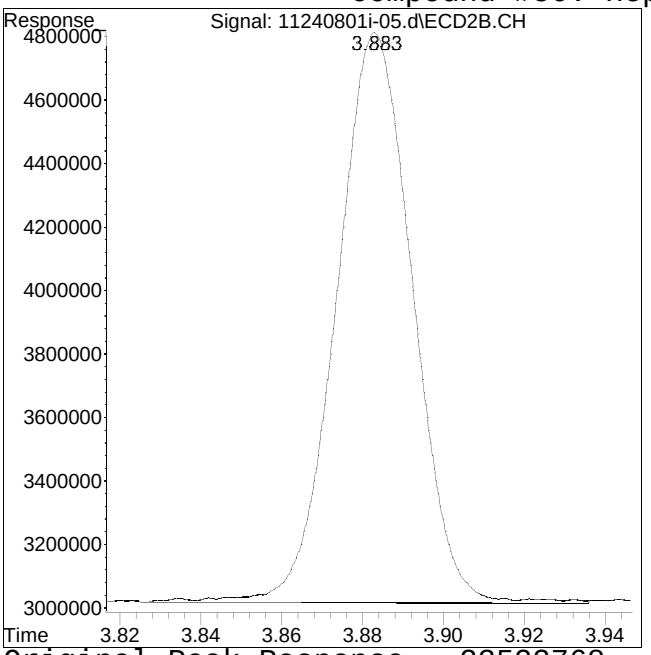
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

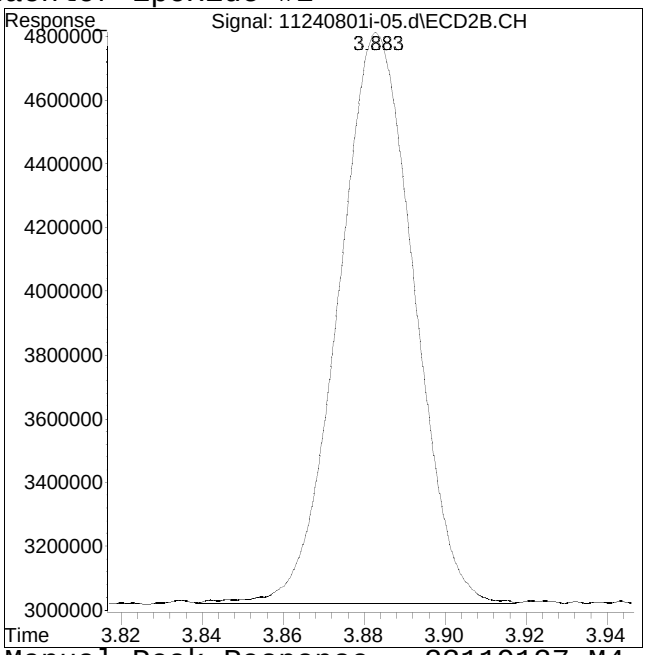
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #50: Heptachlor Epoxide #2



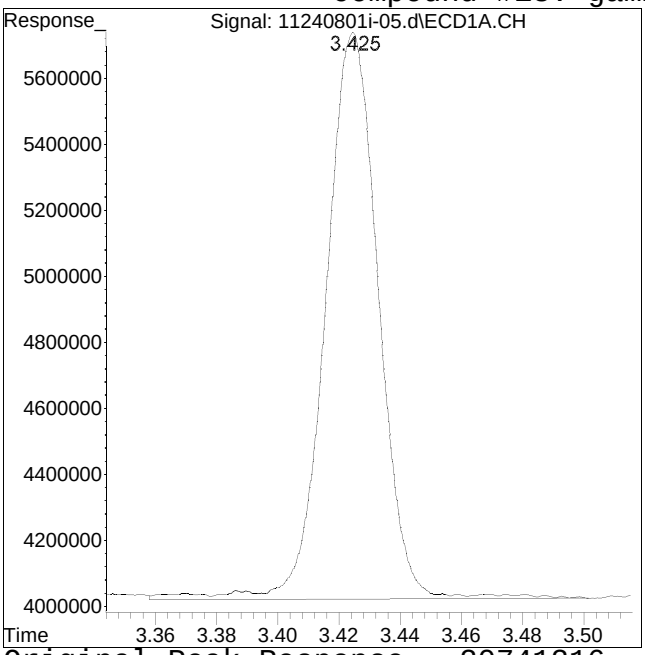


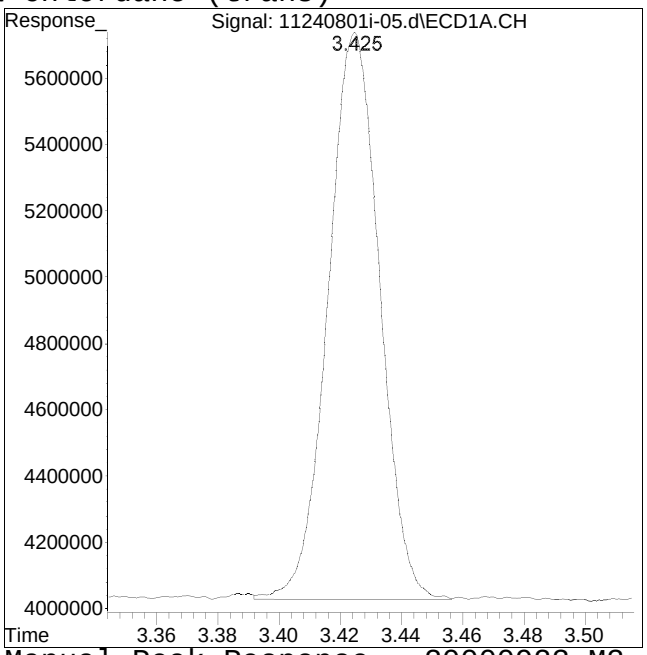
Original Peak Response = 23522768 Manual Peak Response = 23119137 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #13: gamma-Chlordane (trans)



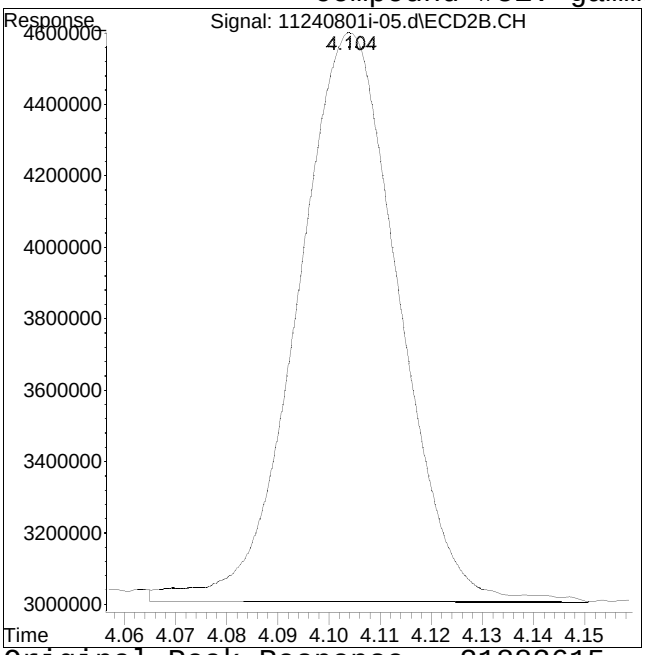


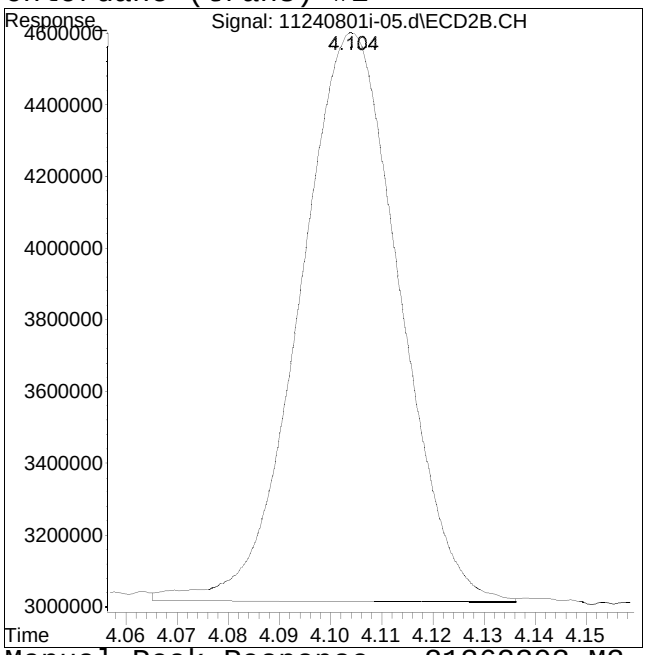
Original Peak Response = 20741216 Manual Peak Response = 20000923 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #51: gamma-Chlordane (trans) #2





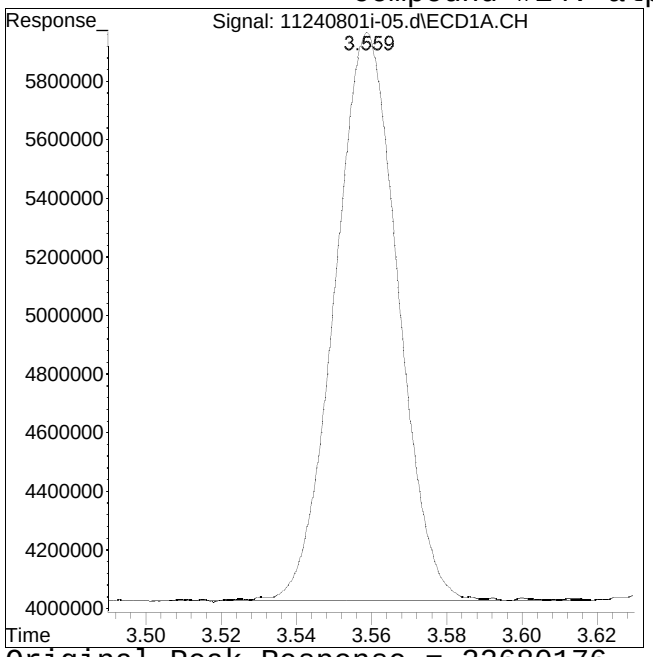
Original Peak Response = 21882615 Manual Peak Response = 21362303 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

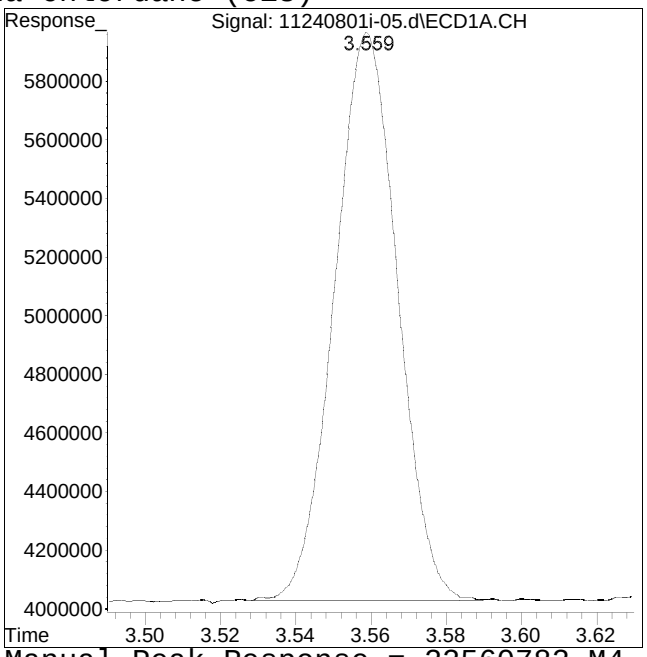
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 22680176



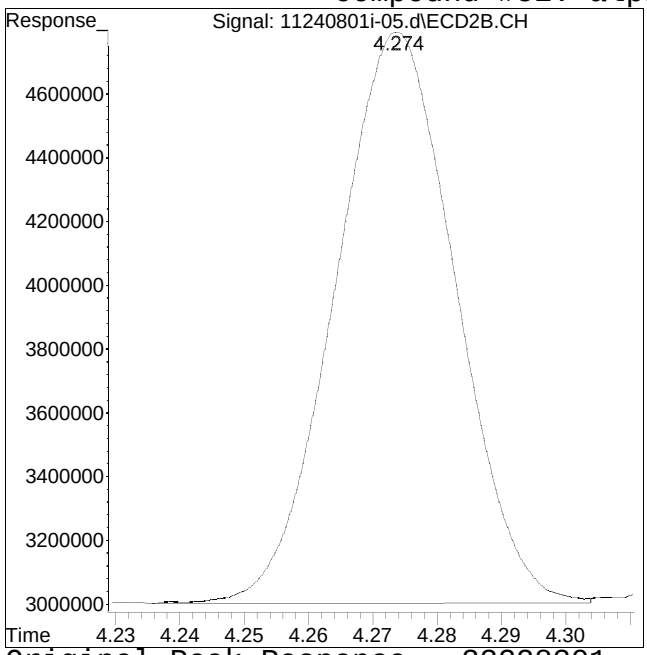
Manual Peak Response = 22560782 M4

M4 = Poor automated baseline construction.

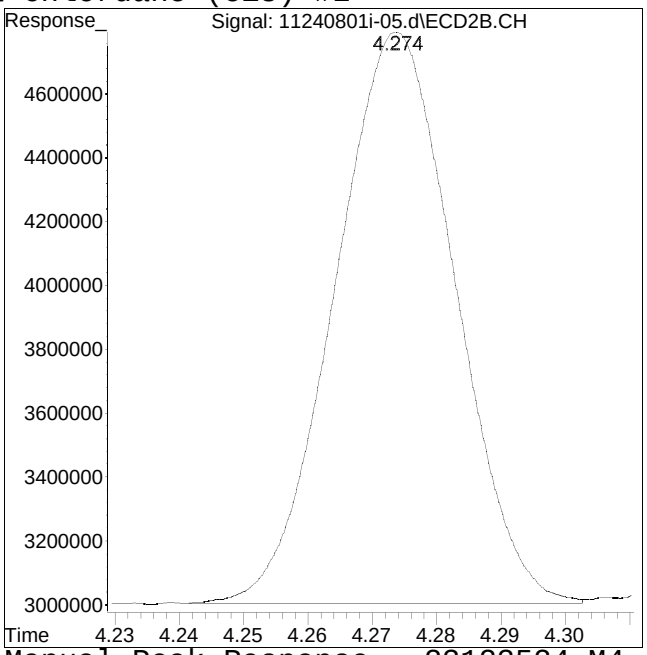
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 23228301



Manual Peak Response = 23123524 M4

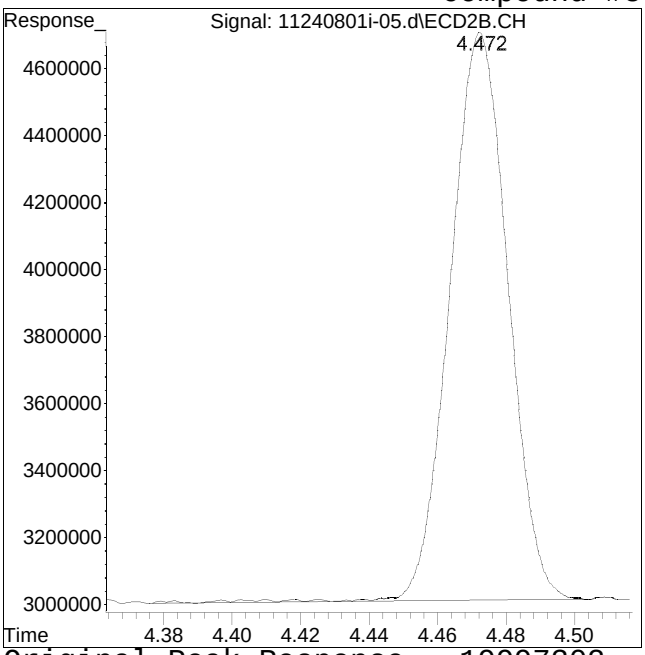
M4 = Poor automated baseline construction.

Manual Integration Report

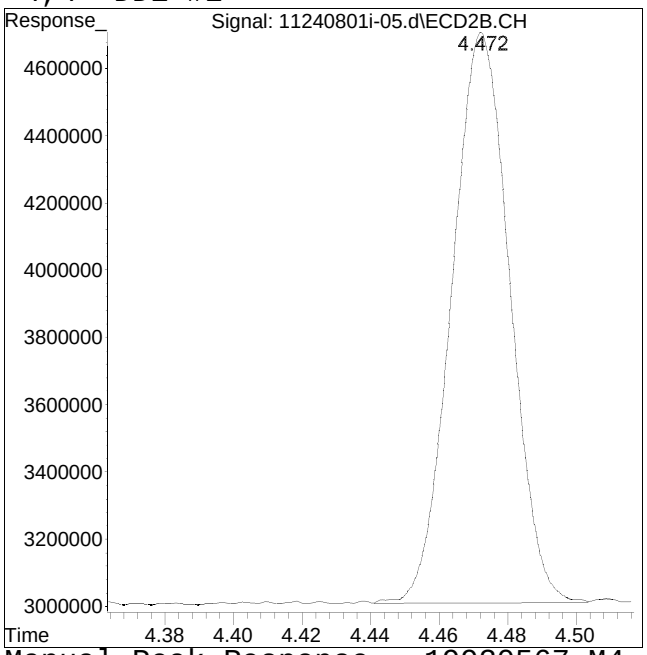
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 19997302



Manual Peak Response = 19930567 M4

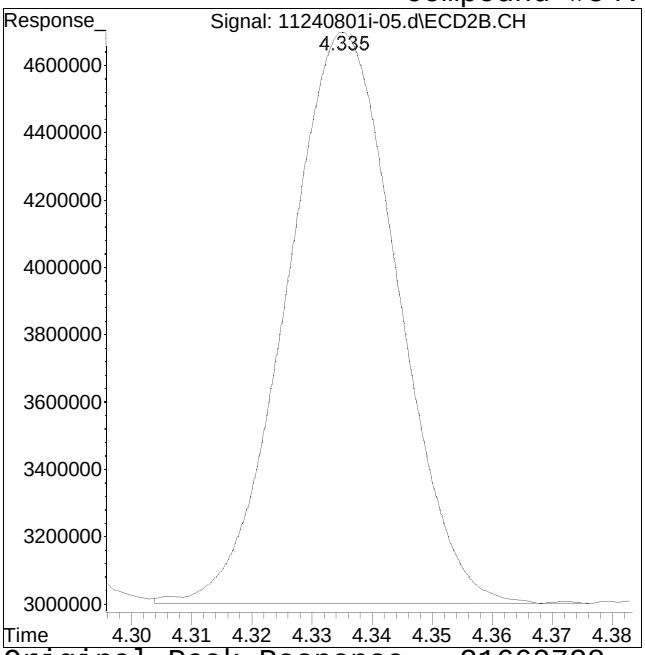
M4 = Poor automated baseline construction.

Manual Integration Report

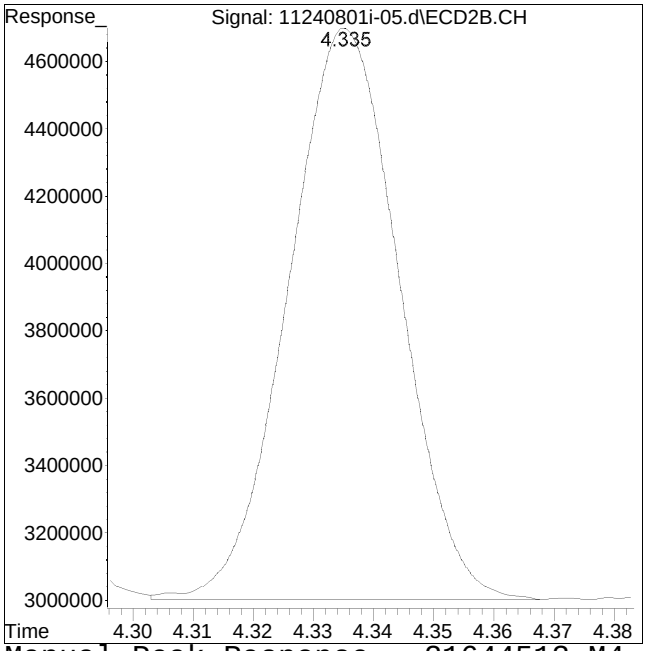
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #54: Endosulfan I #2



Original Peak Response = 21660728



Manual Peak Response = 21644513 M4

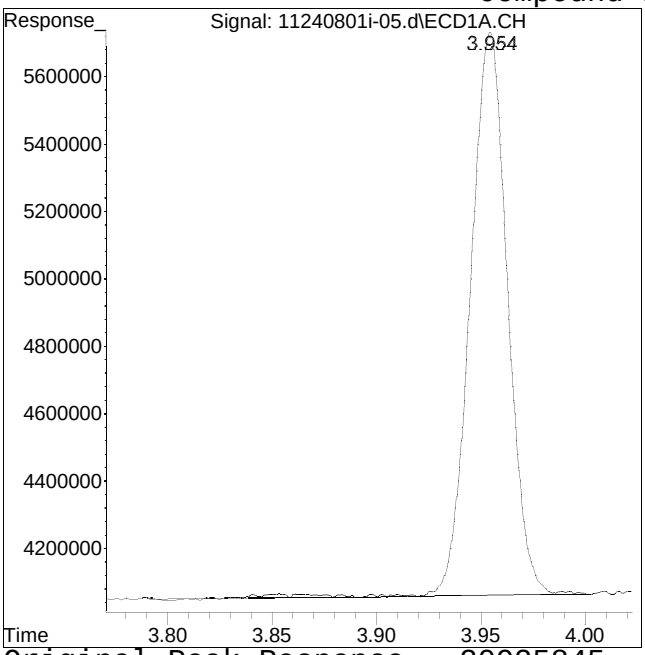
M4 = Poor automated baseline construction.

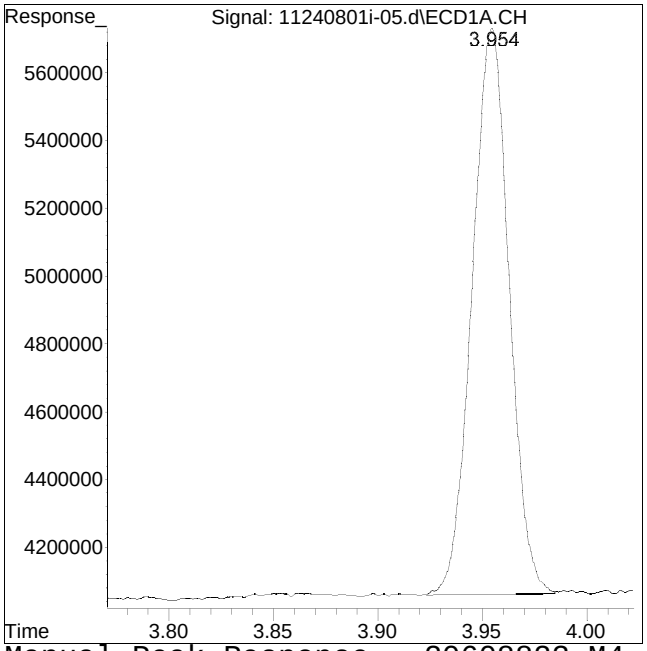
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #17: Dieldrin



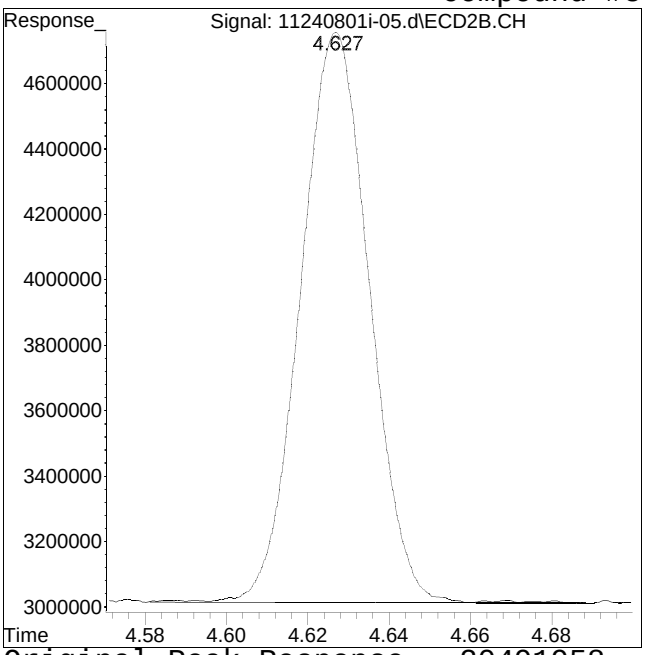


Original Peak Response = 20925845 Manual Peak Response = 20608823 M4
M4 = Poor automated baseline construction.

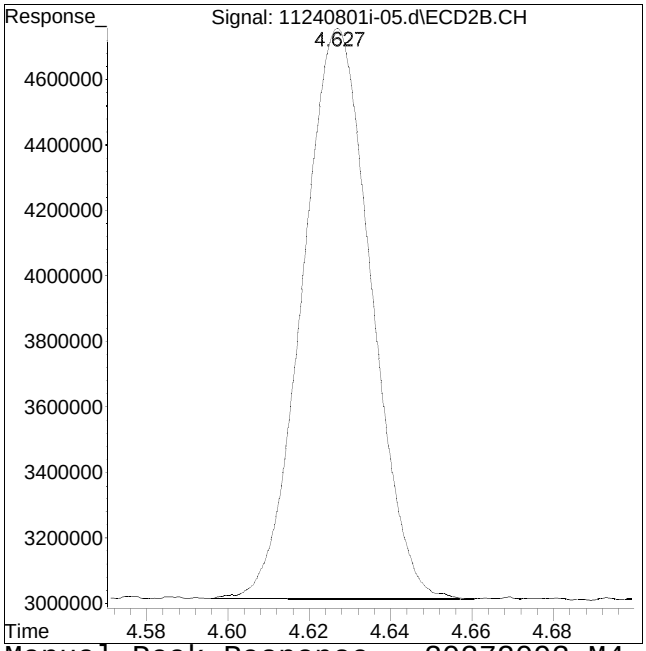
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #55: Dieldrin #2



Original Peak Response = 20491958



Manual Peak Response = 20372093 M4

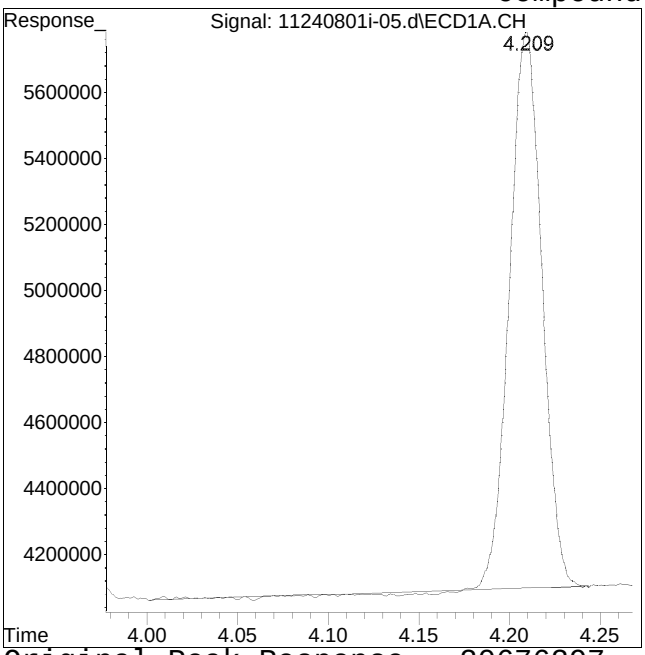
M4 = Poor automated baseline construction.

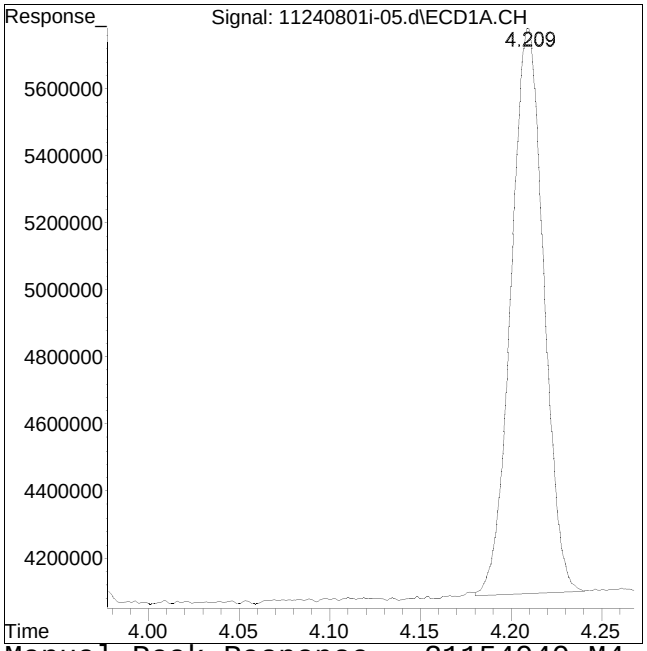
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #18: Endrin





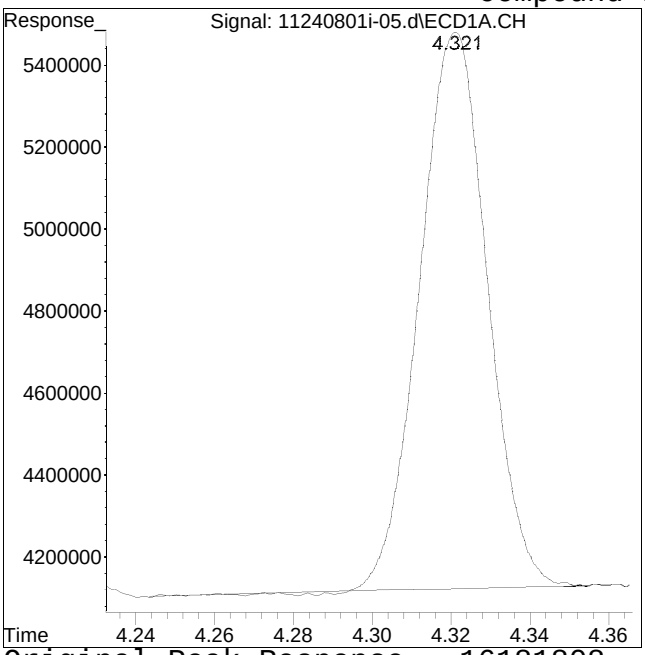
Original Peak Response = 20676297 Manual Peak Response = 21154040 M4
M4 = Poor automated baseline construction.

Manual Integration Report

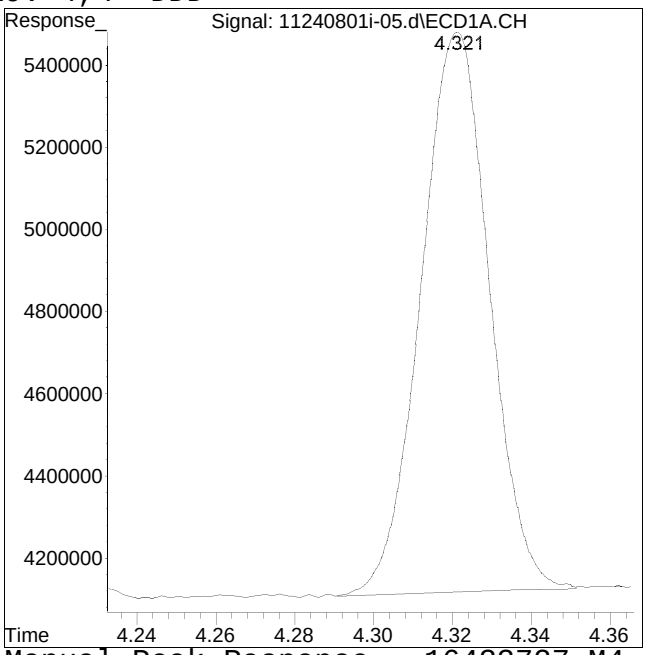
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #19: 4,4'-DDD



Original Peak Response = 16181808



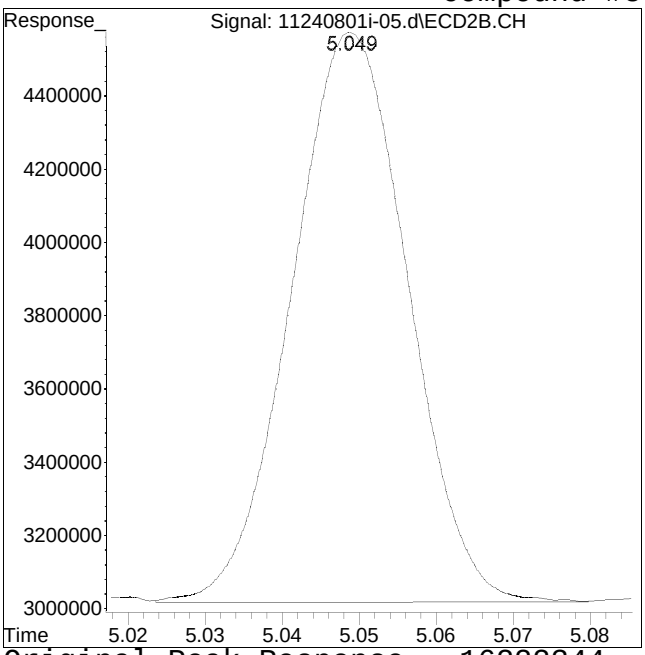
Manual Peak Response = 16433727 M4

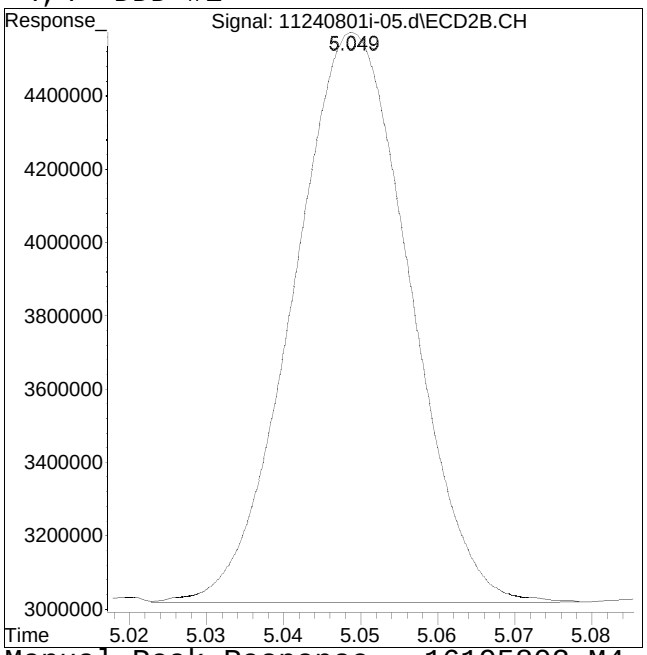
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #57: 4,4'-DDD #2



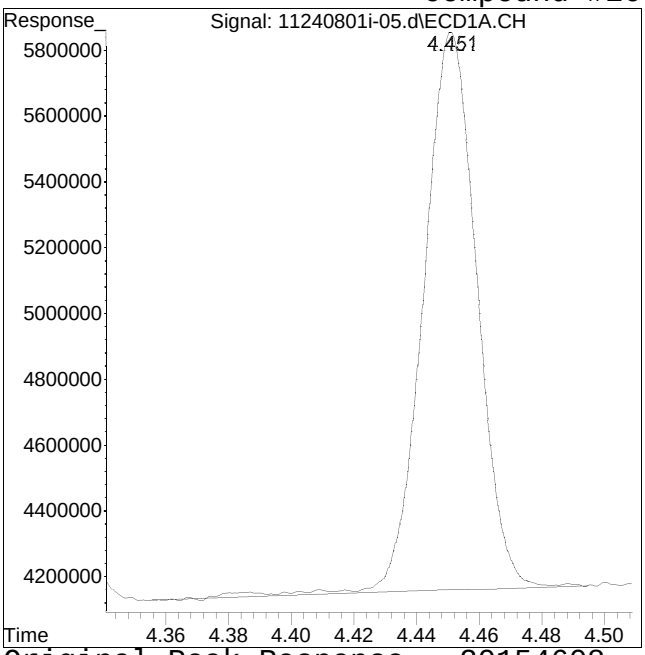


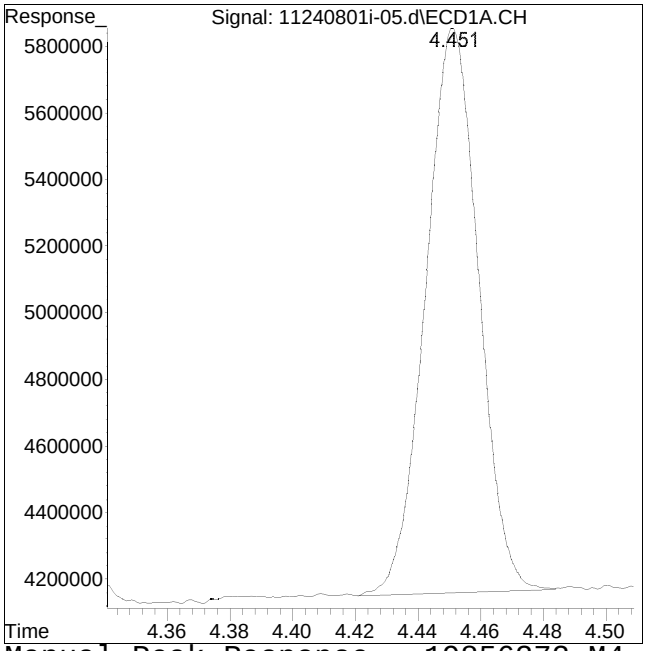
Original Peak Response = 16222344 Manual Peak Response = 16195802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #20: Endosulfan II



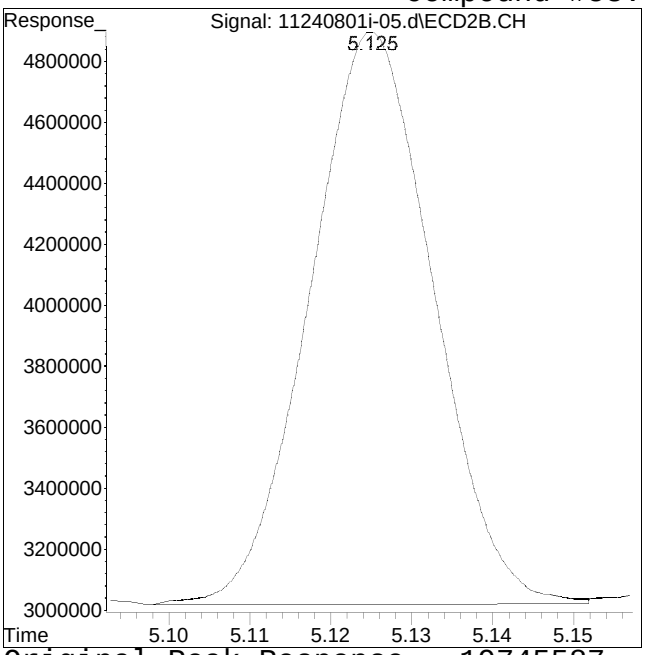


Original Peak Response = 20154608 Manual Peak Response = 19856372 M4
M4 = Poor automated baseline construction.

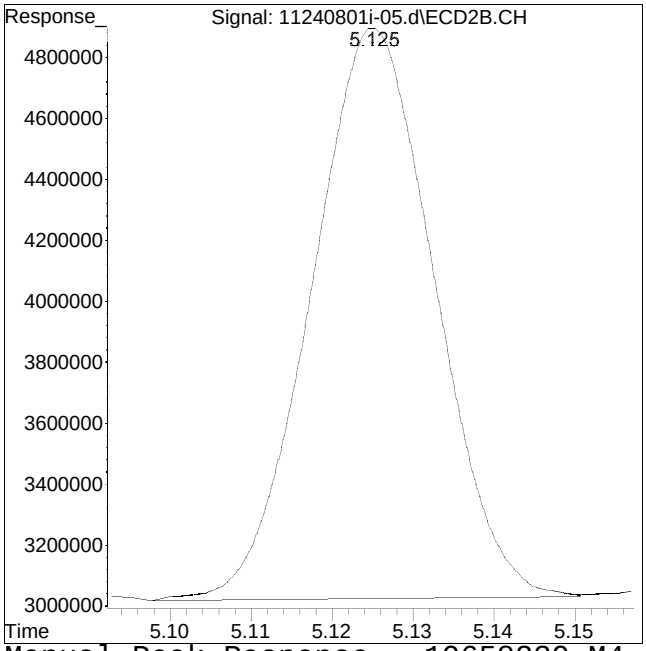
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #58: Endosulfan II #2



Original Peak Response = 19745587



Manual Peak Response = 19658239 M4

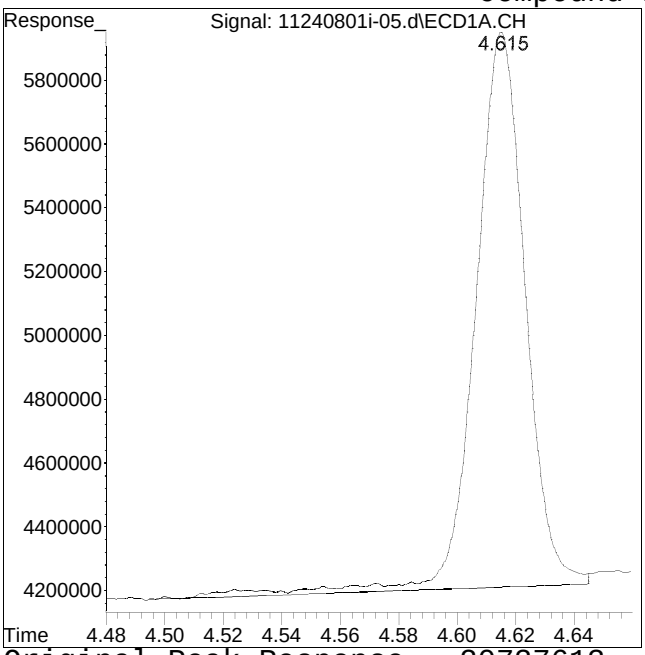
M4 = Poor automated baseline construction.

Manual Integration Report

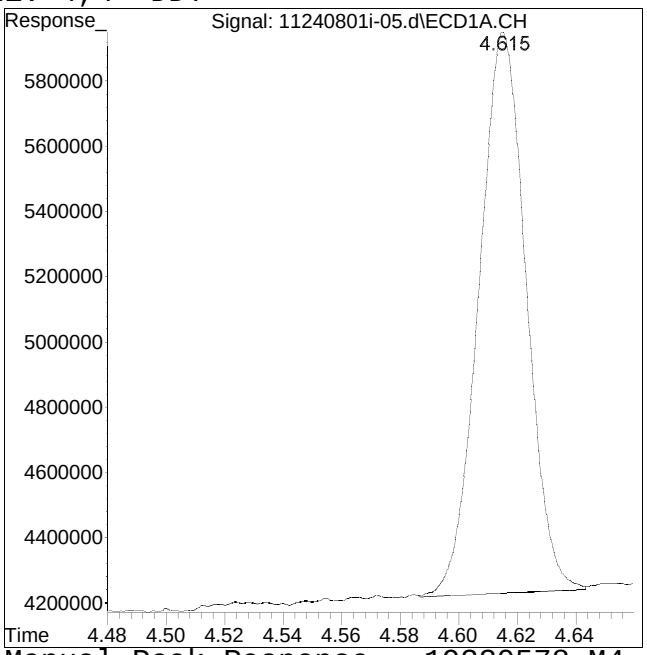
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #21: 4,4'-DDT



Original Peak Response = 20737613



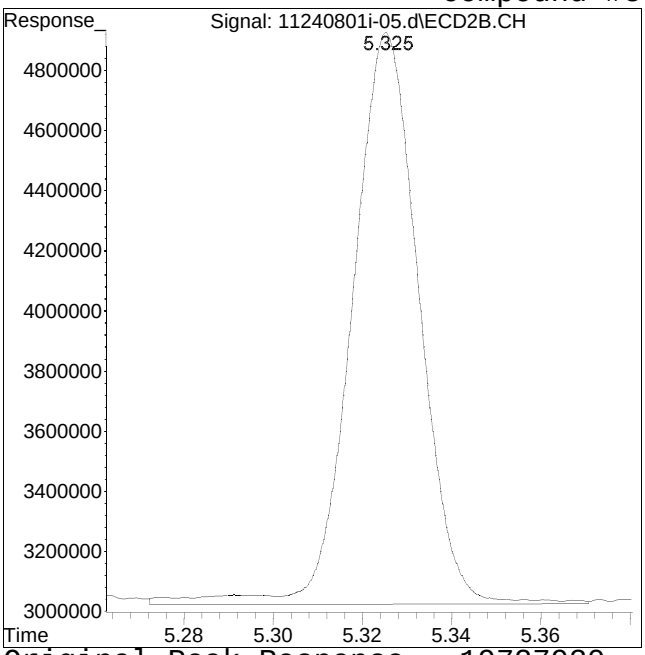
Manual Peak Response = 19330578 M4

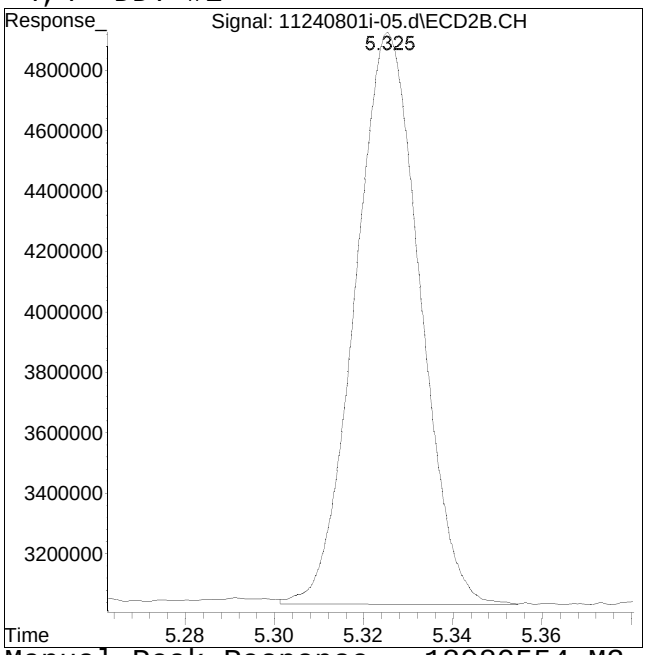
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #59: 4,4'-DDT #2





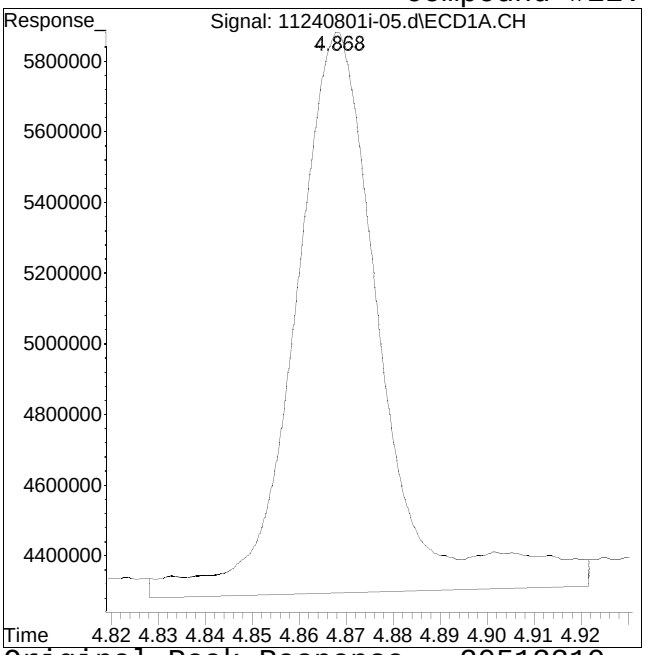
Original Peak Response = 19727930 Manual Peak Response = 18980554 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

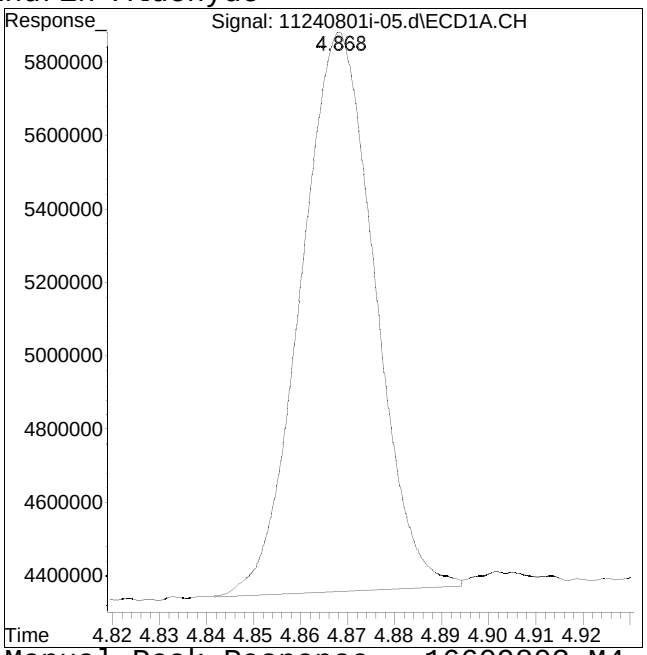
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #22: Endrin Aldehyde



Original Peak Response = 20513310



Manual Peak Response = 16609803 M4

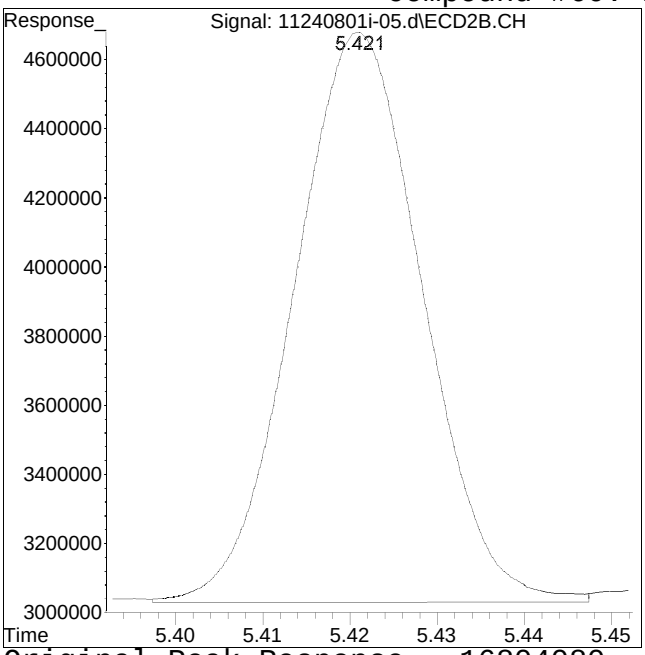
M4 = Poor automated baseline construction.

Manual Integration Report

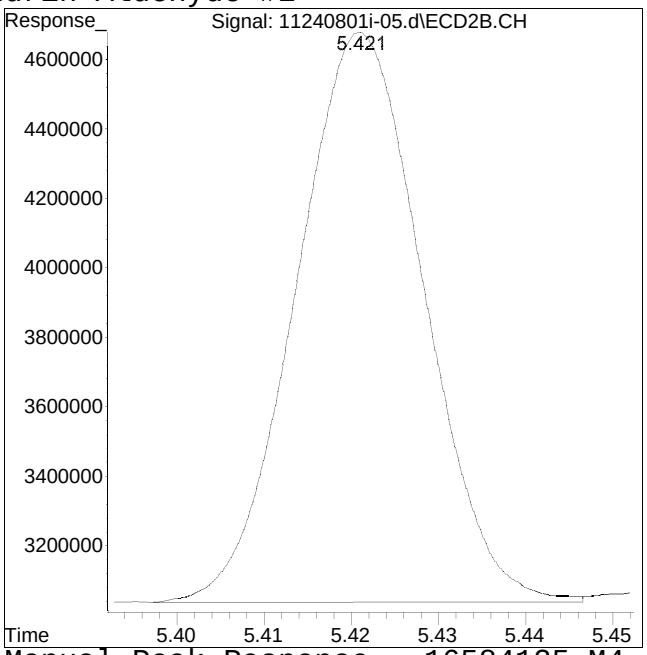
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 16804080



Manual Peak Response = 16584125 M4

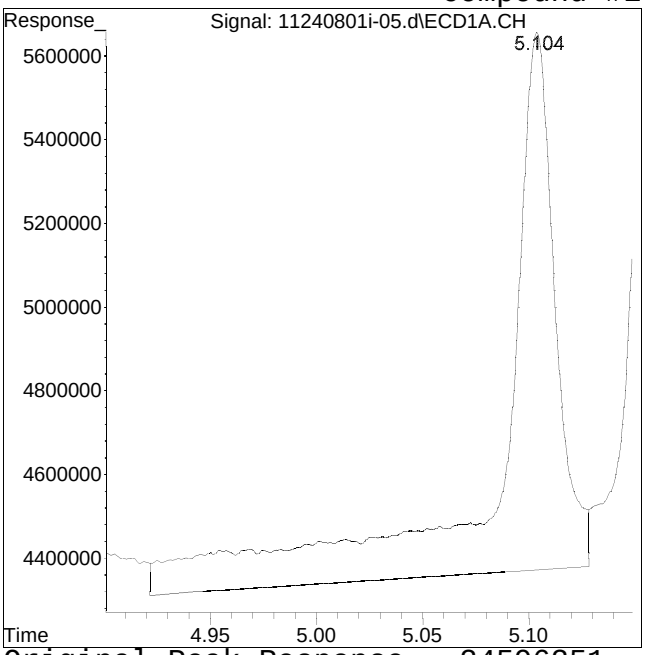
M4 = Poor automated baseline construction.

Manual Integration Report

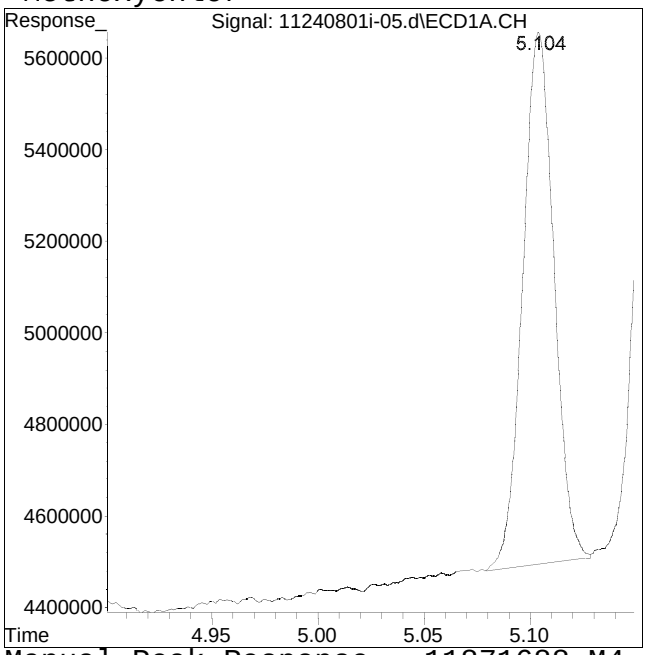
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #23: Methoxychlor



Original Peak Response = 24596251



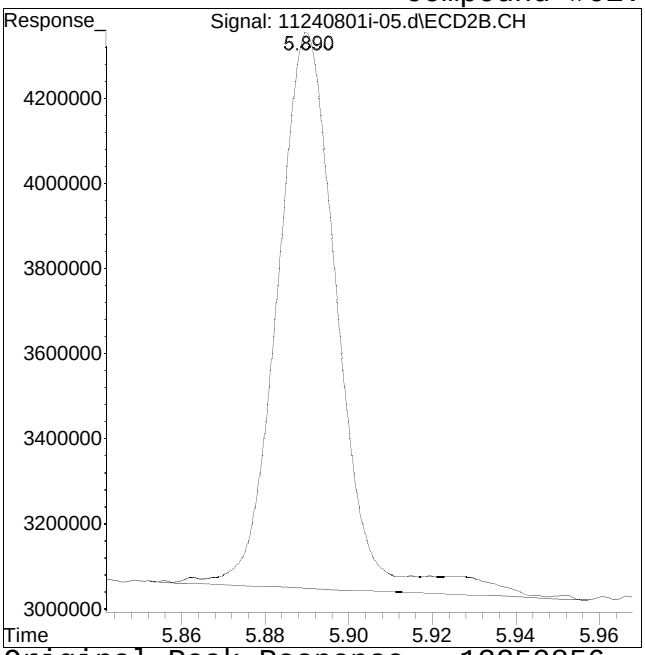
Manual Peak Response = 11871688 M4

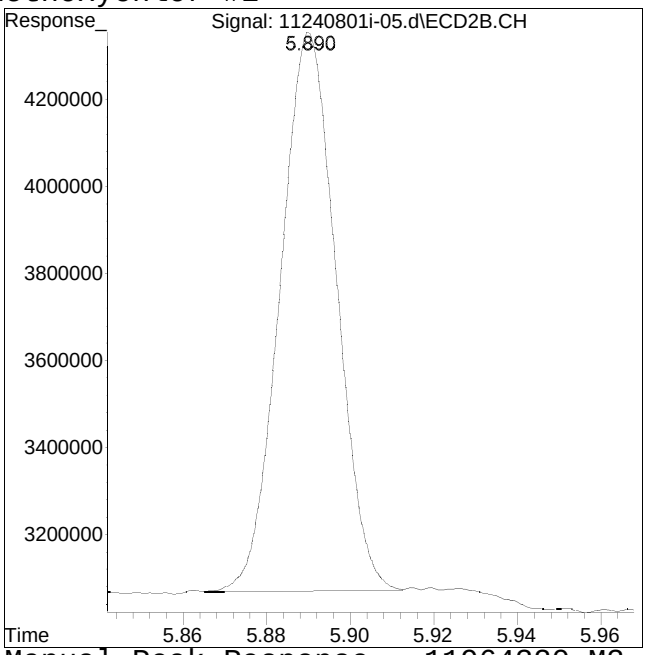
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #61: Methoxychlor #2





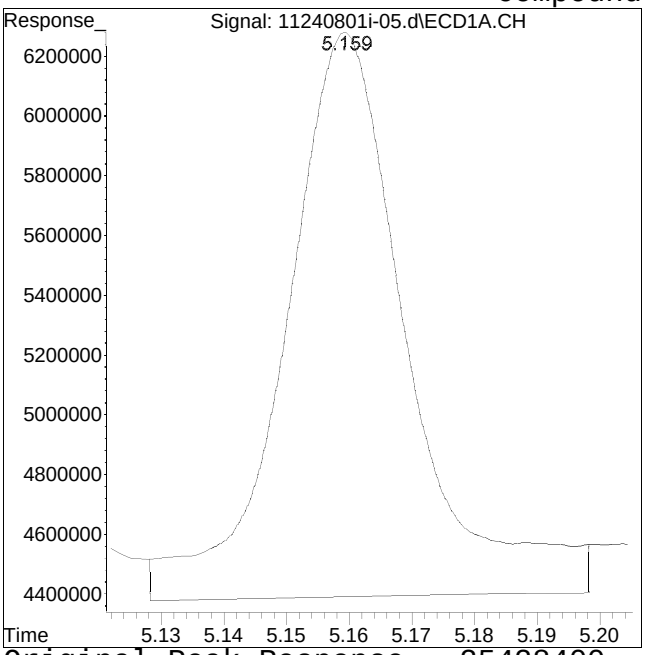
Original Peak Response = 13250856 Manual Peak Response = 11964320 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

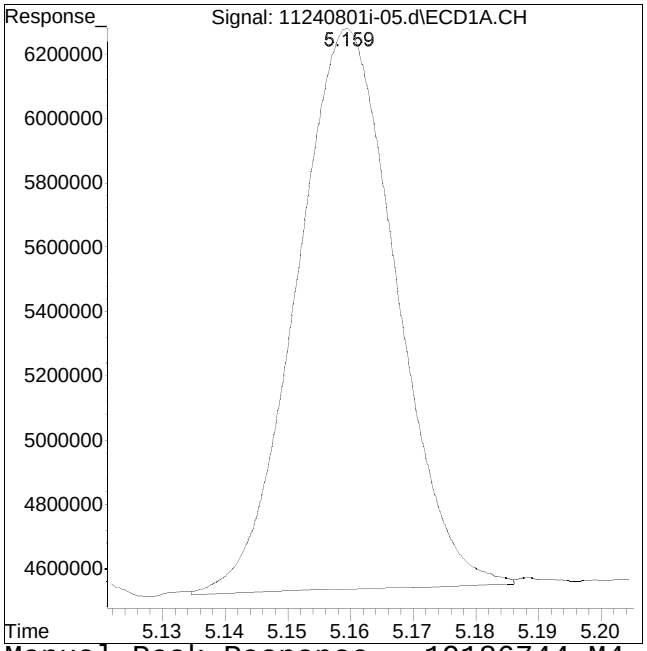
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #24: Mirex



Original Peak Response = 25428400



Manual Peak Response = 19186744 M4

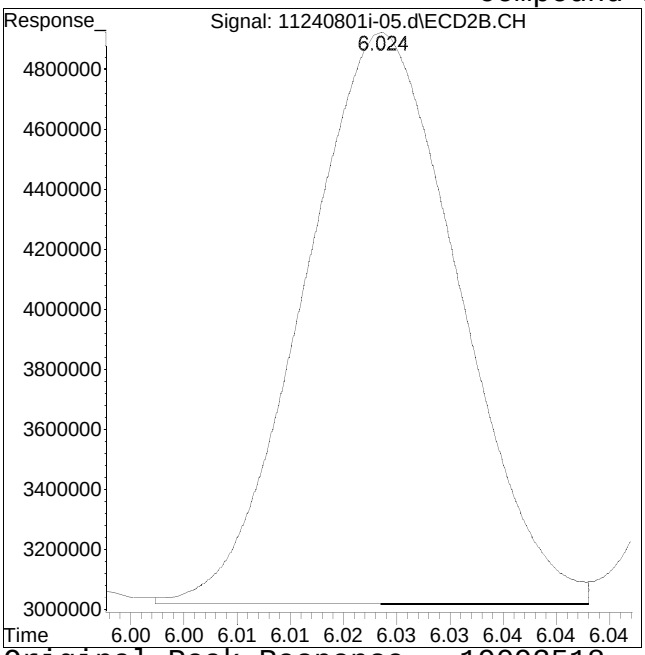
M4 = Poor automated baseline construction.

Manual Integration Report

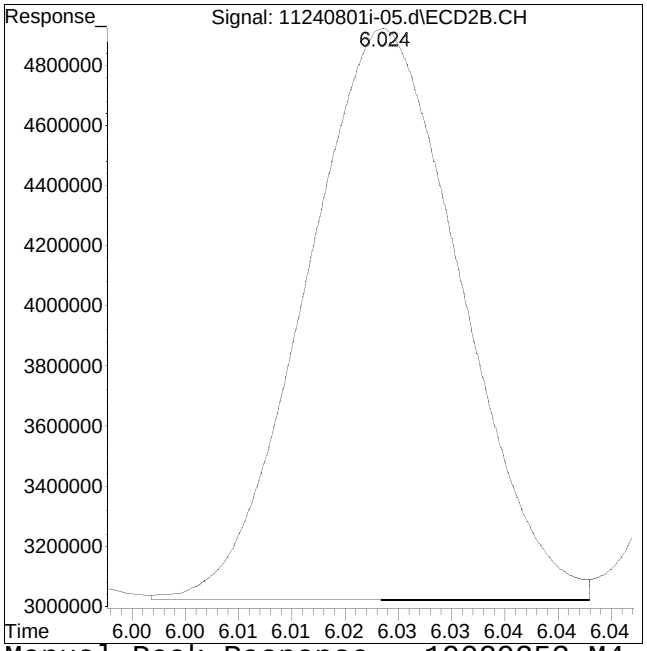
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #62: Mirex #2



Original Peak Response = 19093518



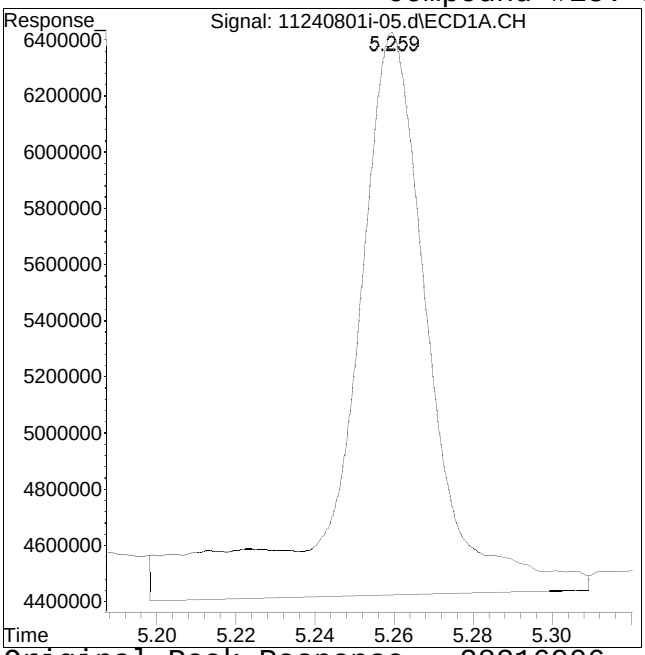
Manual Peak Response = 19029253 M4

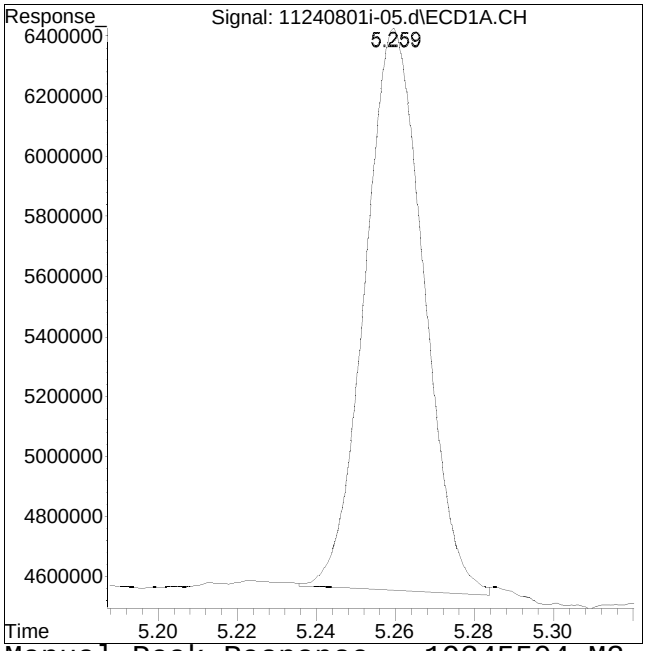
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #25: Endosulfan Sulfate





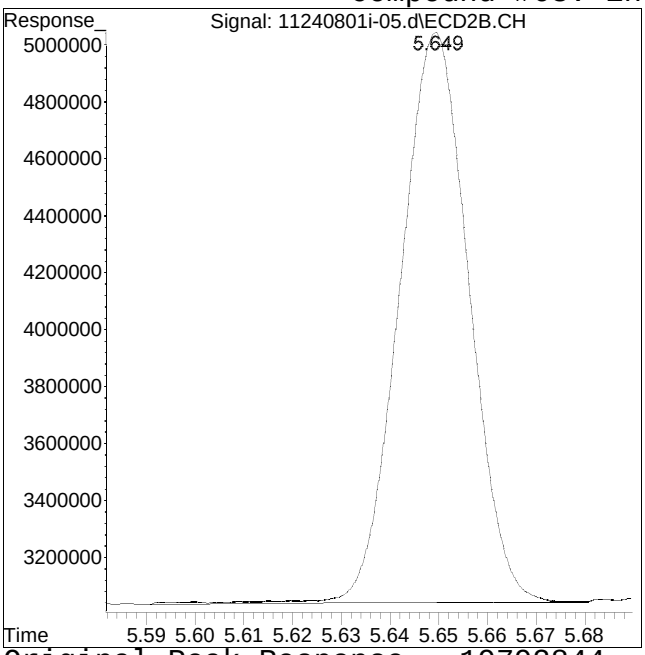
Original Peak Response = 28216906 Manual Peak Response = 19345504 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

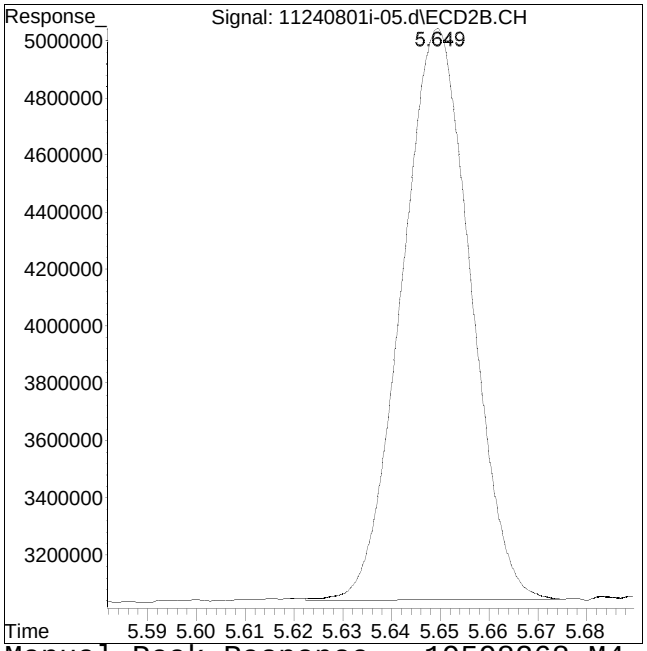
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 19792844



Manual Peak Response = 19598268 M4

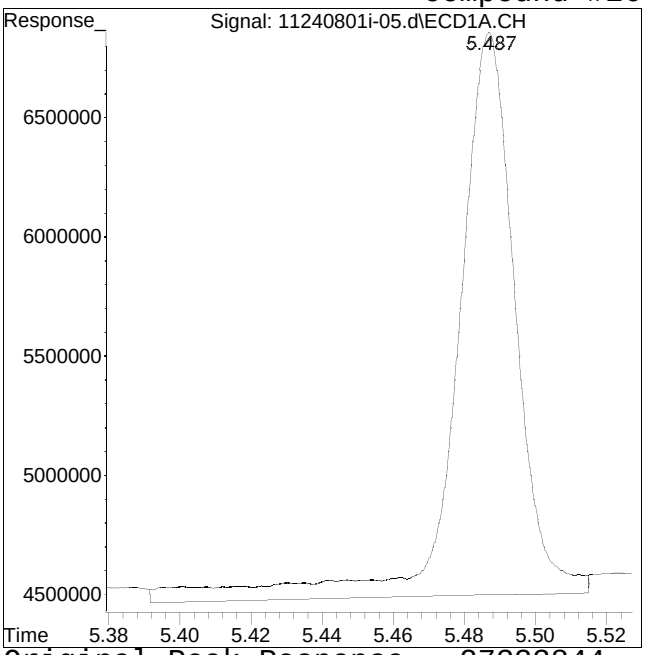
M4 = Poor automated baseline construction.

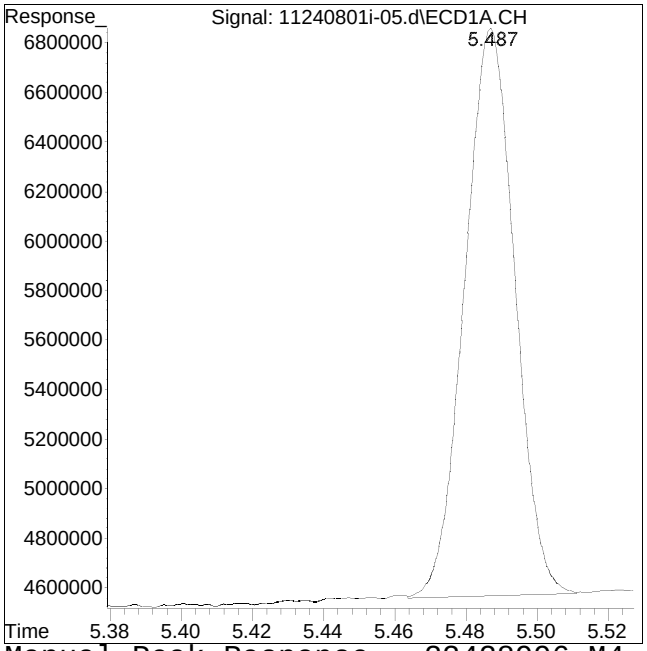
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #26: Endrin Ketone



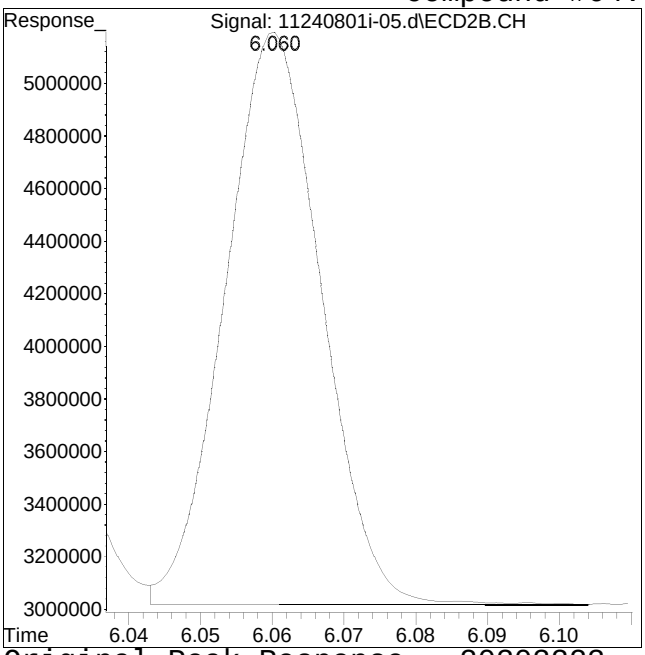


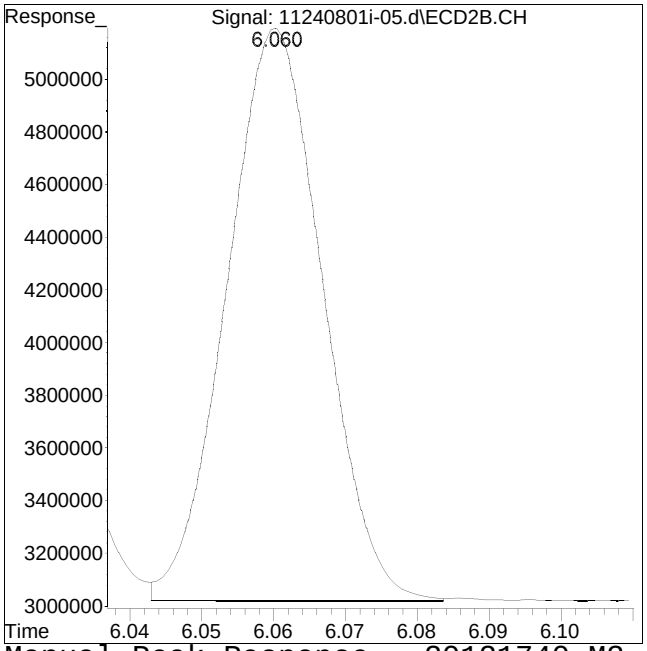
Original Peak Response = 27333844 Manual Peak Response = 22428996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #64: Endrin Ketone #2





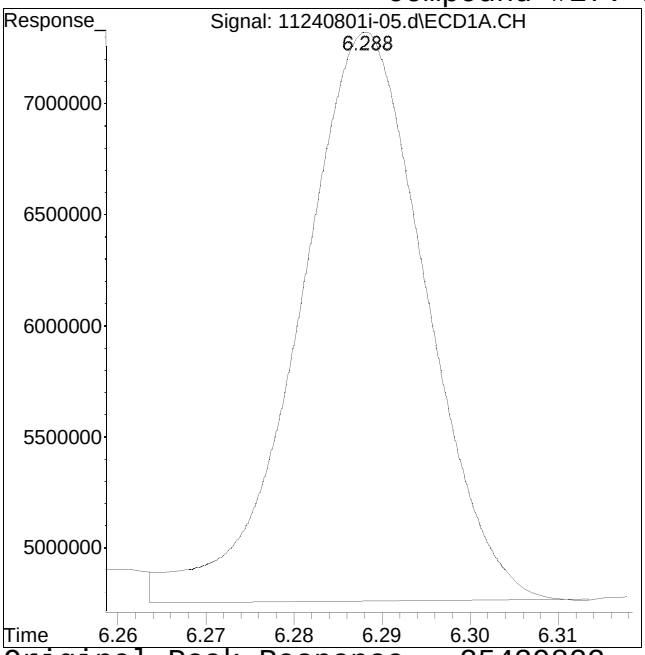
Original Peak Response = 20303223 Manual Peak Response = 20121740 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

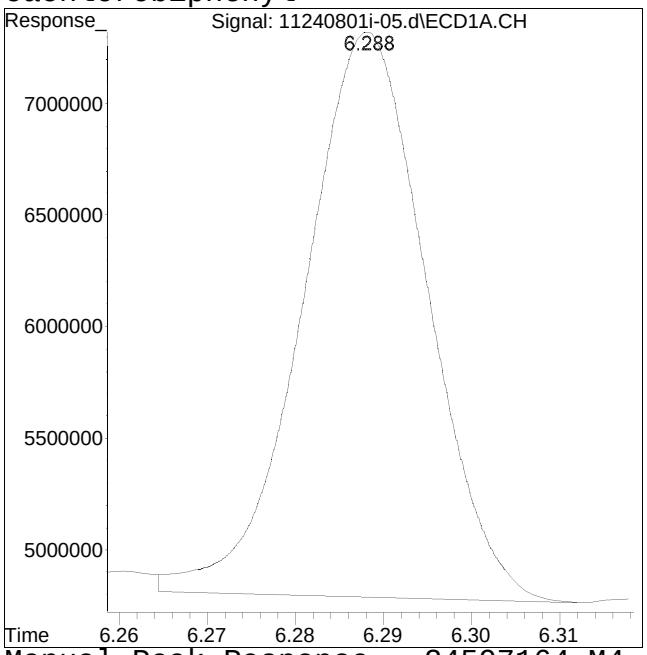
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 25439822



Manual Peak Response = 24597164 M4

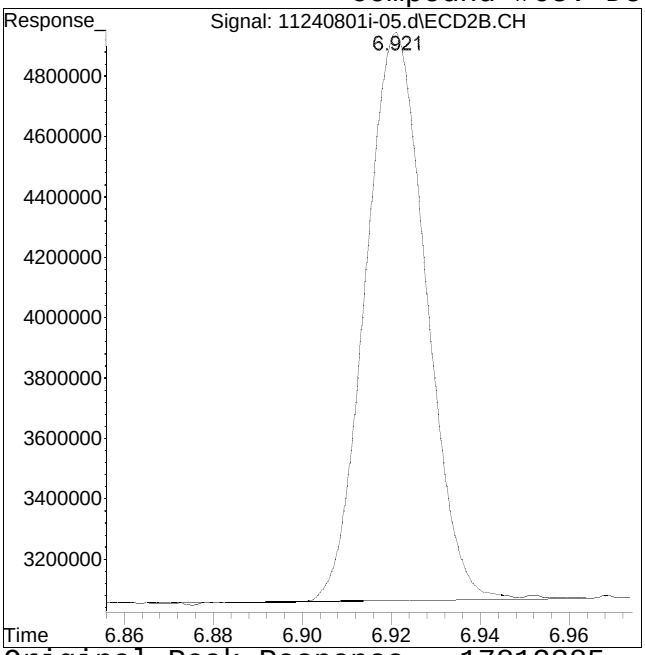
M4 = Poor automated baseline construction.

Manual Integration Report

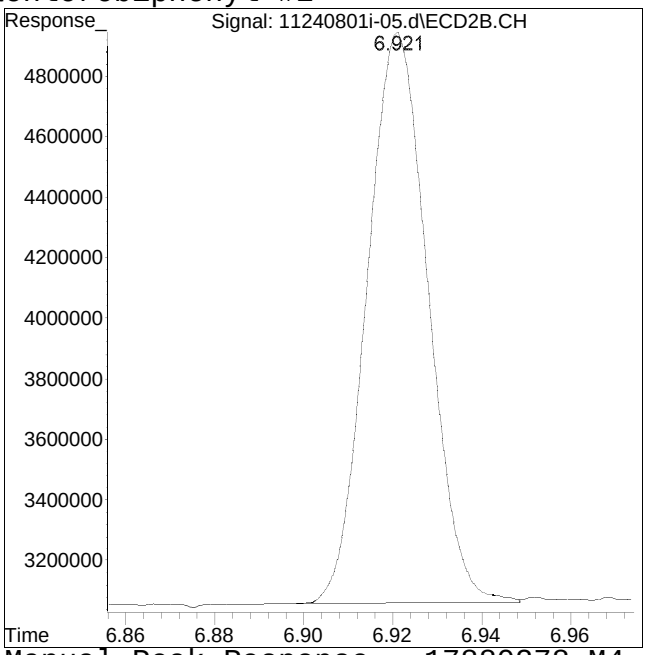
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 17812385



Manual Peak Response = 17880278 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	225.3E6	182.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	29080990	25002980	3.146M4	3.174M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.29%#	6.35%#
27) s	Decachlorobi	6.288	6.920	35723670	25963491	3.673M3	3.623
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.35%#	7.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	41044675	28990626	3.378M4	3.407M4
4) t	alpha-BHC	1.963	2.270	37177271	33446228	2.704M4	2.766M4
5) t	gamma-BHC (l	2.165	2.556	36664929	32438962	2.866	2.938M4
6) t	beta-BHC	2.221	2.622	18018371	17068674	3.280M4	3.539M4
7) t	delta-BHC	2.349	2.889	35236787	32007816	2.741M4	2.855M4
8) t	Heptachlor	2.513	2.951	36683442	36318635	3.092M4	3.237M4
9) t	Aldrin	2.755	3.270	33013771	31469739	2.925M3	3.041M4
10) t	Alachlor	2.876	3.153	6704352	6156990	3.330M4	3.985M4
11) t	Chlorpyrifos	2.968	3.506	18438577	22860352	3.688M4	3.962M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	33482006	33318329	3.165M3	3.371
13)	t	gamma-Chlord	3.424	4.104	29652579	30160649	3.062M3	3.308M4
14)	t	alpha-Chlord	3.558	4.274	33742908	33326776	3.077M4	3.307M4
15)	t	4,4'-DDE	3.656	4.472	32070400	29145586	2.927M4	2.985M4
16)	t	Endosulfan I	3.695	4.335	31252215	31096714	3.125	3.370M4
17)	t	Dieldrin	3.954	4.627	30771717	29641213	2.966M4	3.125M4
18)	t	Endrin	4.209	4.925	31764584	30138830	3.033M4	3.136M4
19)	t	4,4'-DDD	4.321	5.049	24810460	23764919	2.902M4	3.027M3
20)	t	Endosulfan I	4.451	5.125	29573503	28438999	3.135M4	3.375M4
21)	t	4,4'-DDT	4.614	5.325	28950153	27857323	2.987M4	3.095M4
22)	t	Endrin Aldeh	4.867	5.420	24805991	23963315	3.136M3	3.415M4
23)	t	Methoxychlor	5.104	5.890	18239522	17467129	3.612M4	3.699M4
24)	t	Mirex	5.159	6.023	28822274	27405414	3.547M3	3.862M4
25)	t	Endosulfan S	5.259	5.649	28795336	28540412	3.247M3	3.461
26)	t	Endrin Keton	5.486	6.060	33725466	29365808	3.191M4	3.323M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

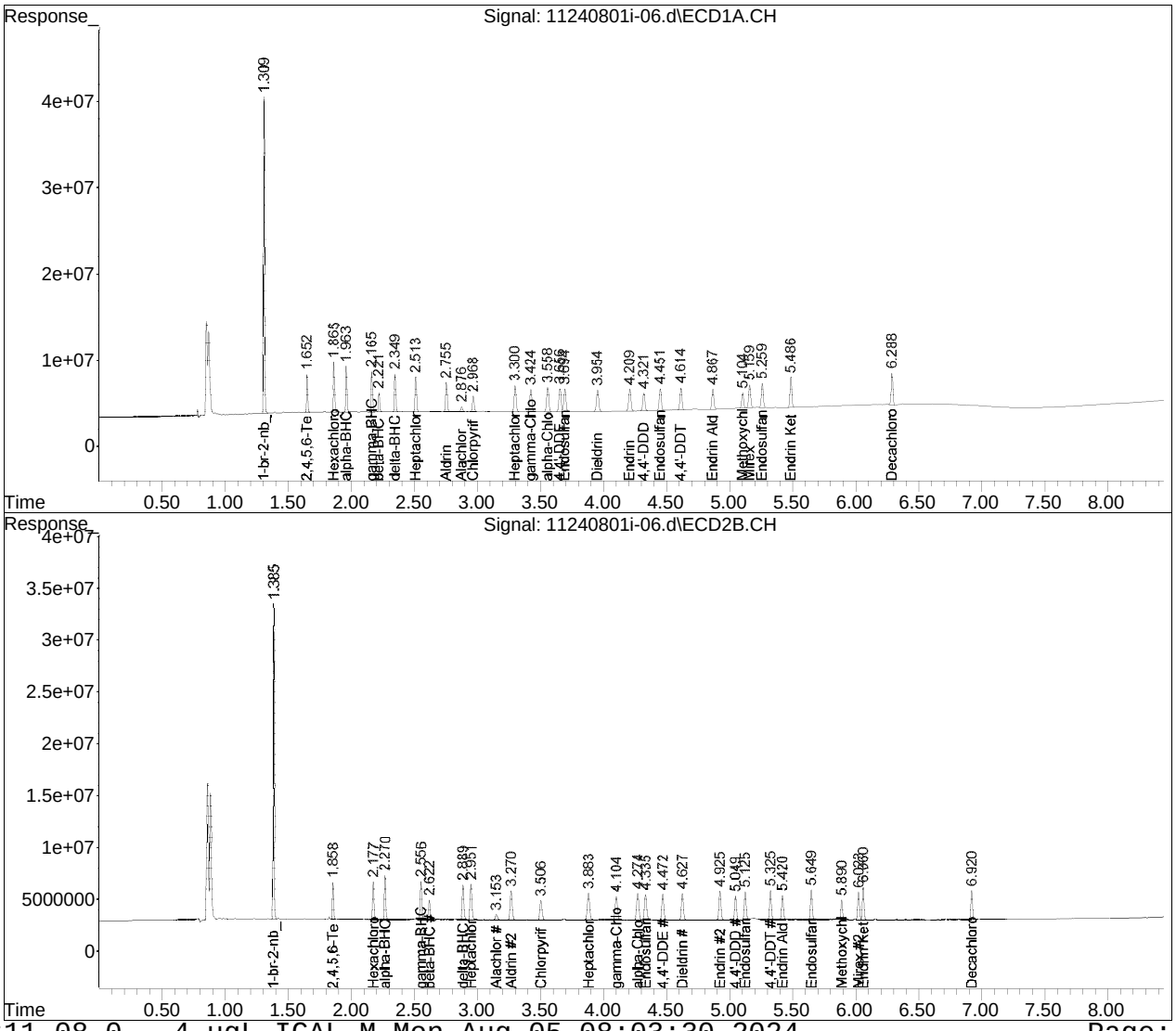
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

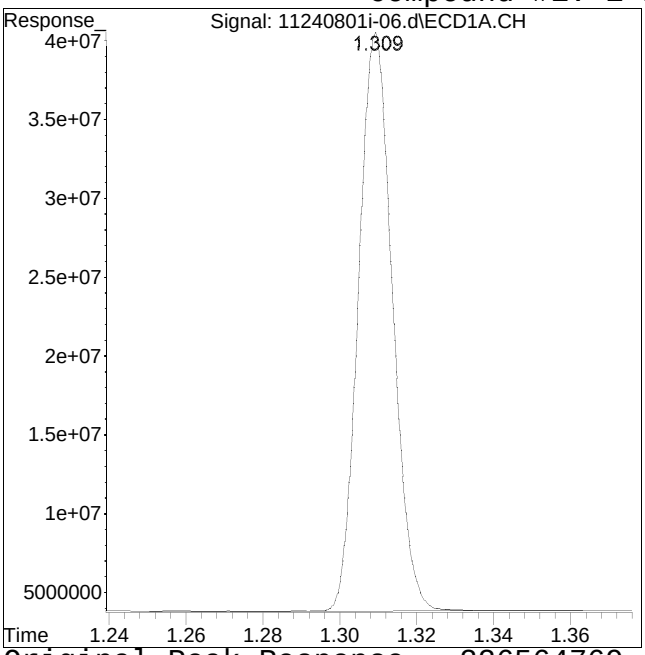


Manual Integration Report

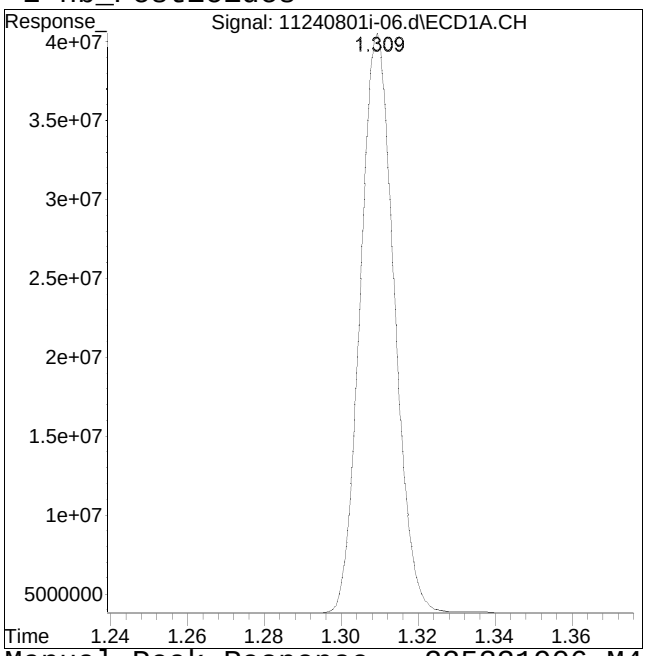
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 226564769



Manual Peak Response = 225331906 M4

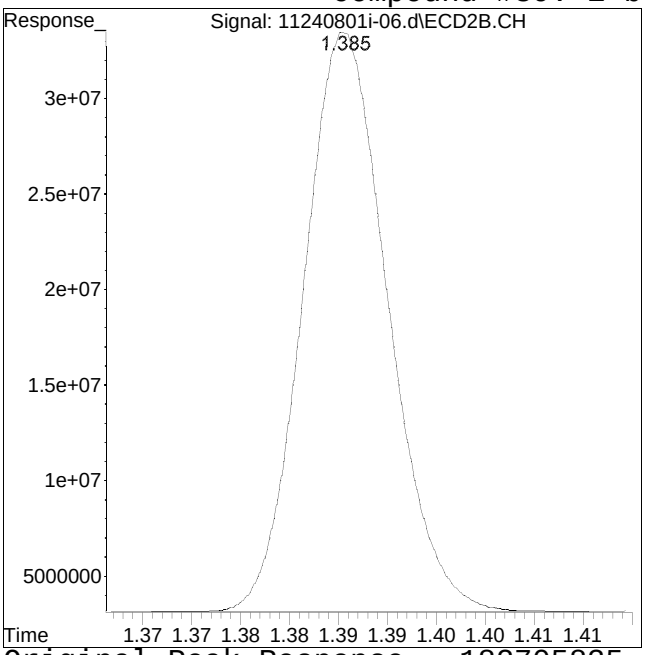
M4 = Poor automated baseline construction.

Manual Integration Report

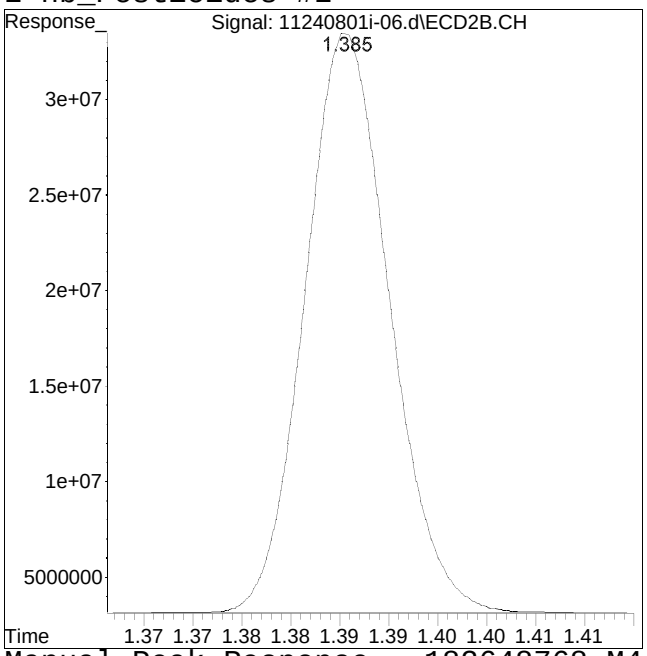
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 182705835



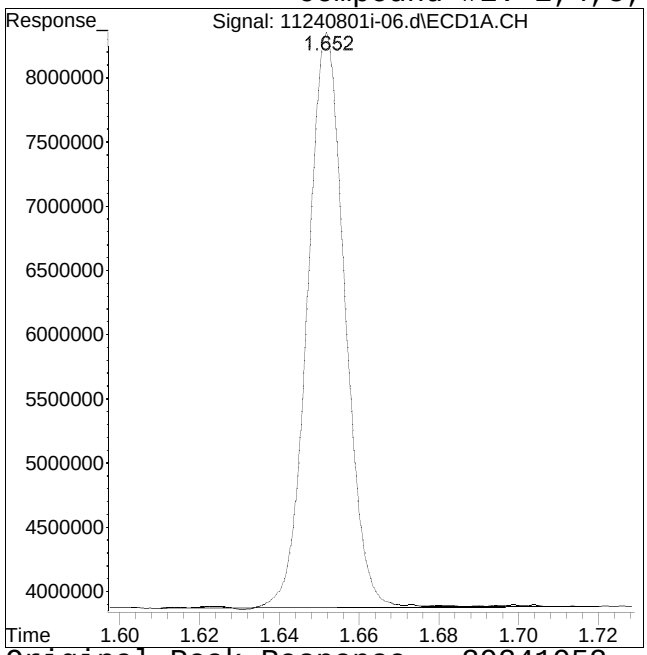
Manual Peak Response = 182648768 M4

M4 = Poor automated baseline construction.

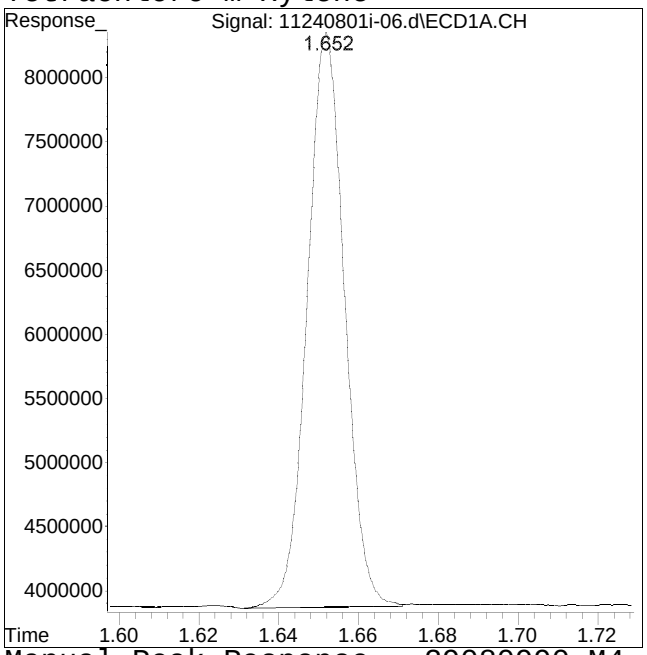
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 29241952



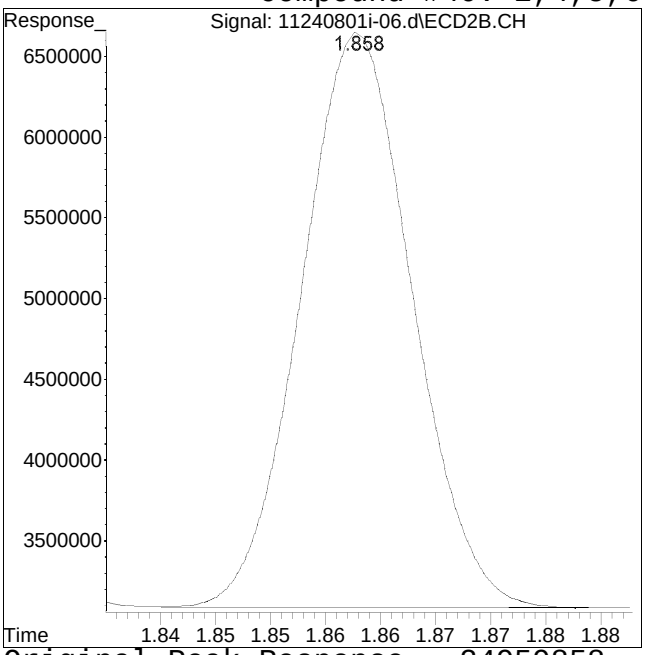
Manual Peak Response = 29080990 M4

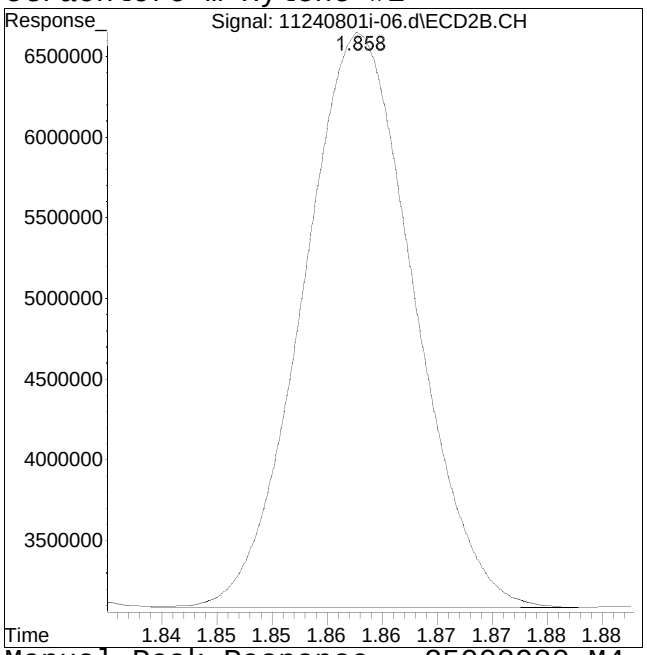
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



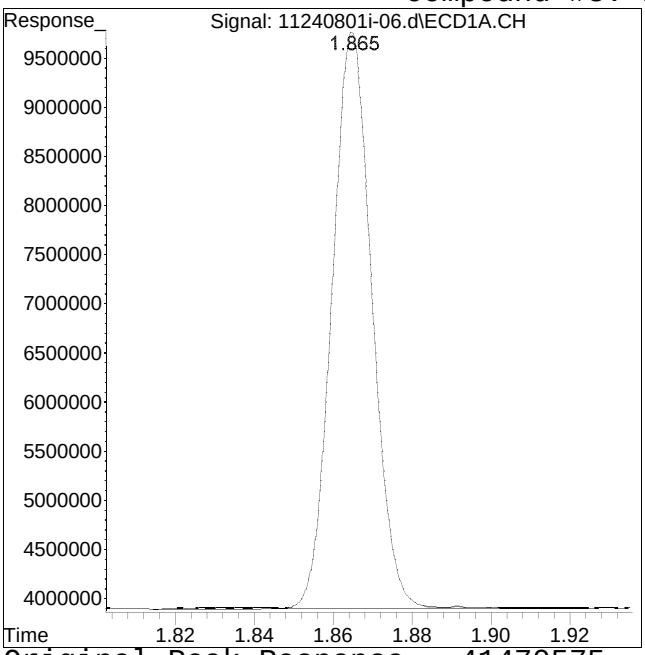


Original Peak Response = 24959858 Manual Peak Response = 25002980 M4
M4 = Poor automated baseline construction.

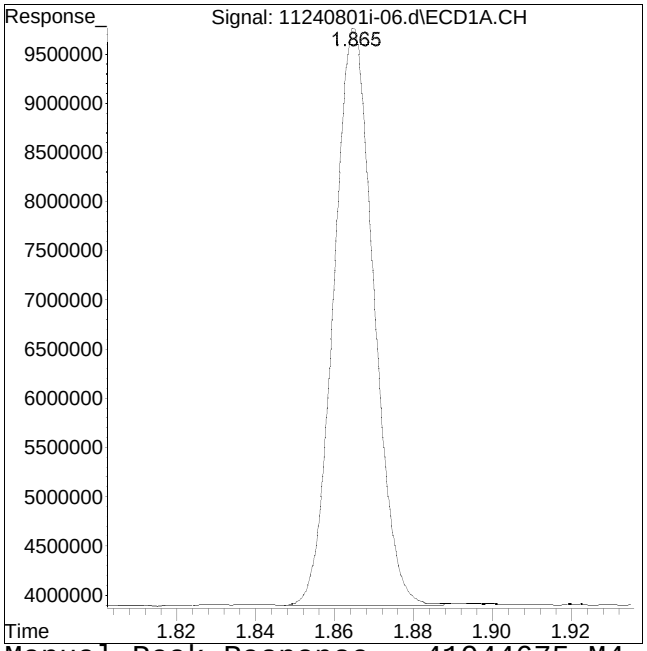
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #3: Hexachlorobenzene



Original Peak Response = 41470575



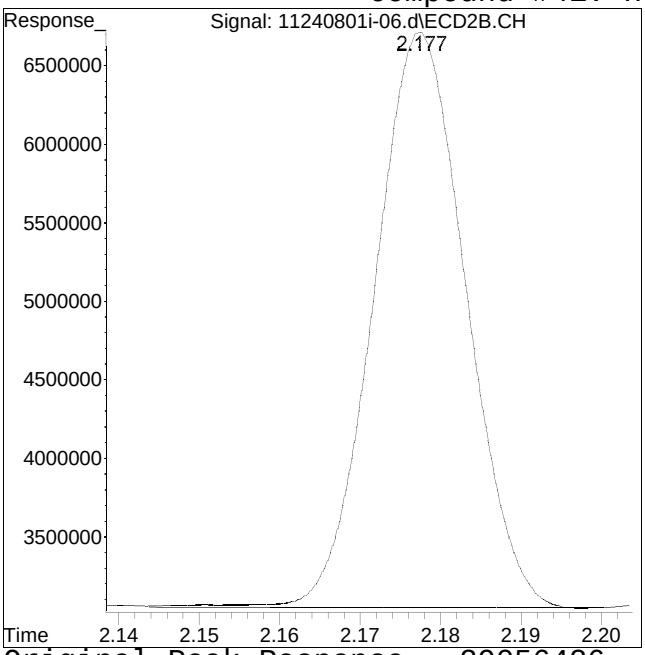
Manual Peak Response = 41044675 M4

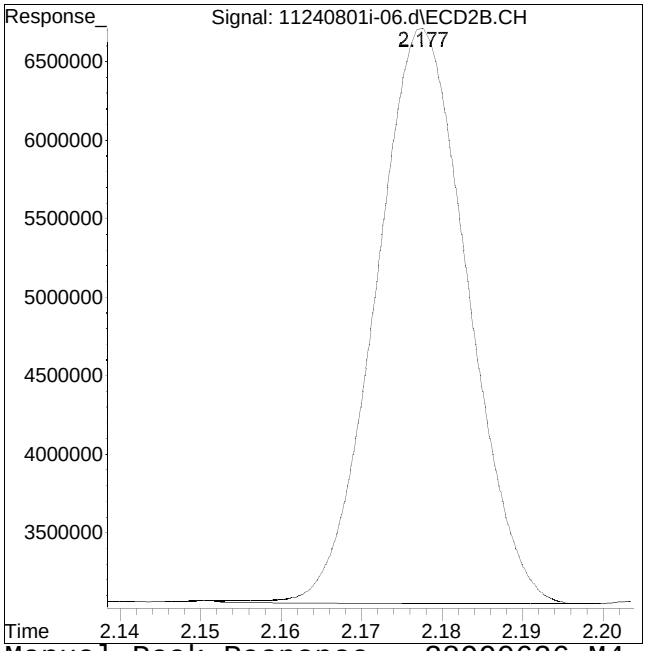
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #41: Hexachlorobenzene #2



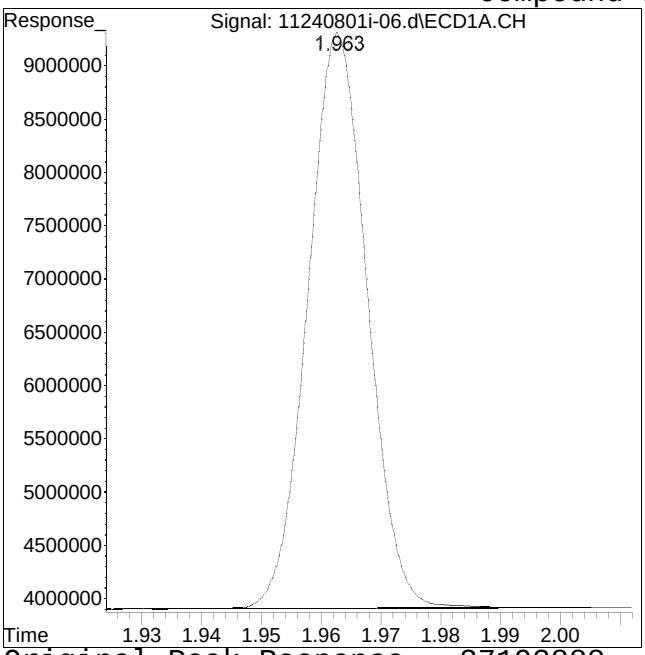


Original Peak Response = 29056426 Manual Peak Response = 28990626 M4
M4 = Poor automated baseline construction.

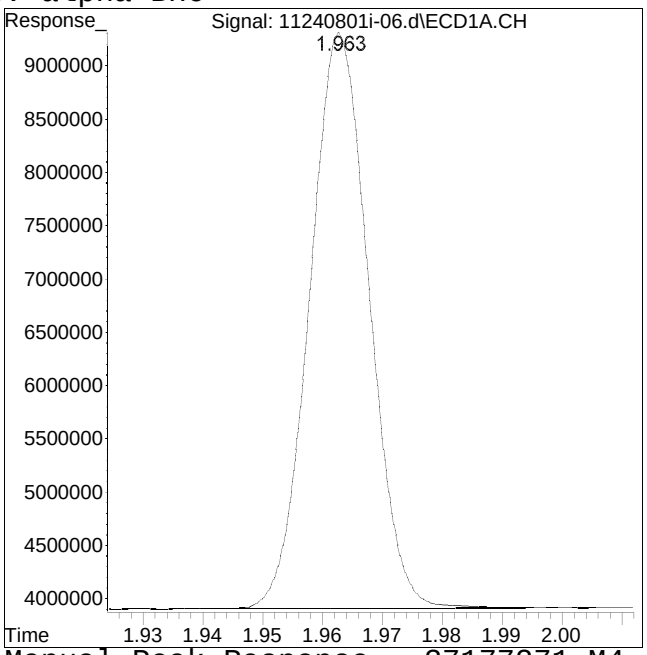
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #4: alpha-BHC



Original Peak Response = 37193888



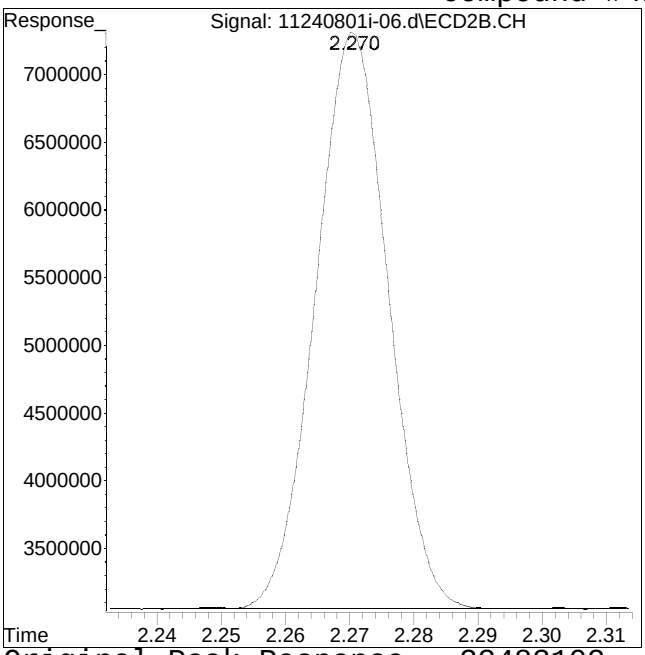
Manual Peak Response = 37177271 M4

M4 = Poor automated baseline construction.

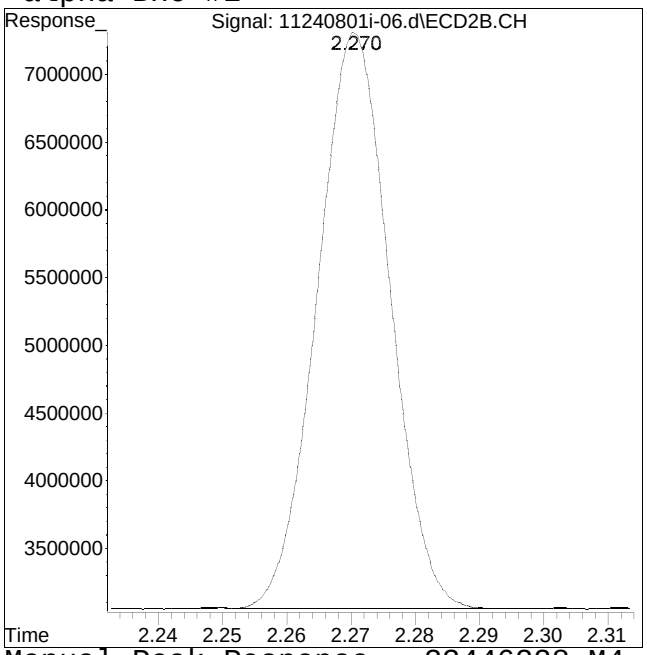
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #42: alpha-BHC #2



Original Peak Response = 33483192



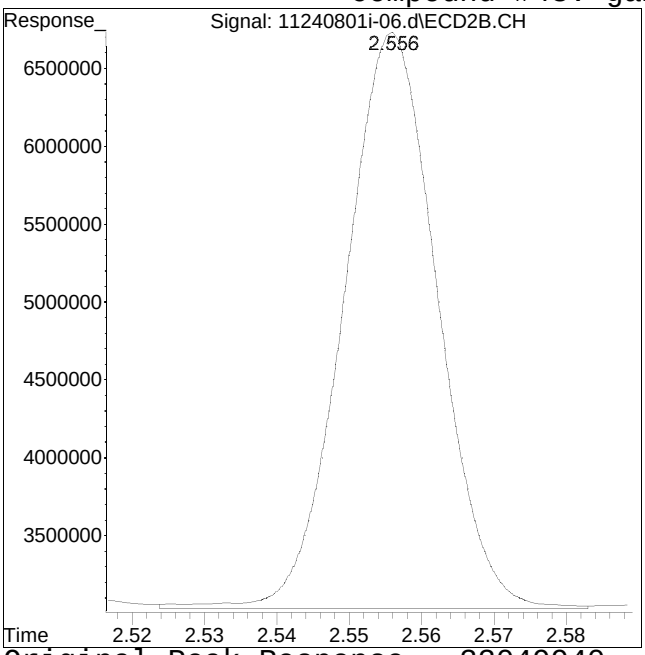
Manual Peak Response = 33446228 M4

M4 = Poor automated baseline construction.

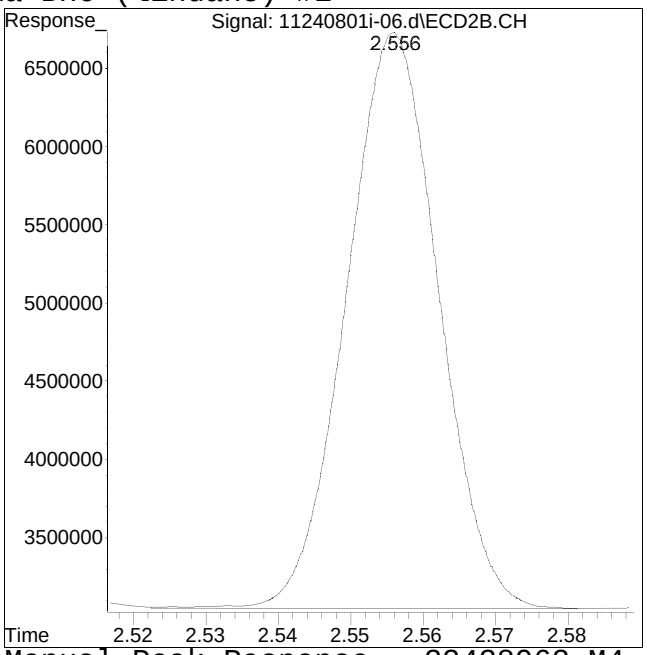
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 33049940



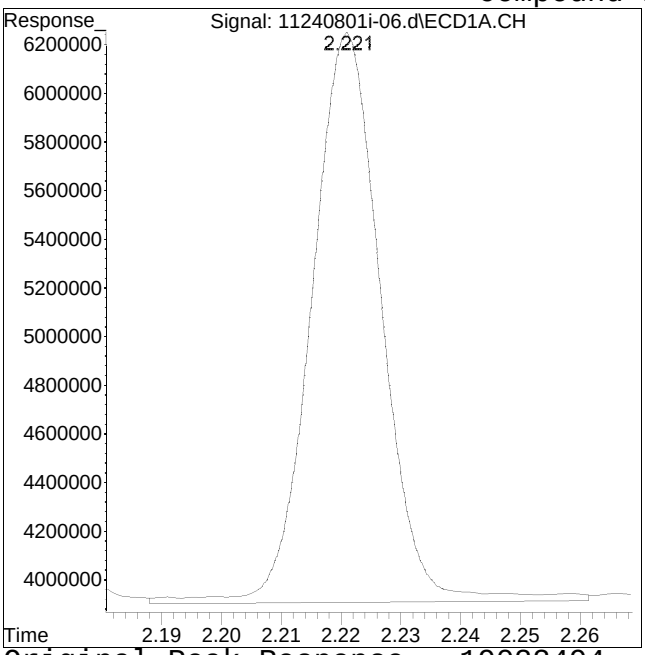
Manual Peak Response = 32438962 M4

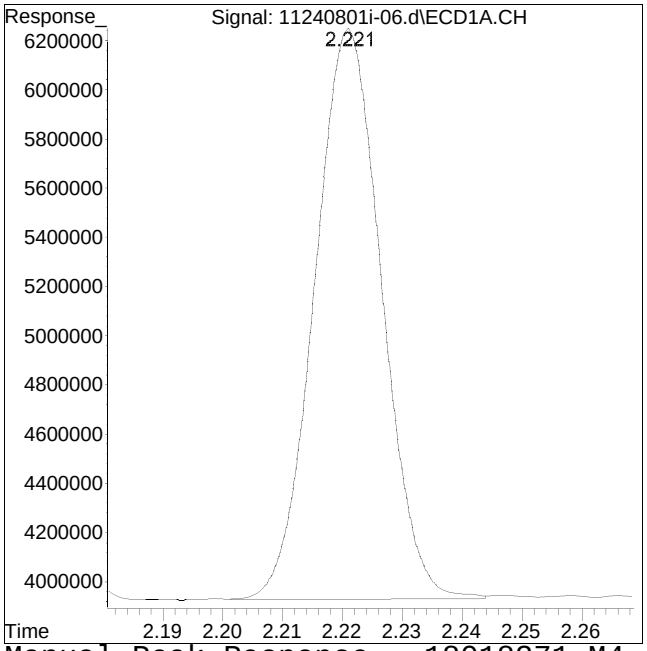
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #6: beta-BHC





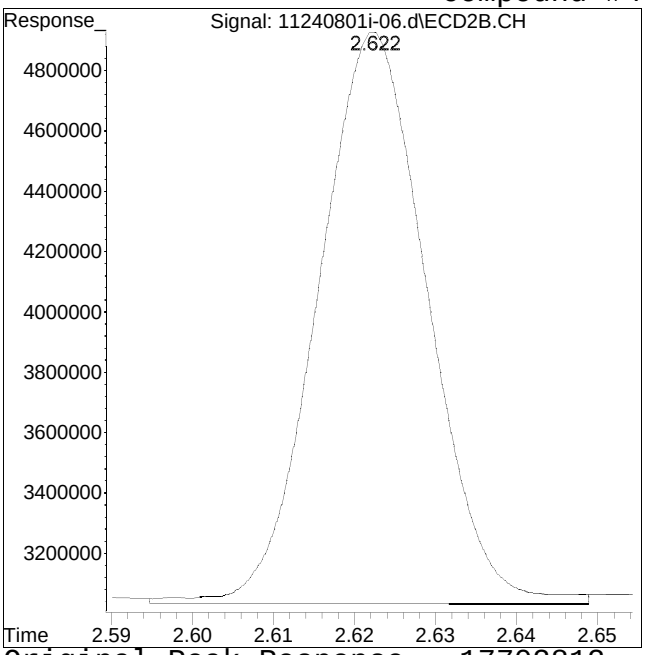
Original Peak Response = 19022494 Manual Peak Response = 18018371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

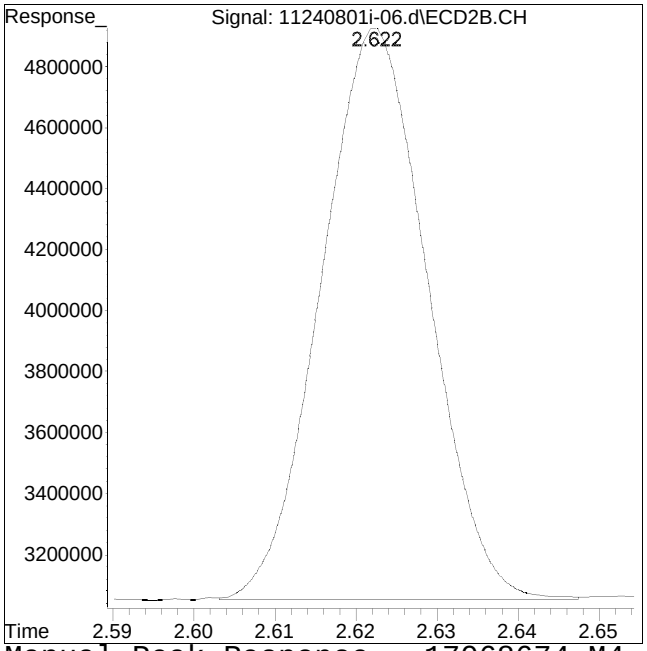
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #44: beta-BHC #2



Original Peak Response = 17702812



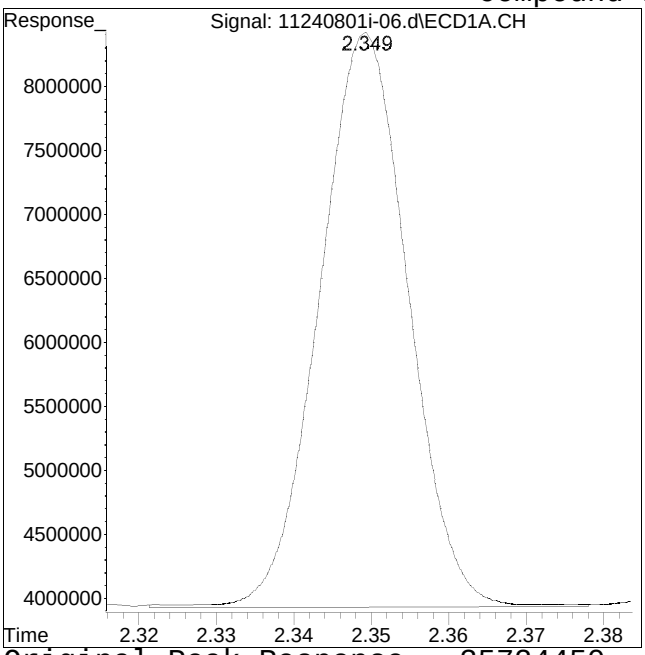
Manual Peak Response = 17068674 M4

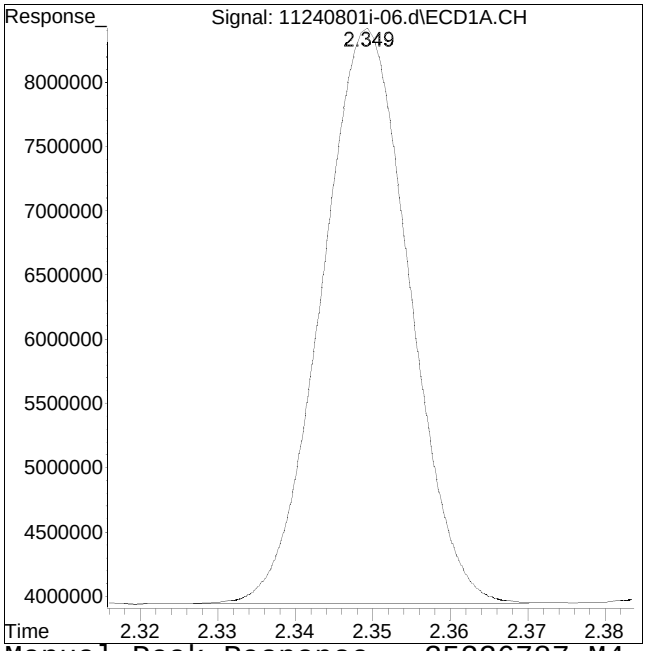
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #7: delta-BHC



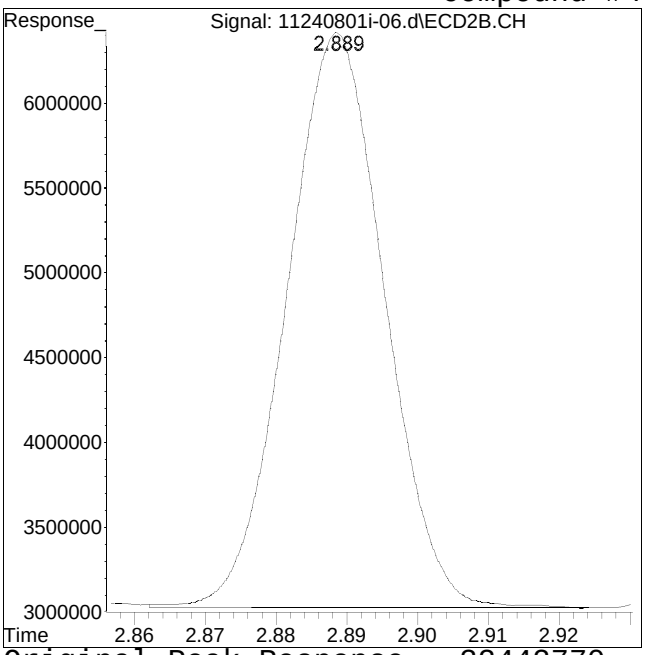


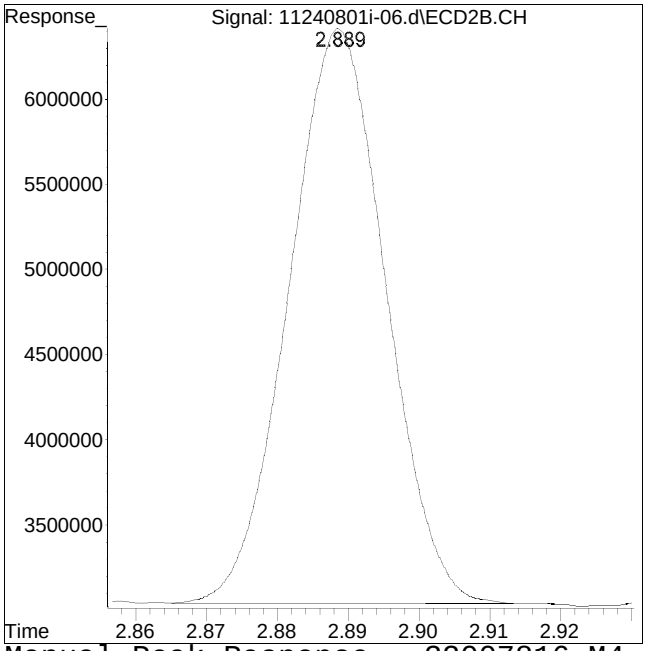
Original Peak Response = 35724450 Manual Peak Response = 35236787 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #45: delta-BHC #2





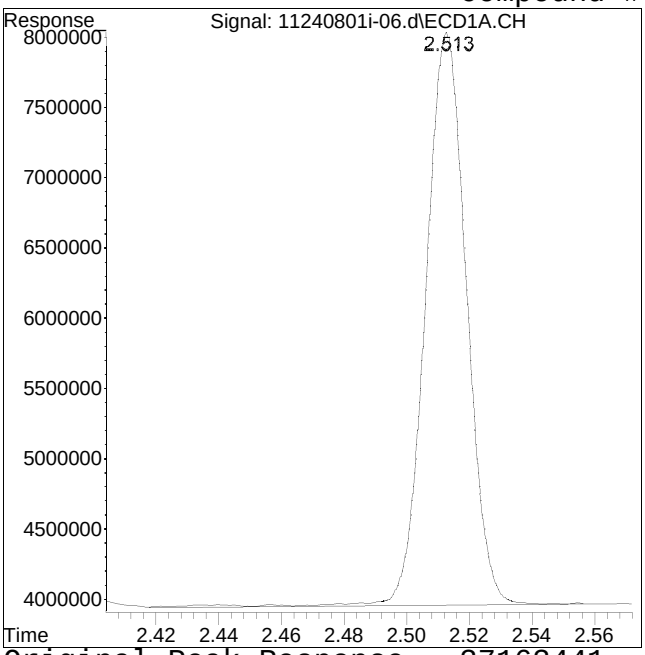
Original Peak Response = 32442770 Manual Peak Response = 32007816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

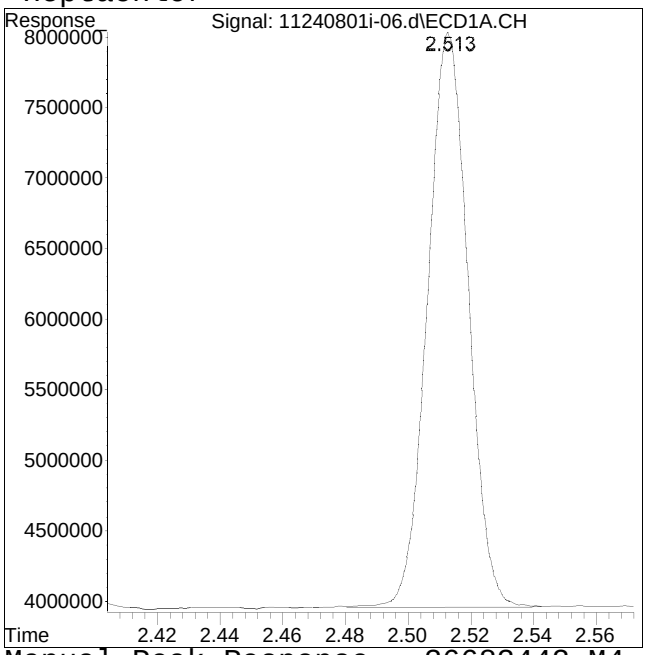
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #8: Heptachlor



Original Peak Response = 37163441



Manual Peak Response = 36683442 M4

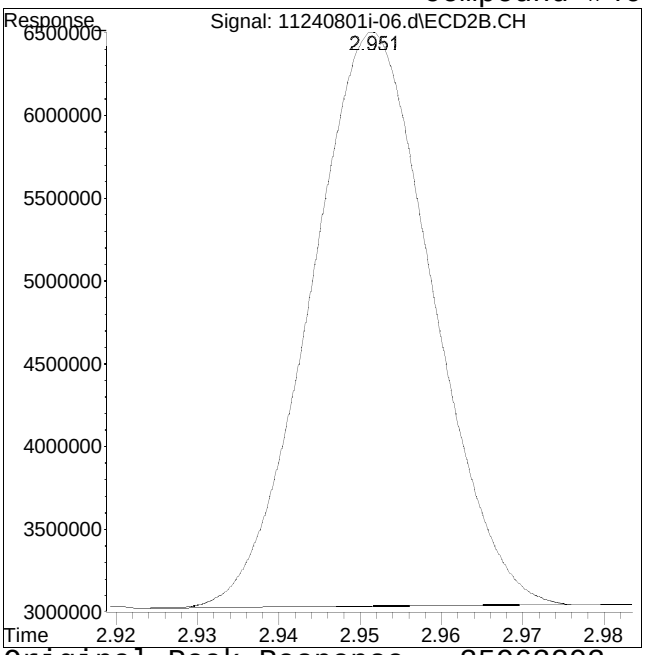
M4 = Poor automated baseline construction.

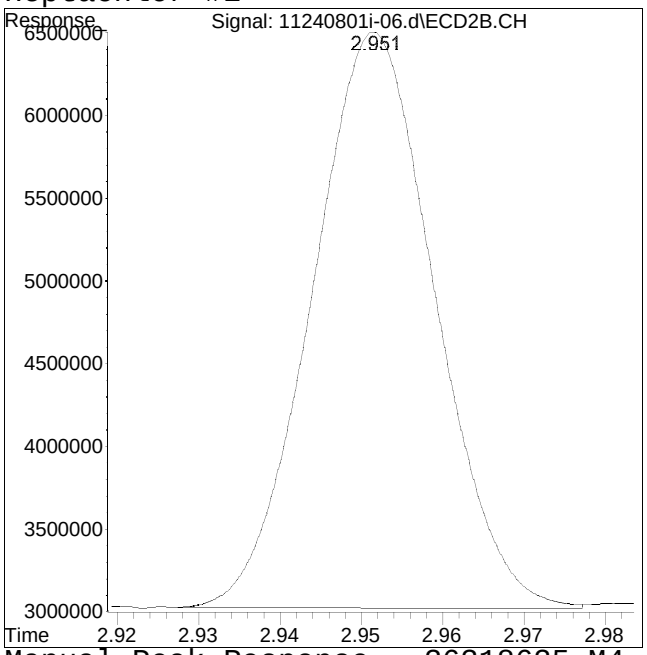
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #46: Heptachlor #2





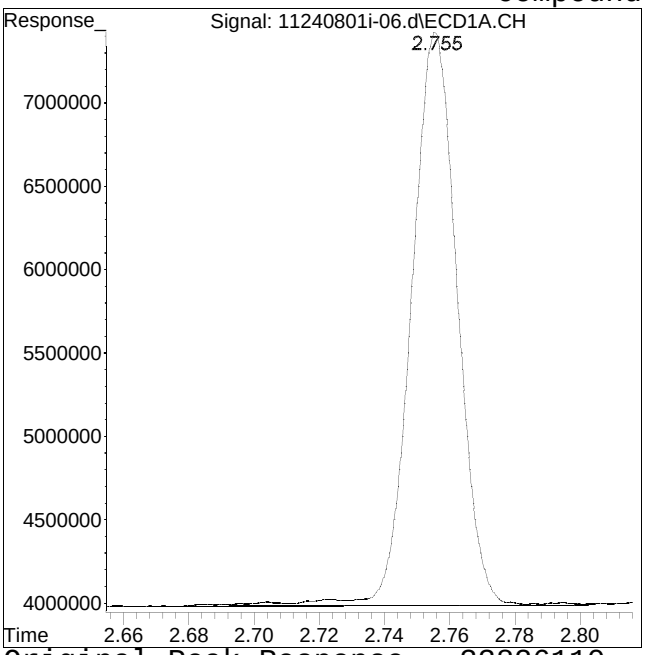
Original Peak Response = 35963293 Manual Peak Response = 36318635 M4
M4 = Poor automated baseline construction.

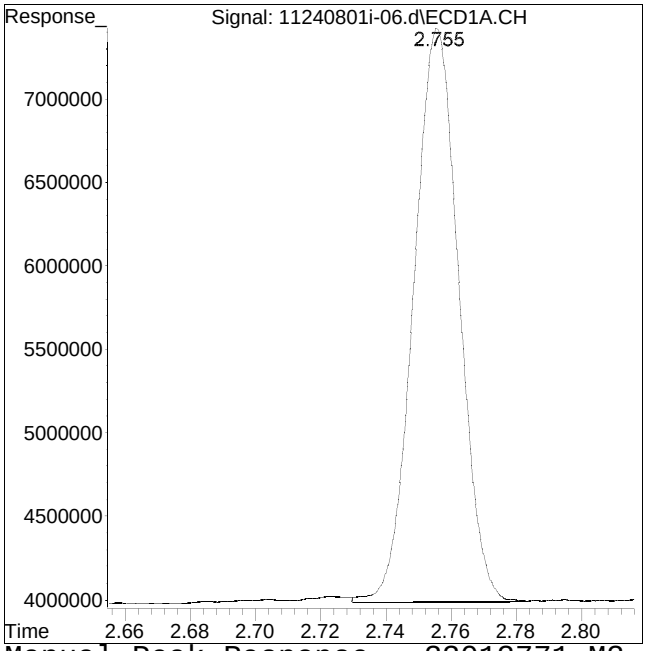
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #9: Aldrin





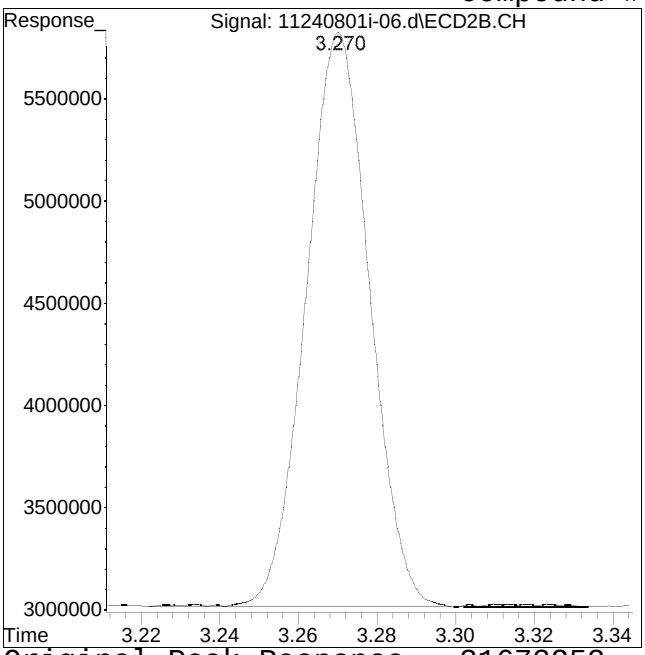
Original Peak Response = 33826110 Manual Peak Response = 33013771 M3

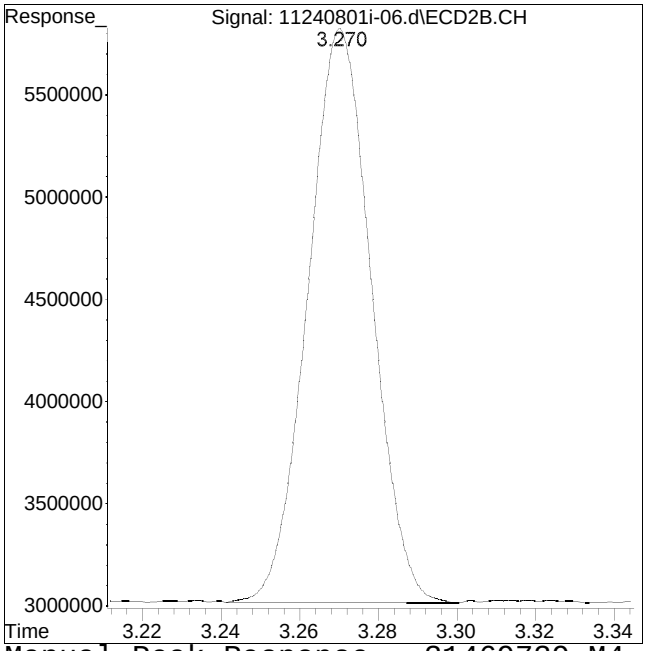
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #47: Aldrin #2



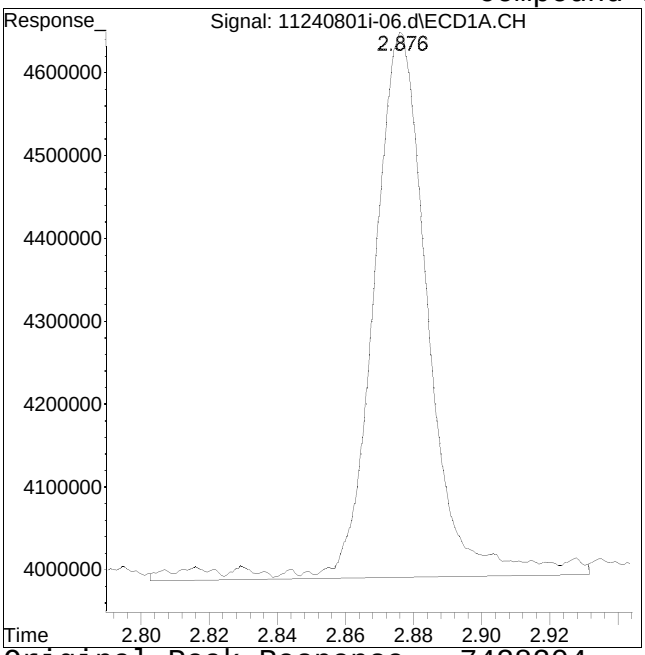


Original Peak Response = 31673252 Manual Peak Response = 31469739 M4
M4 = Poor automated baseline construction.

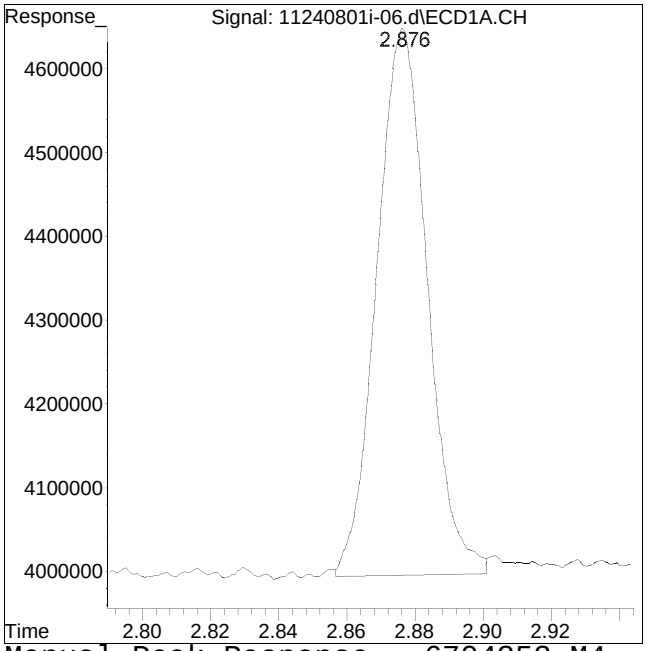
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #10: Alachlor



Original Peak Response = 7428204



Manual Peak Response = 6704352 M4

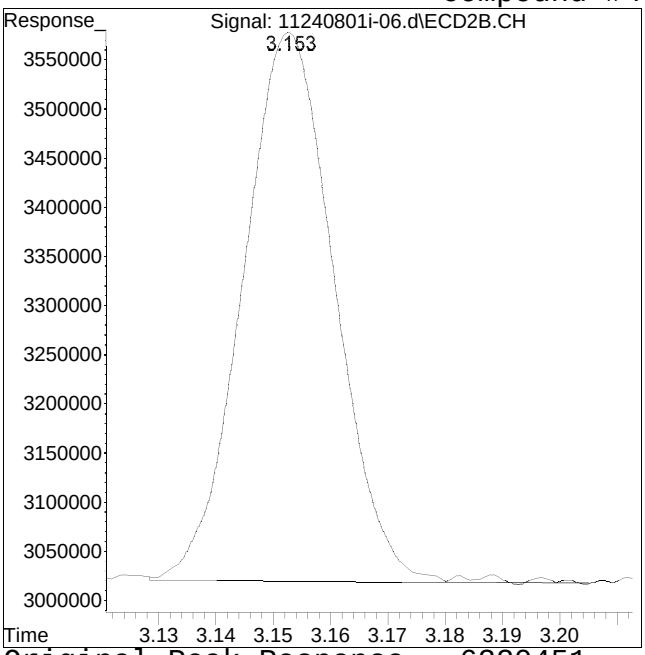
M4 = Poor automated baseline construction.

Manual Integration Report

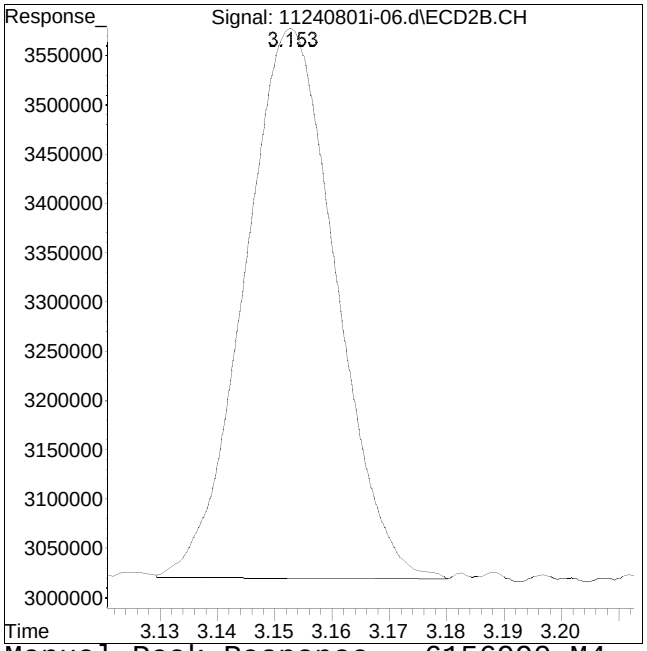
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #48: Alachlor #2



Original Peak Response = 6220451



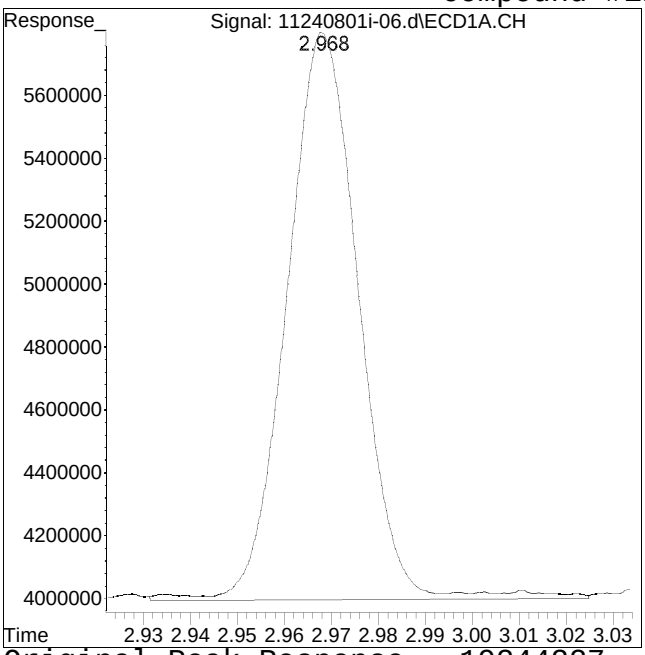
Manual Peak Response = 6156990 M4

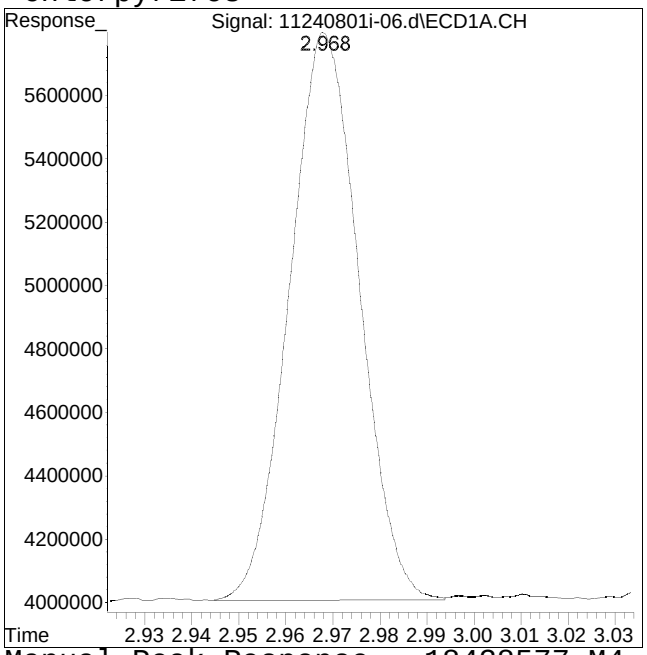
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #11: Chlorpyrifos



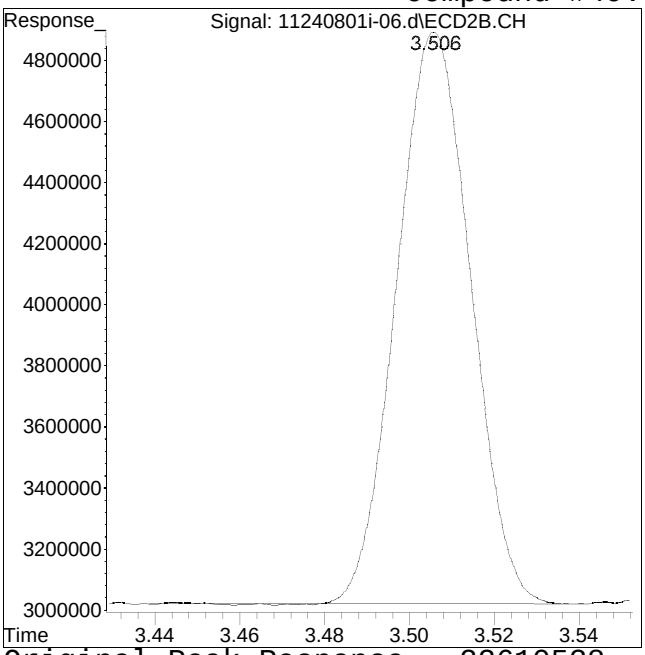


Original Peak Response = 19244227 Manual Peak Response = 18438577 M4
M4 = Poor automated baseline construction.

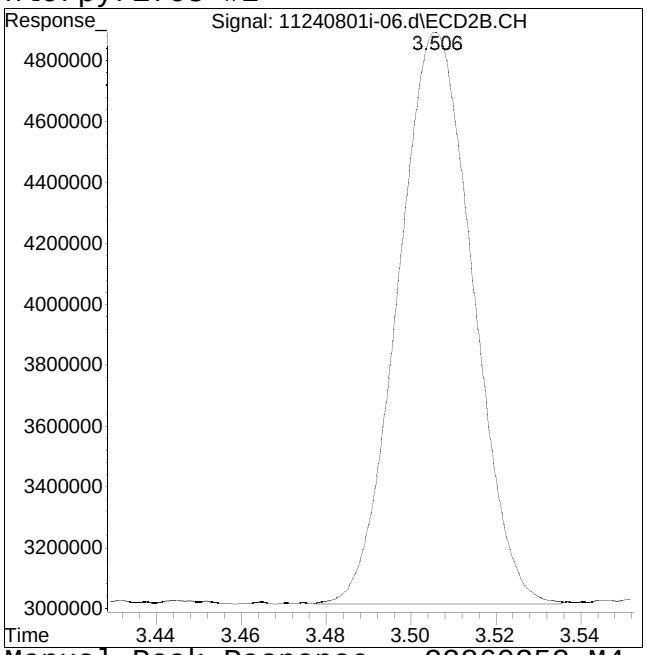
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 22610538



Manual Peak Response = 22860352 M4

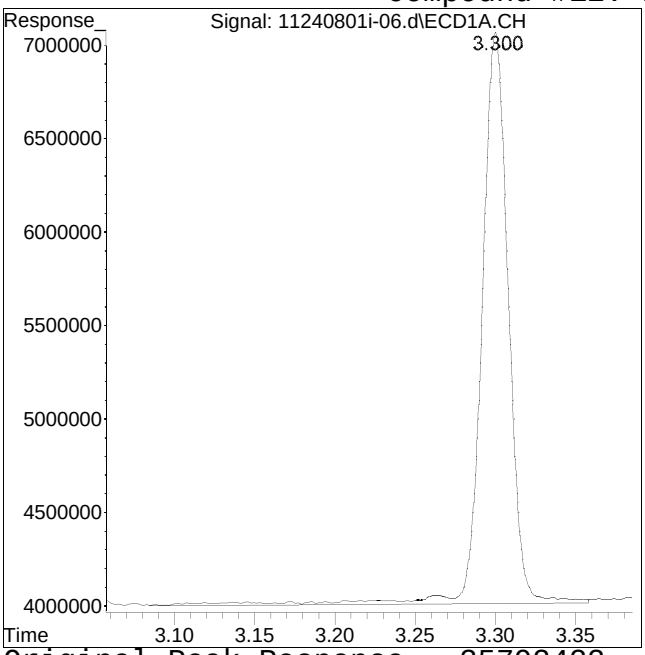
M4 = Poor automated baseline construction.

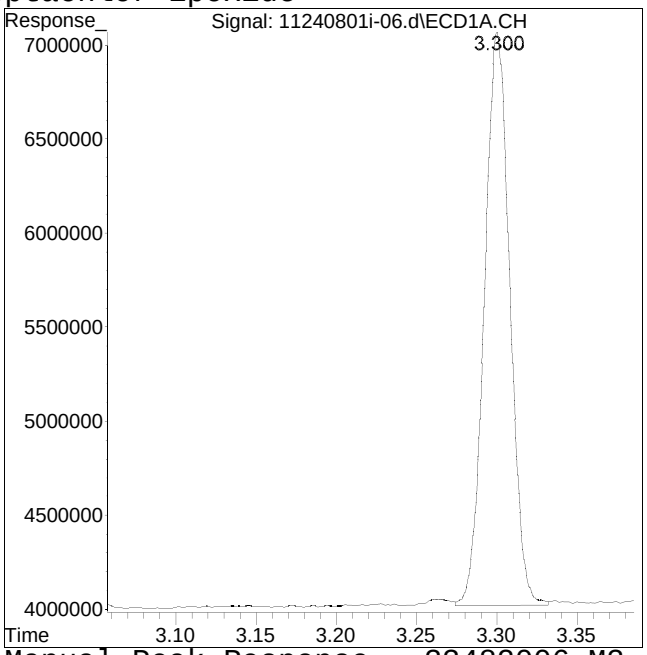
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 35792422 Manual Peak Response = 33482006 M3

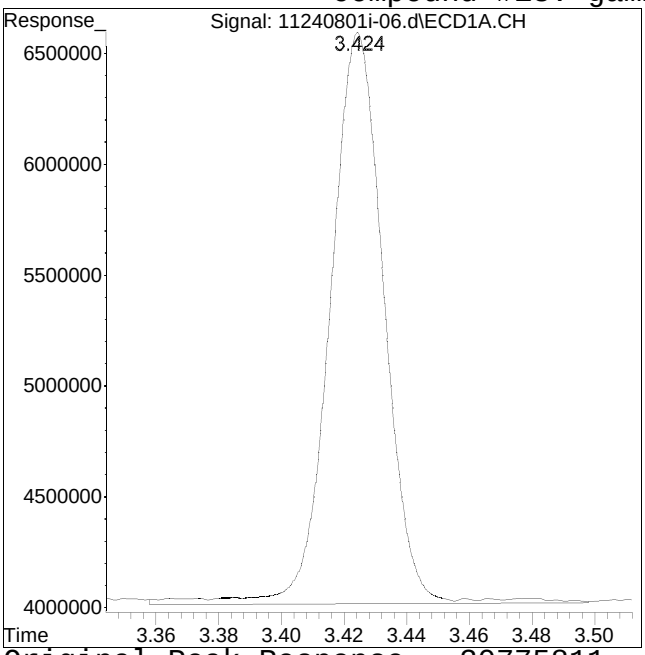
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

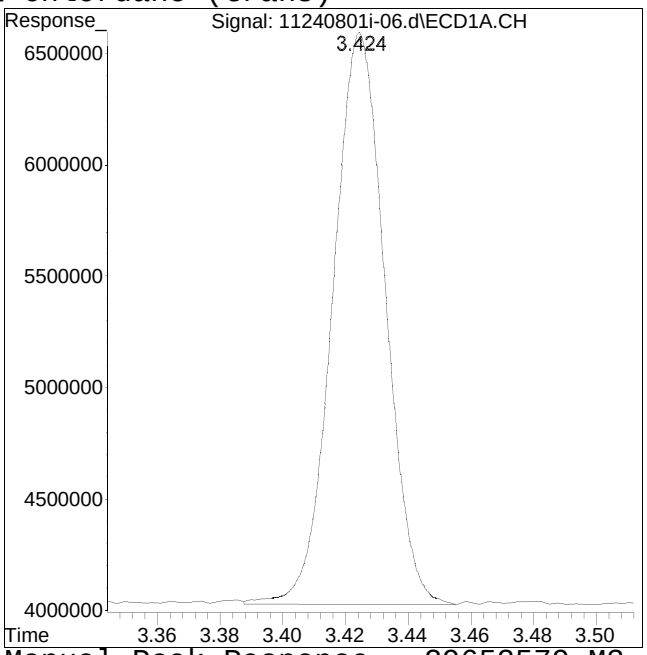
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #13: gamma-Chlordane (trans)





Original Peak Response = 30775811 Manual Peak Response = 29652579 M3

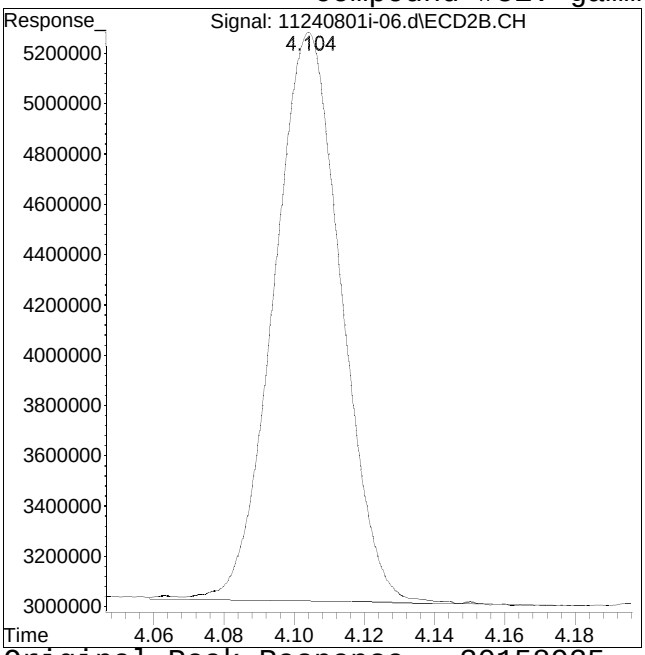
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

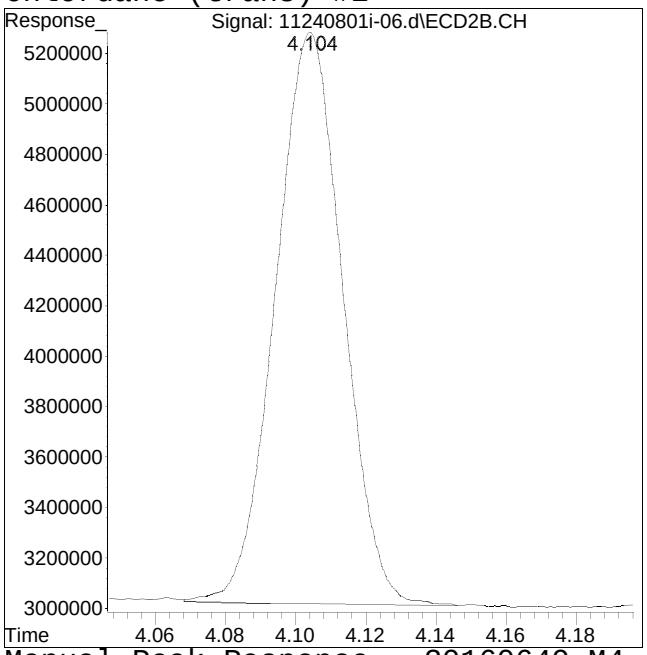
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 30158935



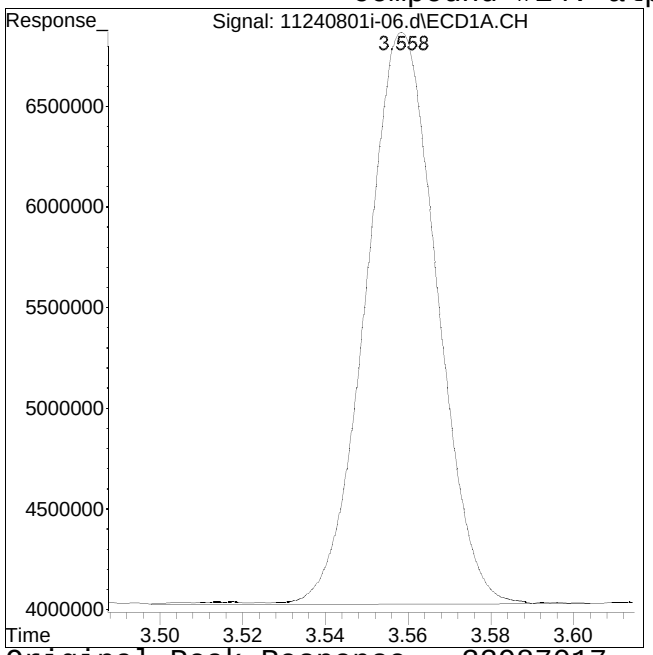
Manual Peak Response = 30160649 M4

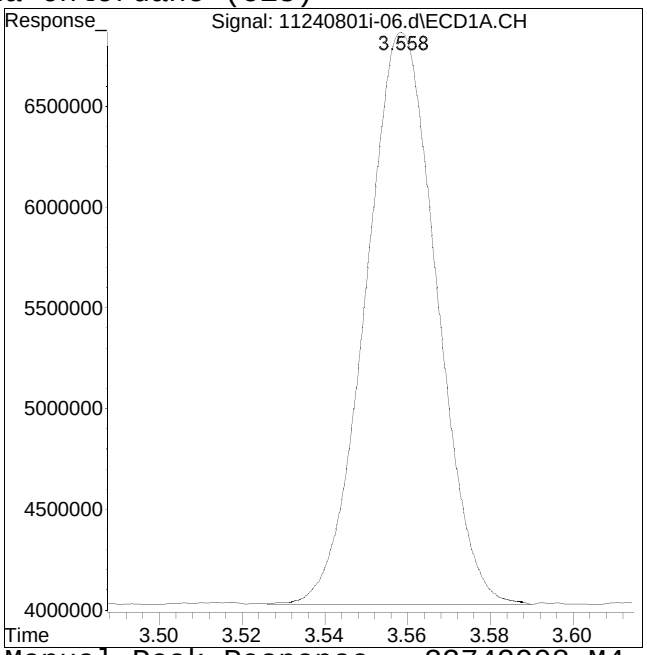
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #14: alpha-Chlordane (cis)





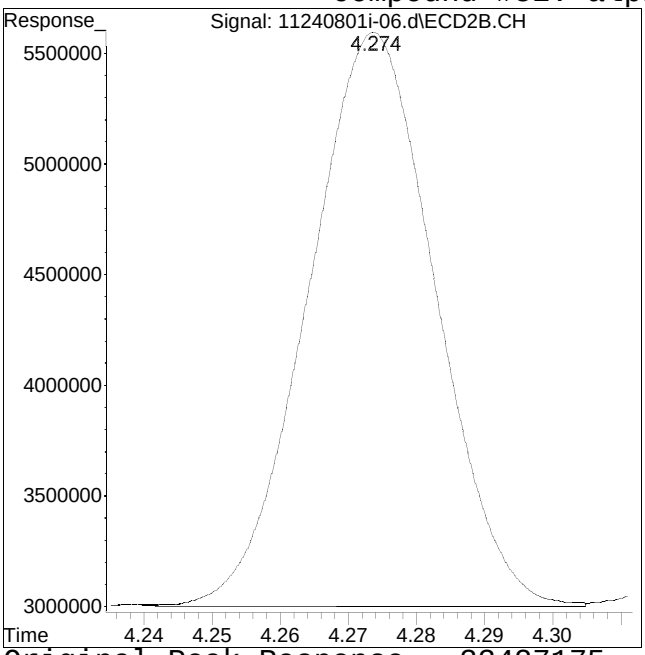
Original Peak Response = 33987017 Manual Peak Response = 33742908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

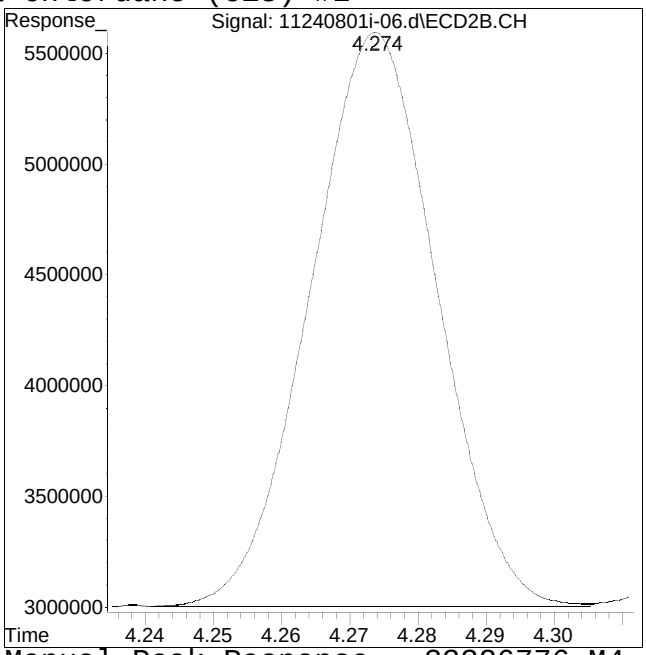
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 33427175



Manual Peak Response = 33326776 M4

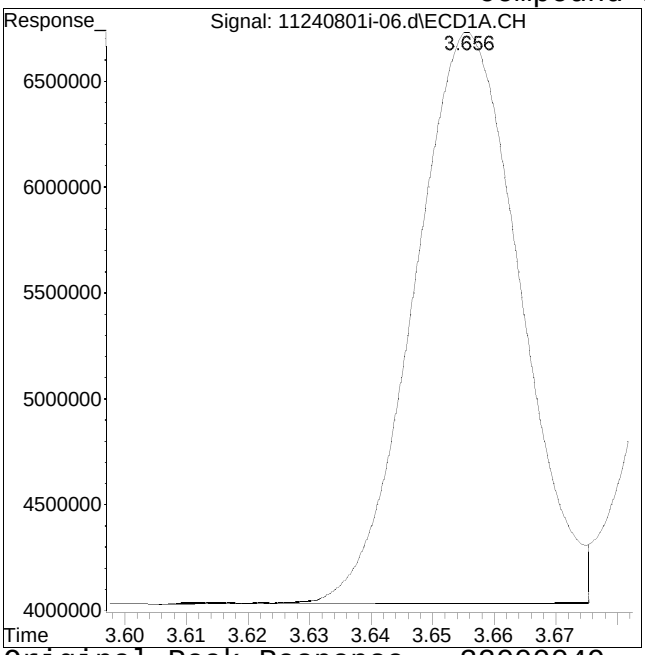
M4 = Poor automated baseline construction.

Manual Integration Report

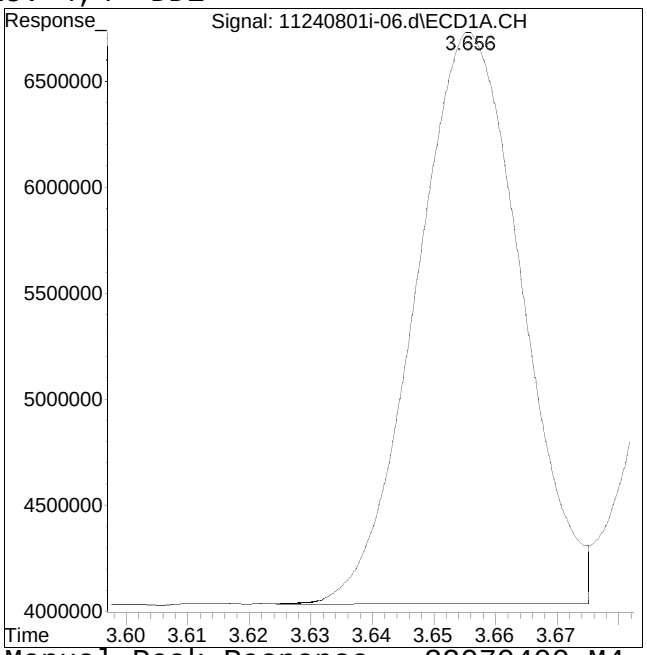
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #15: 4,4'-DDE



Original Peak Response = 32000049



Manual Peak Response = 32070400 M4

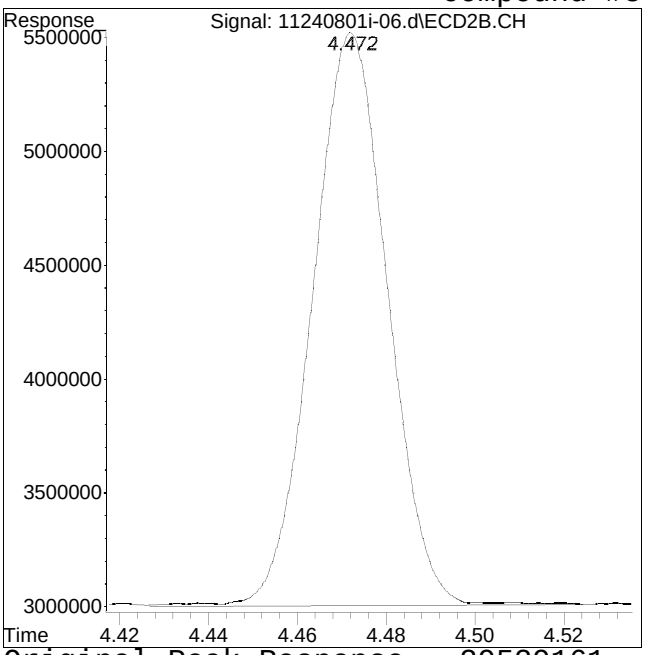
M4 = Poor automated baseline construction.

Manual Integration Report

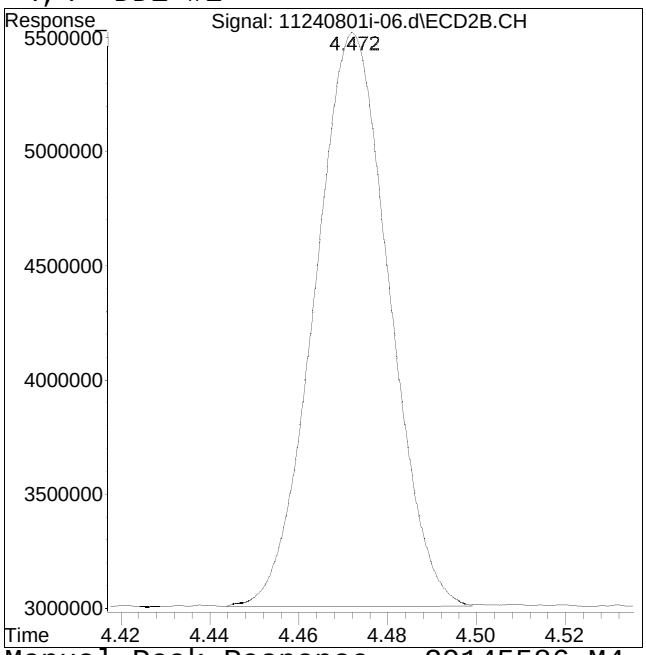
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 29529161



Manual Peak Response = 29145586 M4

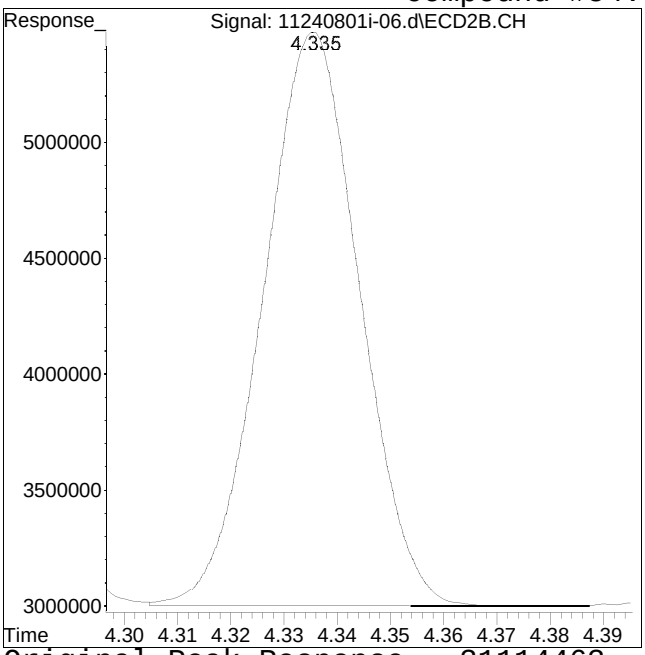
M4 = Poor automated baseline construction.

Manual Integration Report

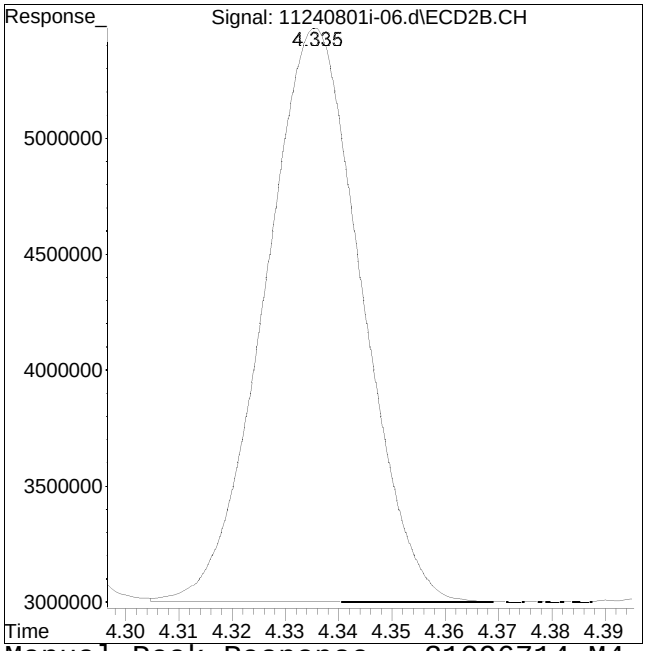
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #54: Endosulfan I #2



Original Peak Response = 31114463



Manual Peak Response = 31096714 M4

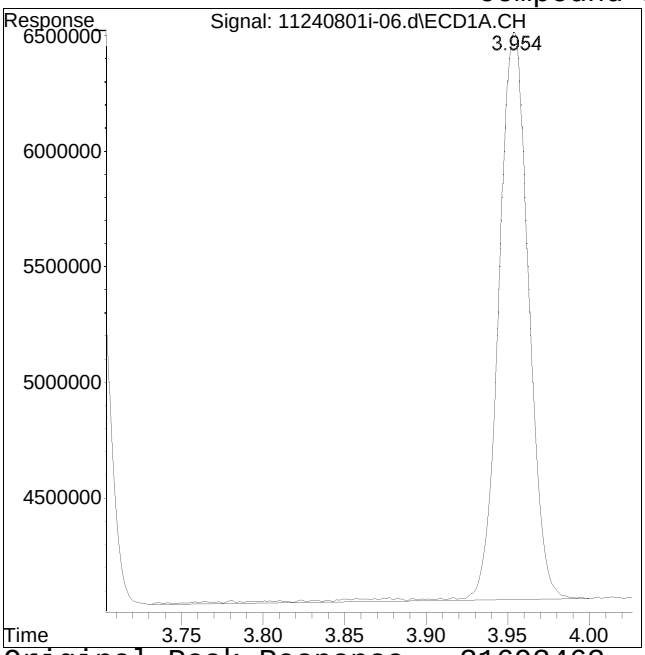
M4 = Poor automated baseline construction.

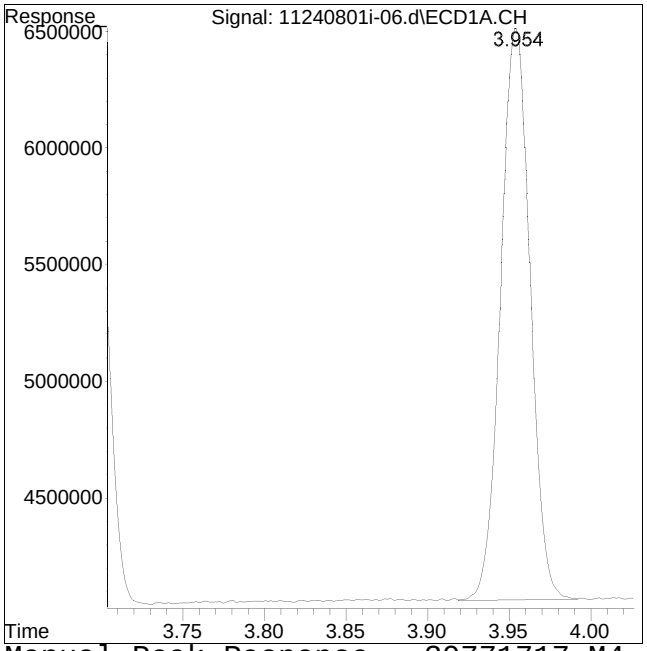
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #17: Dieldrin





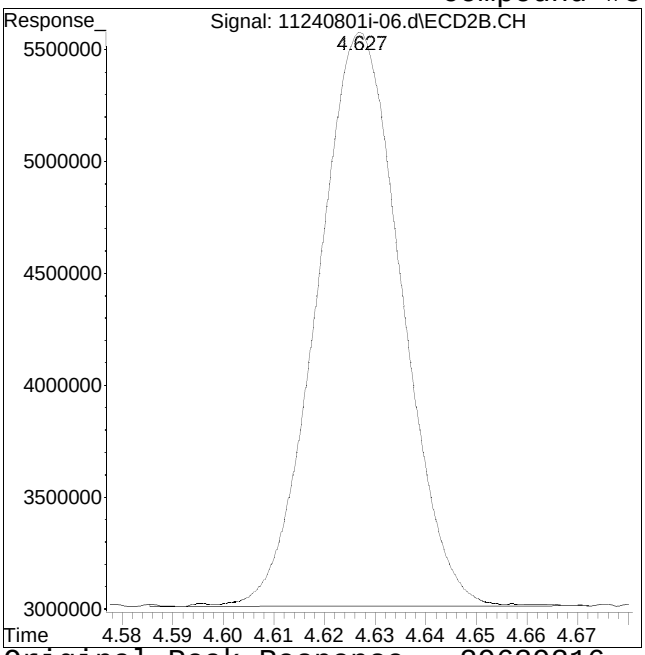
Original Peak Response = 31693463 Manual Peak Response = 30771717 M4
M4 = Poor automated baseline construction.

Manual Integration Report

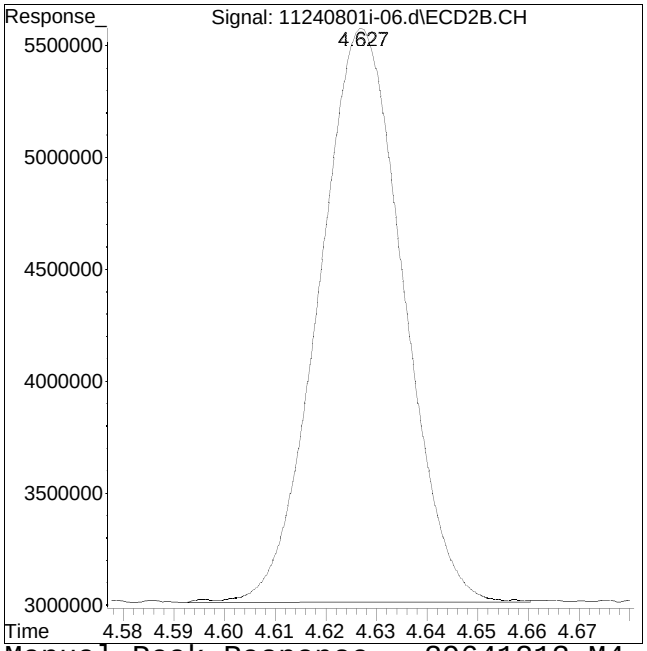
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #55: Dieldrin #2



Original Peak Response = 29639216



Manual Peak Response = 29641213 M4

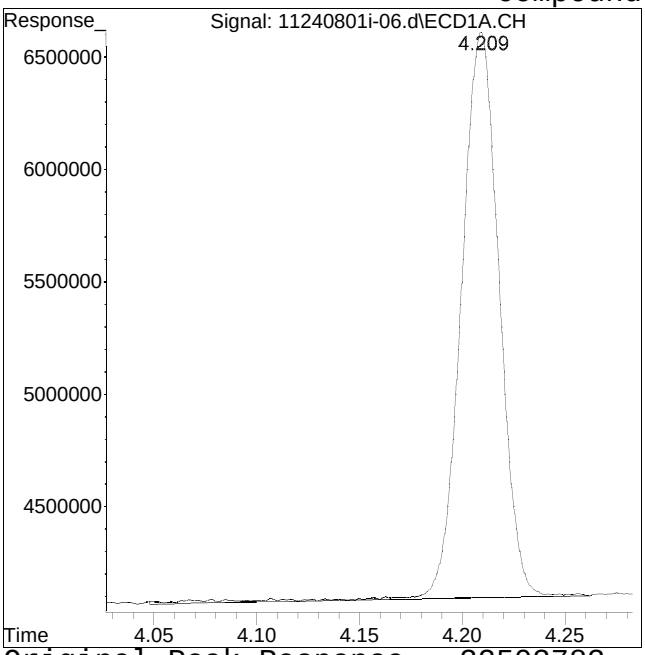
M4 = Poor automated baseline construction.

Manual Integration Report

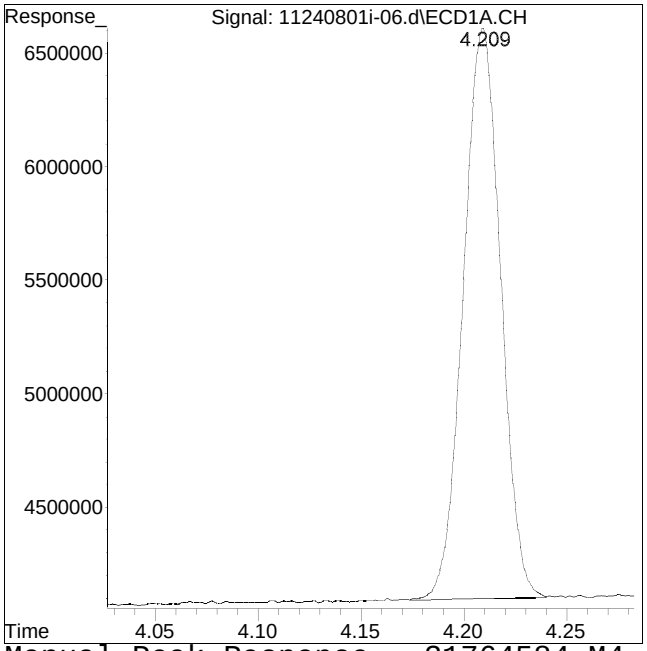
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #18: Endrin



Original Peak Response = 32503783



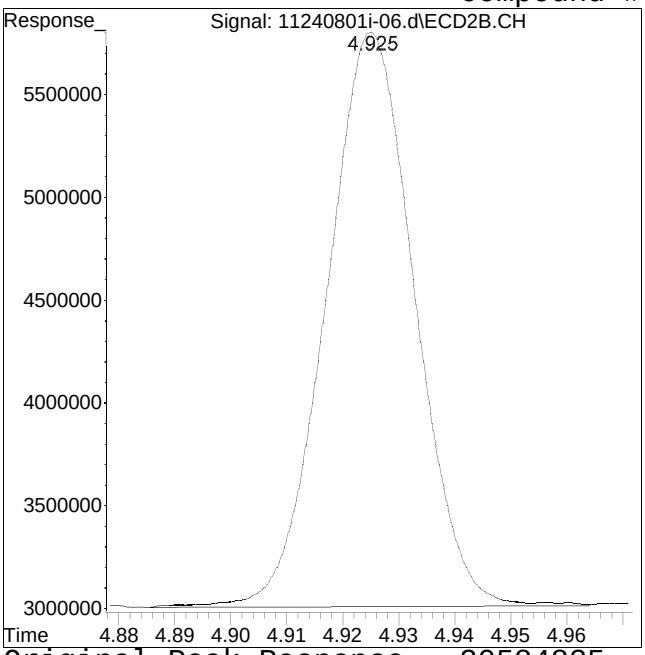
Manual Peak Response = 31764584 M4

M4 = Poor automated baseline construction.

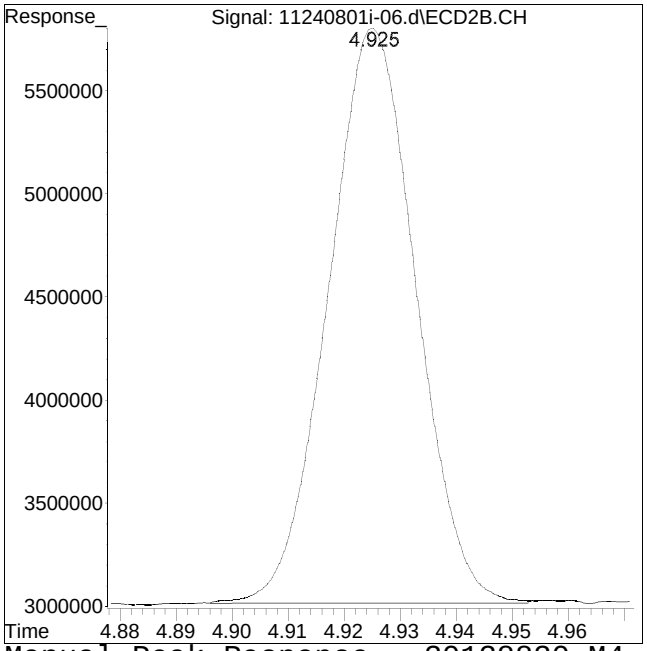
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #56: Endrin #2



Original Peak Response = 30584835



Manual Peak Response = 30138830 M4

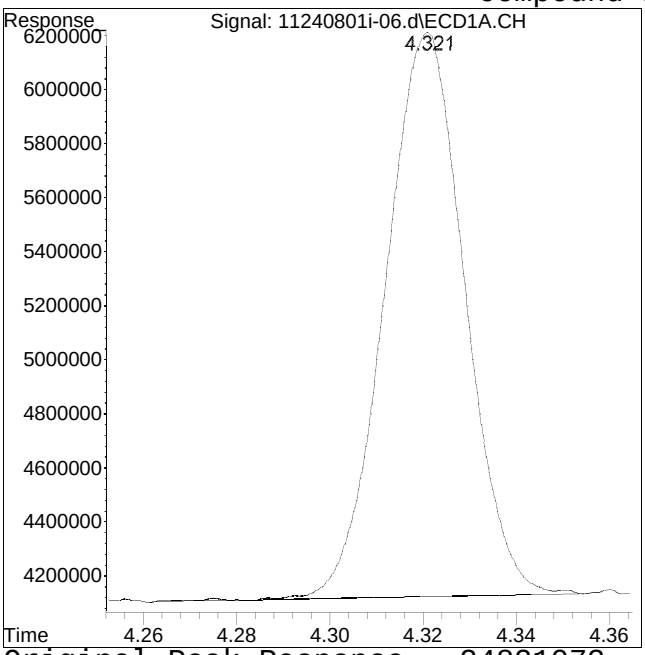
M4 = Poor automated baseline construction.

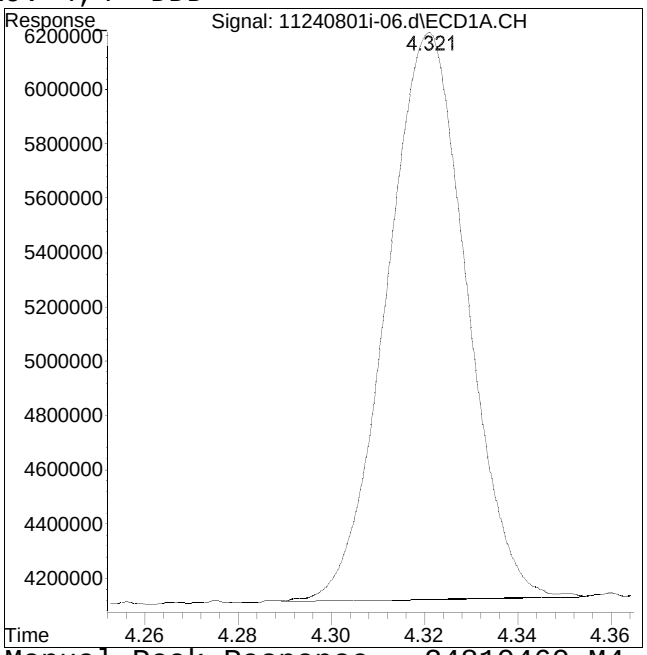
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #19: 4,4'-DDD





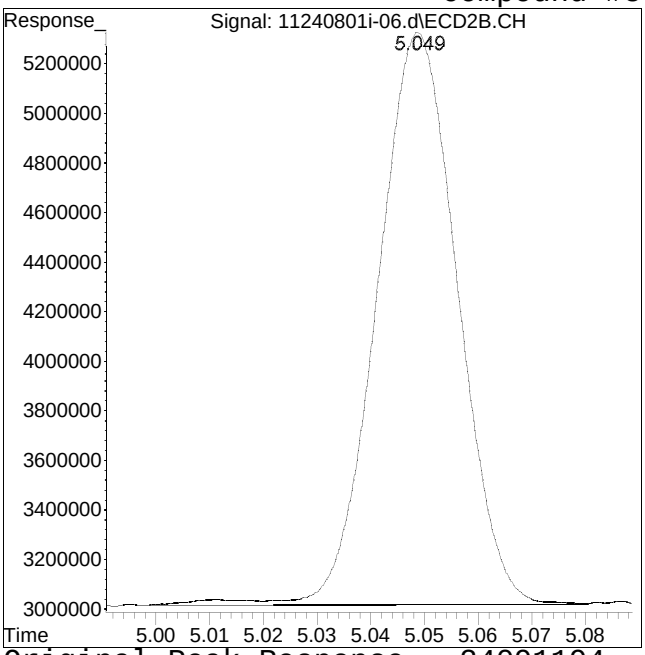
Original Peak Response = 24821073 Manual Peak Response = 24810460 M4
M4 = Poor automated baseline construction.

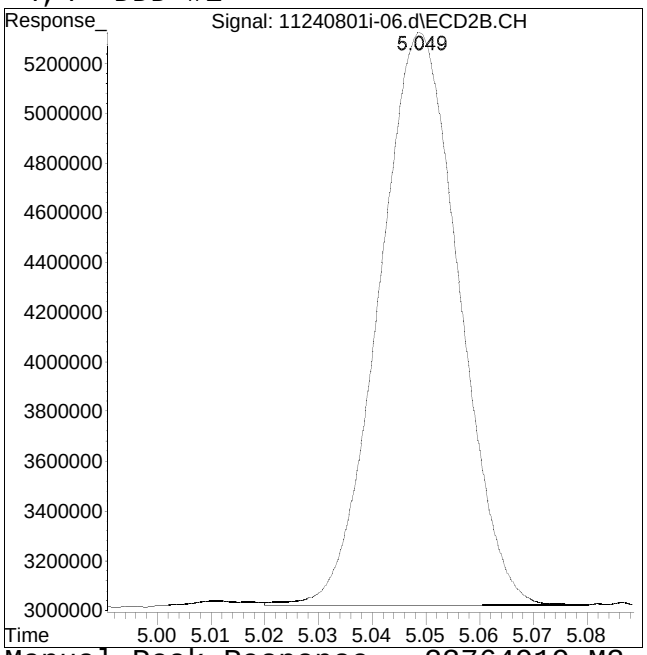
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #57: 4,4'-DDD #2





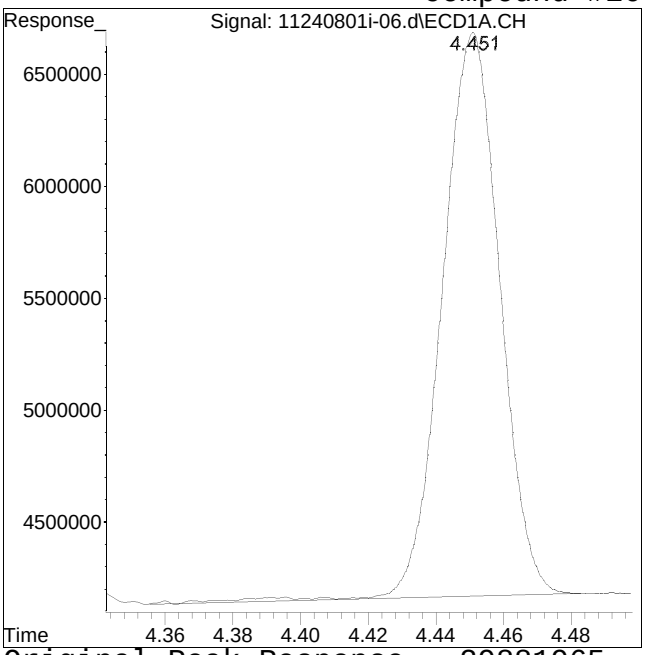
Original Peak Response = 24091194 Manual Peak Response = 23764919 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

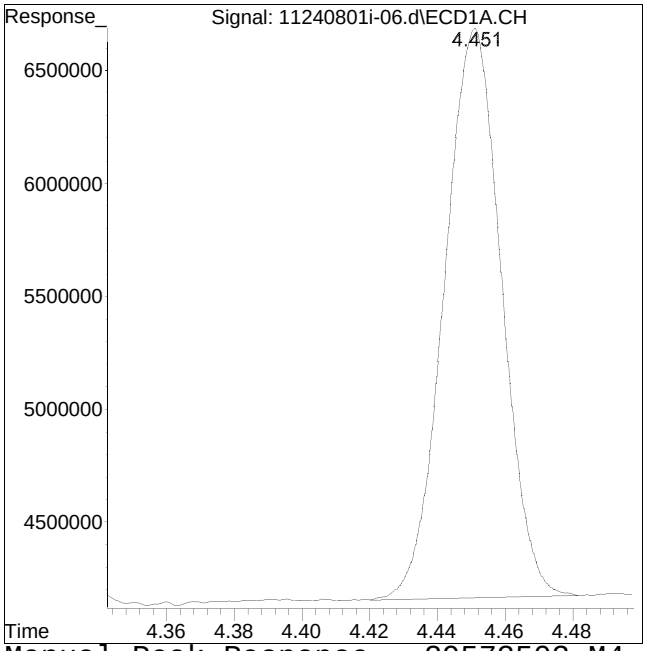
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #20: Endosulfan II



Original Peak Response = 29881965



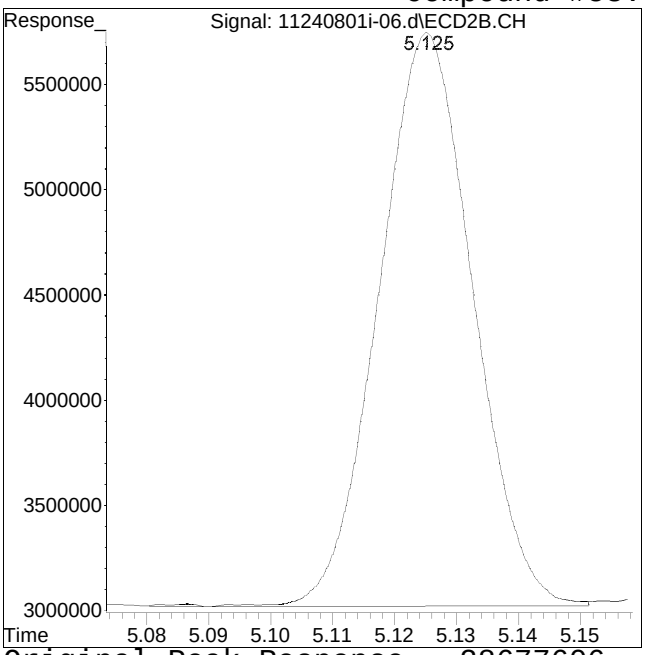
Manual Peak Response = 29573503 M4

M4 = Poor automated baseline construction.

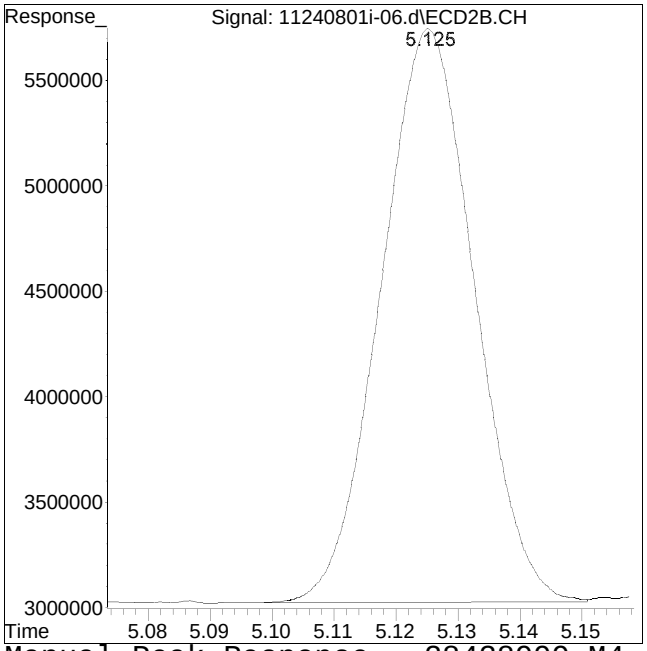
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #58: Endosulfan II #2



Original Peak Response = 28677606



Manual Peak Response = 28438999 M4

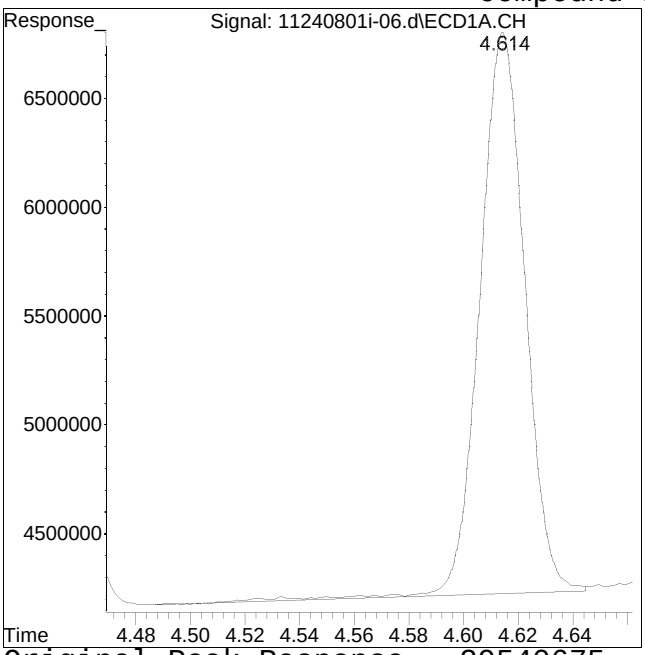
M4 = Poor automated baseline construction.

Manual Integration Report

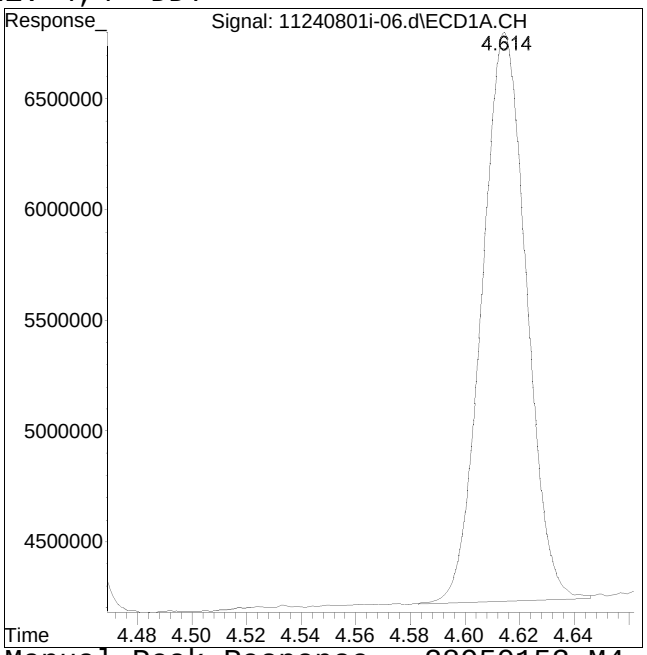
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #21: 4,4'-DDT



Original Peak Response = 29540675



Manual Peak Response = 28950153 M4

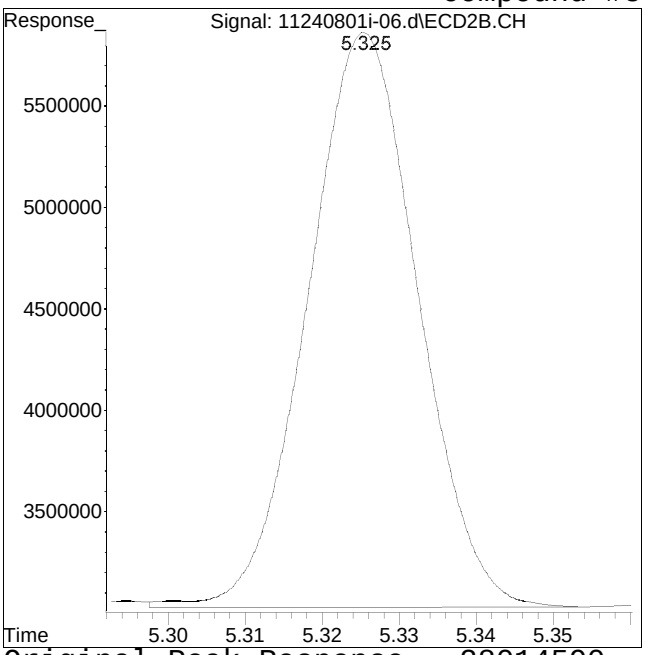
M4 = Poor automated baseline construction.

Manual Integration Report

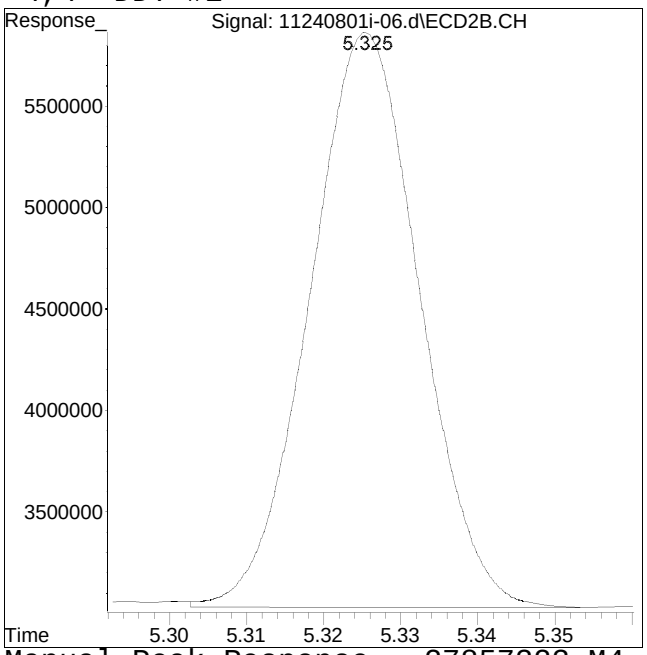
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 28014590



Manual Peak Response = 27857323 M4

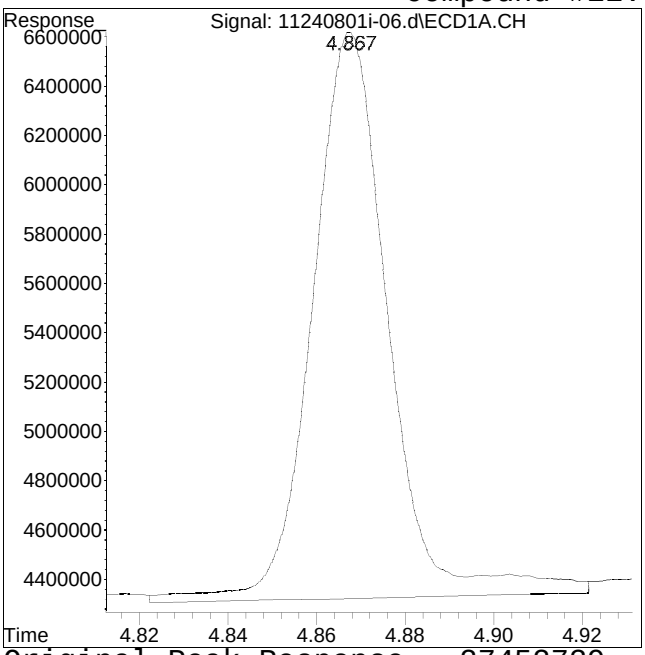
M4 = Poor automated baseline construction.

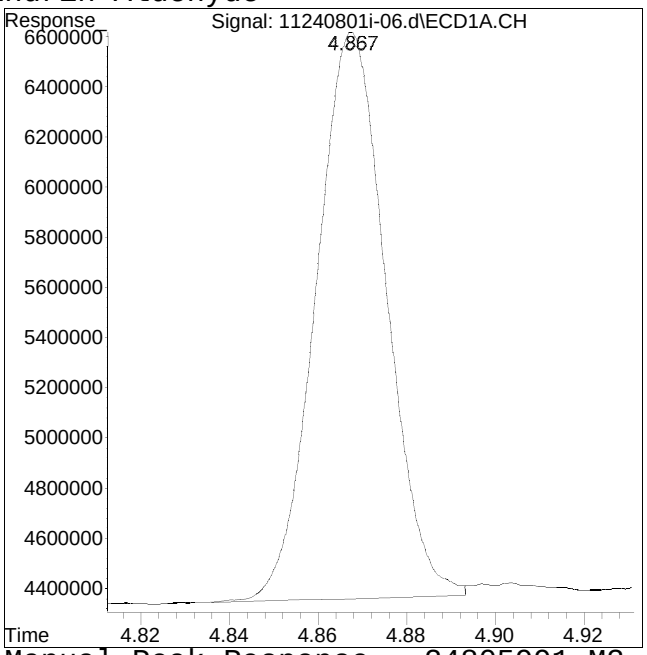
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #22: Endrin Aldehyde





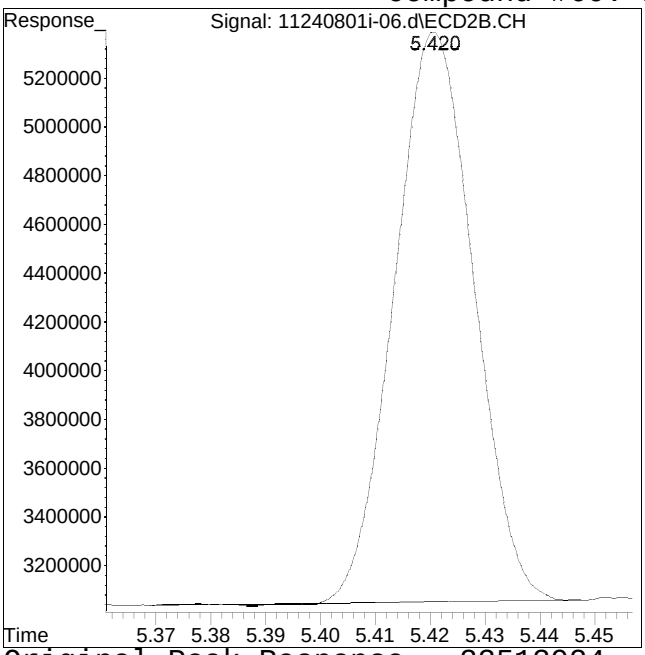
Original Peak Response = 27452739 Manual Peak Response = 24805991 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

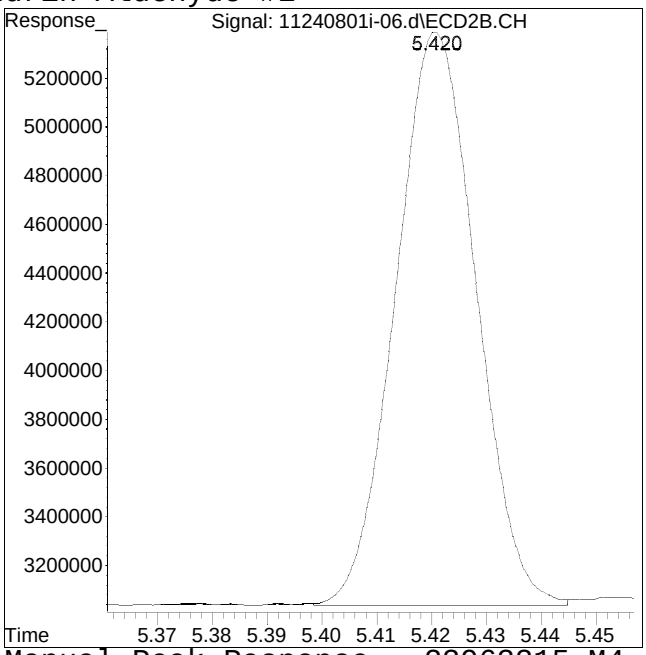
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 23513924



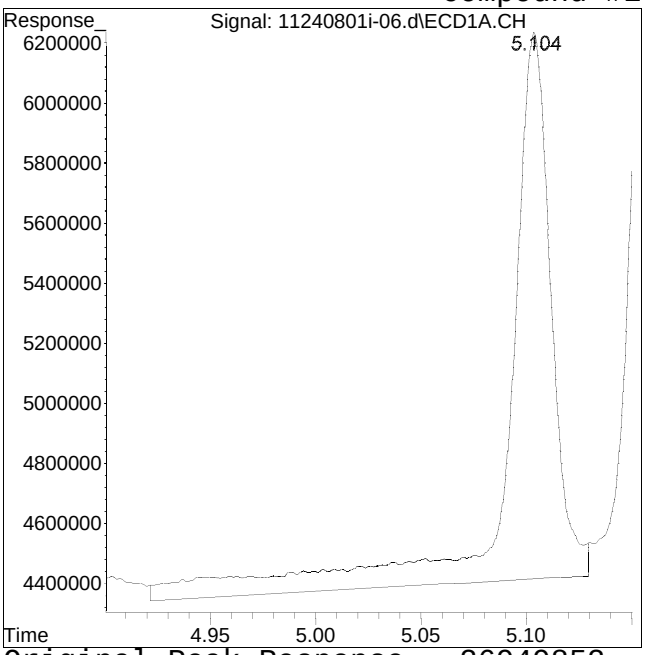
Manual Peak Response = 23963315 M4

M4 = Poor automated baseline construction.

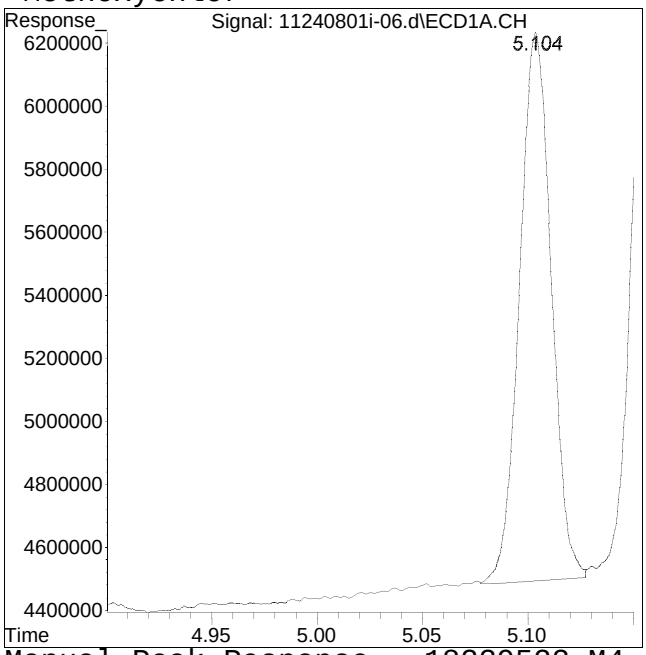
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #23: Methoxychlor



Original Peak Response = 26949852



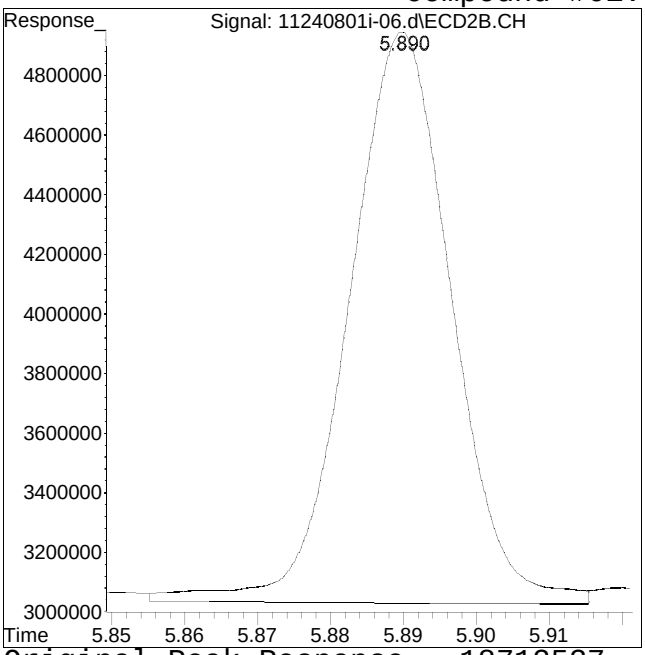
Manual Peak Response = 18239522 M4

M4 = Poor automated baseline construction.

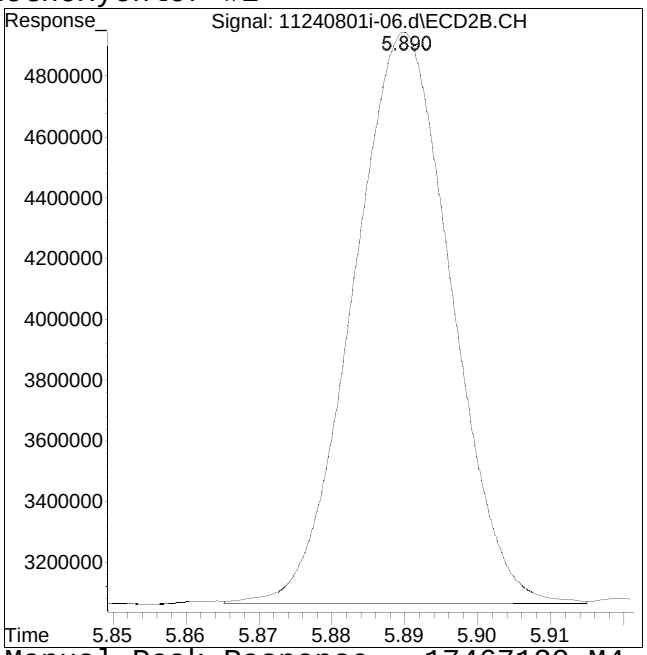
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #61: Methoxychlor #2



Original Peak Response = 18712537



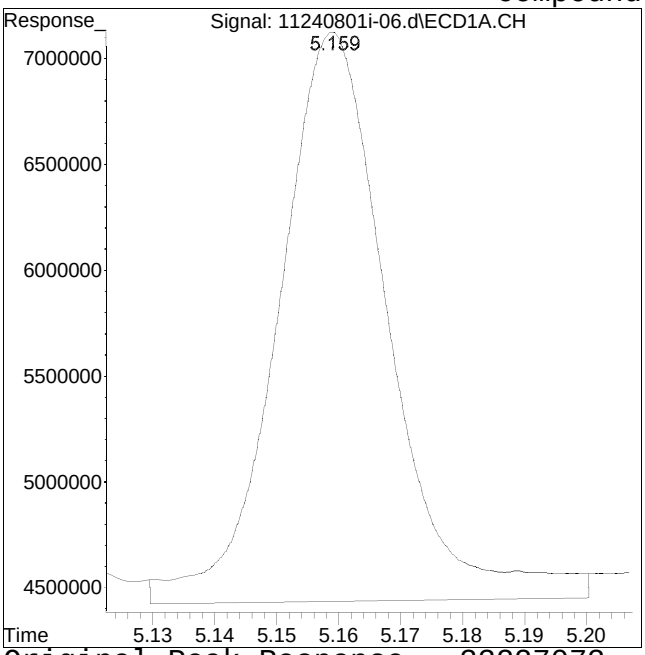
Manual Peak Response = 17467129 M4

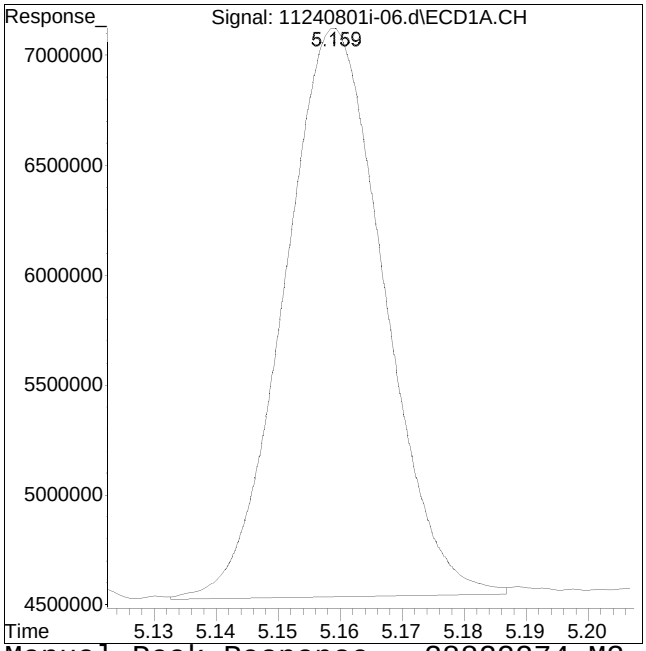
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #24: Mirex



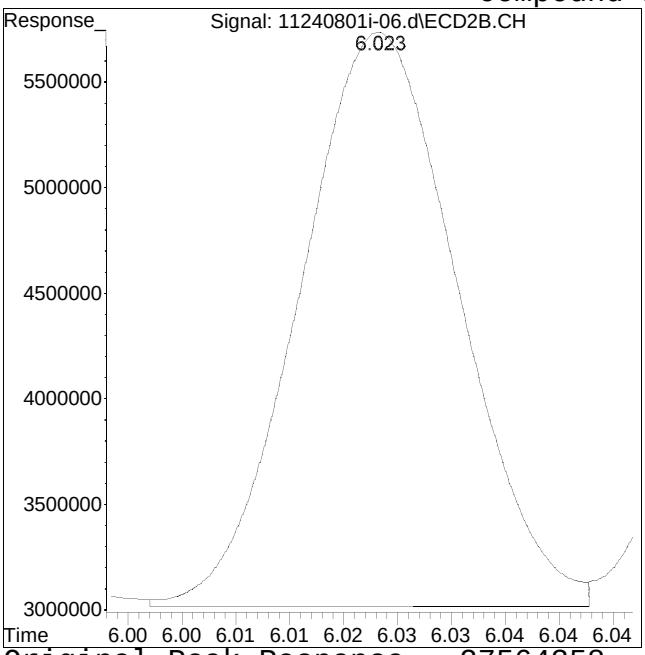


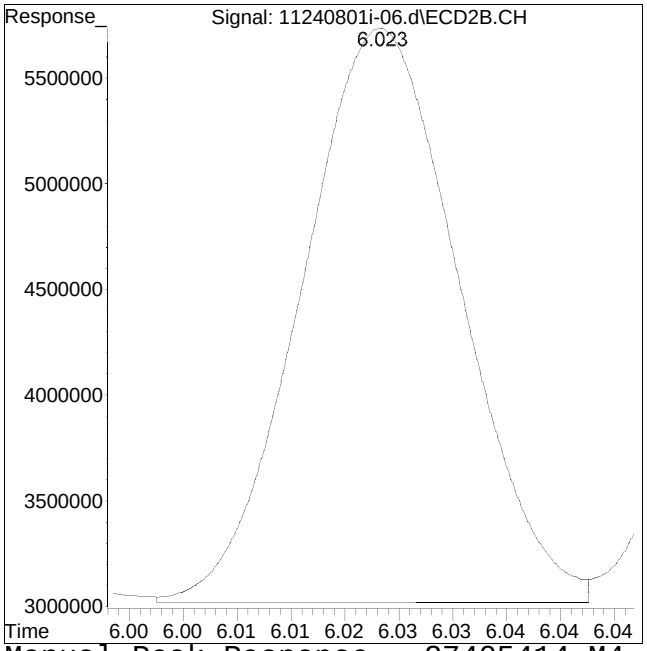
Original Peak Response = 33227073 Manual Peak Response = 28822274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #62: Mirex #2



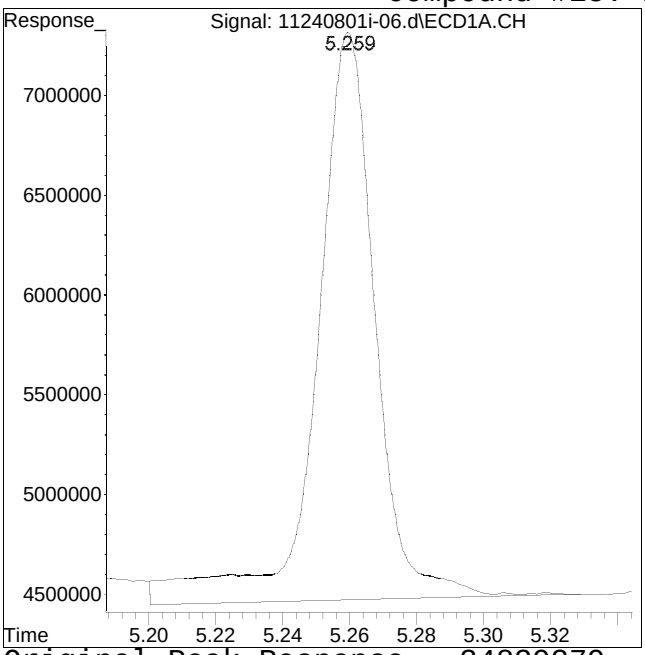


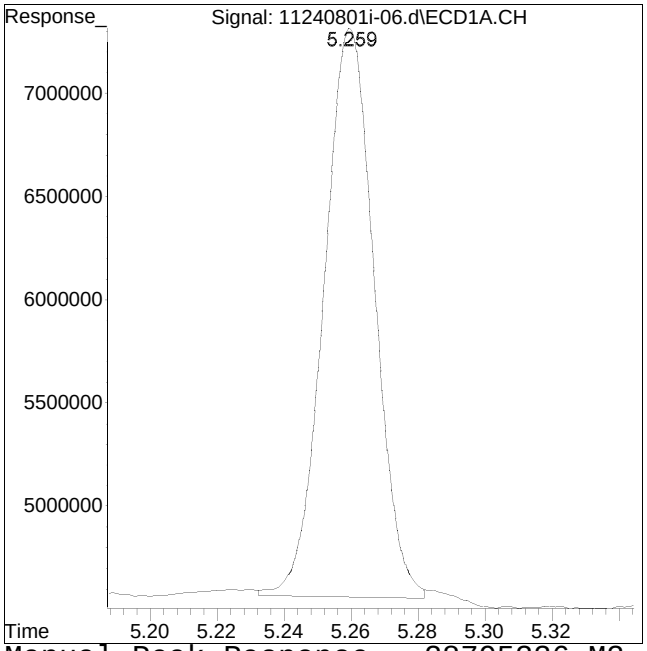
Original Peak Response = 27564358 Manual Peak Response = 27405414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #25: Endosulfan Sulfate





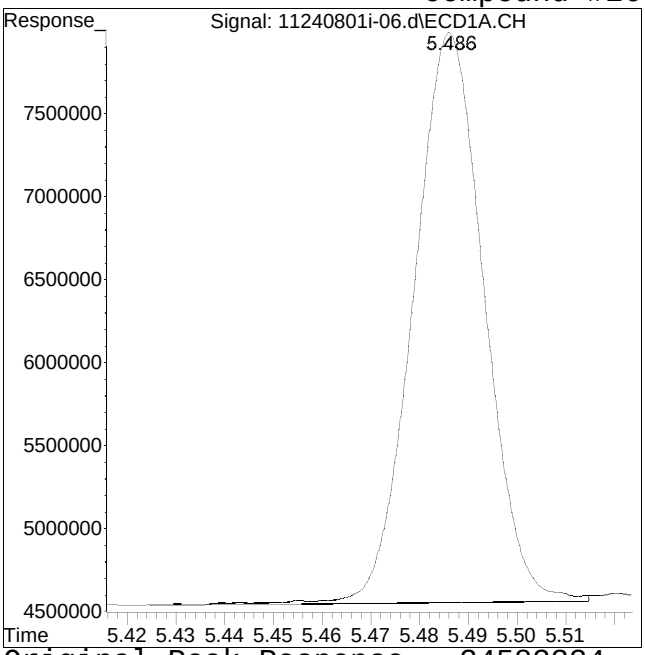
Original Peak Response = 34839379 Manual Peak Response = 28795336 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

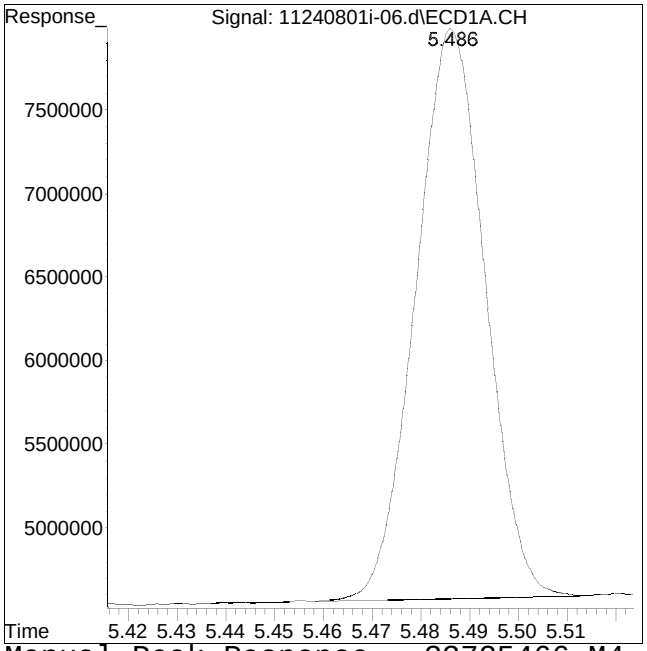
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #26: Endrin Ketone



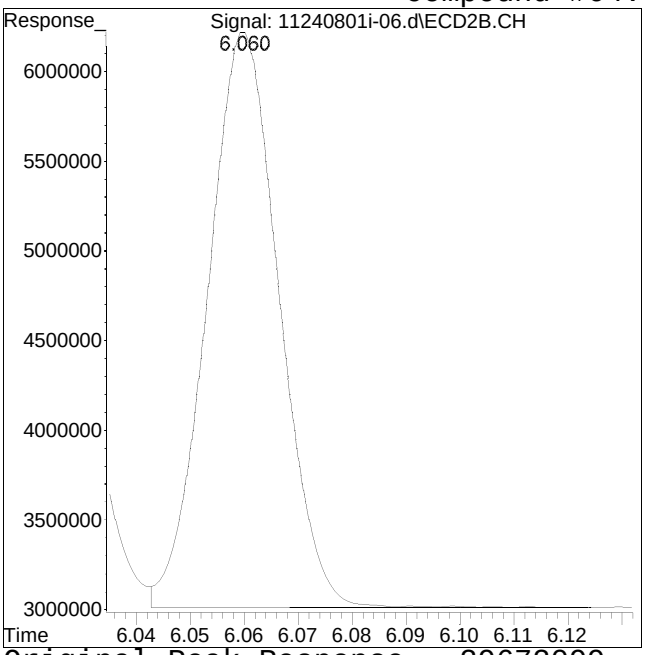


Original Peak Response = 34583334 Manual Peak Response = 33725466 M4
M4 = Poor automated baseline construction.

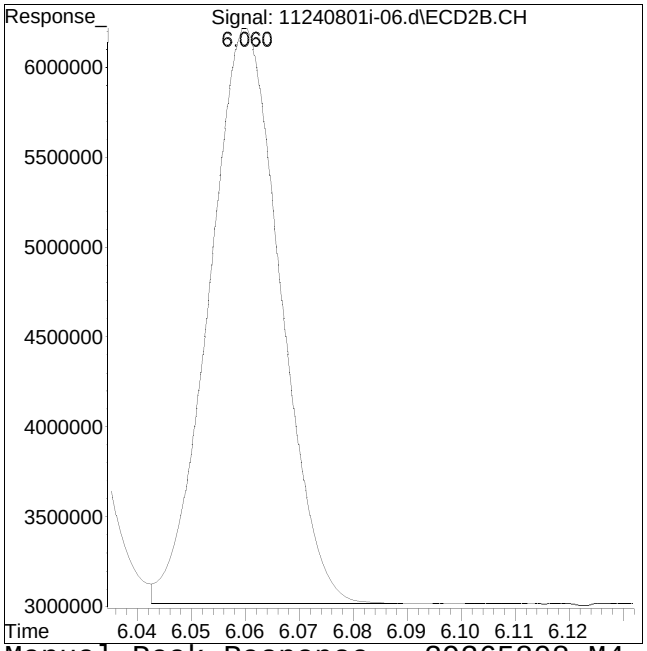
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #64: Endrin Ketone #2



Original Peak Response = 29672099



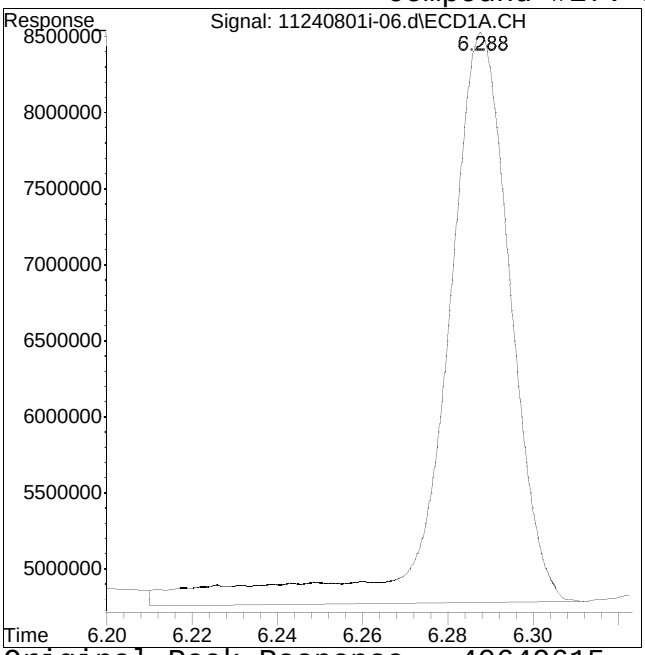
Manual Peak Response = 29365808 M4

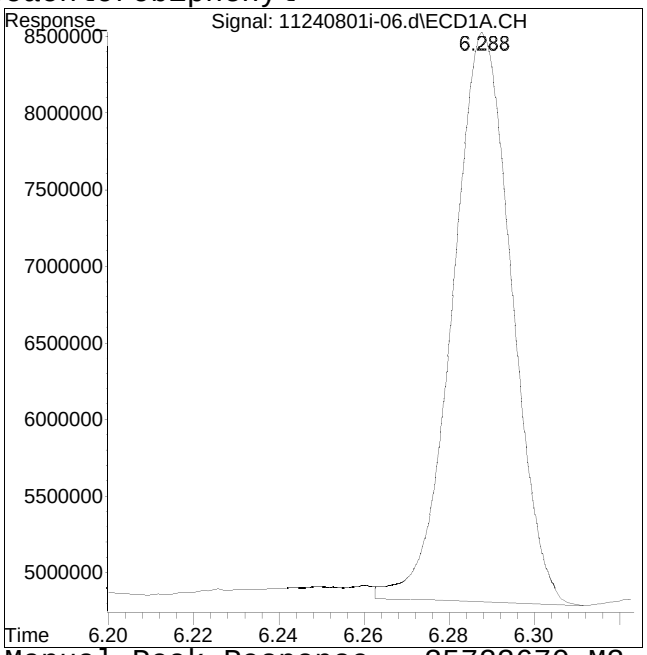
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 40649615 Manual Peak Response = 35723670 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.8E6	187.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.858	38521121	33228326	3.958M4	4.126M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.92%#	8.25%#
27) s	Decachlorobi	6.288	6.922	45749494	33190514	4.585M3	4.626M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.17%#	9.25%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	53831993	37517540	4.262M3	4.355M3
4) t	alpha-BHC	1.963	2.270	50099814	44404100	3.378	3.499M4
5) t	gamma-BHC (l	2.165	2.556	48429966	42423894	3.532M4	3.691M4
6) t	beta-BHC	2.221	2.622	23627338	22130202	4.112M4	4.572M4
7) t	delta-BHC	2.349	2.889	47212643	42358835	3.409M4	3.618
8) t	Heptachlor	2.513	2.951	48539979	47303379	3.873M4	4.125M4
9) t	Aldrin	2.755	3.270	43725904	41038709	3.629M3	3.833M4
10) t	Alachlor	2.876	3.152	8846077	7914947	4.229M4	5.313M4
11) t	Chlorpyrifos	2.968	3.506	24028161	29105048	4.744M4	5.206

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	43926945	42803293	3.942M3	4.261M4
13)	t	gamma-Chlord	3.424	4.104	38878589	38970708	3.786M4	4.193M4
14)	t	alpha-Chlord	3.559	4.273	44728489	43103625	3.859M3	4.197M4
15)	t	4,4'-DDE	3.656	4.472	42411214	37932784	3.626M4	3.740M3
16)	t	Endosulfan I	3.695	4.335	41113069	40054576	3.894	4.272M4
17)	t	Dieldrin	3.954	4.627	40416298	38468360	3.654M4	3.937M4
18)	t	Endrin	4.209	4.925	41670444	39189618	3.747M4	3.963M4
19)	t	4,4'-DDD	4.321	5.049	32563209	30675797	3.557M4	3.766M4
20)	t	Endosulfan I	4.451	5.125	38878709	36626235	3.907M4	4.280M4
21)	t	4,4'-DDT	4.615	5.326	37823947	35899886	3.661M4	3.859M4
22)	t	Endrin Aldeh	4.868	5.421	32912480	30791502	3.951M4	4.329M4
23)	t	Methoxychlor	5.103	5.890	23121492	22184815	4.437M4	4.706M4
24)	t	Mirex	5.159	6.023	37112581	34701868	4.423M4	4.946M4
25)	t	Endosulfan S	5.259	5.650	37357641	36575099	4.010M3	4.387M4
26)	t	Endrin Keton	5.486	6.060	44230088	37958462	3.979M4	4.219M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

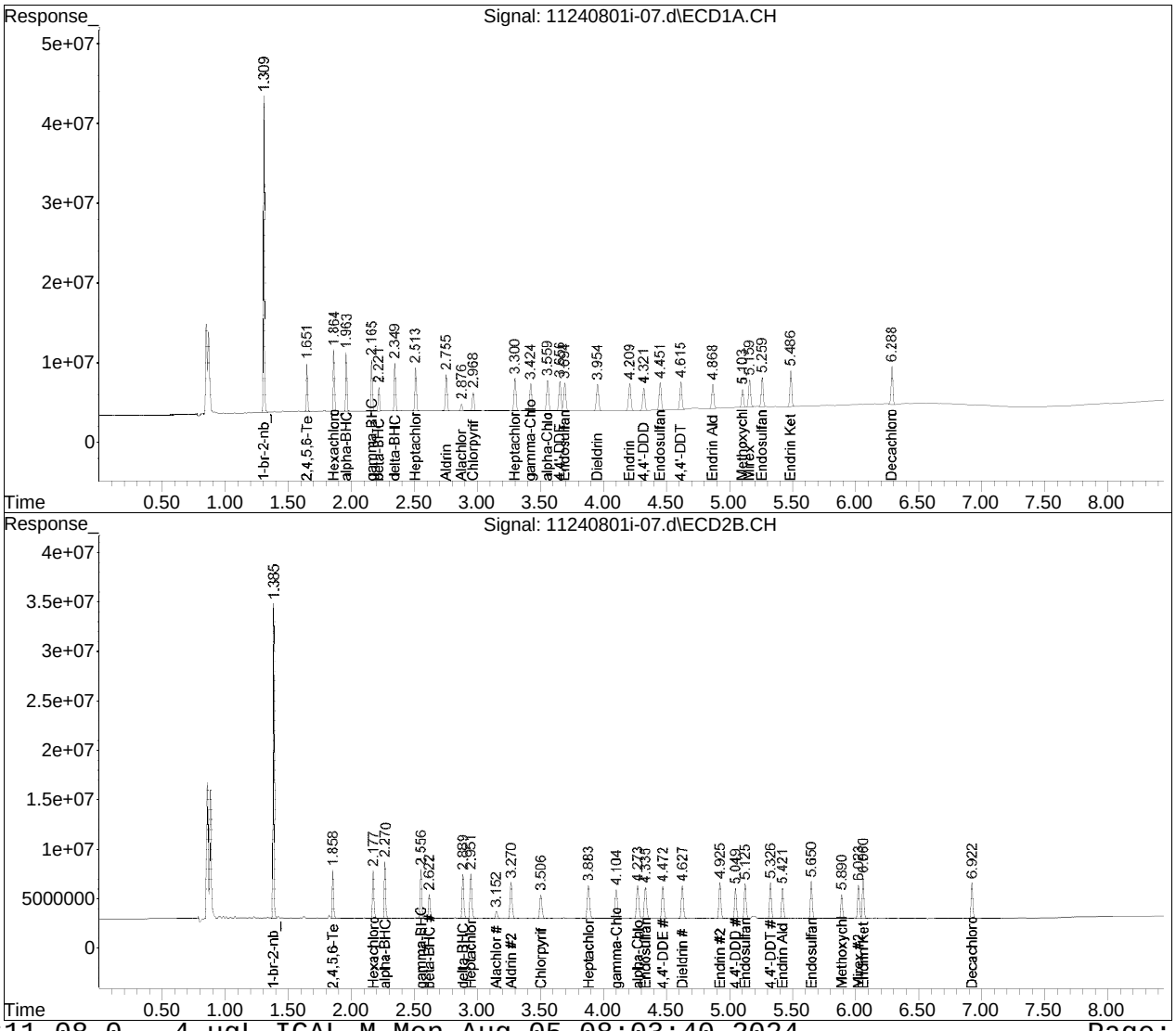
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

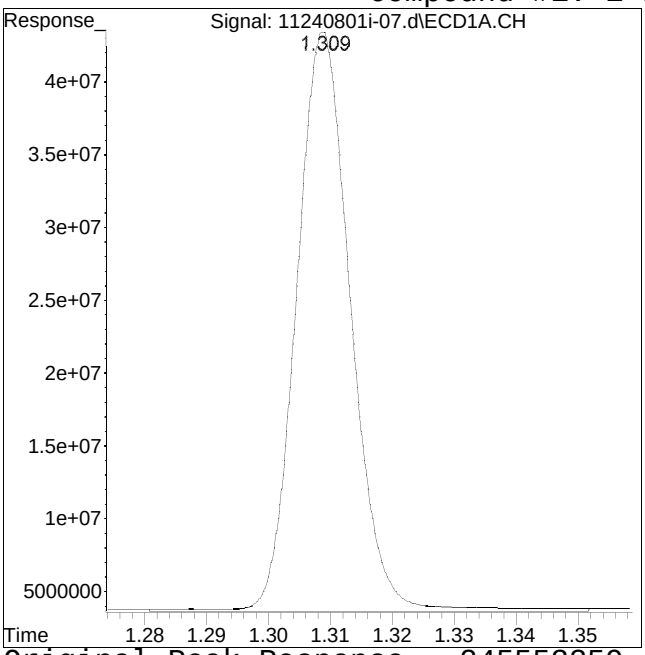


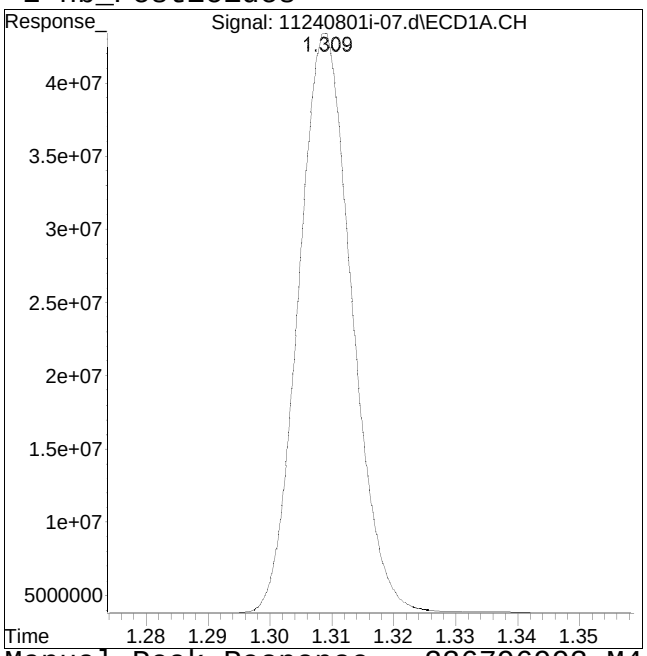
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #1: 1-br-2-nb_Pesticides



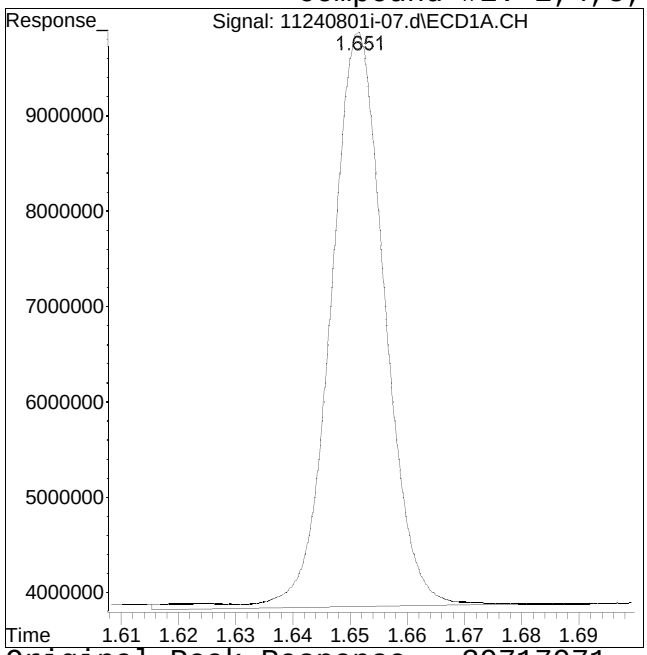


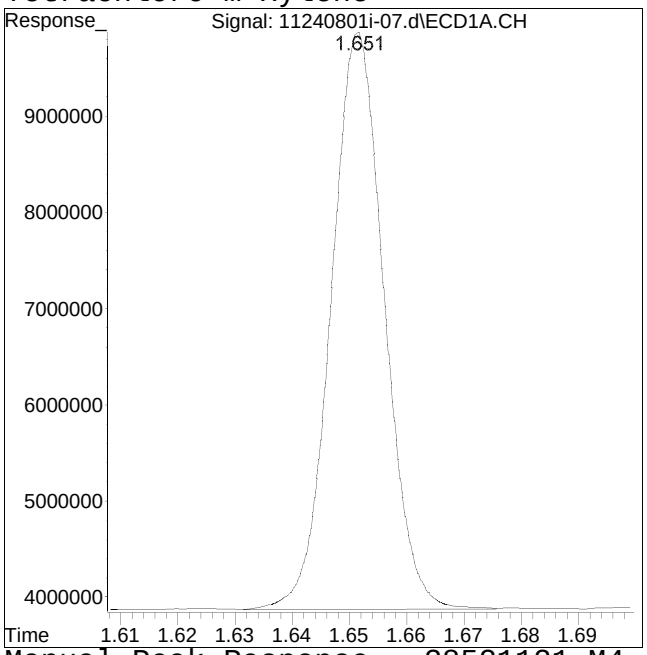
Original Peak Response = 245553359 Manual Peak Response = 236796993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



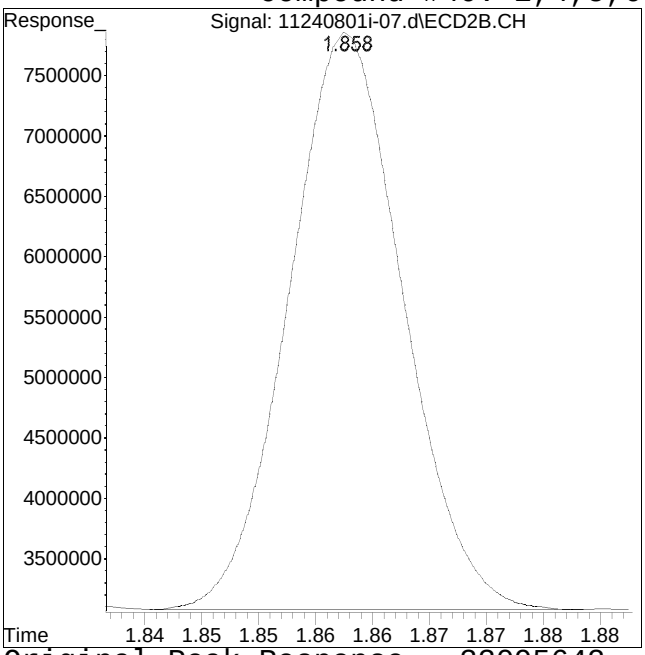


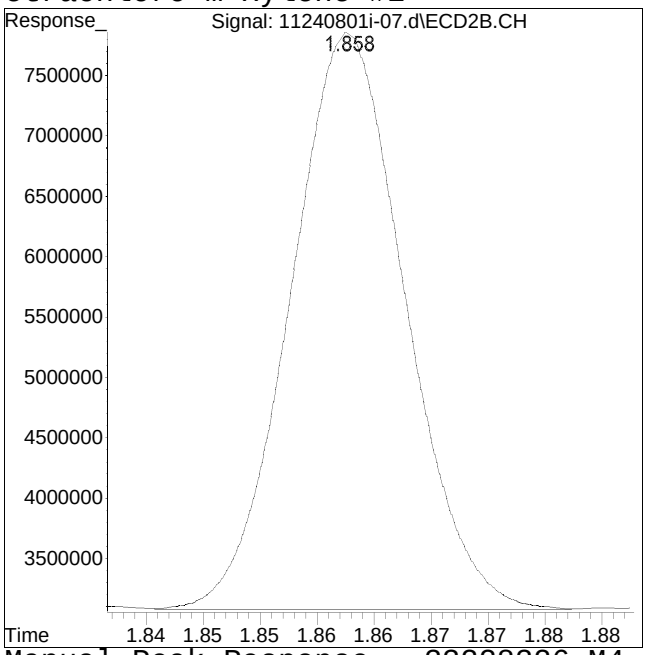
Original Peak Response = 39717971 Manual Peak Response = 38521121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



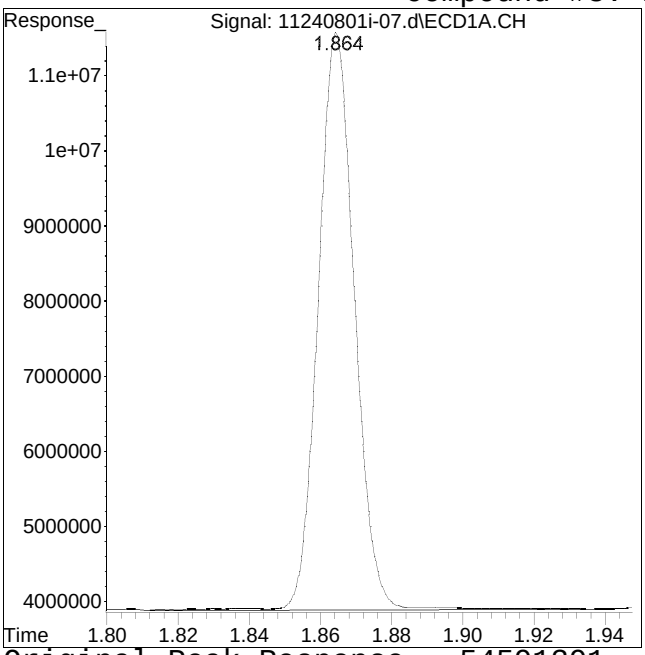


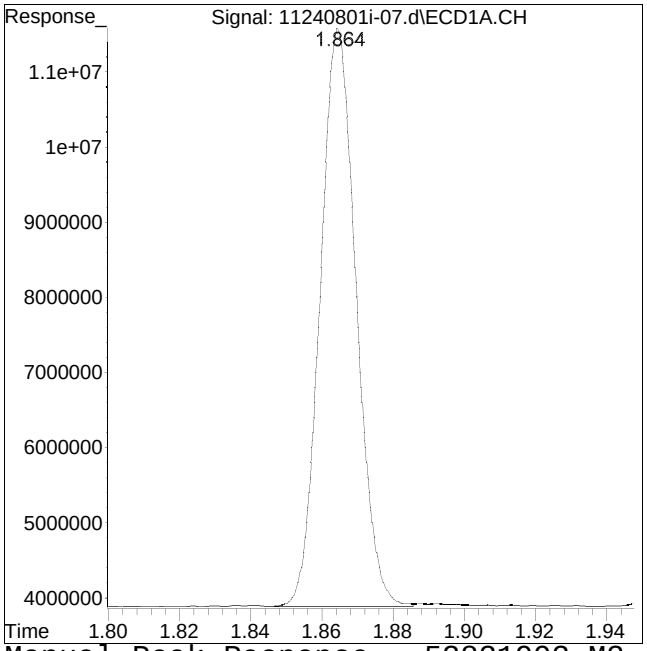
Original Peak Response = 33095642 Manual Peak Response = 33228326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #3: Hexachlorobenzene



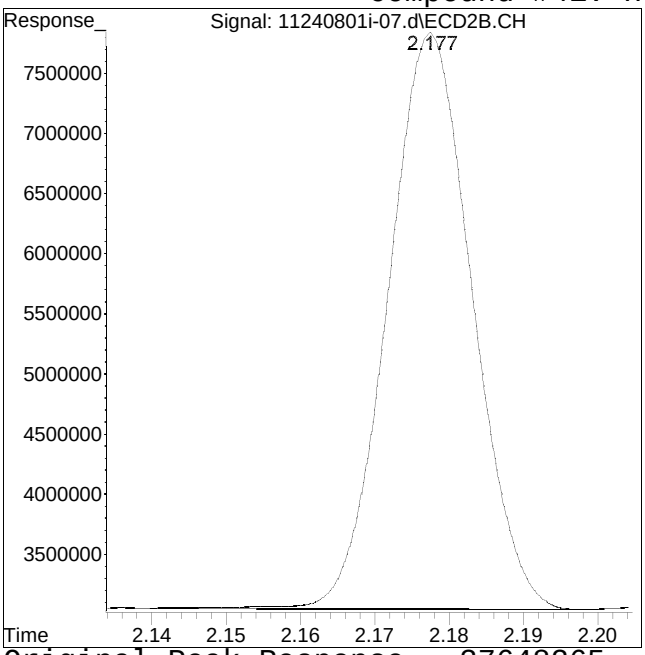


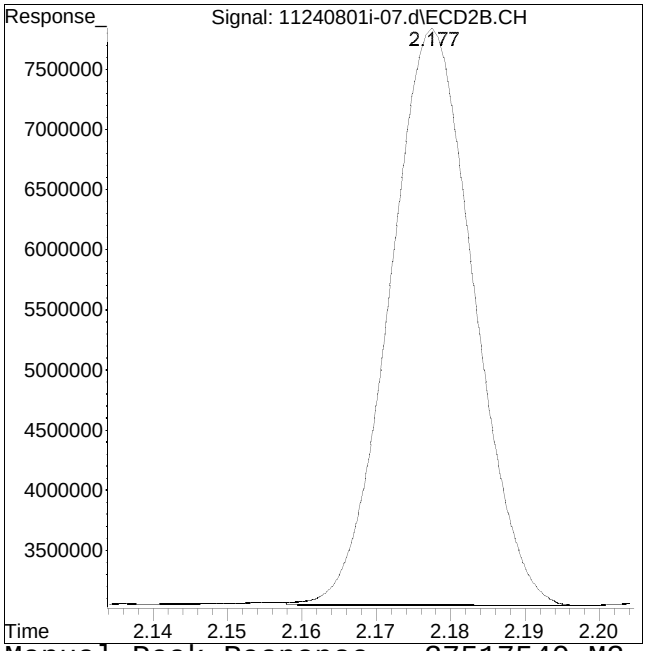
Original Peak Response = 54591391 Manual Peak Response = 53831993 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #41: Hexachlorobenzene #2





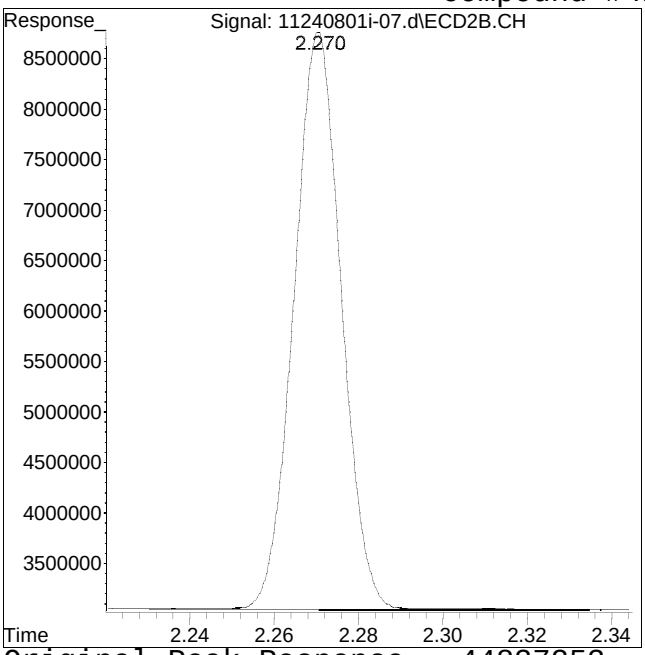
Original Peak Response = 37648265 Manual Peak Response = 37517540 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

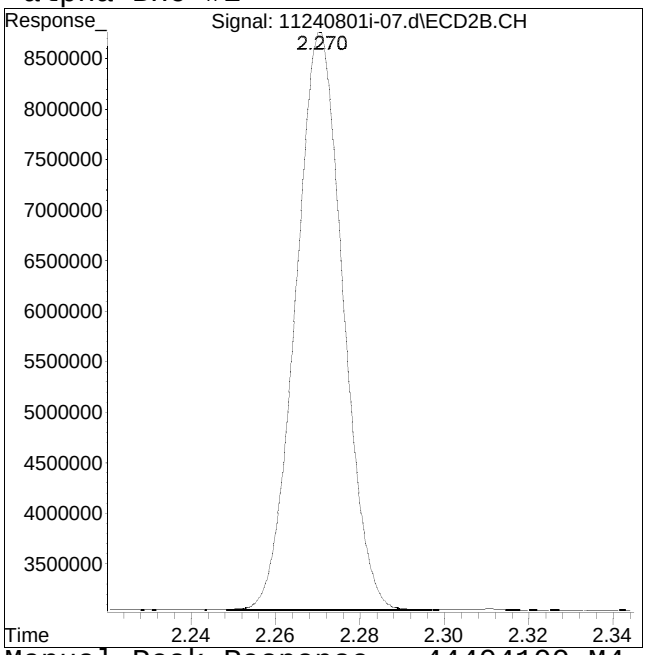
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #42: alpha-BHC #2



Original Peak Response = 44837253



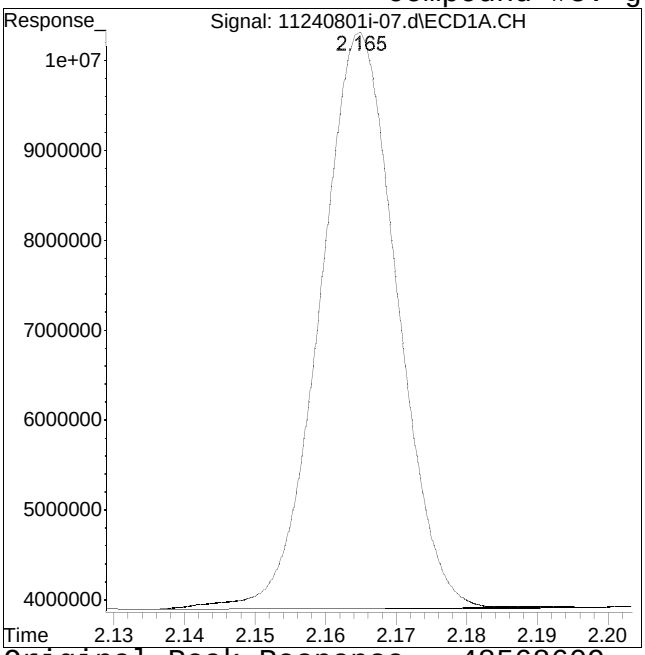
Manual Peak Response = 44404100 M4

M4 = Poor automated baseline construction.

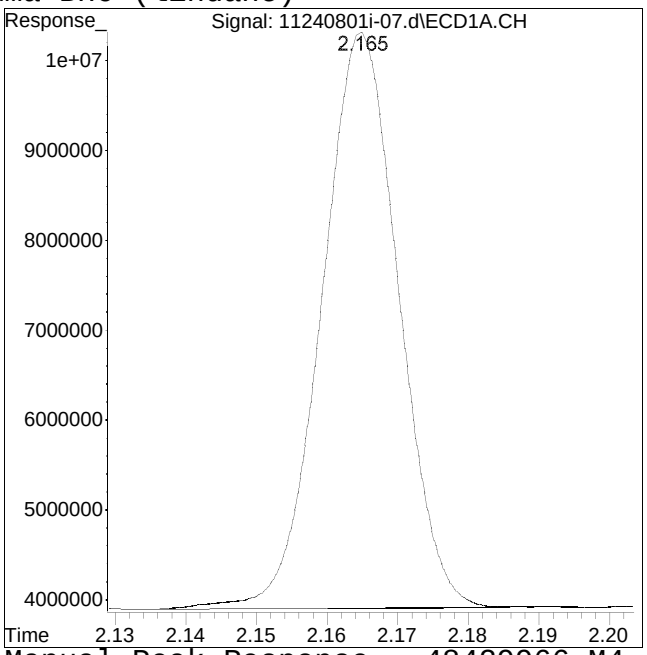
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 48568609



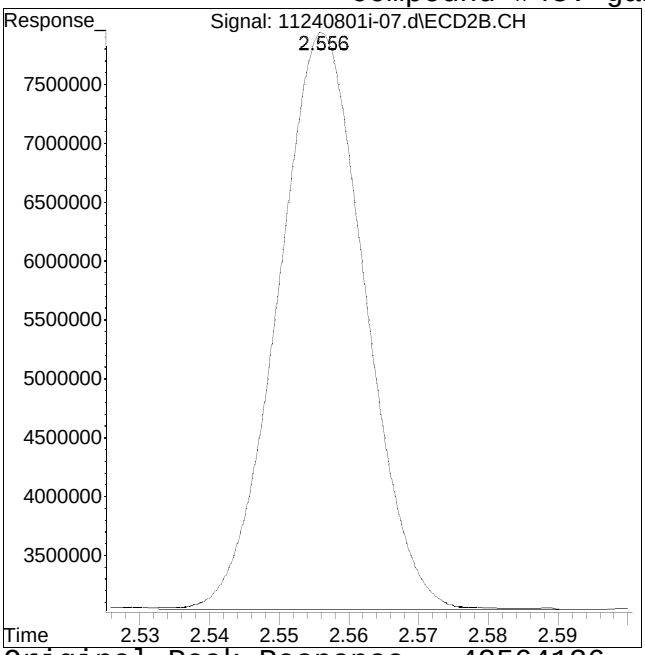
Manual Peak Response = 48429966 M4

M4 = Poor automated baseline construction.

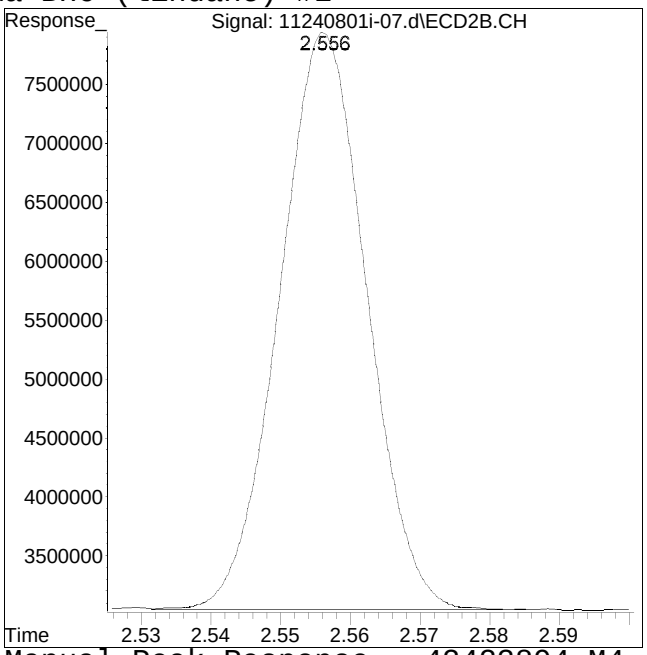
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0 Quant Date : 8/2/2024 10:53 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 42564136



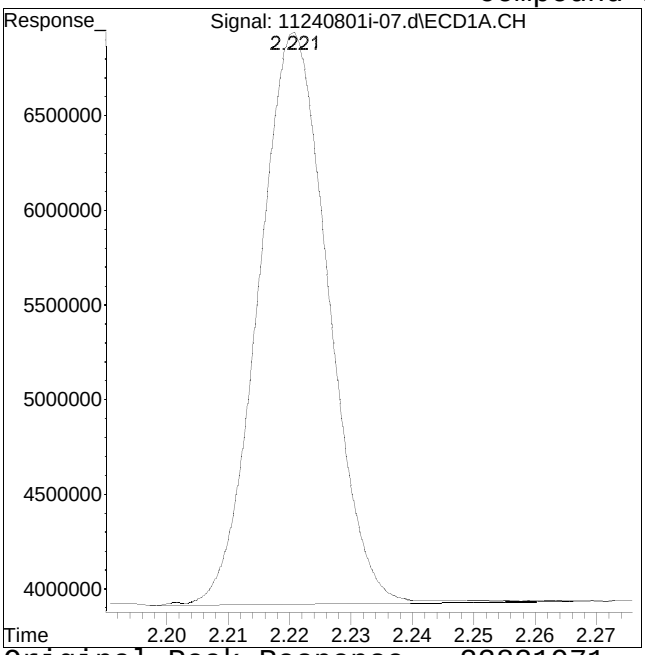
Manual Peak Response = 42423894 M4

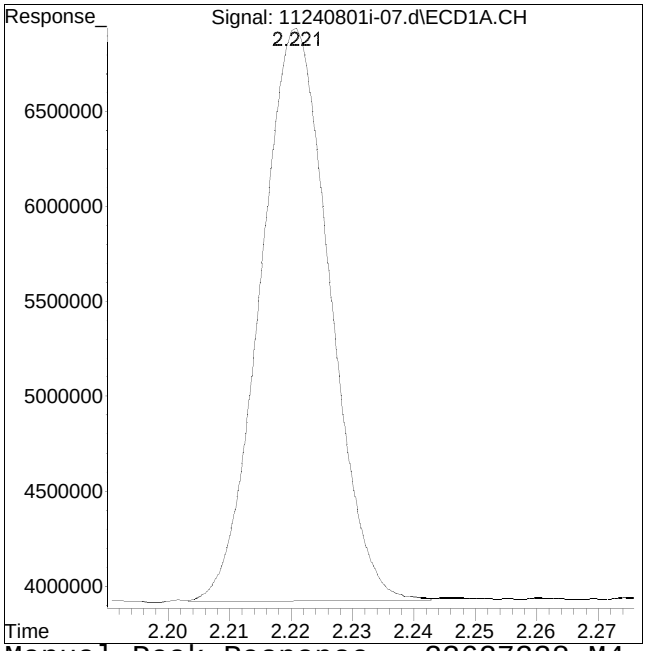
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #6: beta-BHC





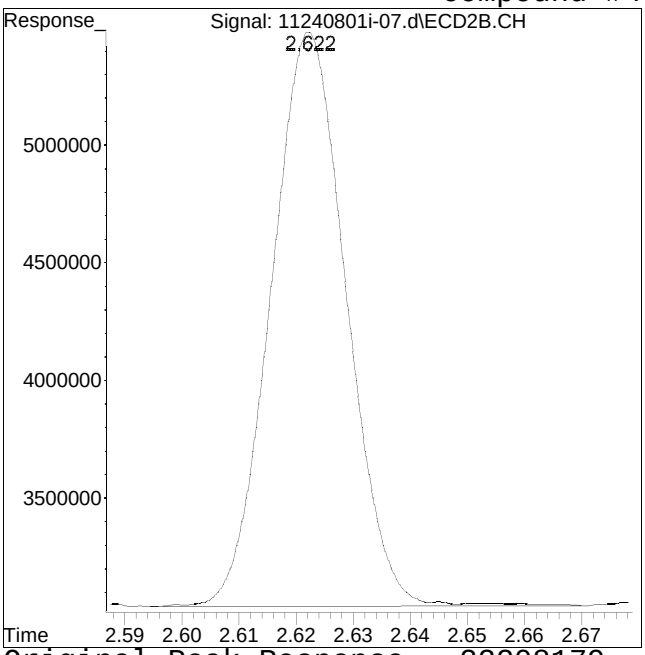
Original Peak Response = 23821971 Manual Peak Response = 23627338 M4
M4 = Poor automated baseline construction.

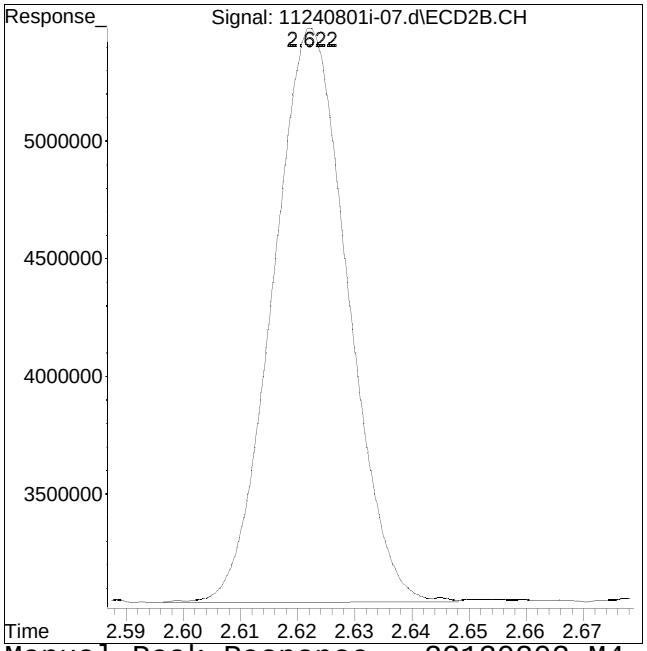
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #44: beta-BHC #2





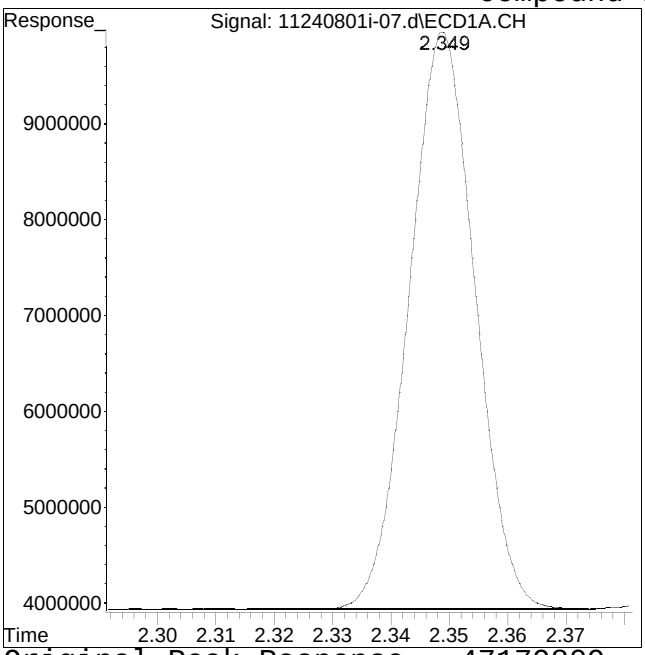
Original Peak Response = 22208179 Manual Peak Response = 22130202 M4
M4 = Poor automated baseline construction.

Manual Integration Report

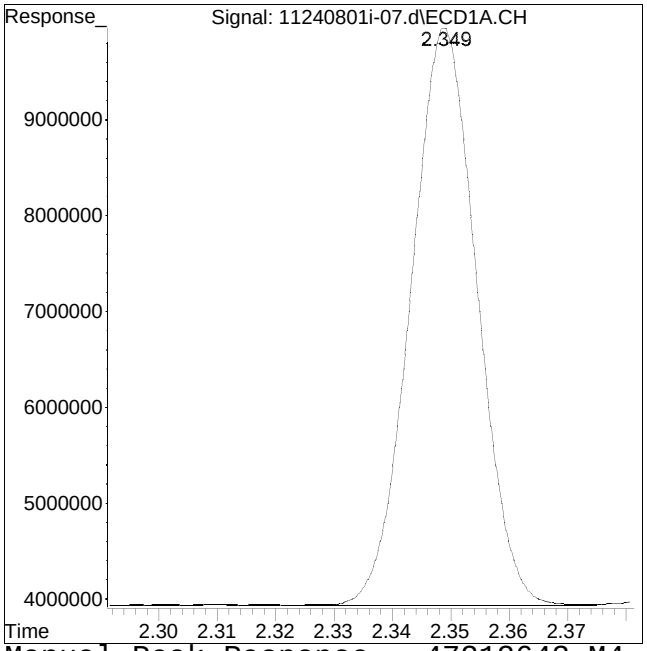
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #7: delta-BHC



Original Peak Response = 47179809



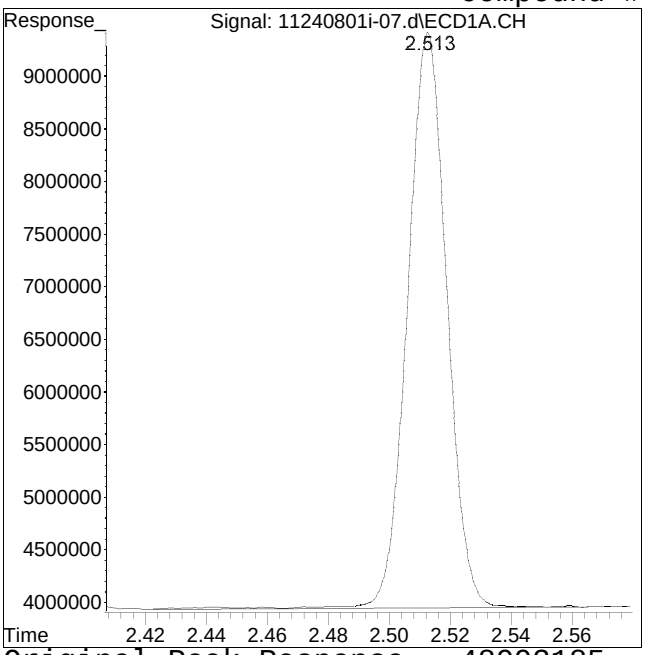
Manual Peak Response = 47212643 M4

M4 = Poor automated baseline construction.

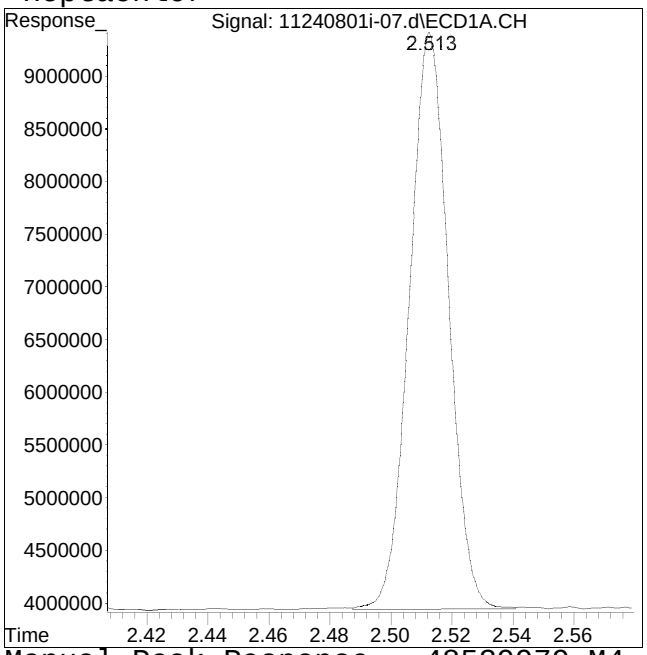
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #8: Heptachlor



Original Peak Response = 48993185



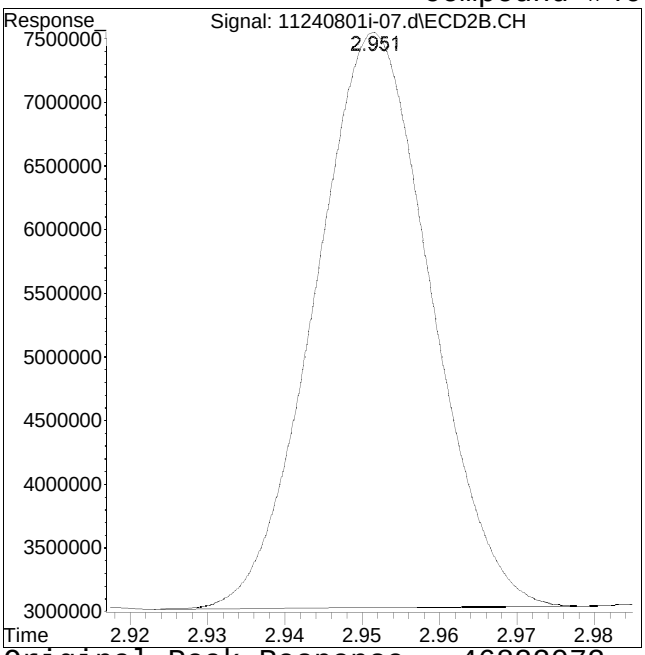
Manual Peak Response = 48539979 M4

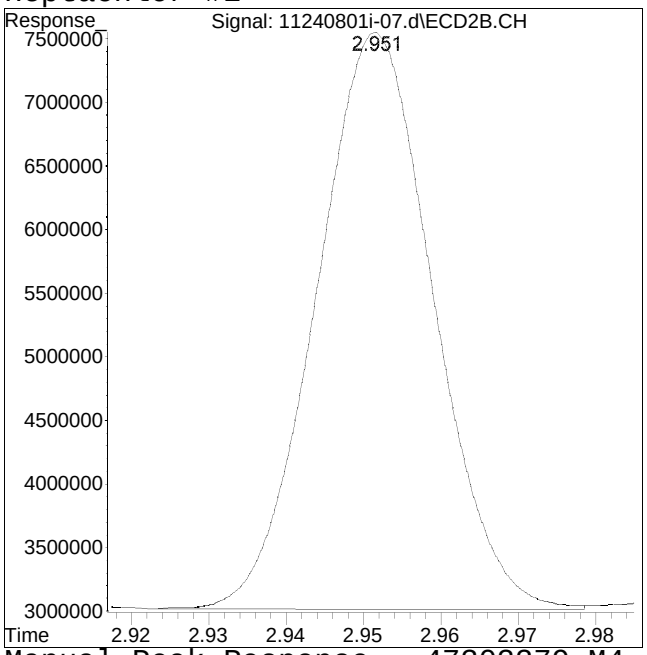
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #46: Heptachlor #2



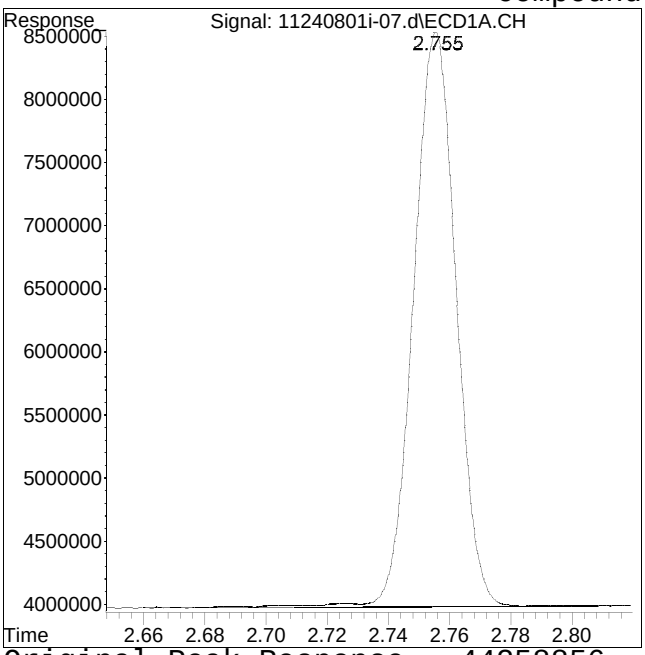


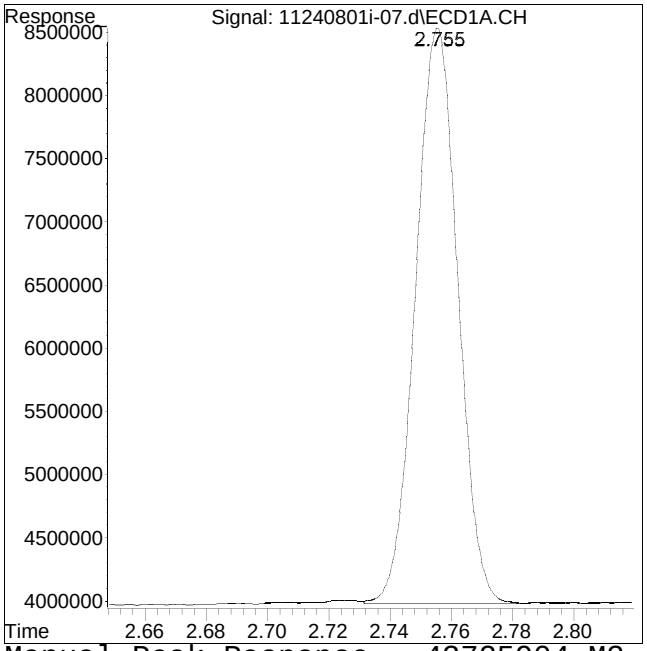
Original Peak Response = 46822072 Manual Peak Response = 47303379 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #9: Aldrin



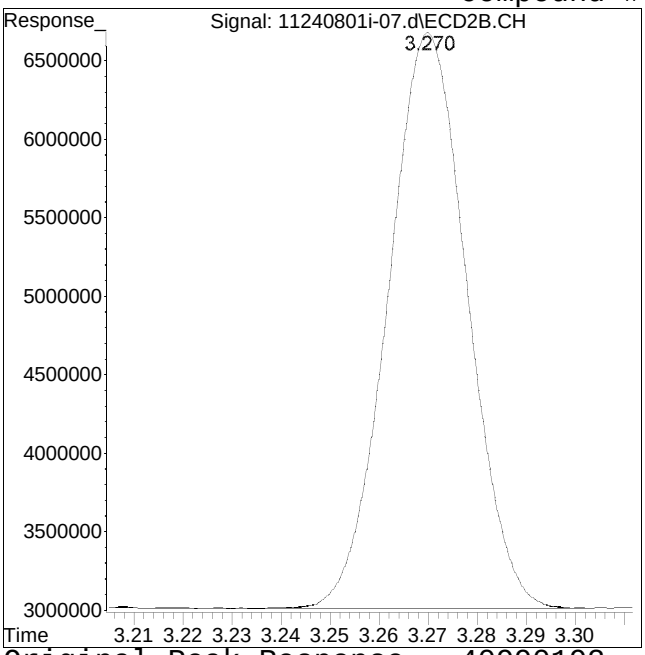


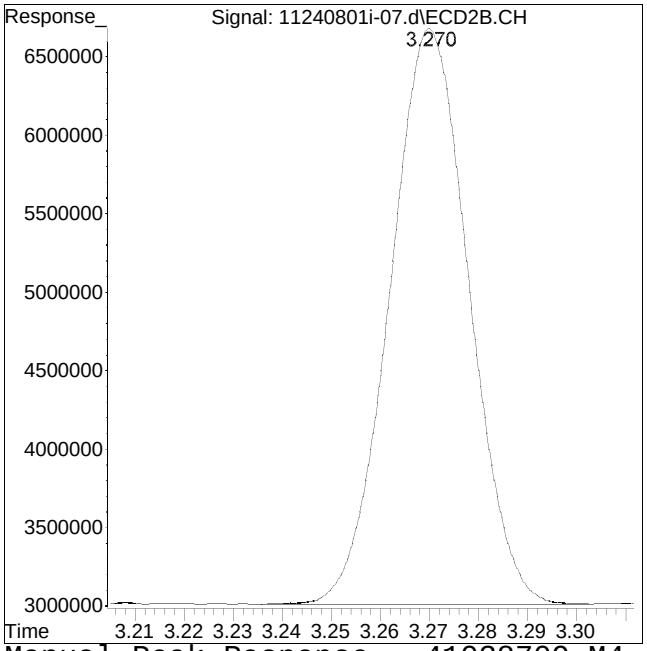
Original Peak Response = 44258856 Manual Peak Response = 43725904 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #47: Aldrin #2





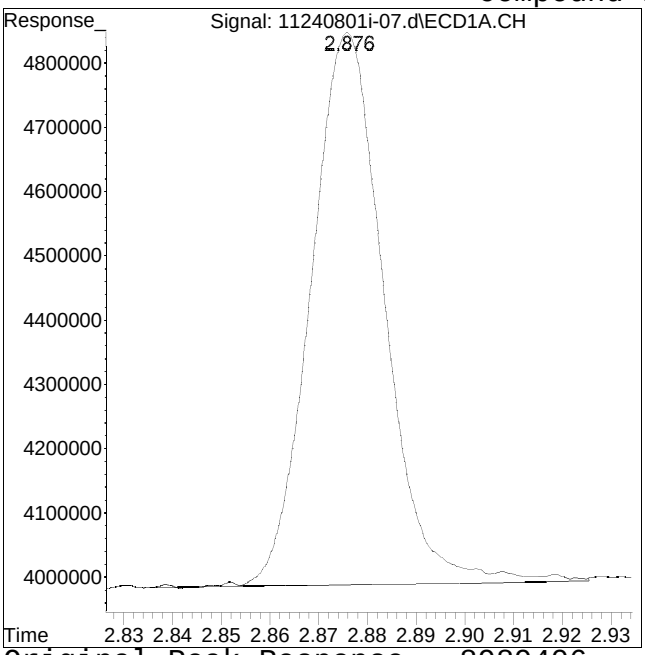
Original Peak Response = 40990192 Manual Peak Response = 41038709 M4
M4 = Poor automated baseline construction.

Manual Integration Report

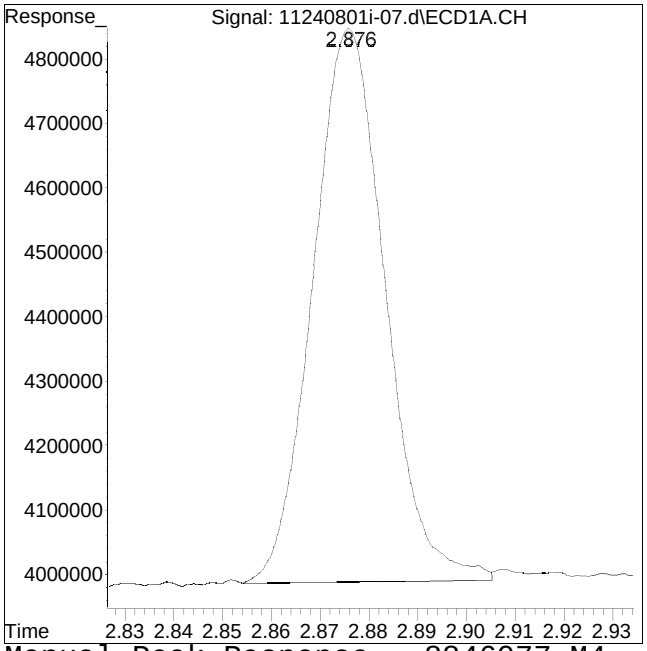
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #10: Alachlor



Original Peak Response = 8989406



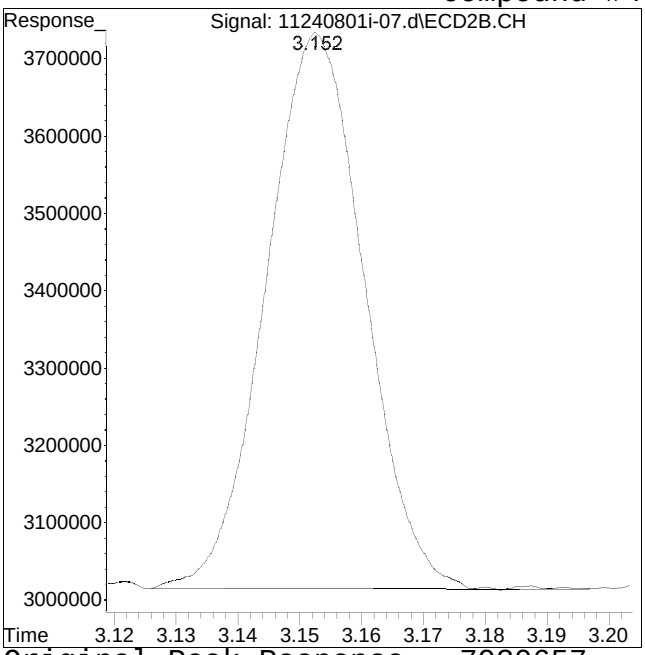
Manual Peak Response = 8846077 M4

M4 = Poor automated baseline construction.

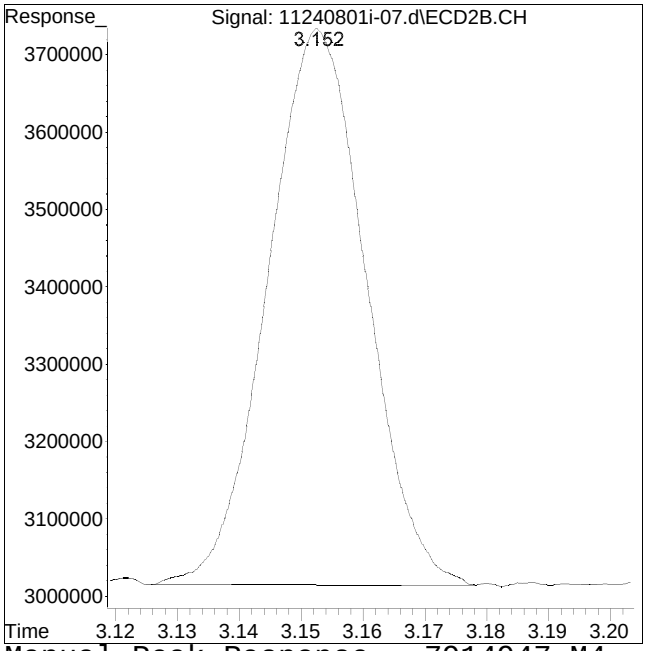
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #48: Alachlor #2



Original Peak Response = 7930657



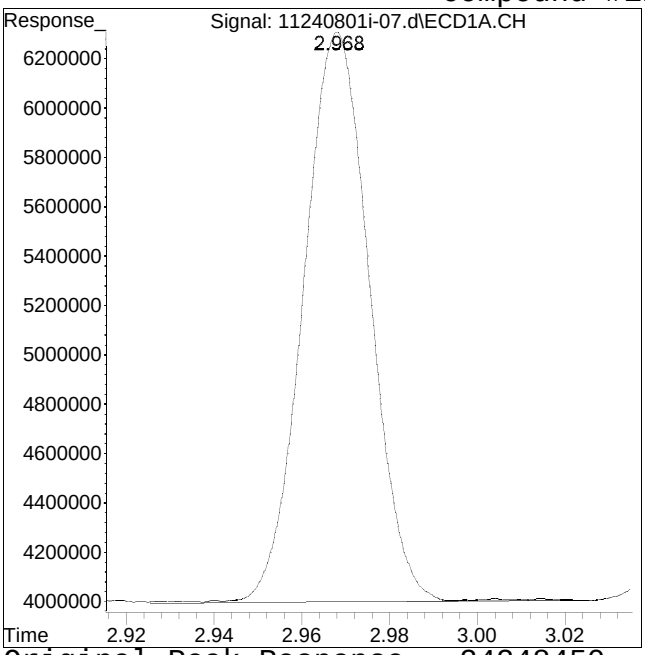
Manual Peak Response = 7914947 M4

M4 = Poor automated baseline construction.

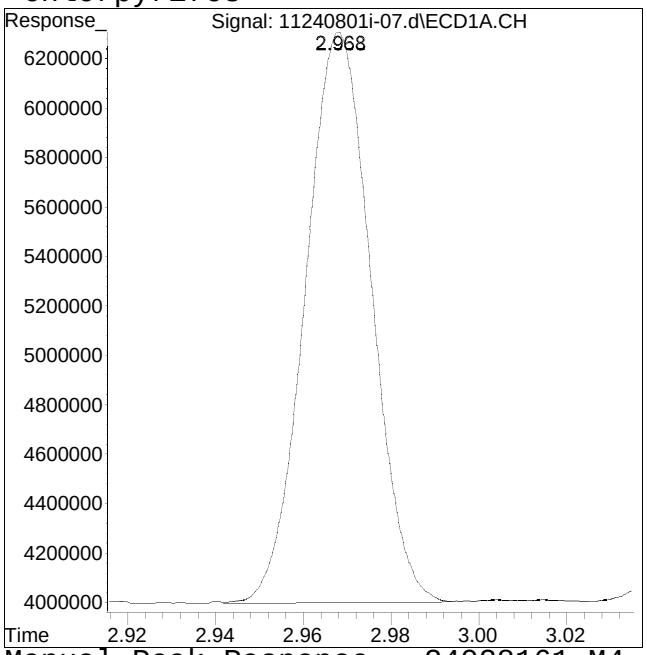
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #11: Chlorpyrifos



Original Peak Response = 24248450



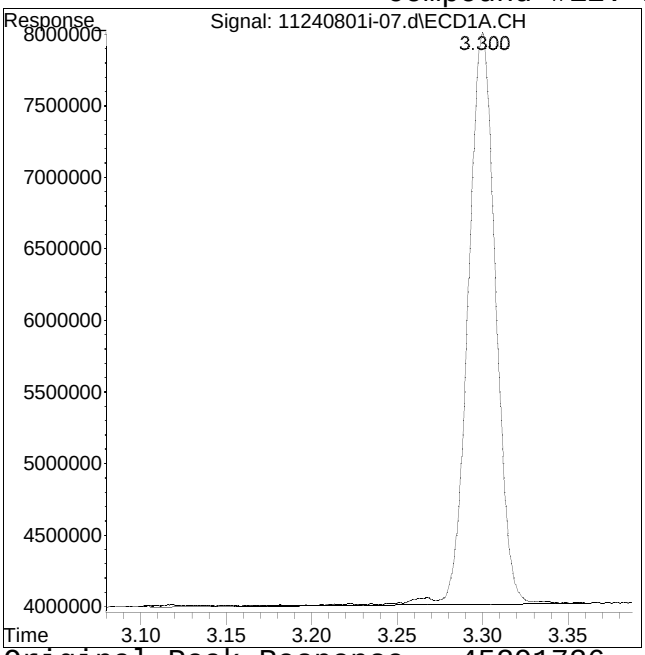
Manual Peak Response = 24028161 M4

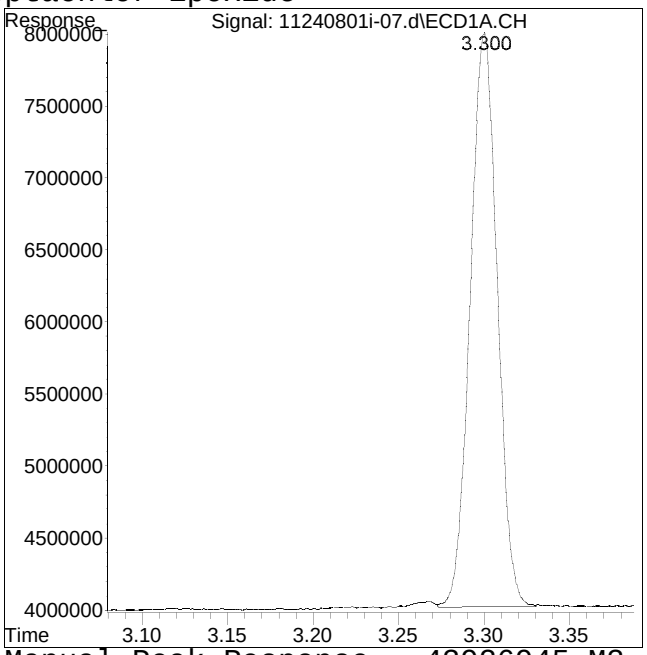
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #12: Heptachlor Epoxide





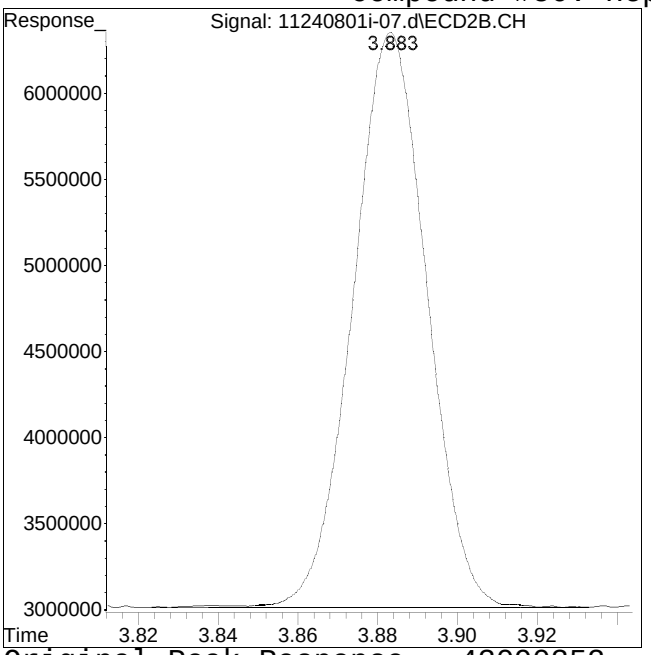
Original Peak Response = 45291736 Manual Peak Response = 43926945 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

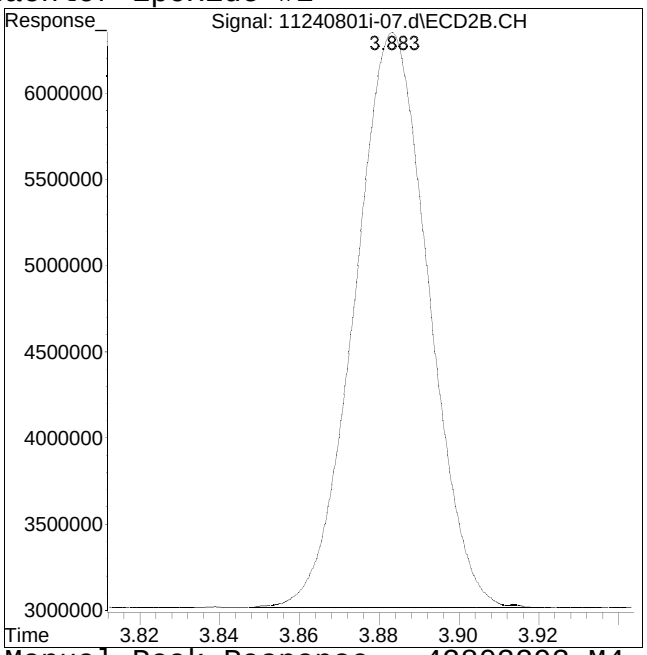
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 43090352



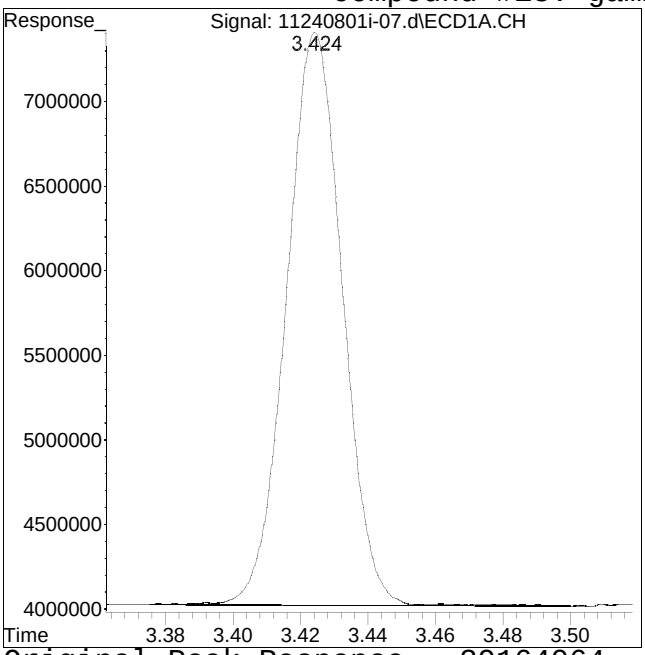
Manual Peak Response = 42803293 M4

M4 = Poor automated baseline construction.

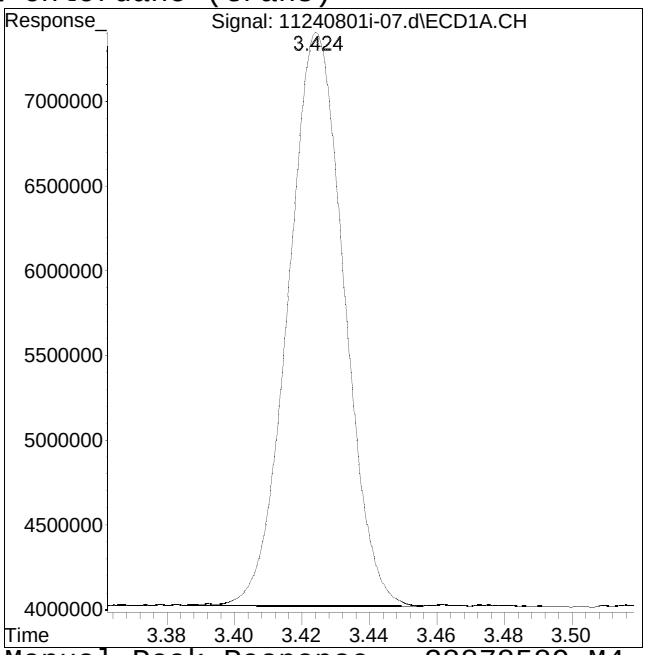
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 39164064



Manual Peak Response = 38878589 M4

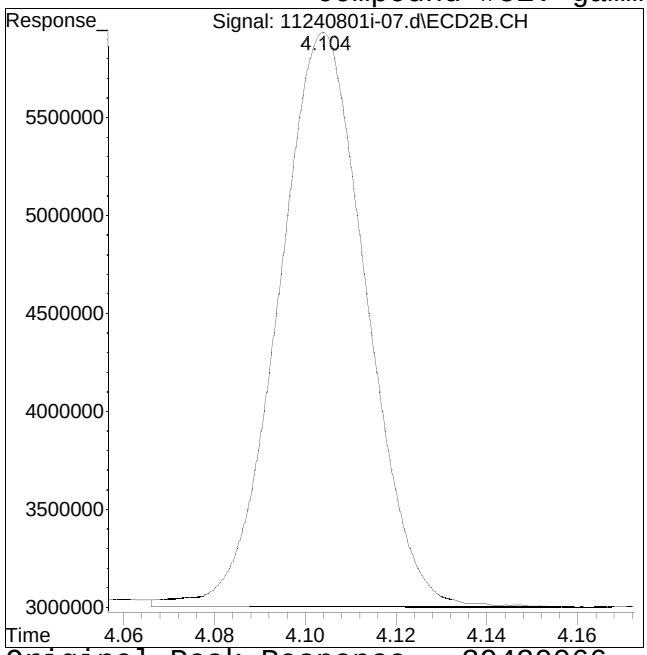
M4 = Poor automated baseline construction.

Manual Integration Report

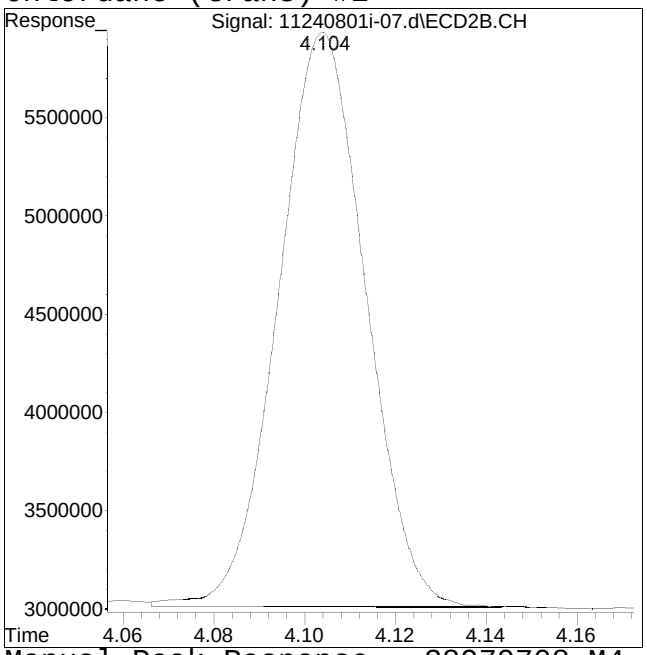
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 39430066



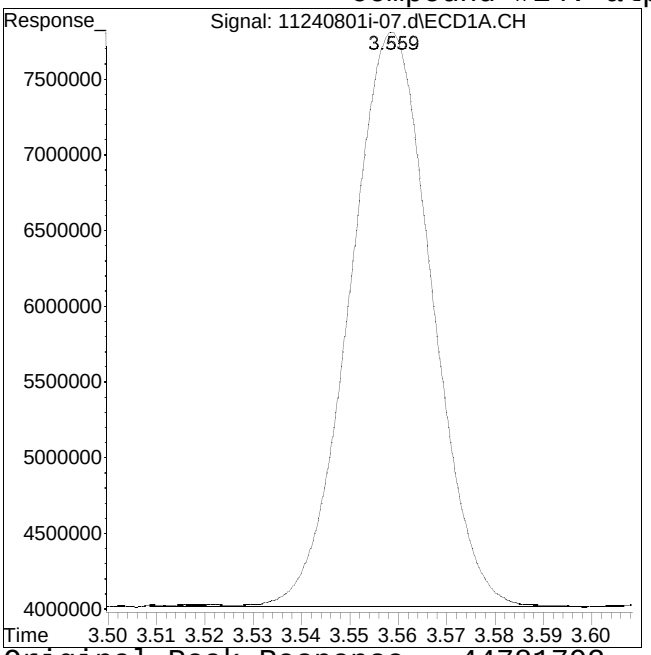
Manual Peak Response = 38970708 M4

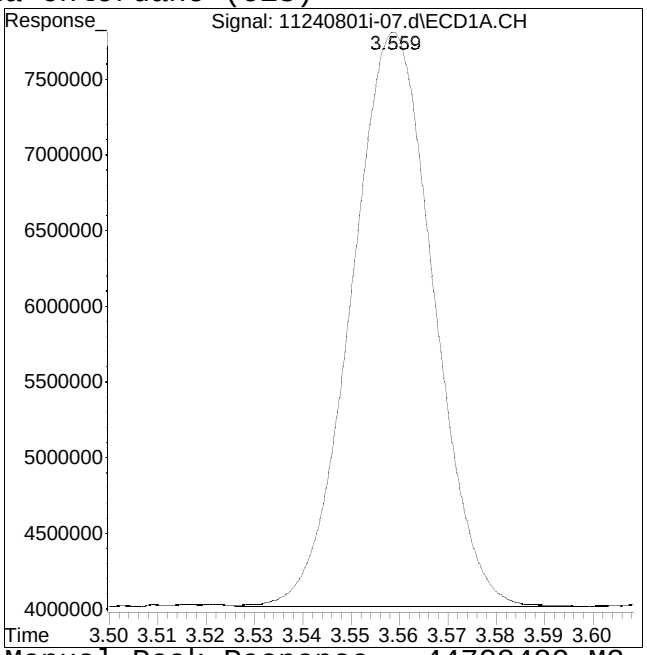
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #14: alpha-Chlordane (cis)



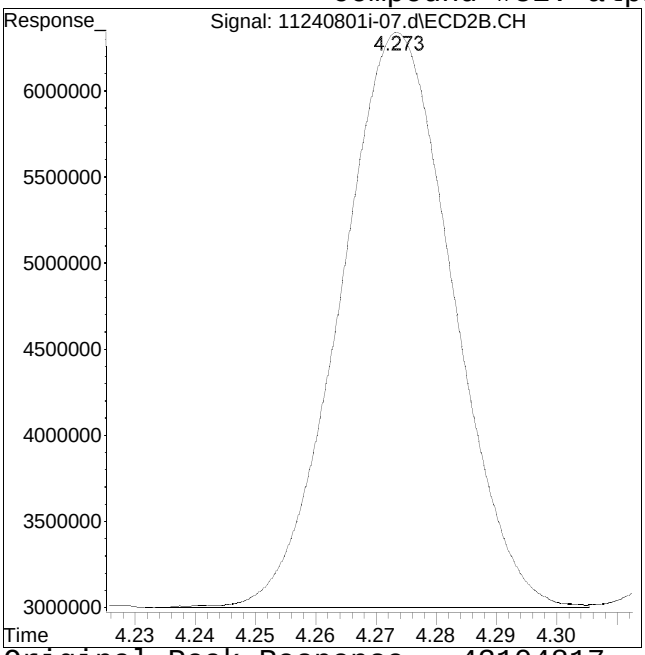


Original Peak Response = 44781792 Manual Peak Response = 44728489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

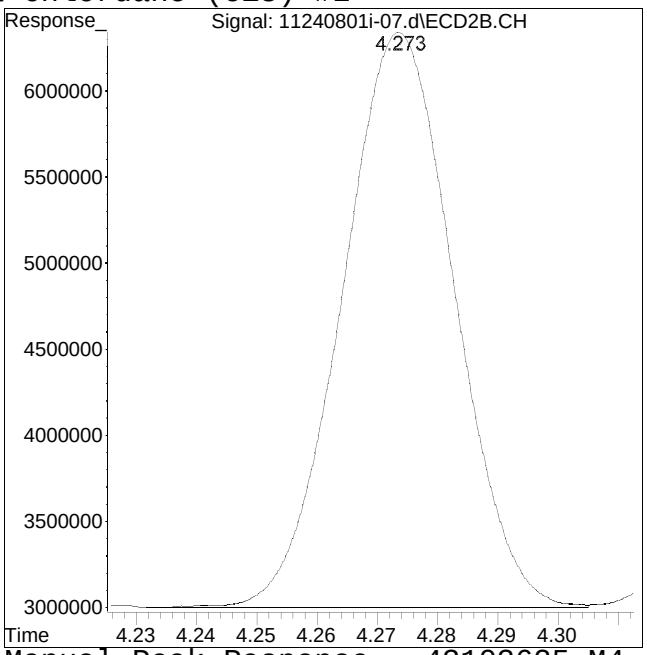
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 43104817



Manual Peak Response = 43103625 M4

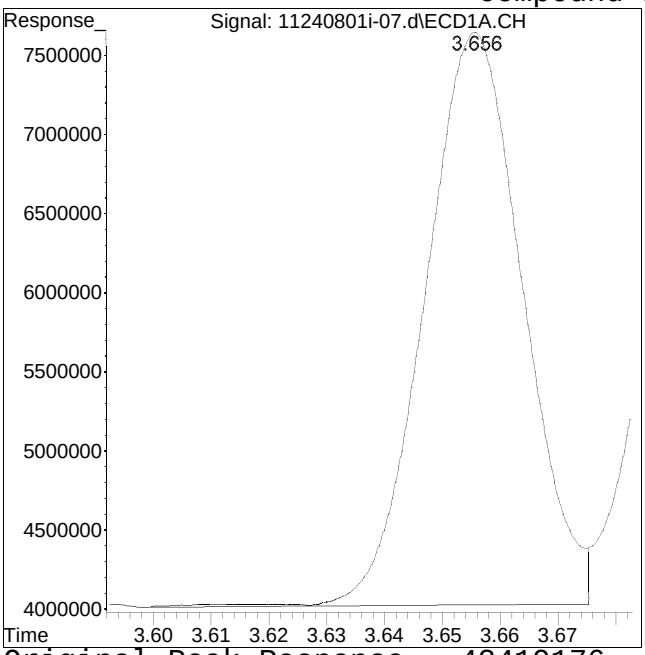
M4 = Poor automated baseline construction.

Manual Integration Report

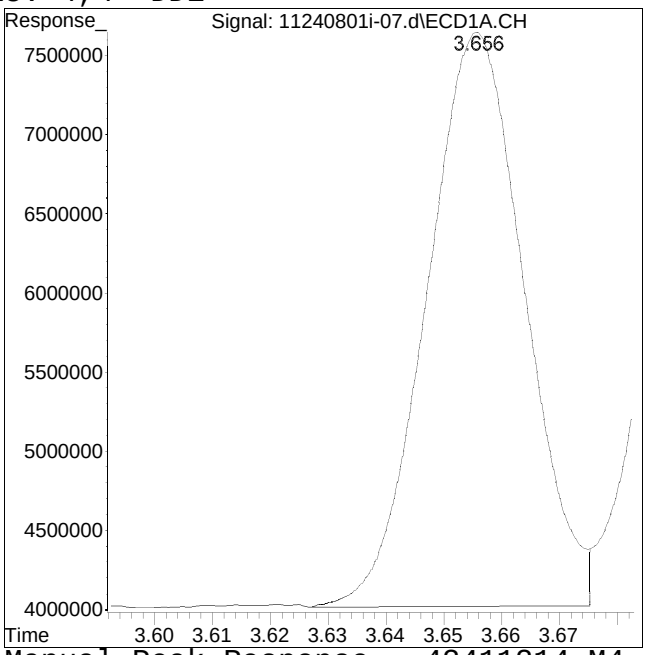
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 42419176



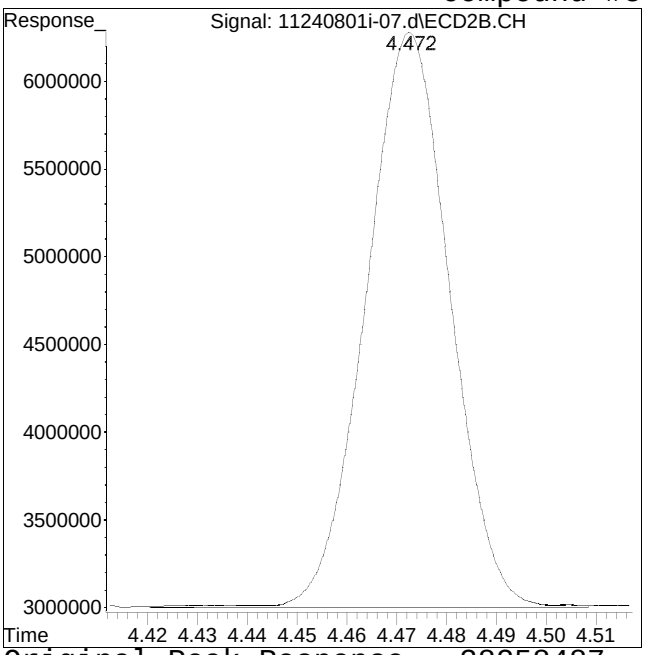
Manual Peak Response = 42411214 M4

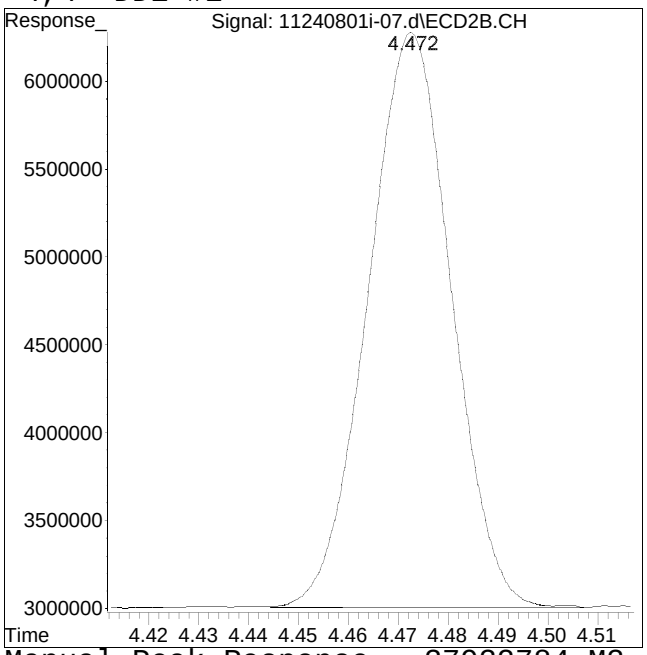
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #53: 4,4'-DDE #2





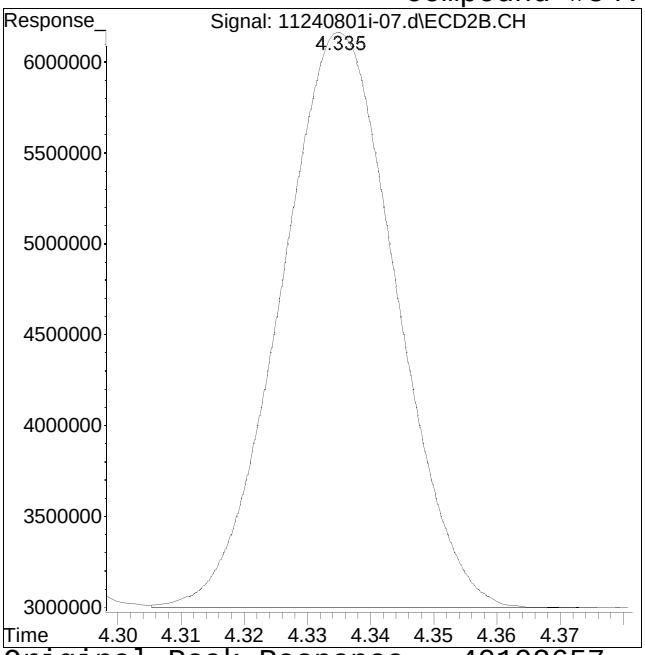
Original Peak Response = 38258487 Manual Peak Response = 37932784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

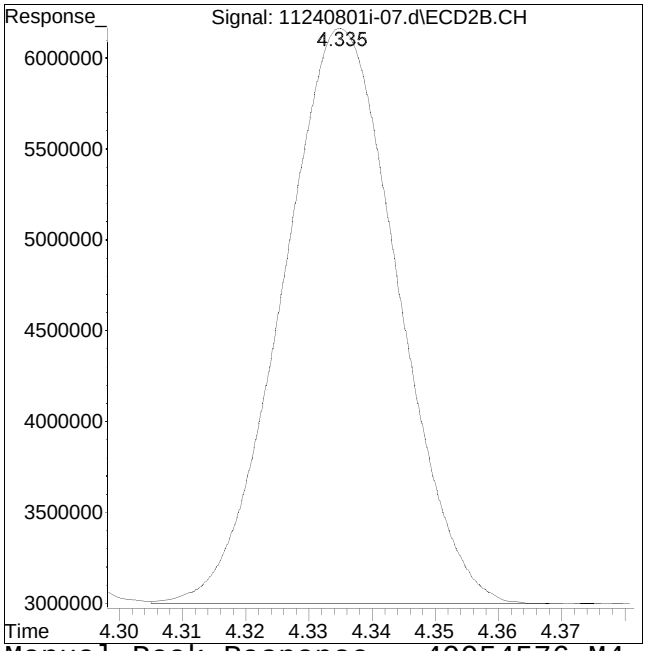
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #54: Endosulfan I #2



Original Peak Response = 40102657



Manual Peak Response = 40054576 M4

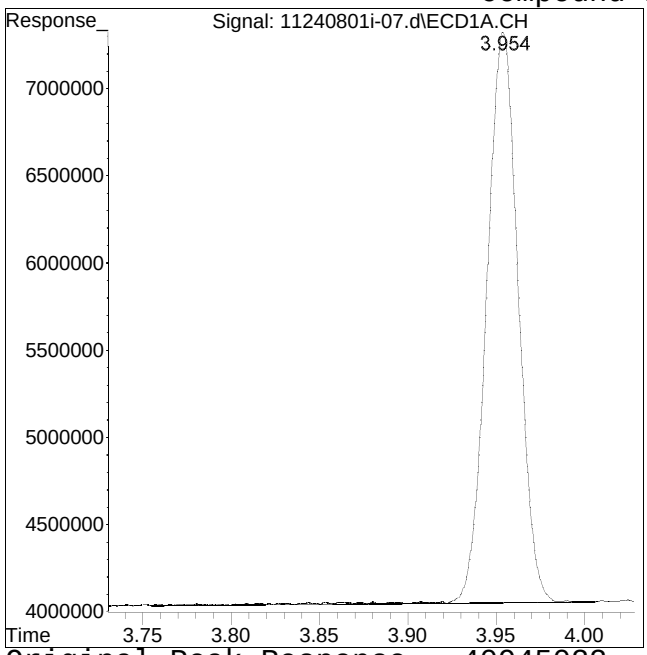
M4 = Poor automated baseline construction.

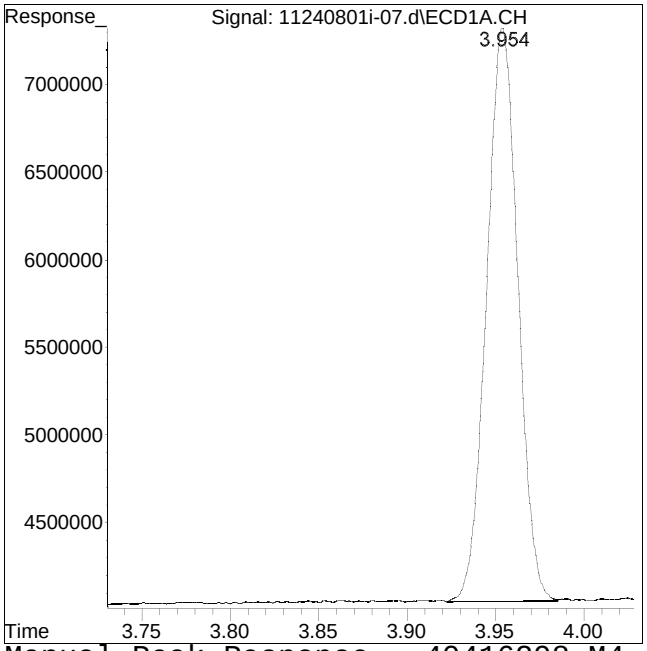
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #17: Dieldrin





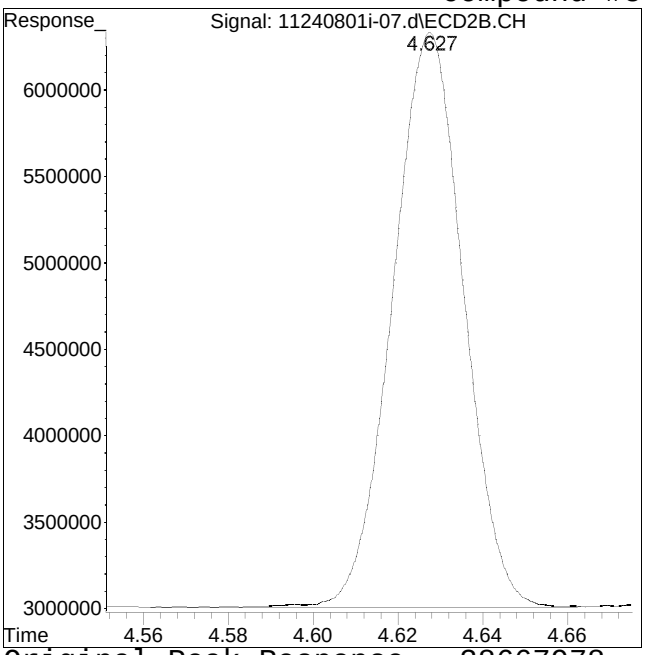
Original Peak Response = 40945022 Manual Peak Response = 40416298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

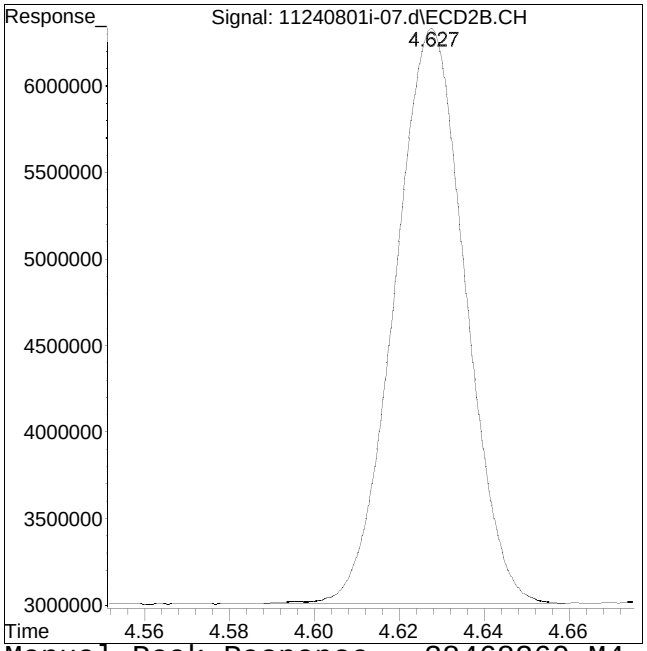
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #55: Dieldrin #2



Original Peak Response = 38667978



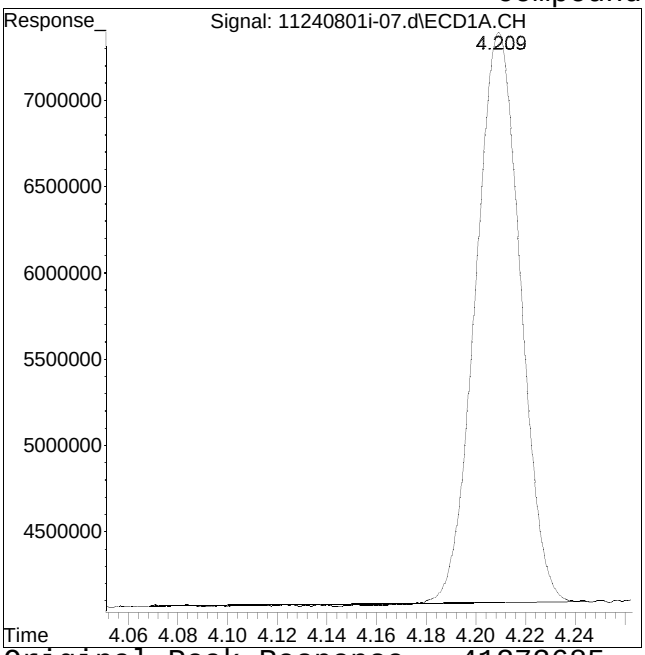
Manual Peak Response = 38468360 M4

M4 = Poor automated baseline construction.

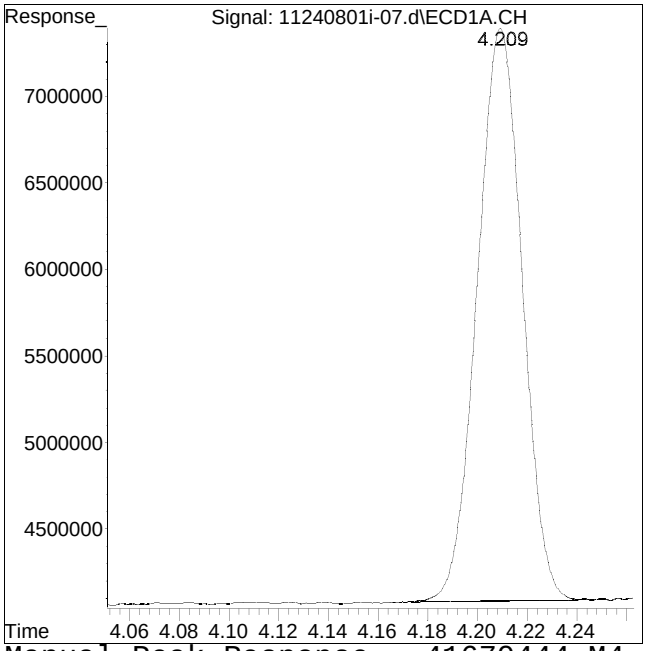
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #18: Endrin



Original Peak Response = 41273685



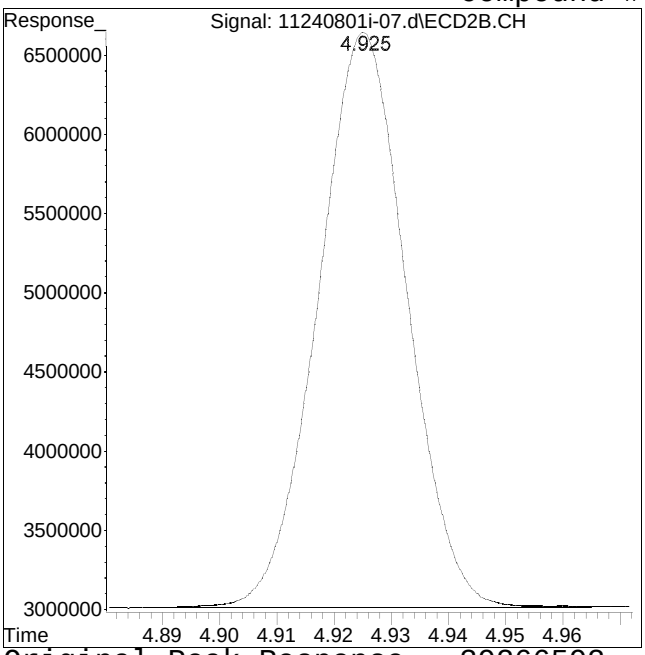
Manual Peak Response = 41670444 M4

M4 = Poor automated baseline construction.

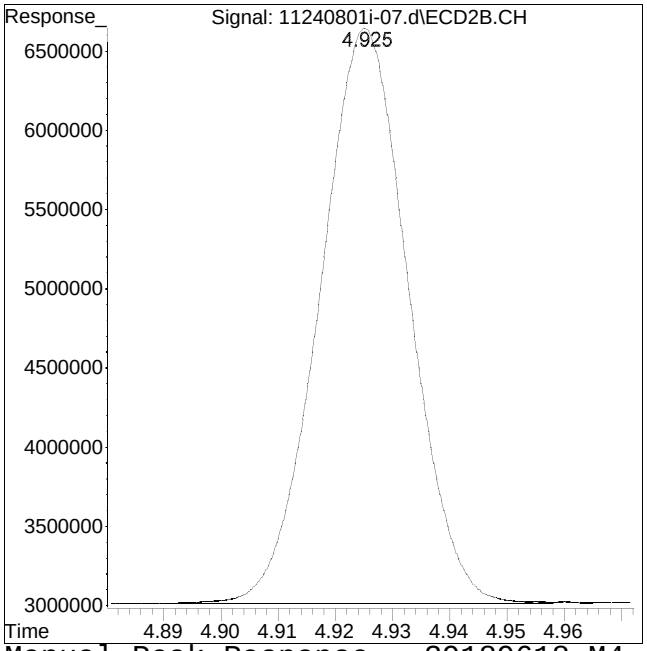
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #56: Endrin #2



Original Peak Response = 39266592



Manual Peak Response = 39189618 M4

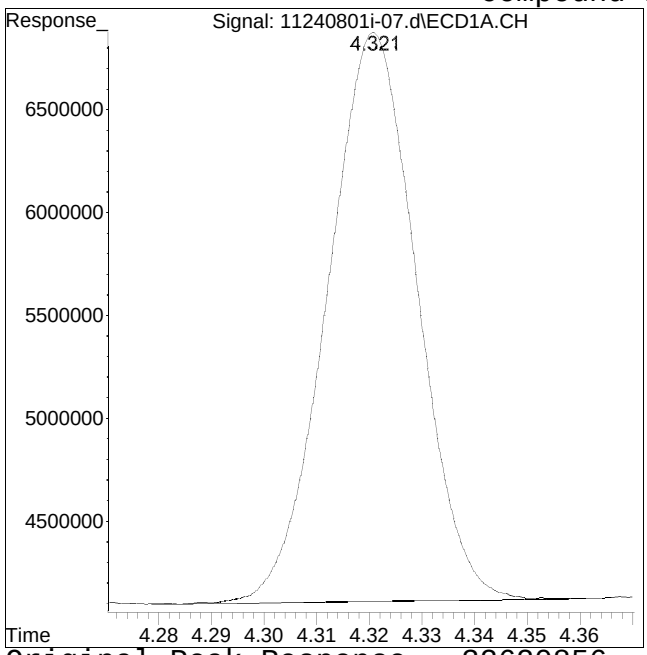
M4 = Poor automated baseline construction.

Manual Integration Report

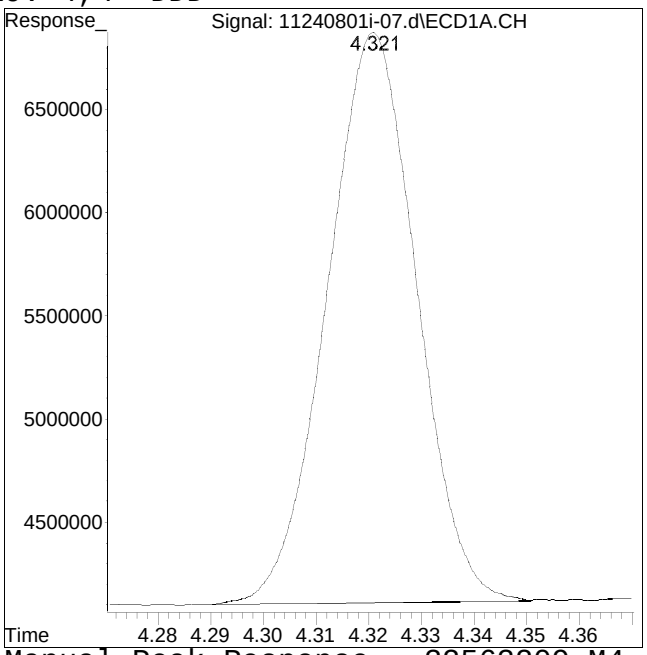
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #19: 4,4'-DDD



Original Peak Response = 32620856



Manual Peak Response = 32563209 M4

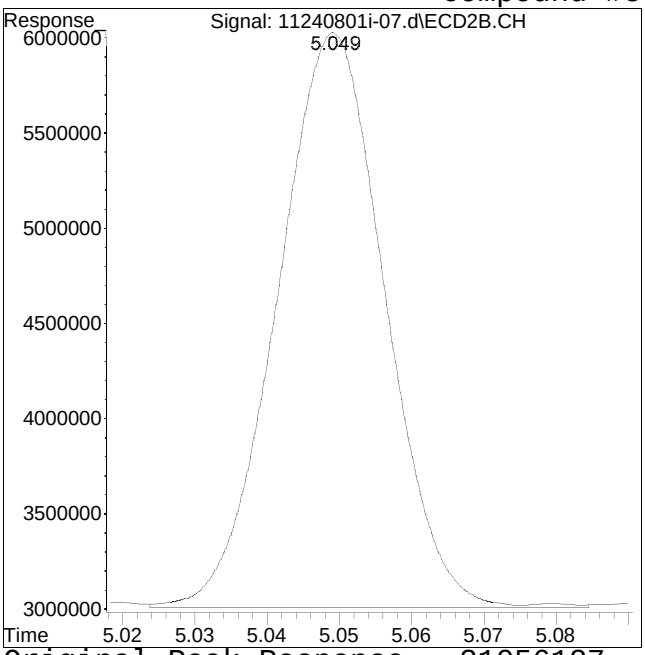
M4 = Poor automated baseline construction.

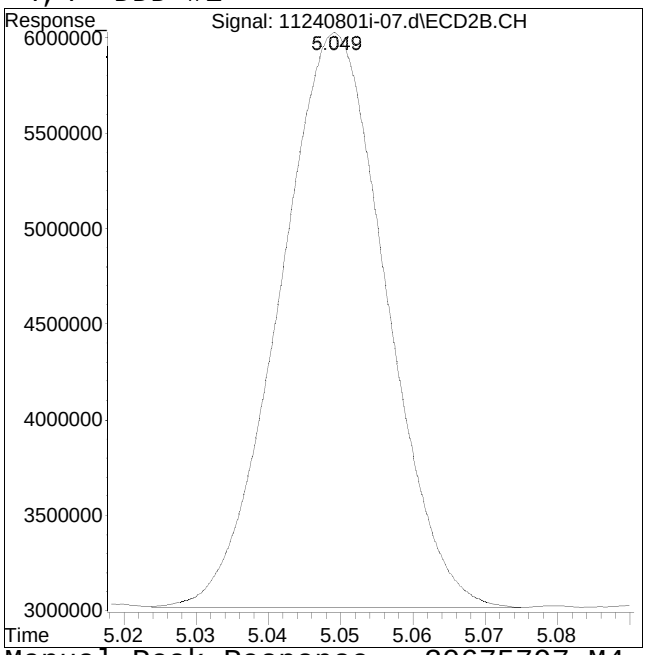
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #57: 4,4'-DDD #2



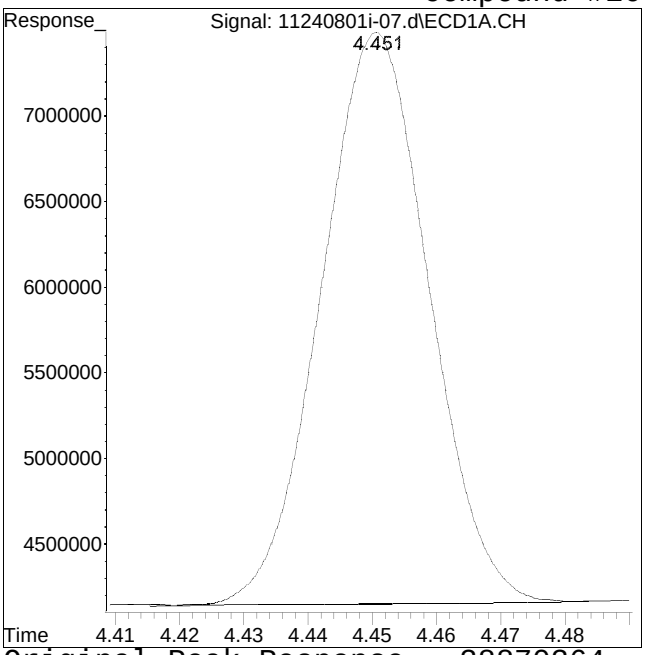


Original Peak Response = 31056127 Manual Peak Response = 30675797 M4
M4 = Poor automated baseline construction.

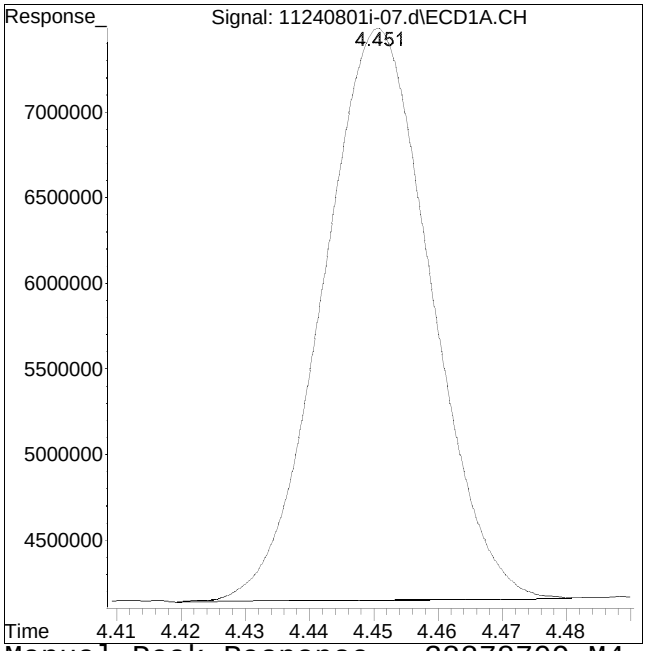
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #20: Endosulfan II



Original Peak Response = 38870364



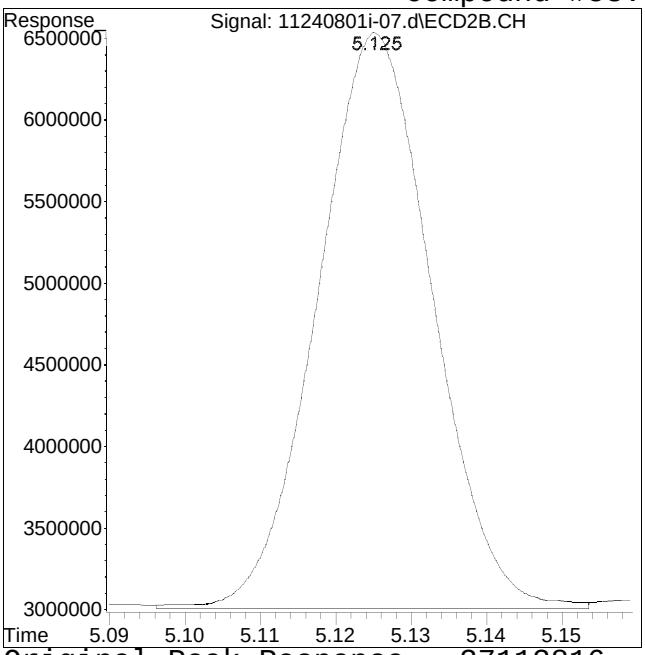
Manual Peak Response = 38878709 M4

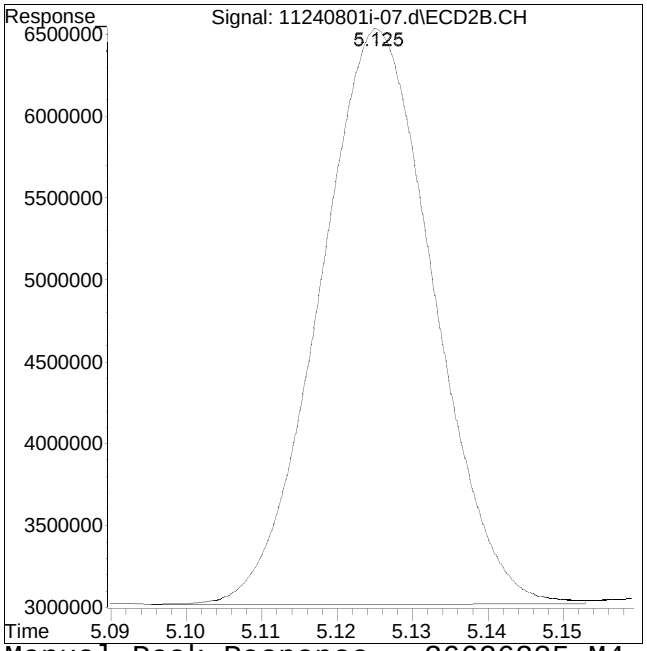
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #58: Endosulfan II #2



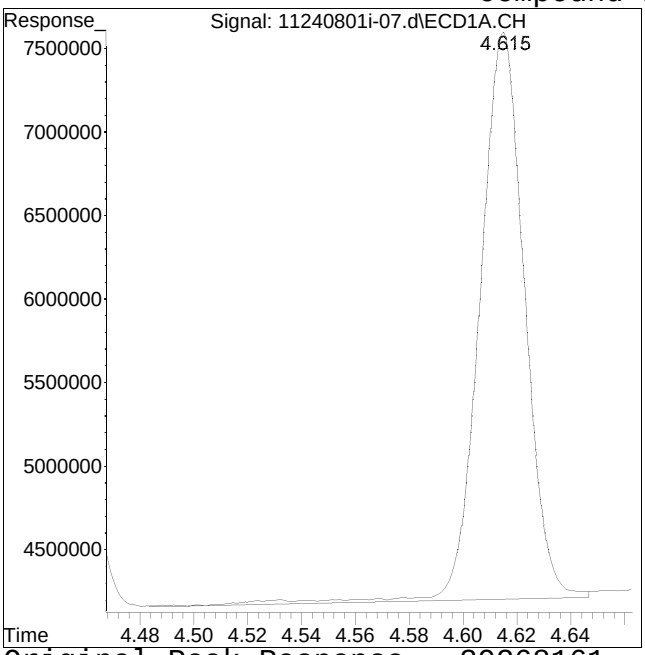


Original Peak Response = 37113816 Manual Peak Response = 36626235 M4
M4 = Poor automated baseline construction.

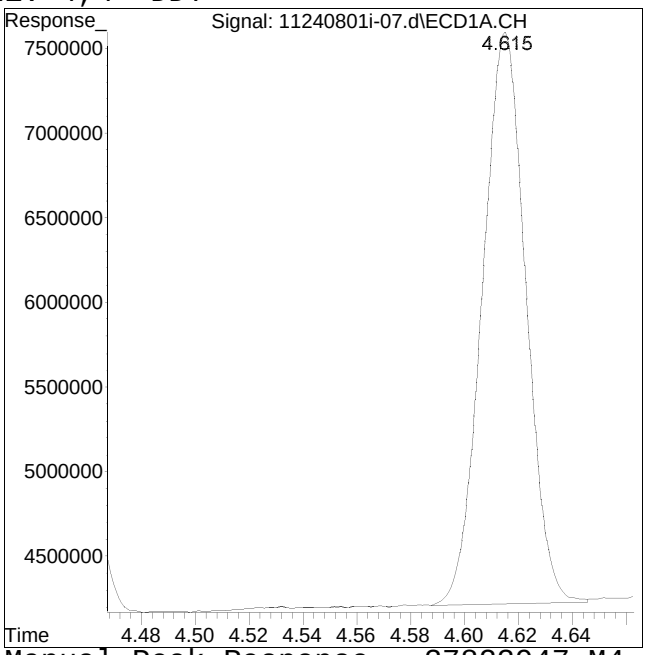
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #21: 4,4'-DDT



Original Peak Response = 39268161



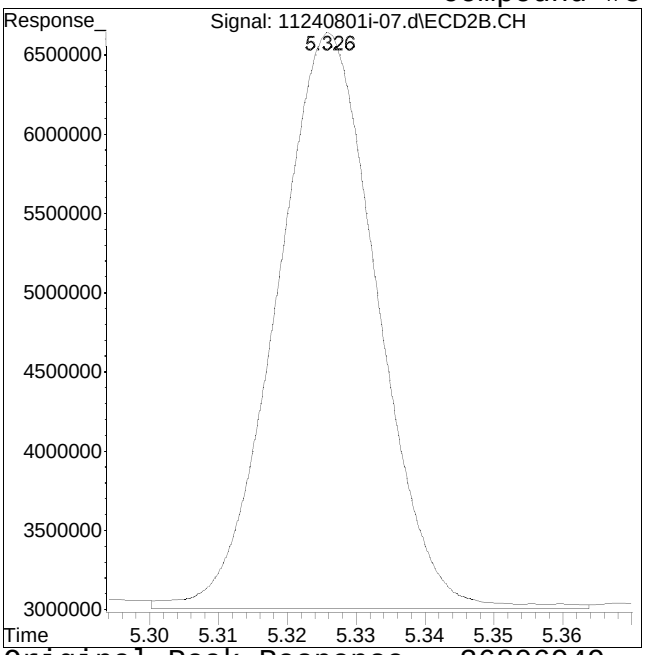
Manual Peak Response = 37823947 M4

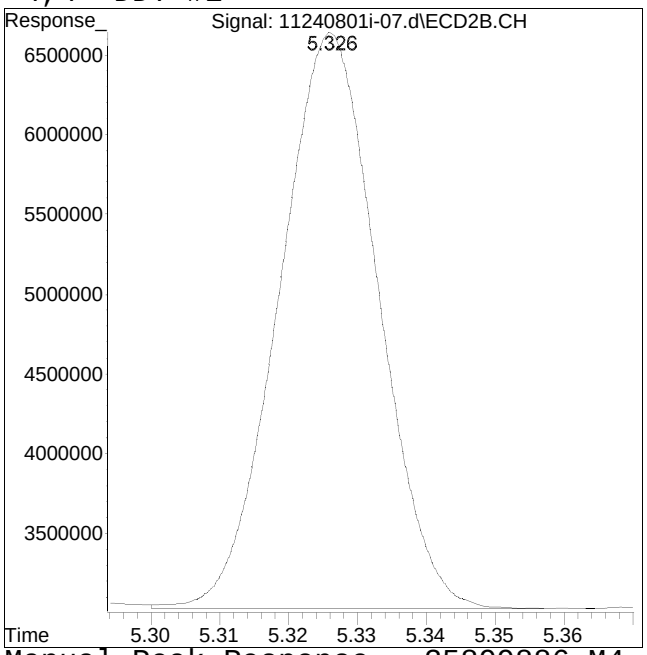
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0 Quant Date : 8/2/2024 10:53 am

Compound #59: 4,4'-DDT #2





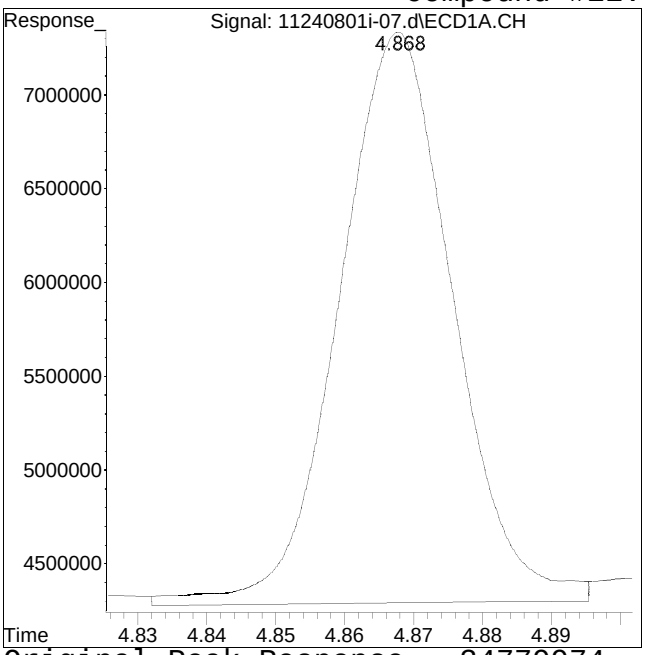
Original Peak Response = 36806949 Manual Peak Response = 35899886 M4
M4 = Poor automated baseline construction.

Manual Integration Report

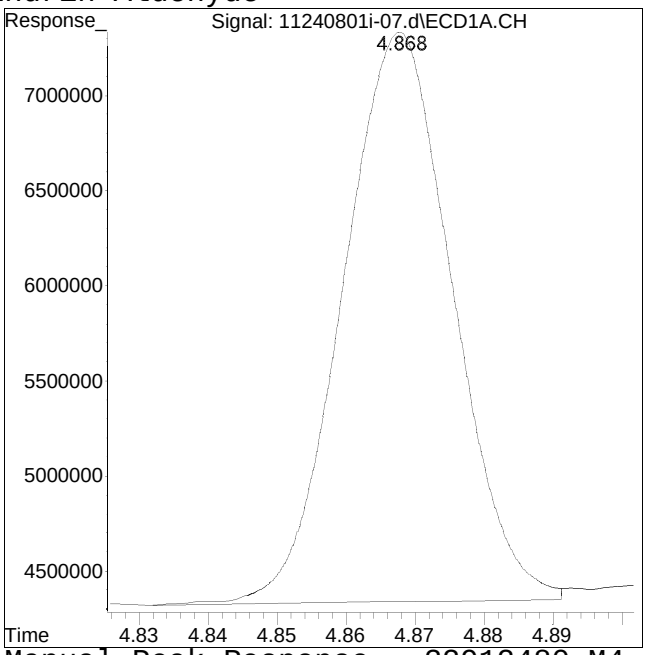
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #22: Endrin Aldehyde



Original Peak Response = 34779974



Manual Peak Response = 32912480 M4

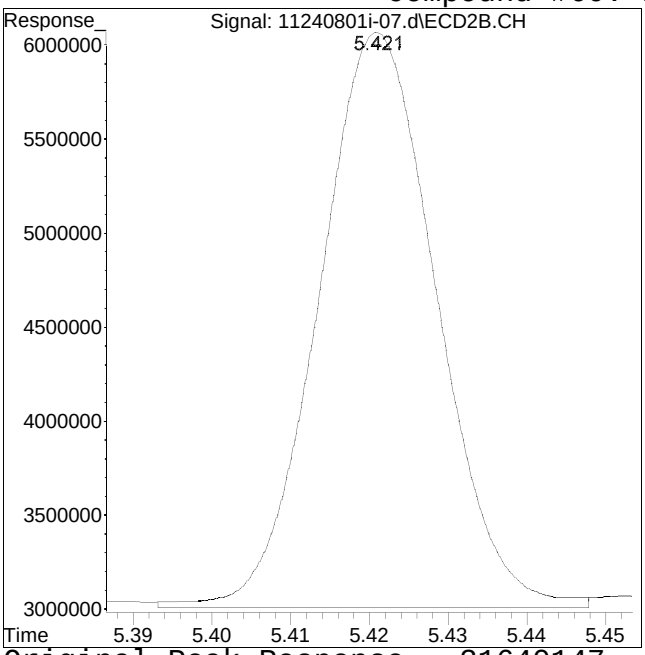
M4 = Poor automated baseline construction.

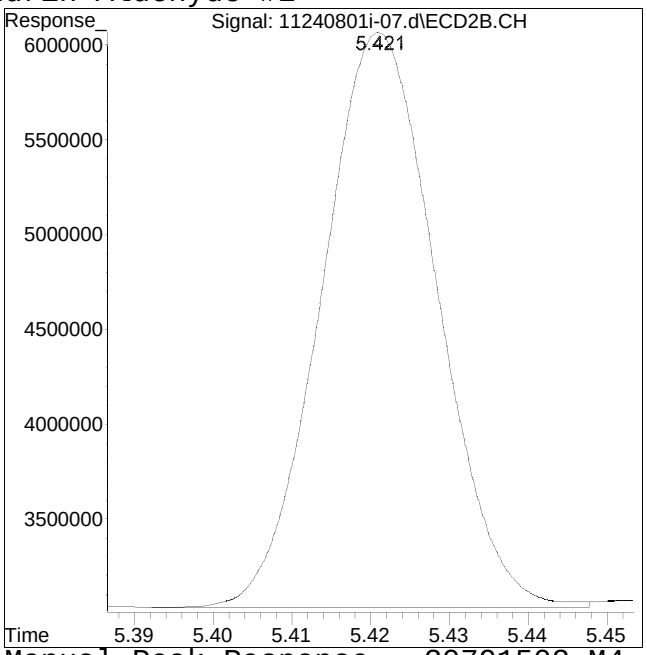
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #60: Endrin Aldehyde #2





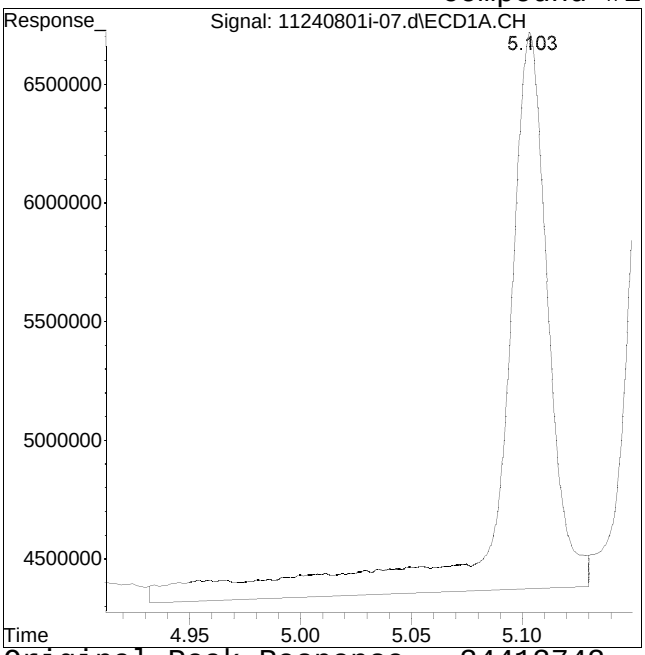
Original Peak Response = 31640147 Manual Peak Response = 30791502 M4
M4 = Poor automated baseline construction.

Manual Integration Report

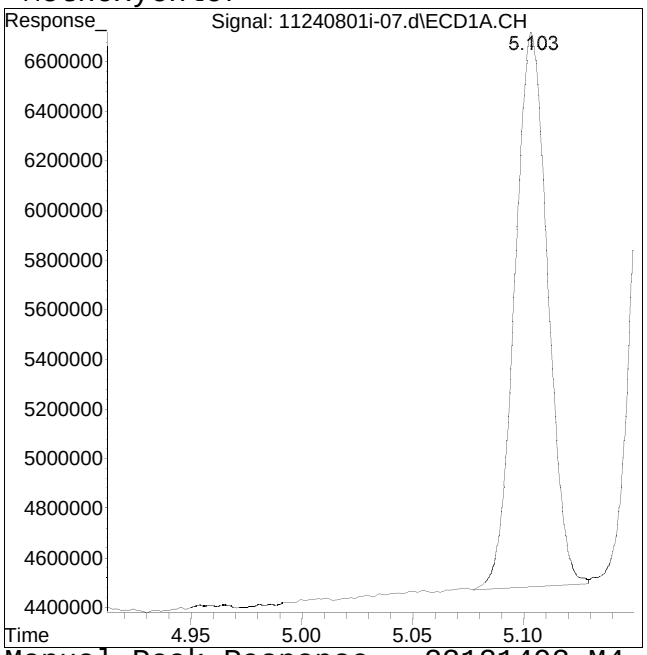
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #23: Methoxychlor



Original Peak Response = 34413742



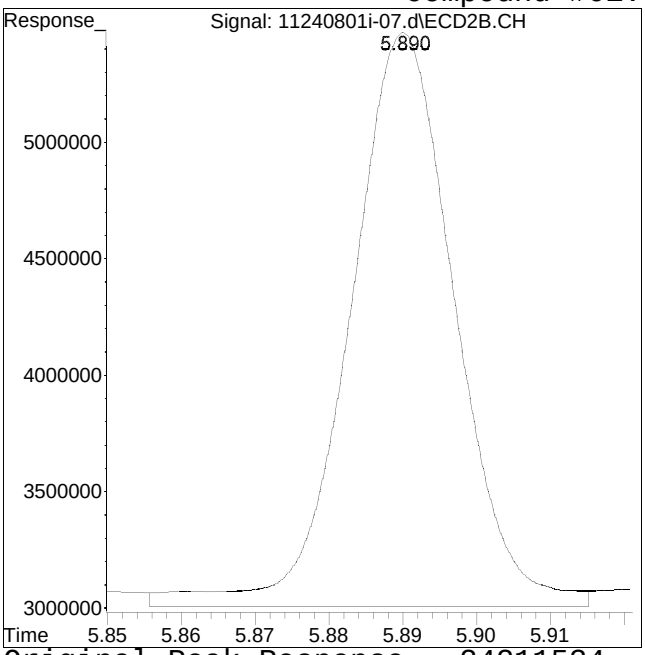
Manual Peak Response = 23121492 M4

M4 = Poor automated baseline construction.

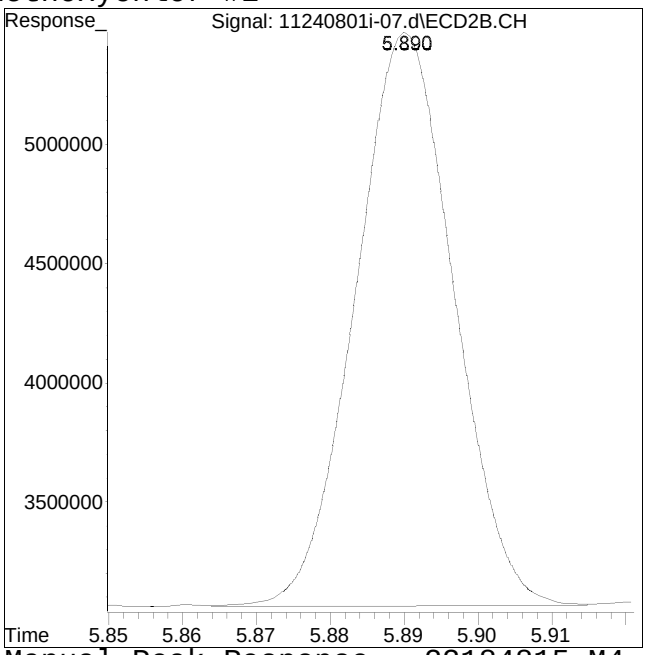
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #61: Methoxychlor #2



Original Peak Response = 24211534



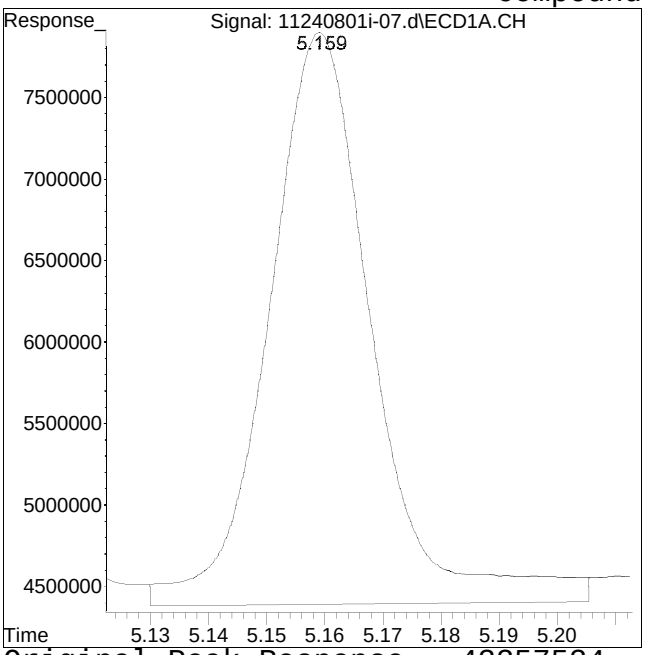
Manual Peak Response = 22184815 M4
M4 = Poor automated baseline construction.

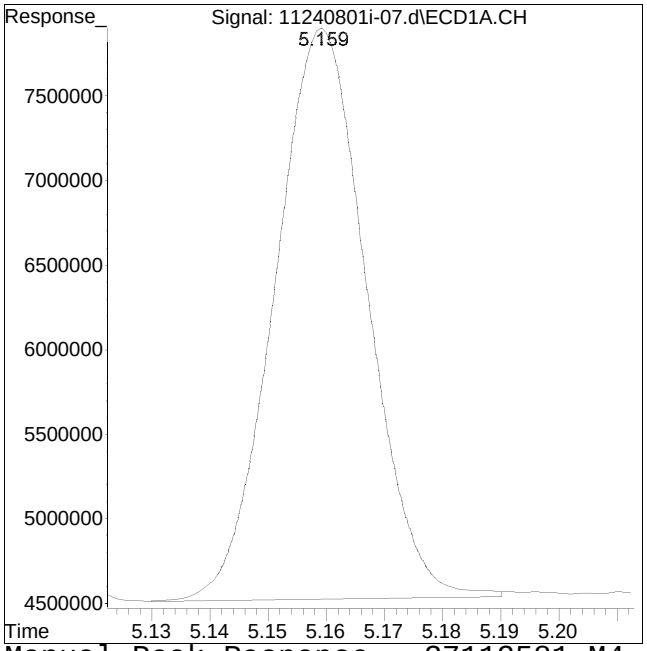
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #24: Mirex





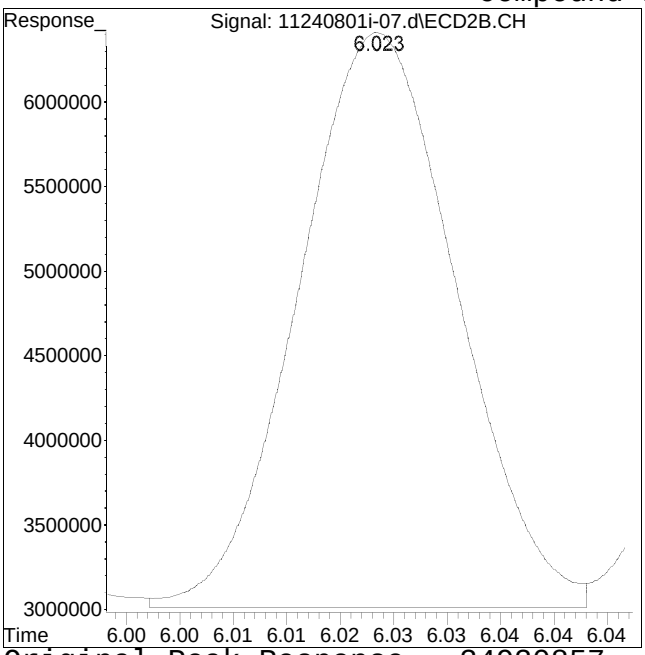
Original Peak Response = 43357534 Manual Peak Response = 37112581 M4
M4 = Poor automated baseline construction.

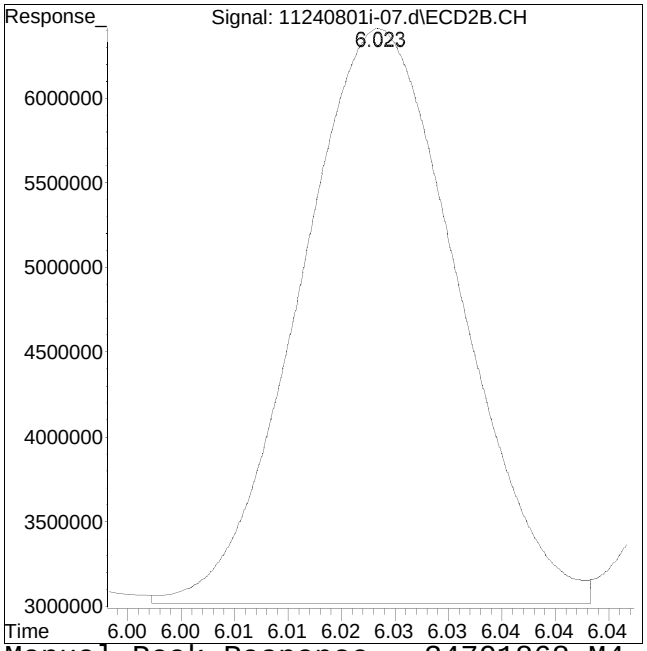
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #62: Mirex #2



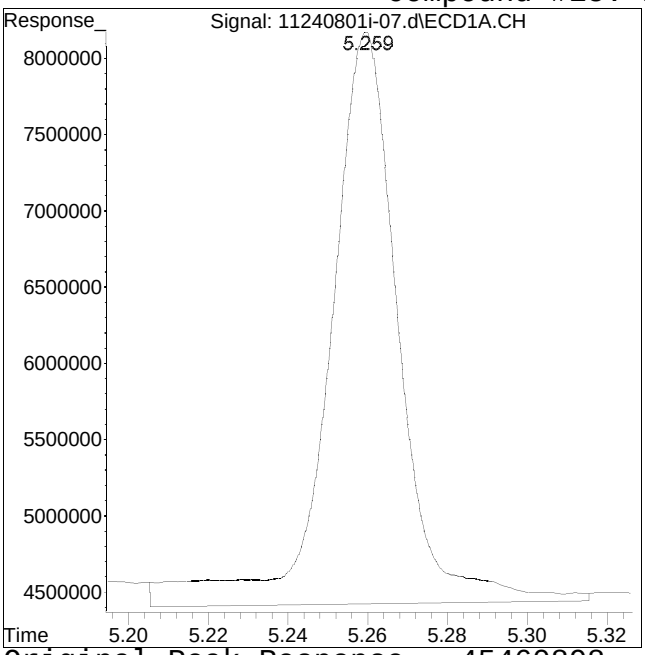


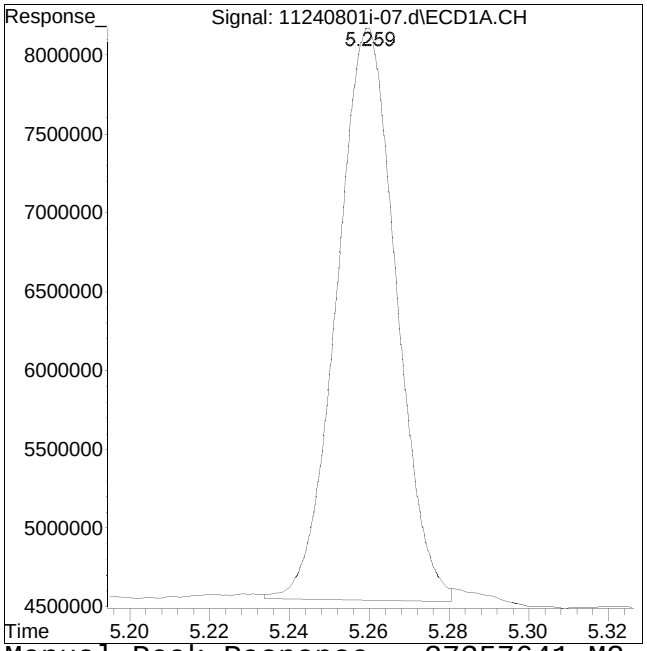
Original Peak Response = 34930857 Manual Peak Response = 34701868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #25: Endosulfan Sulfate



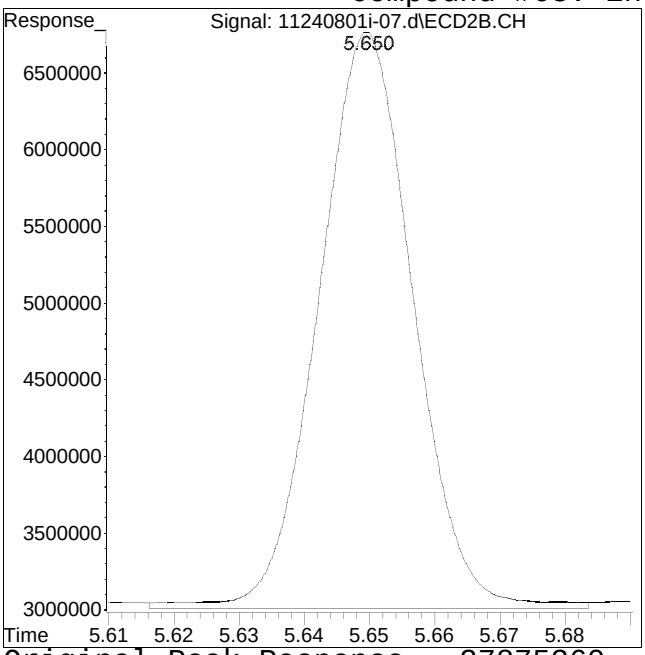


Original Peak Response = 45460898 Manual Peak Response = 37357641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

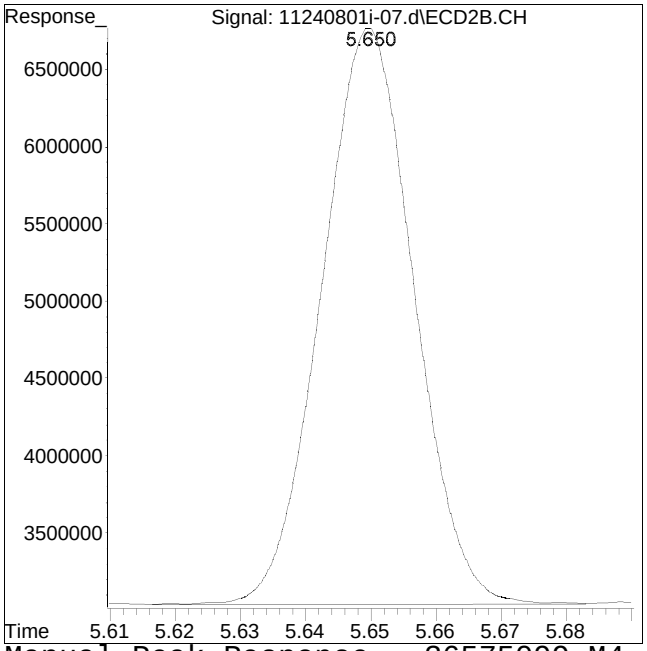
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 37875360



Manual Peak Response = 36575099 M4

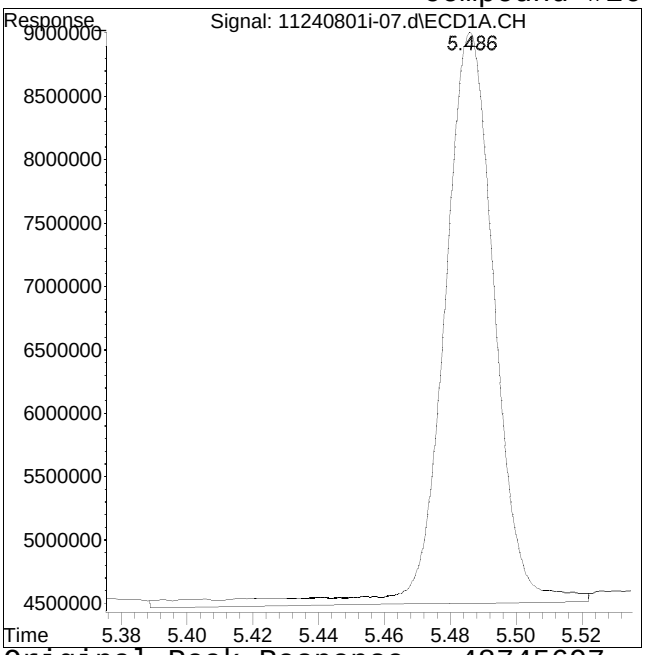
M4 = Poor automated baseline construction.

Manual Integration Report

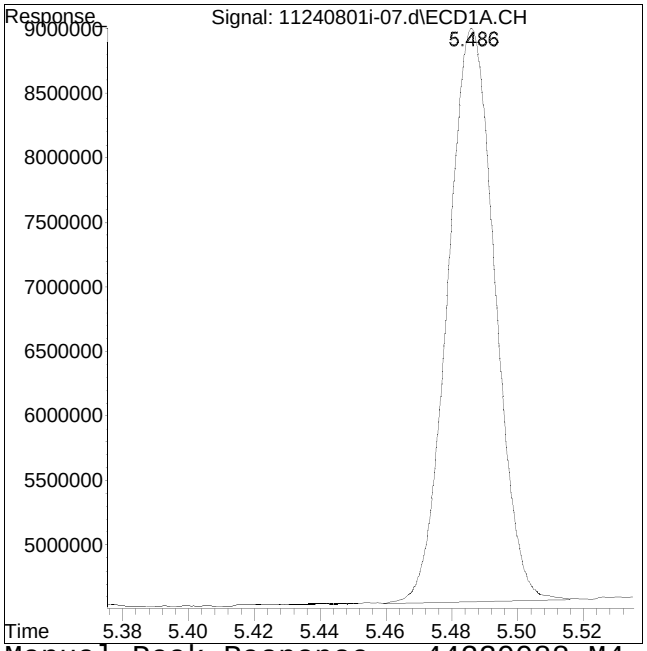
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #26: Endrin Ketone



Original Peak Response = 48745697



Manual Peak Response = 44230088 M4

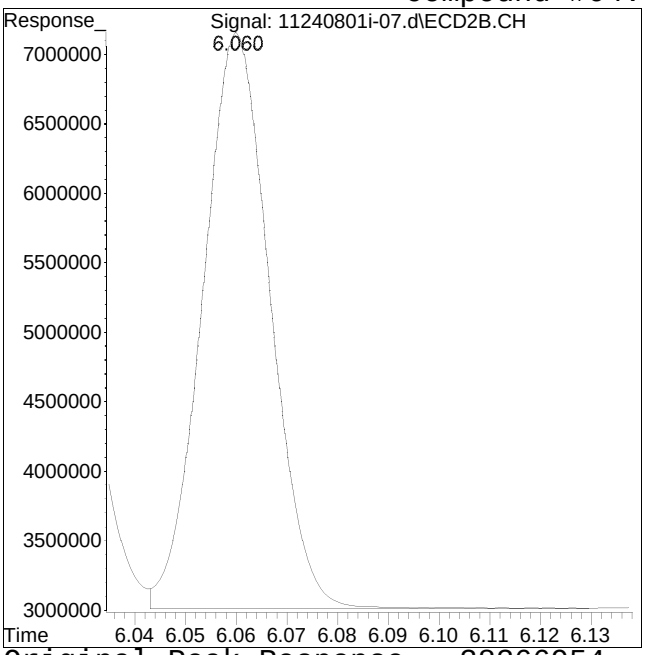
M4 = Poor automated baseline construction.

Manual Integration Report

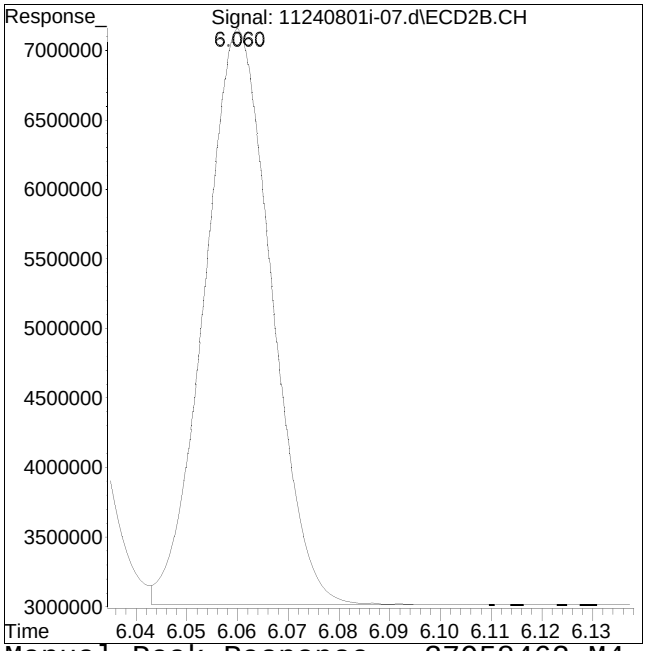
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #64: Endrin Ketone #2



Original Peak Response = 38366954



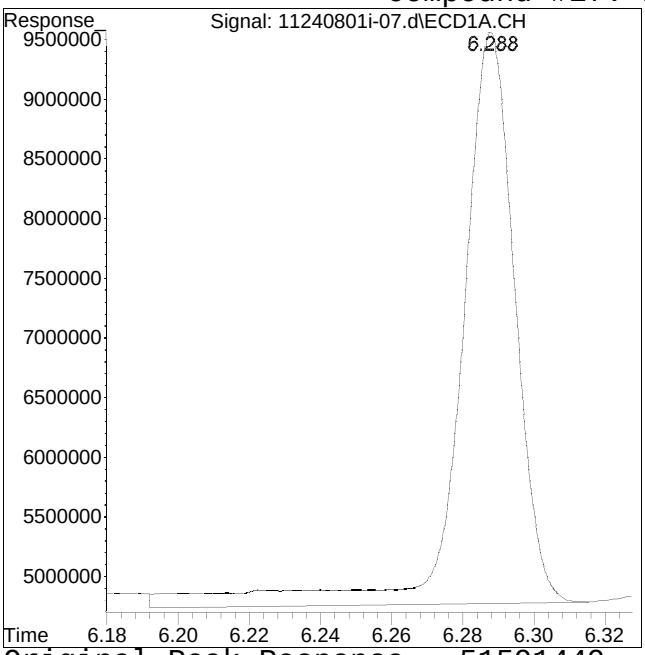
Manual Peak Response = 37958462 M4

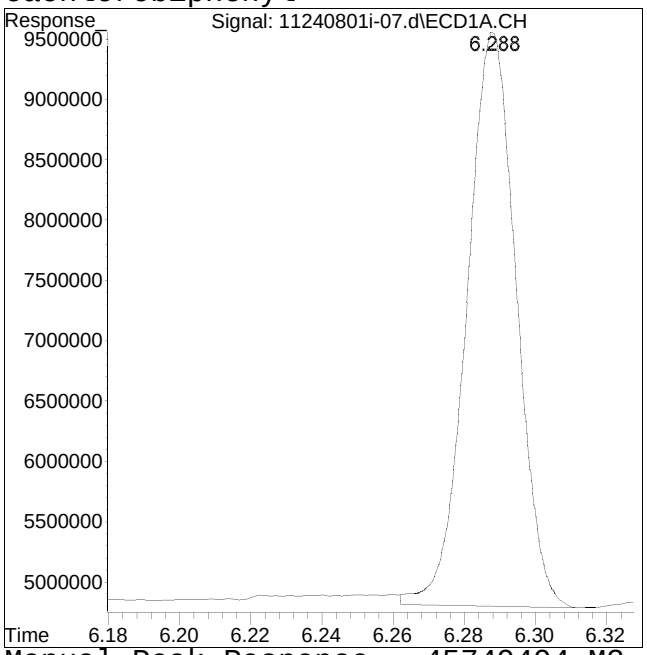
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #27: Decachlorobiphenyl



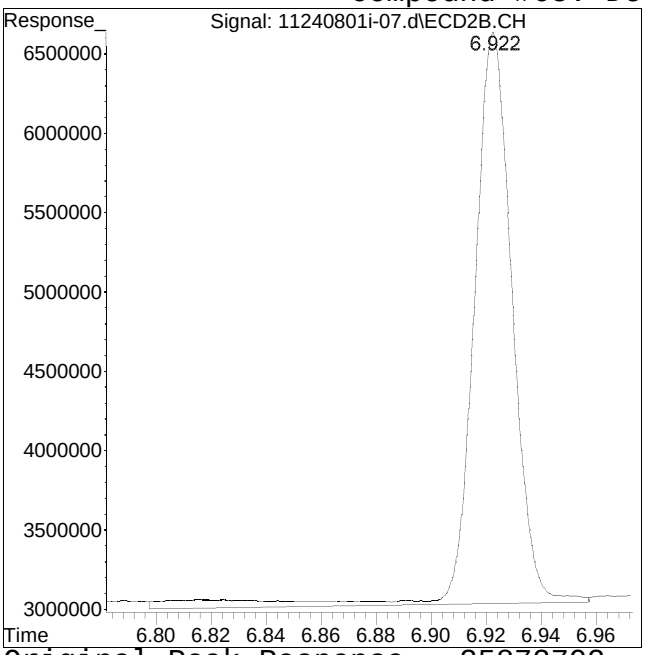


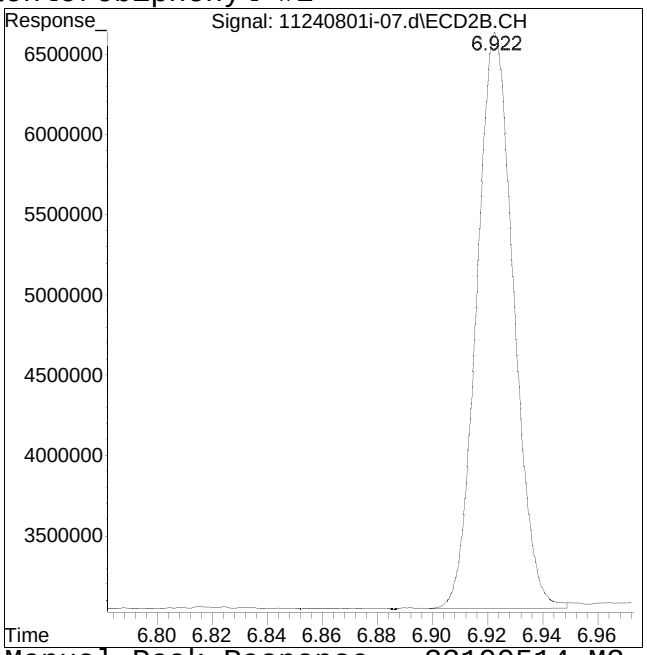
Original Peak Response = 51591449 Manual Peak Response = 45749494 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 35872792 Manual Peak Response = 33190514 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	230.2E6	183.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	94692243	79326112	10.009M3	10.112M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.02%#	20.22%#
27) s	Decachlorobi	6.288	6.926	105.6E6	76218538	11.126M4	11.124M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.25%#	22.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	128.7E6	87741303	10.612M3	10.546M4
4) t	alpha-BHC	1.963	2.271	131.5E6	113.4E6	8.927M4	8.964M4
5) t	gamma-BHC (l	2.165	2.556	124.7E6	105.7E6	9.208M4	9.281M4
6) t	beta-BHC	2.221	2.622	57666588	50690449	10.408M4	10.925M4
7) t	delta-BHC	2.349	2.889	123.1E6	105.8E6	8.948M4	9.082M4
8) t	Heptachlor	2.513	2.952	121.4E6	113.2E6	9.955M3	10.142M4
9) t	Aldrin	2.756	3.271	111.0E6	100.2E6	9.353M3	9.490
10) t	Alachlor	2.876	3.153	21898451	17688763	11.052M3	13.104M4
11) t	Chlorpyrifos	2.968	3.506	56598911	64282619	12.097M4	12.517M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	109.2E6	100.6E6	10.102M3	10.320M4
13)	t	gamma-Chlord	3.424	4.104	96157290	90465298	9.543M4	9.961M4
14)	t	alpha-Chlord	3.558	4.274	110.5E6	101.3E6	9.760M3	10.124M4
15)	t	4,4'-DDE	3.656	4.473	107.5E6	93263696	9.325M4	9.283M4
16)	t	Endosulfan I	3.695	4.335	102.4E6	94144855	9.968	10.358M4
17)	t	Dieldrin	3.954	4.627	102.5E6	92864186	9.418M4	9.671M3
18)	t	Endrin	4.209	4.925	105.4E6	94579708	9.682M4	9.746M4
19)	t	4,4'-DDD	4.321	5.049	82871356	75210993	9.153M4	9.330M4
20)	t	Endosulfan I	4.451	5.125	97072990	86490847	10.043	10.443M4
21)	t	4,4'-DDT	4.615	5.326	95391216	87653270	9.380M4	9.565M4
22)	t	Endrin Aldeh	4.868	5.421	80826935	71991100	9.975M3	10.462M3
23)	t	Methoxychlor	5.104	5.890	55896006	50960693	11.325M4	11.378M3
24)	t	Mirex	5.159	6.024	88807138	77737040	11.134M3	11.745
25)	t	Endosulfan S	5.259	5.650	92158727	84950349	10.221M3	10.550M4
26)	t	Endrin Keton	5.486	6.060	110.5E6	91234131	10.280M4	10.487M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

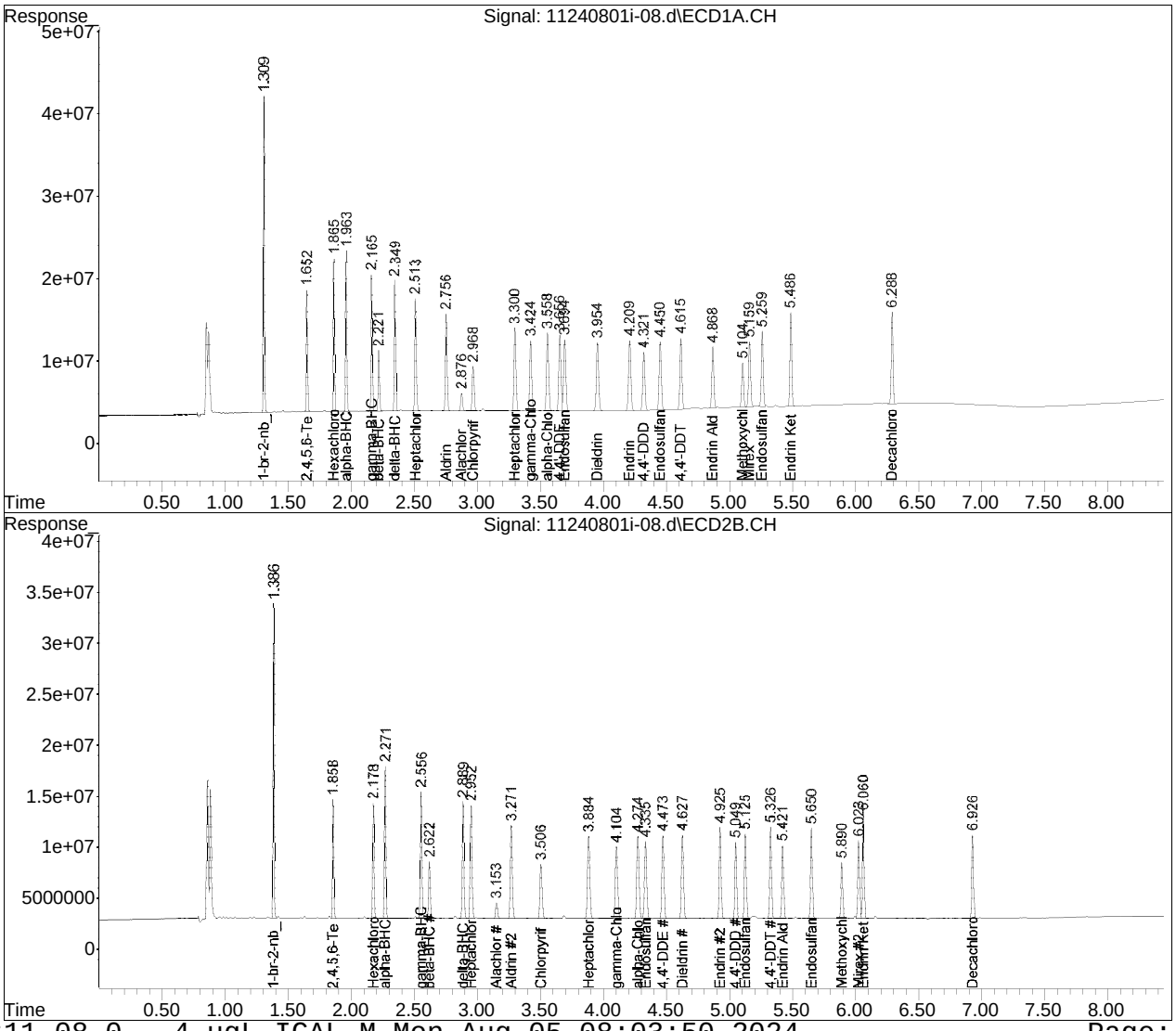
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

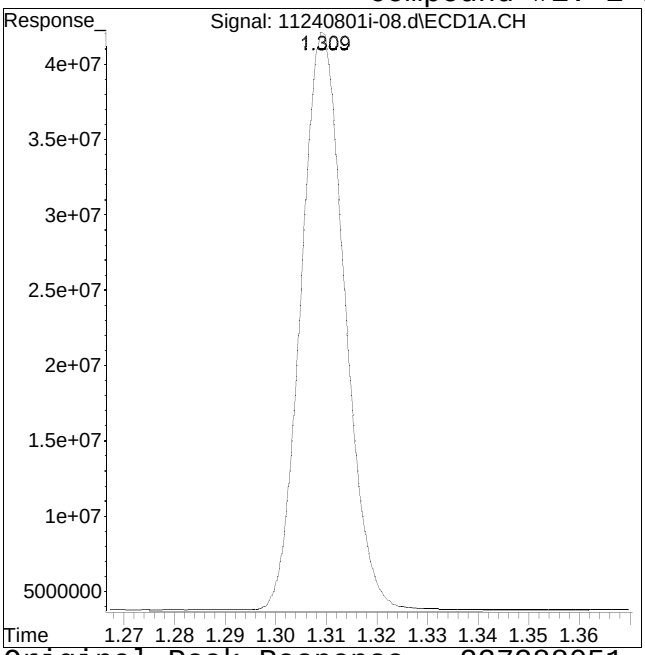


Manual Integration Report

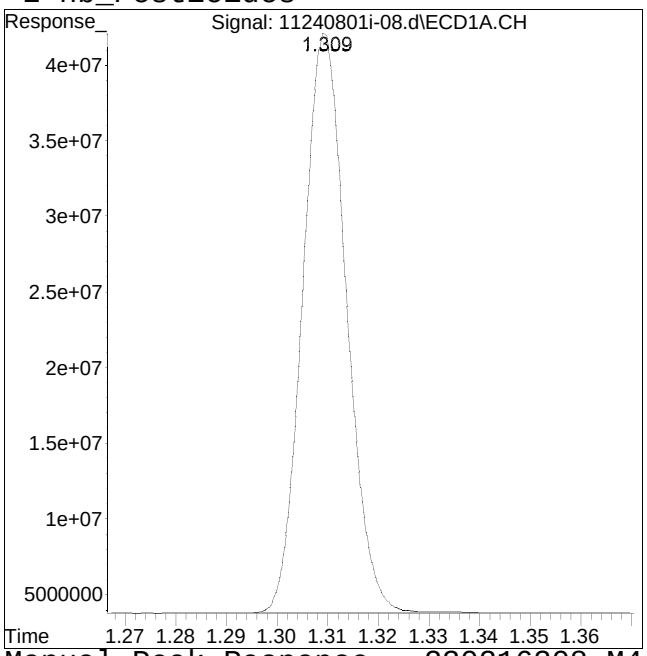
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 237388051



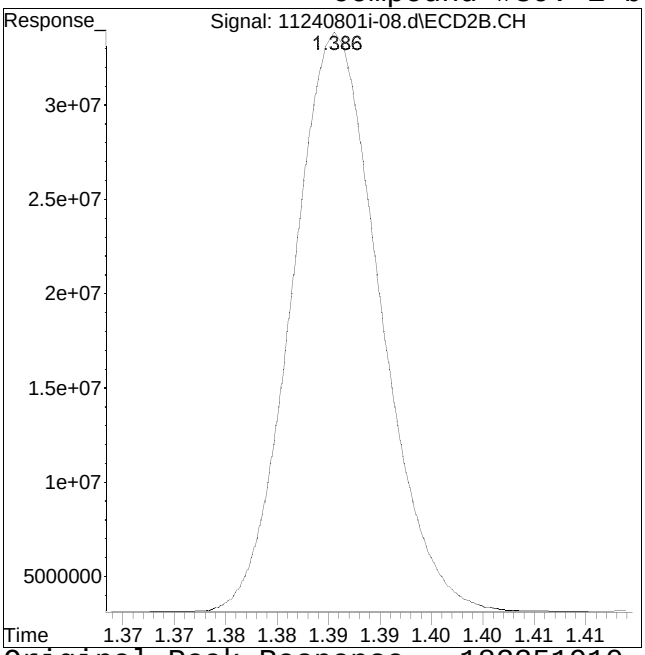
Manual Peak Response = 230216308 M4

M4 = Poor automated baseline construction.

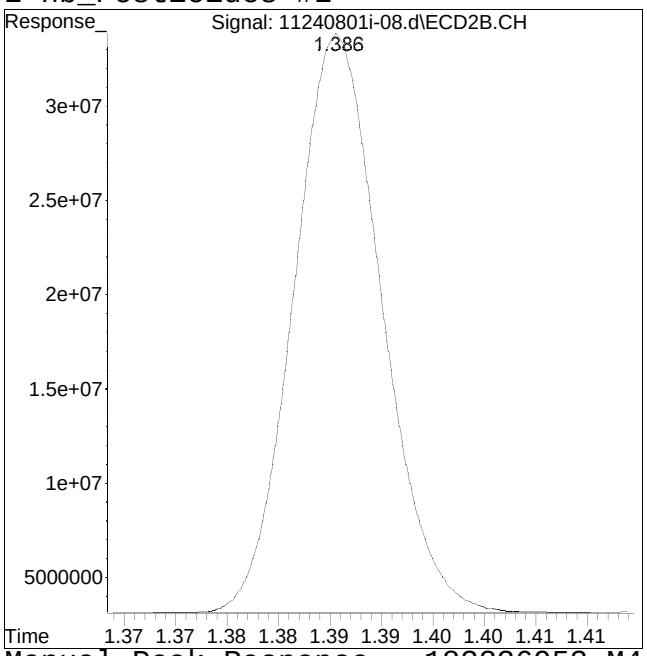
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183351910



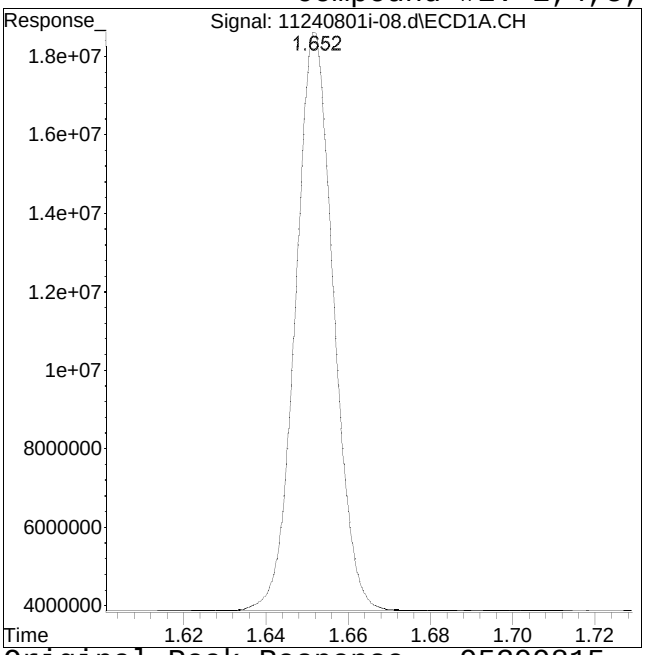
Manual Peak Response = 183236953 M4

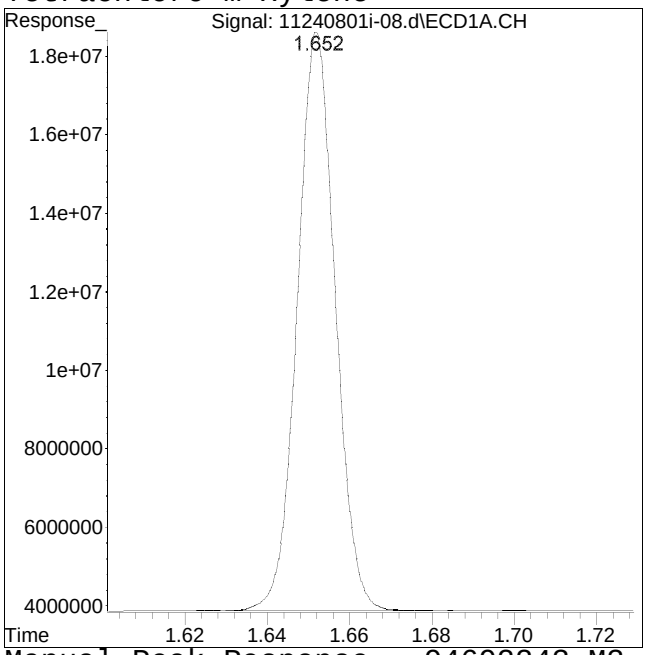
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



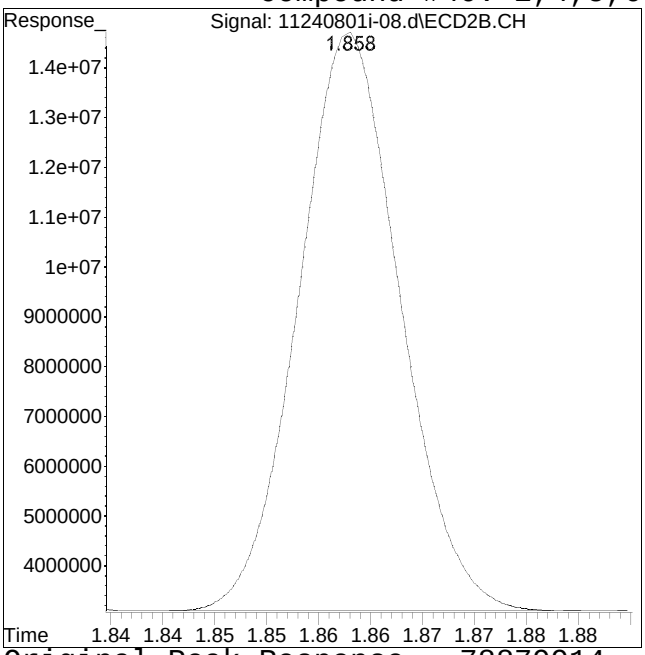


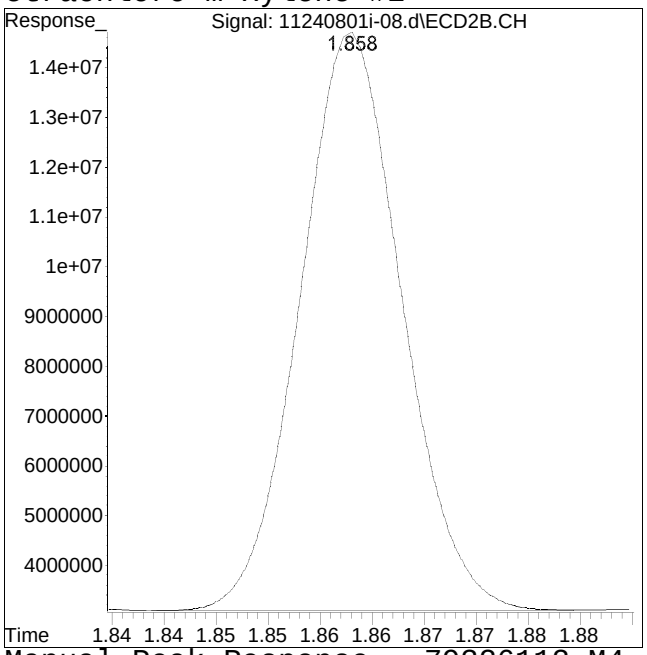
Original Peak Response = 95399815 Manual Peak Response = 94692243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



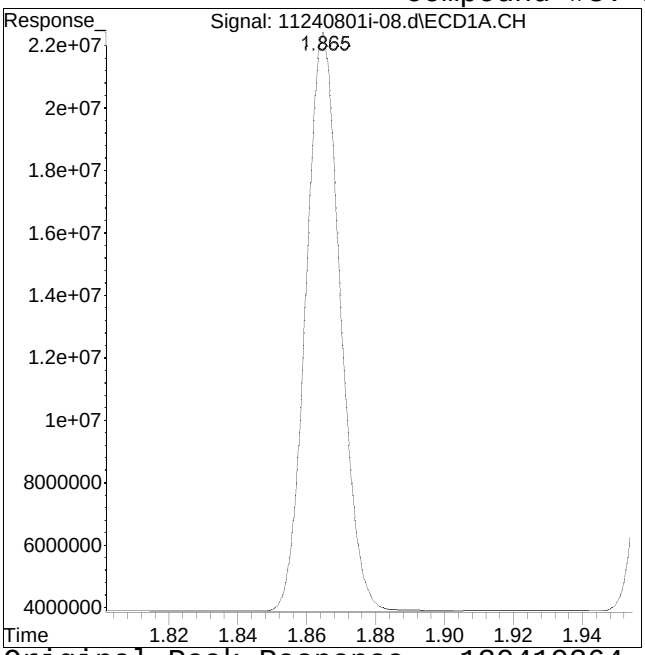


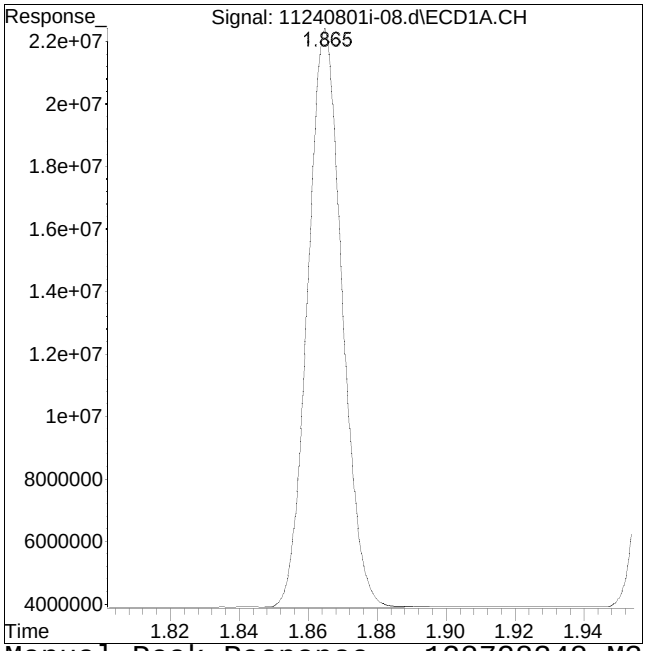
Original Peak Response = 78879914 Manual Peak Response = 79326112 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #3: Hexachlorobenzene





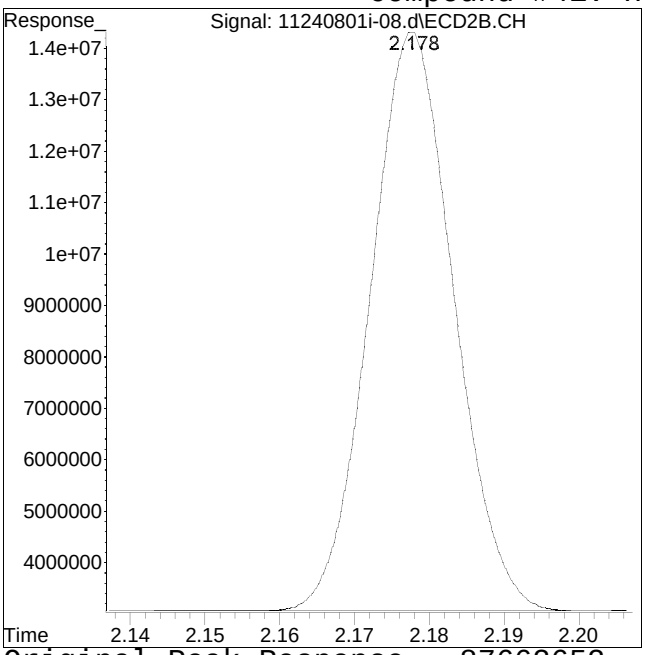
Original Peak Response = 130419364 Manual Peak Response = 128728348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

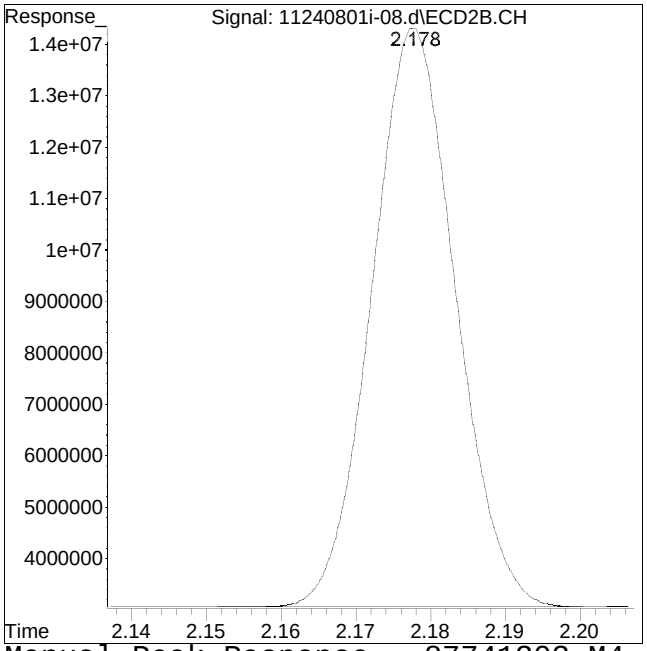
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 87662652



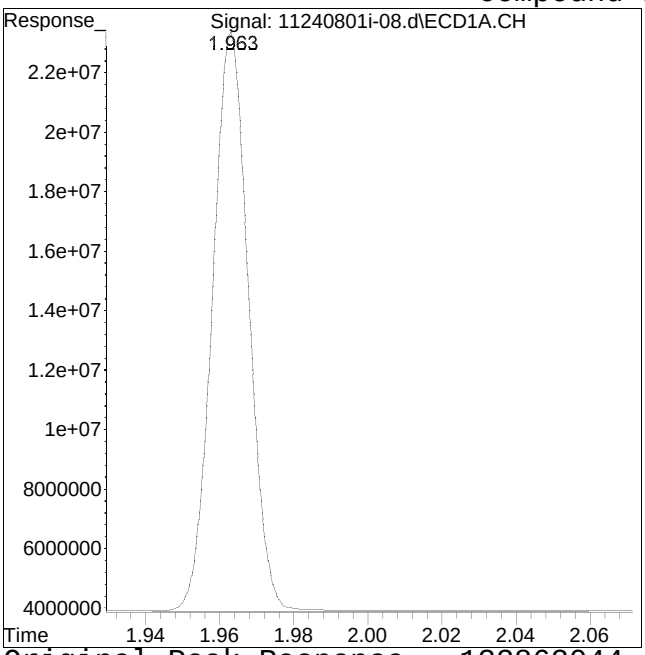
Manual Peak Response = 87741303 M4

M4 = Poor automated baseline construction.

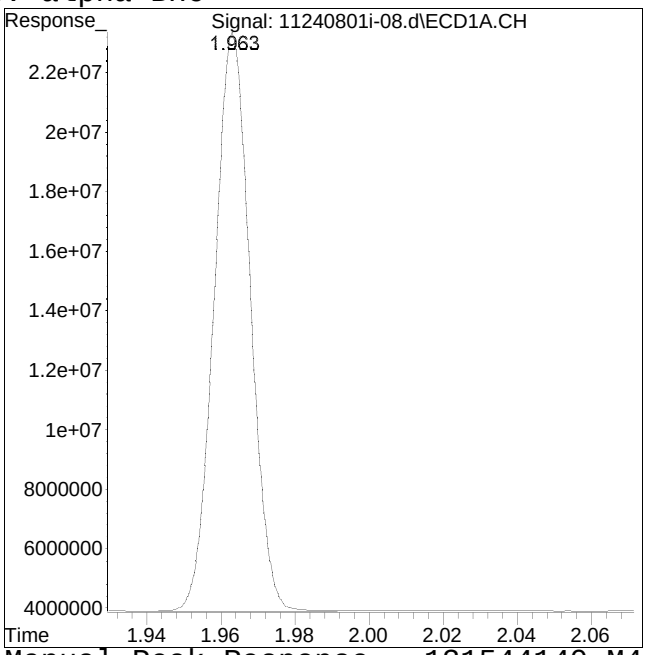
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #4: alpha-BHC



Original Peak Response = 132862044



Manual Peak Response = 131544140 M4

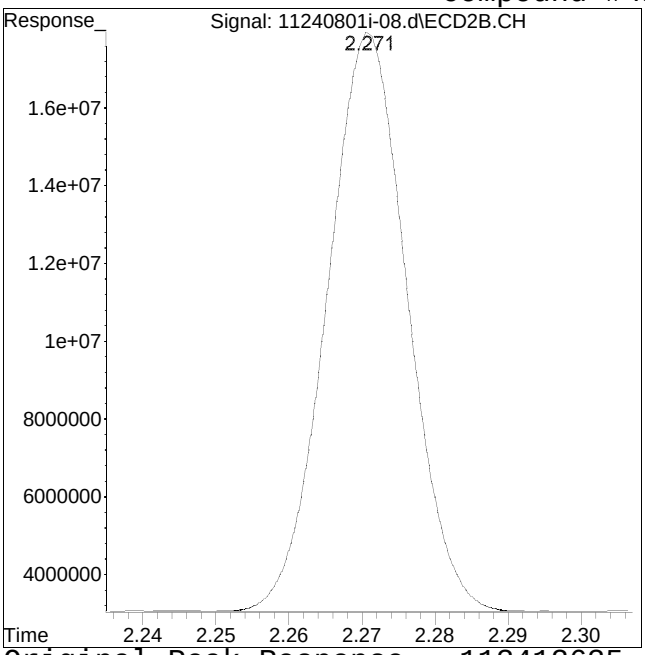
M4 = Poor automated baseline construction.

Manual Integration Report

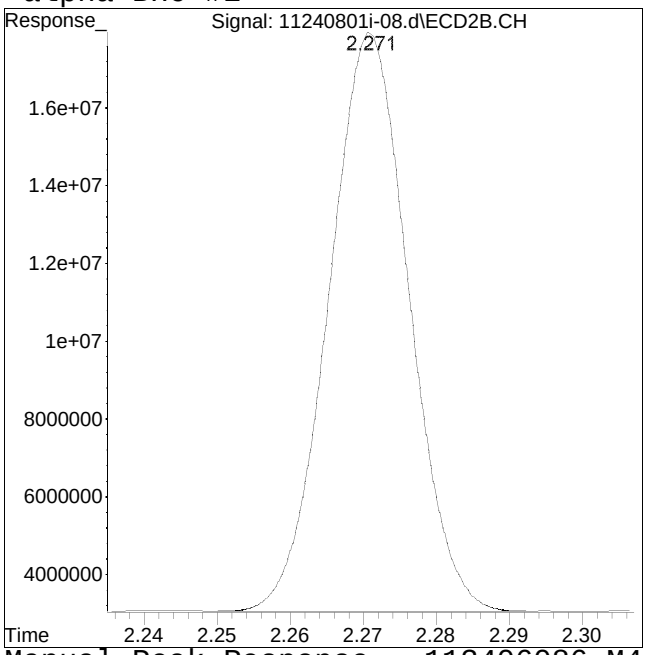
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #42: alpha-BHC #2



Original Peak Response = 113412635



Manual Peak Response = 113406086 M4

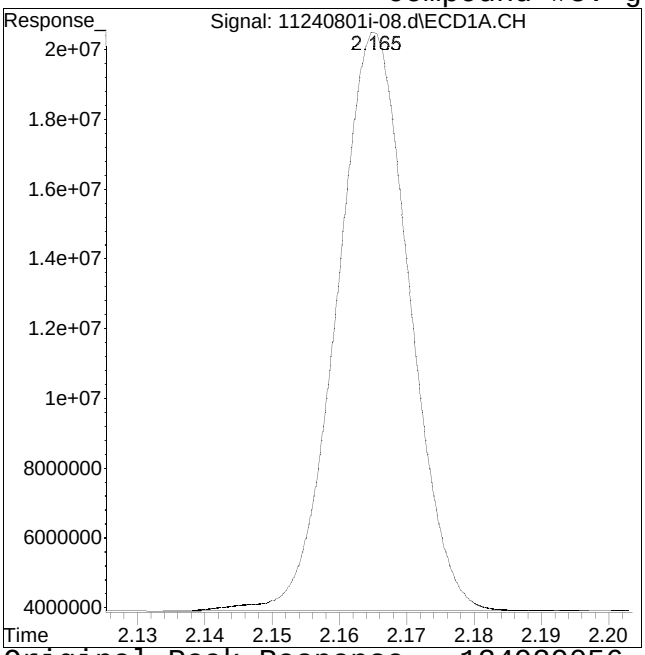
M4 = Poor automated baseline construction.

Manual Integration Report

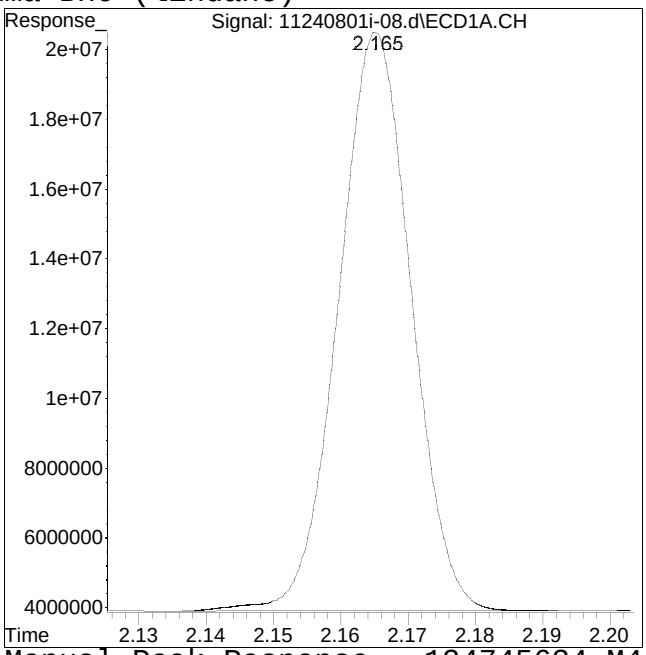
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 124929056



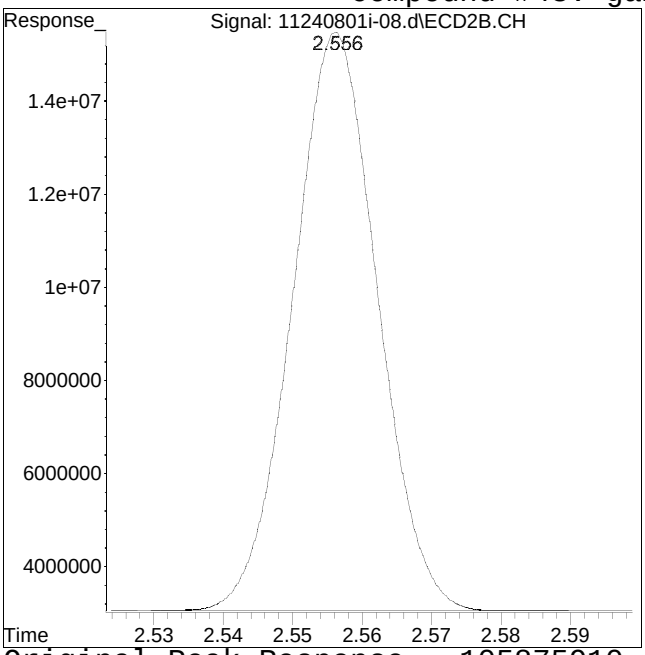
Manual Peak Response = 124745634 M4

M4 = Poor automated baseline construction.

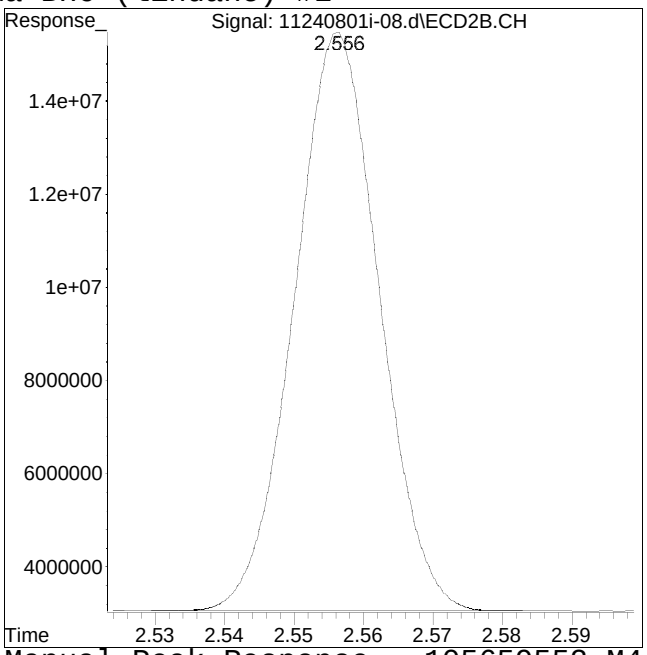
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 105875910



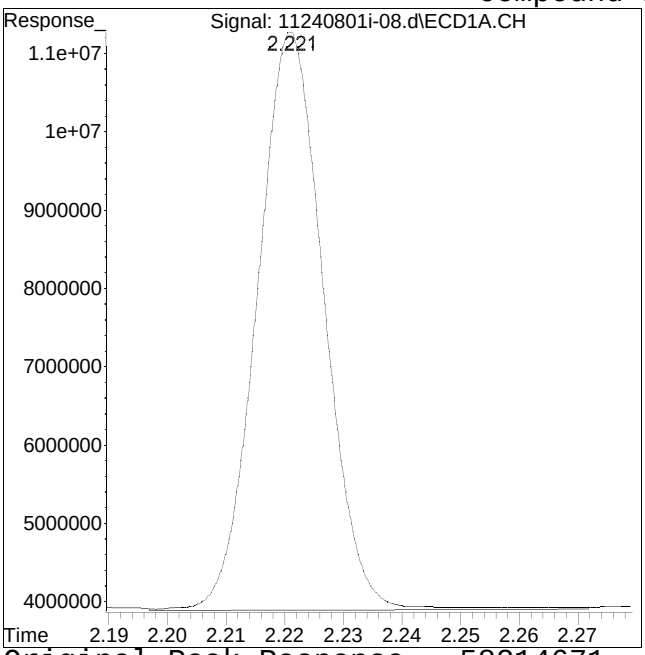
Manual Peak Response = 105659552 M4

M4 = Poor automated baseline construction.

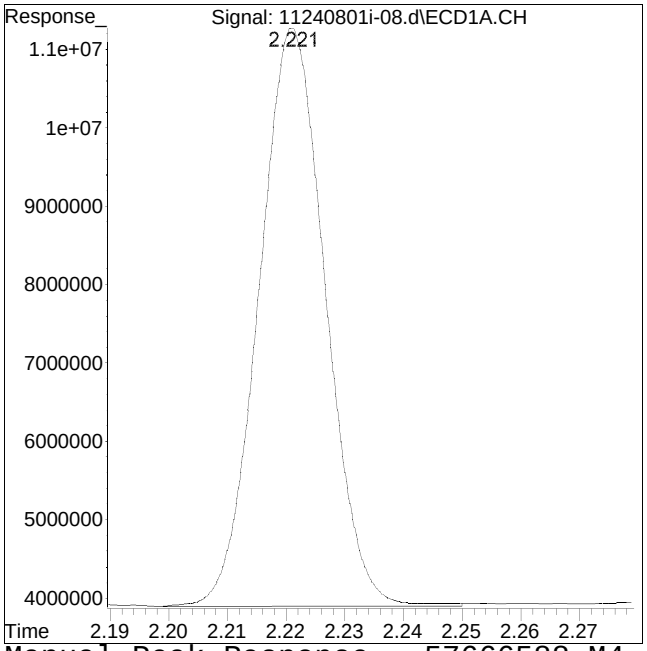
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #6: beta-BHC



Original Peak Response = 58214671



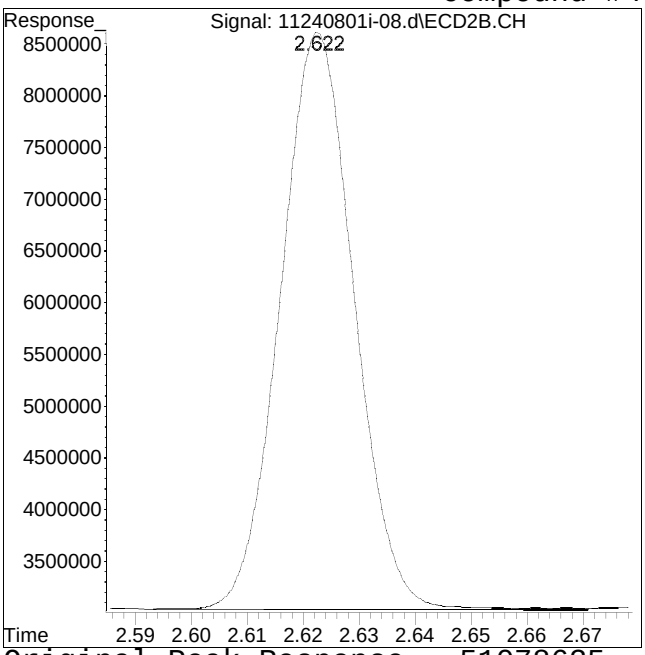
Manual Peak Response = 57666588 M4

M4 = Poor automated baseline construction.

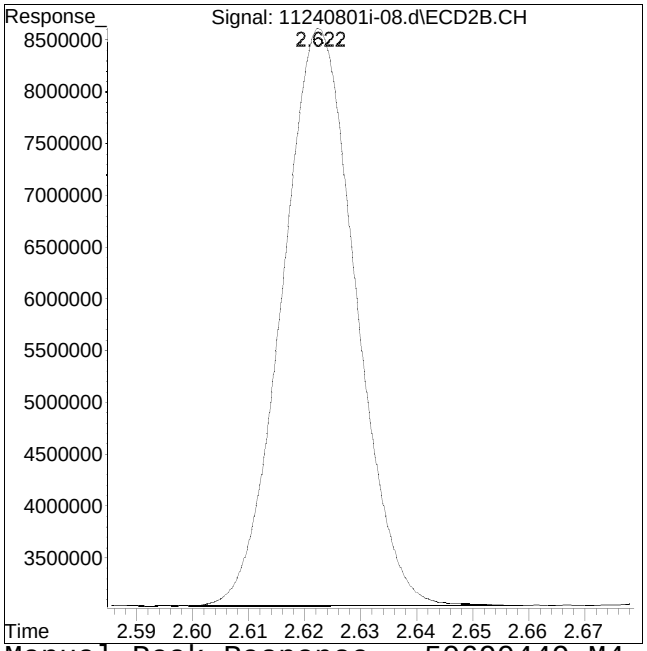
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #44: beta-BHC #2



Original Peak Response = 51078635



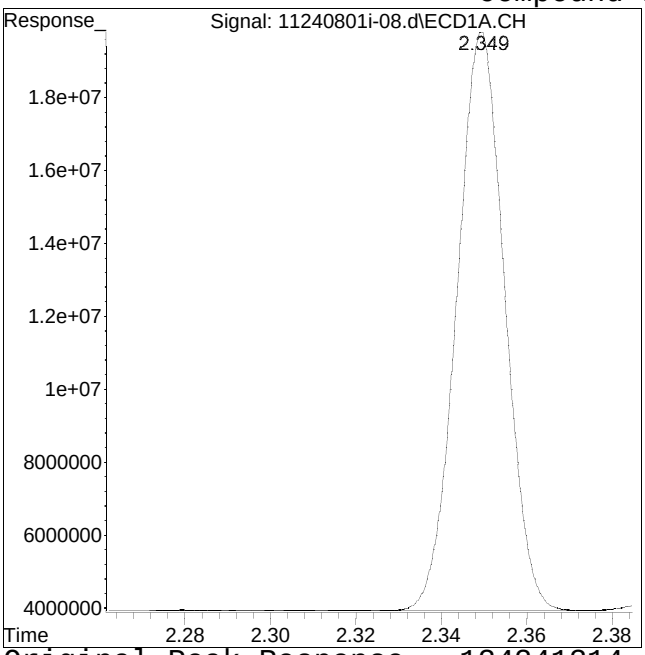
Manual Peak Response = 50690449 M4

M4 = Poor automated baseline construction.

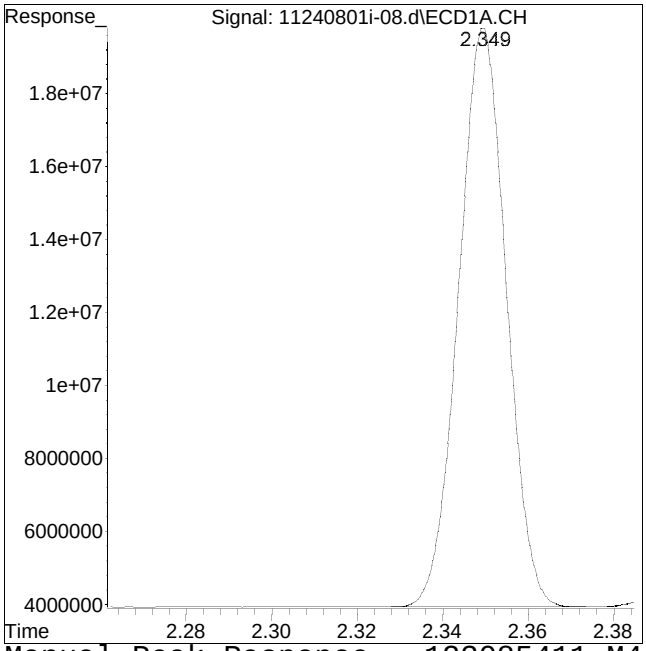
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #7: delta-BHC



Original Peak Response = 124241314

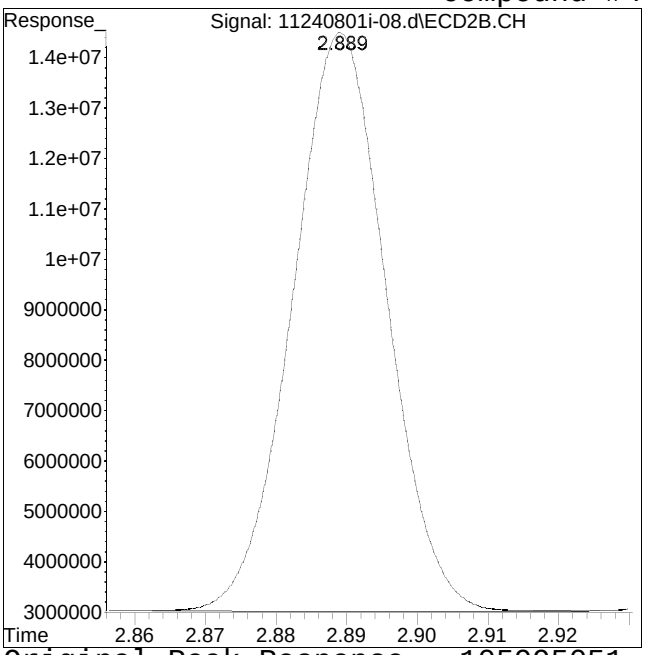


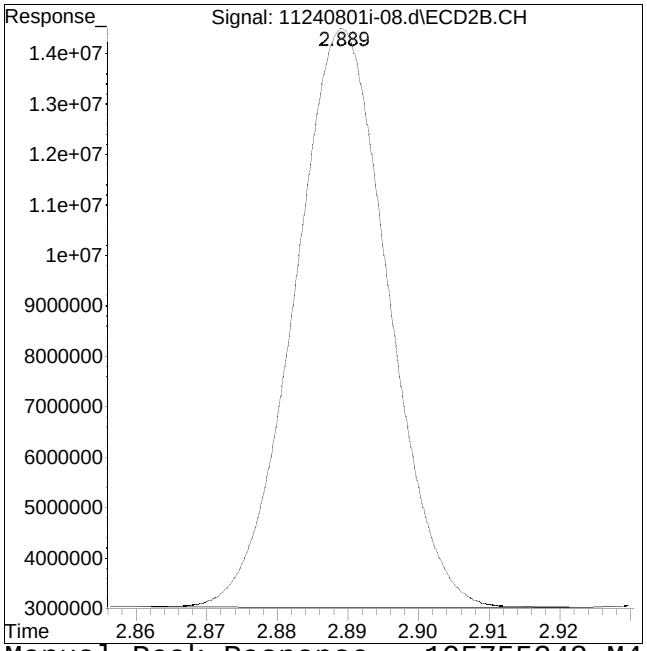
Manual Peak Response = 123085411 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #45: delta-BHC #2





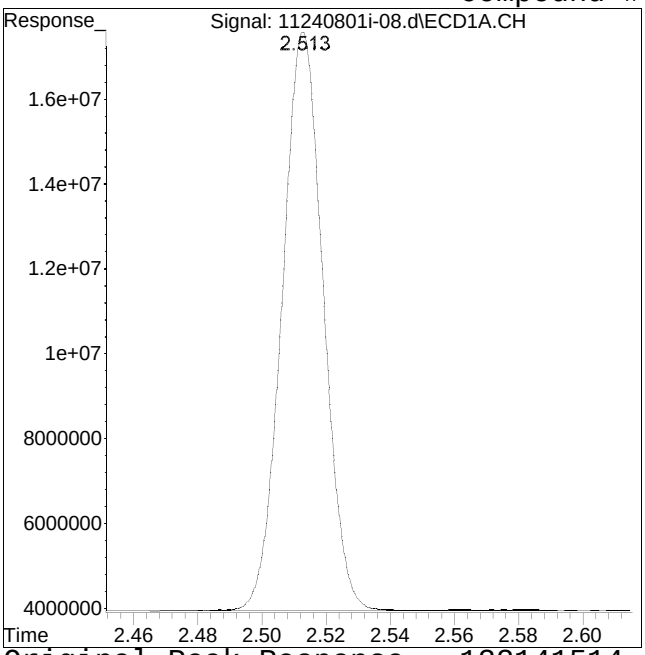
Original Peak Response = 105995051 Manual Peak Response = 105755248 M4
M4 = Poor automated baseline construction.

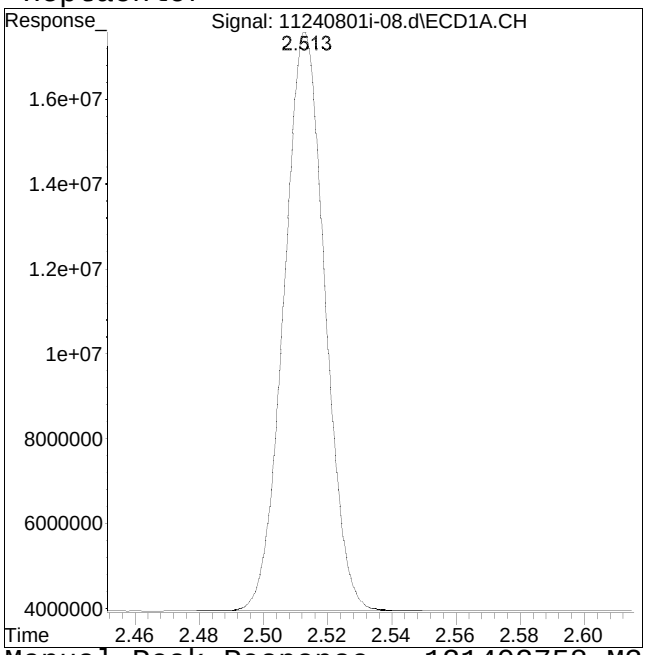
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #8: Heptachlor





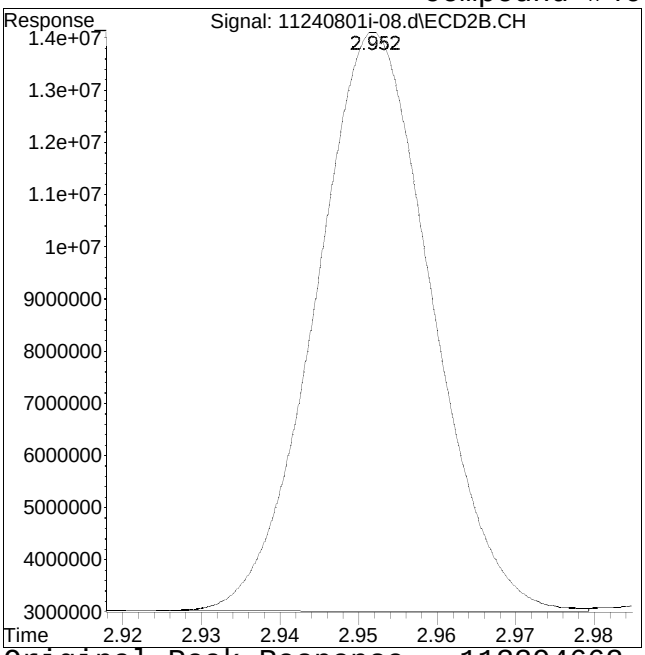
Original Peak Response = 122141514 Manual Peak Response = 121402758 M3

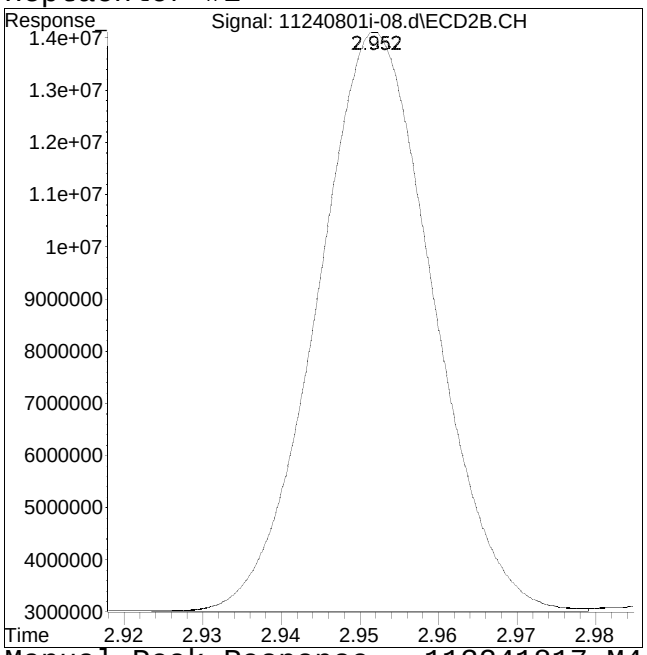
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #46: Heptachlor #2





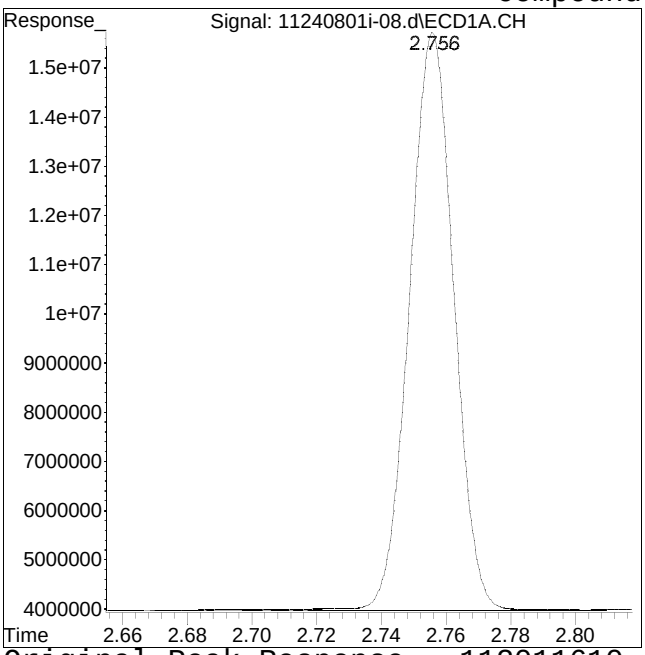
Original Peak Response = 113394662 Manual Peak Response = 113241817 M4
M4 = Poor automated baseline construction.

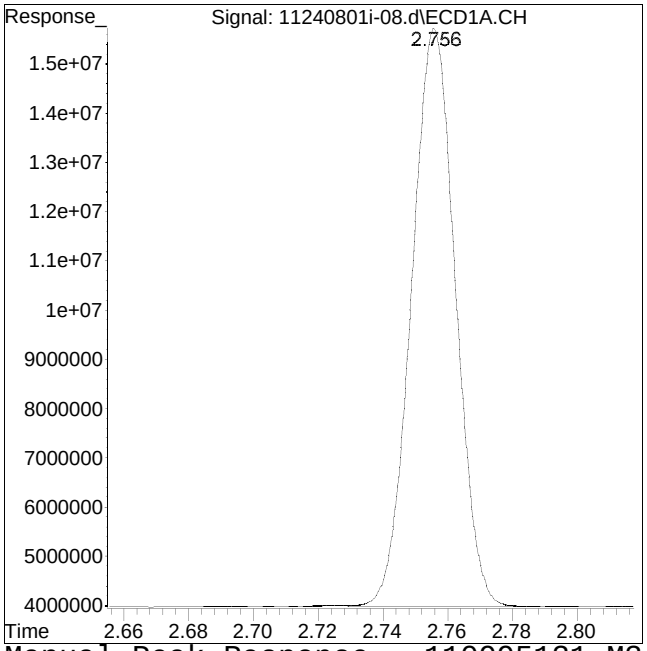
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #9: Aldrin





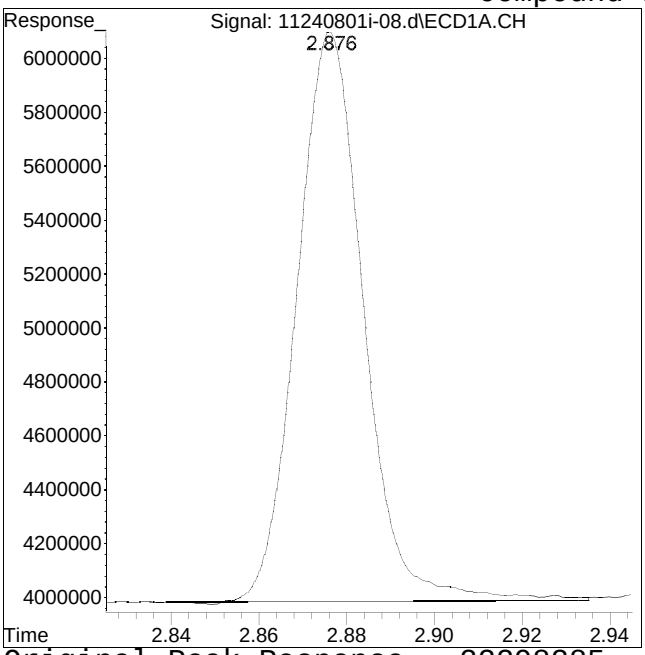
Original Peak Response = 112011610 Manual Peak Response = 110995131 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

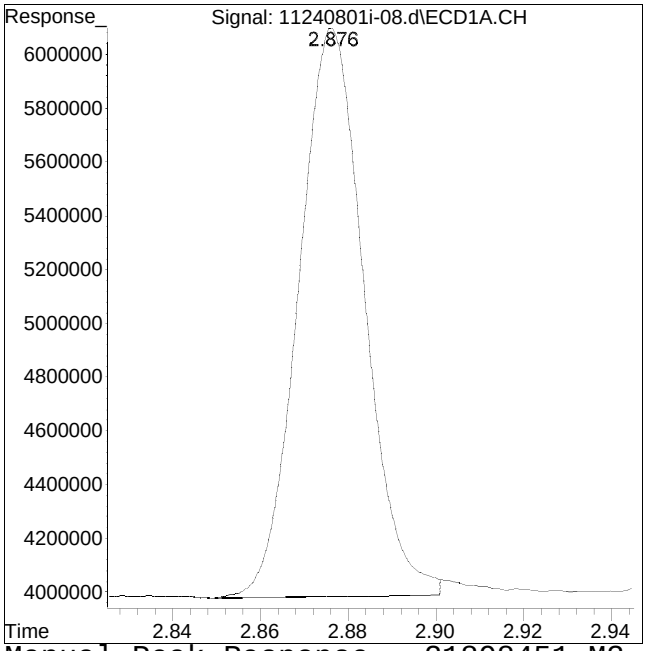
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0 Quant Date : 8/2/2024 10:46 am

Compound #10: Alachlor



Original Peak Response = 22298285



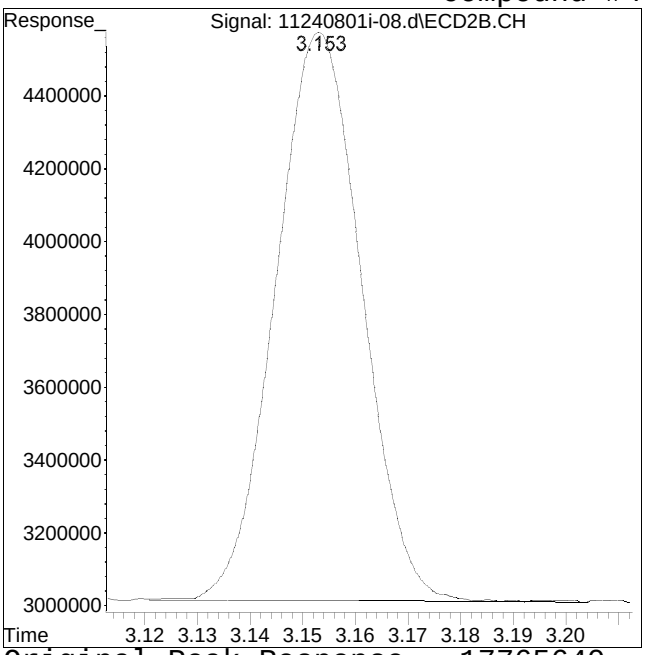
Manual Peak Response = 21898451 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

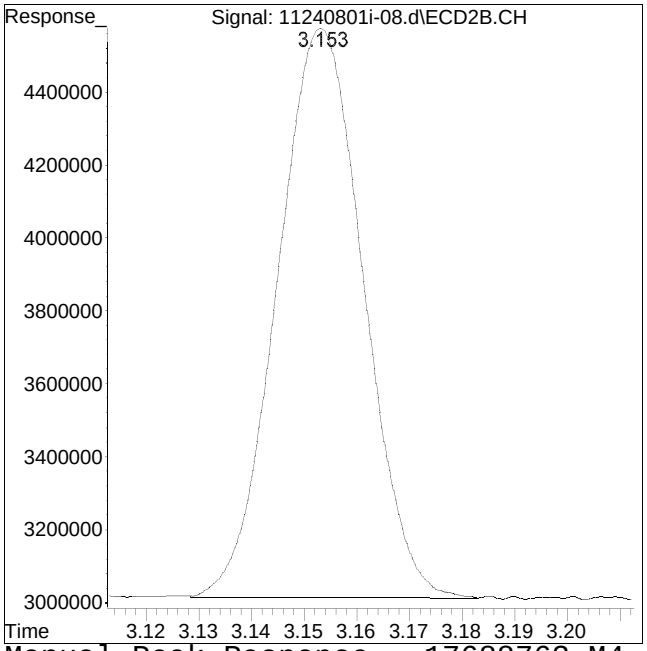
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #48: Alachlor #2



Original Peak Response = 17765640



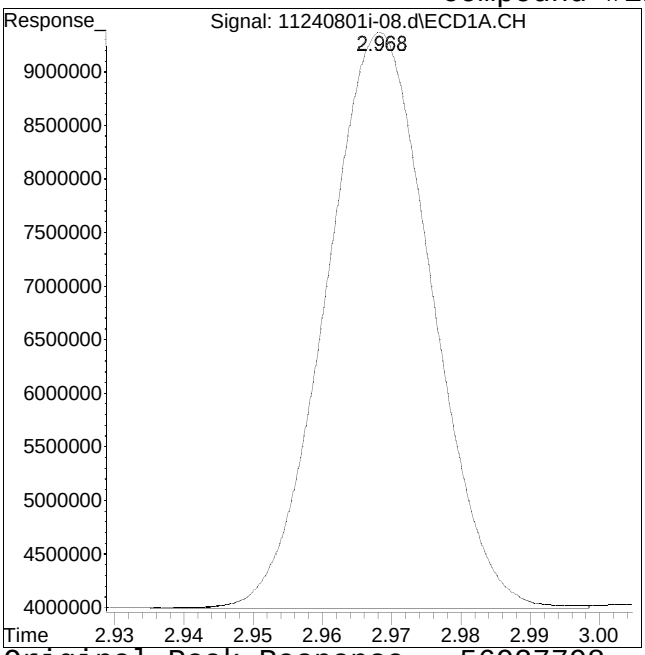
Manual Peak Response = 17688763 M4

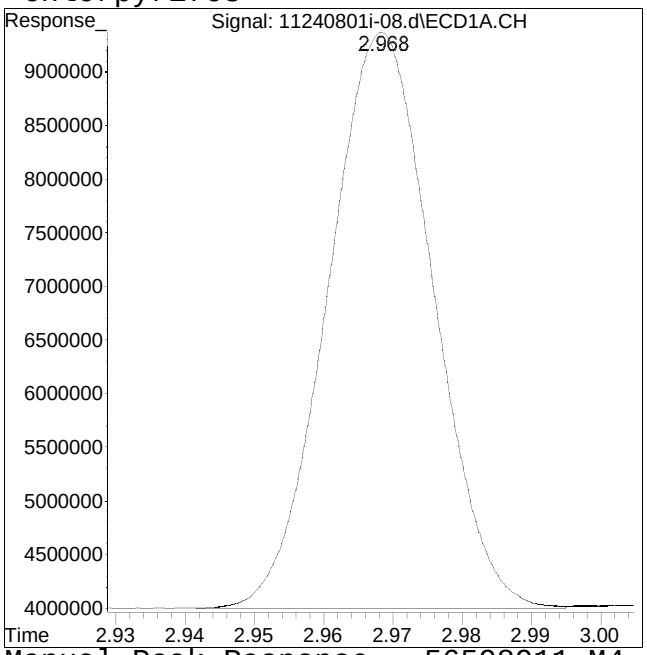
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #11: Chlorpyrifos



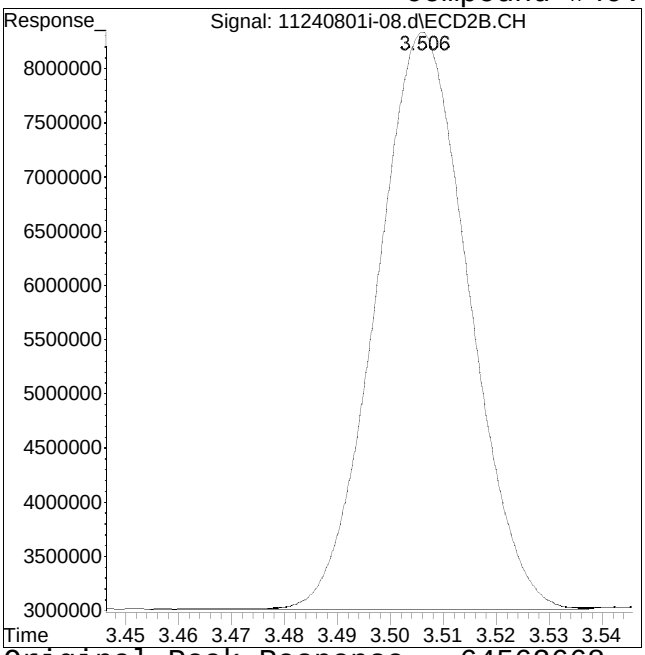


Original Peak Response = 56927798 Manual Peak Response = 56598911 M4
M4 = Poor automated baseline construction.

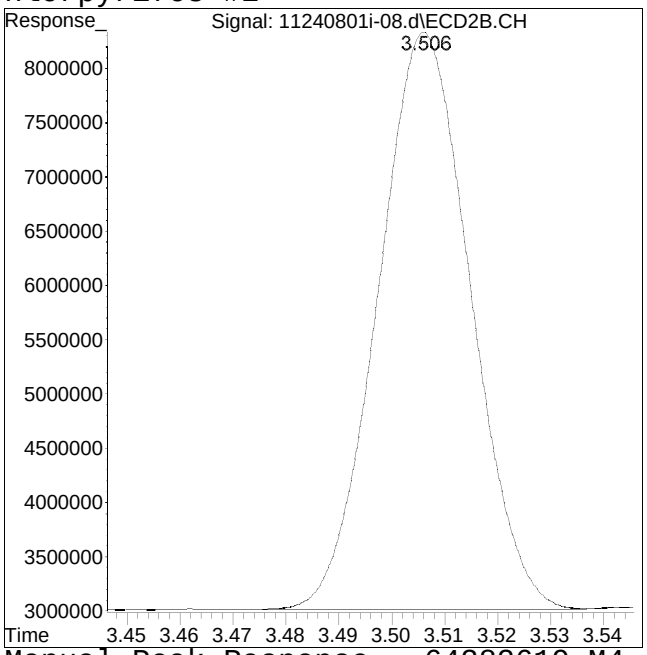
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 64562668



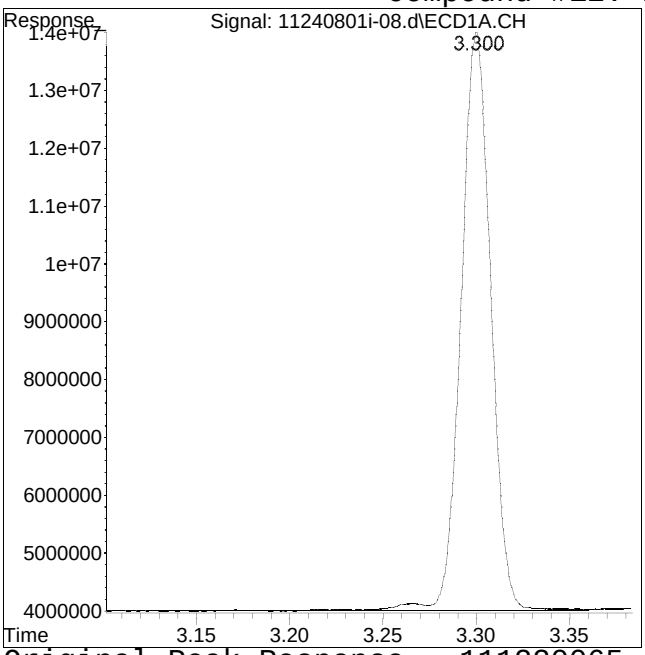
Manual Peak Response = 64282619 M4

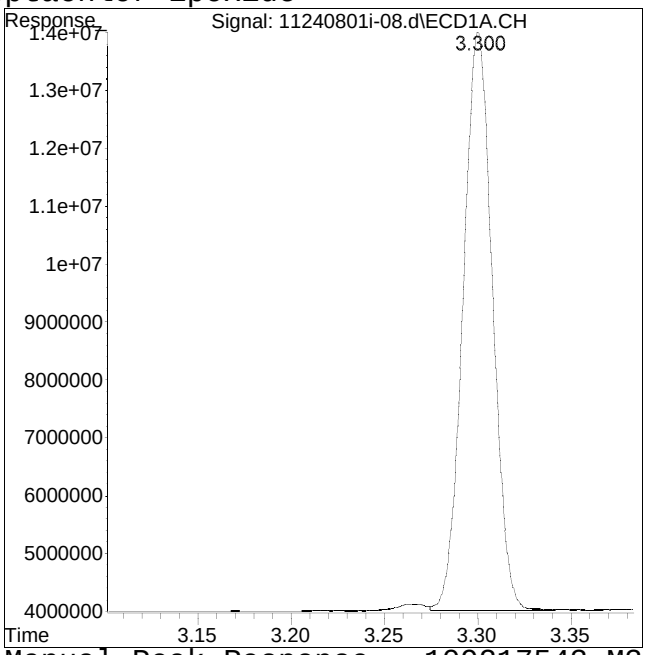
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #12: Heptachlor Epoxide



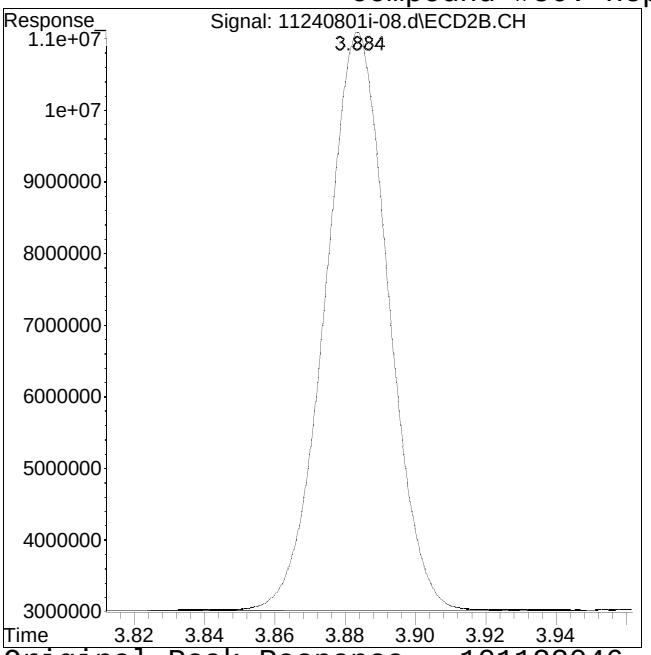


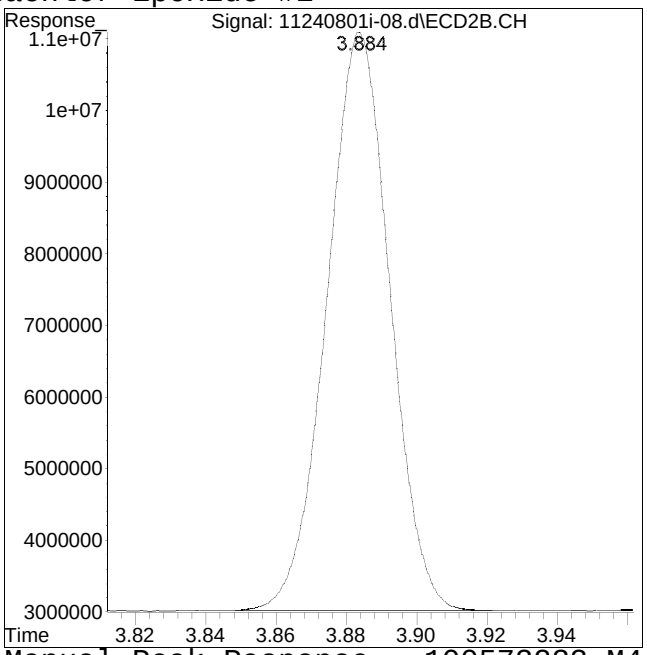
Original Peak Response = 111220065 Manual Peak Response = 109217543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #50: Heptachlor Epoxide #2



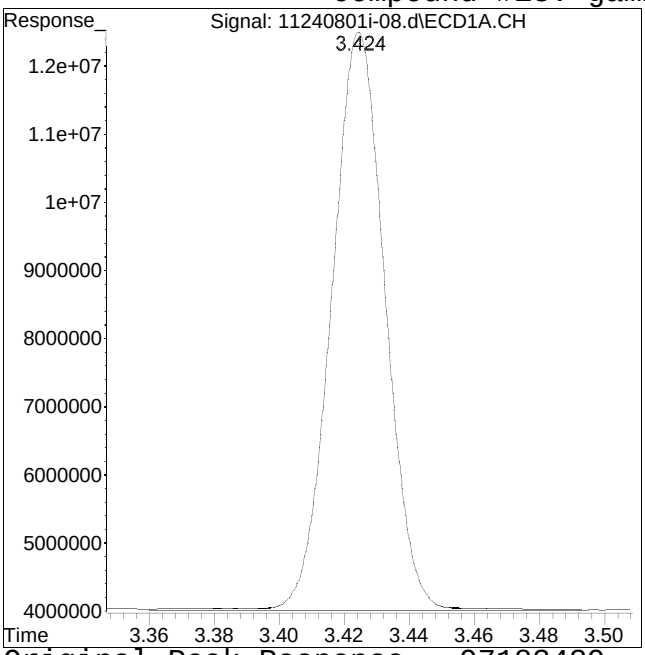


Original Peak Response = 101122046 Manual Peak Response = 100573233 M4
M4 = Poor automated baseline construction.

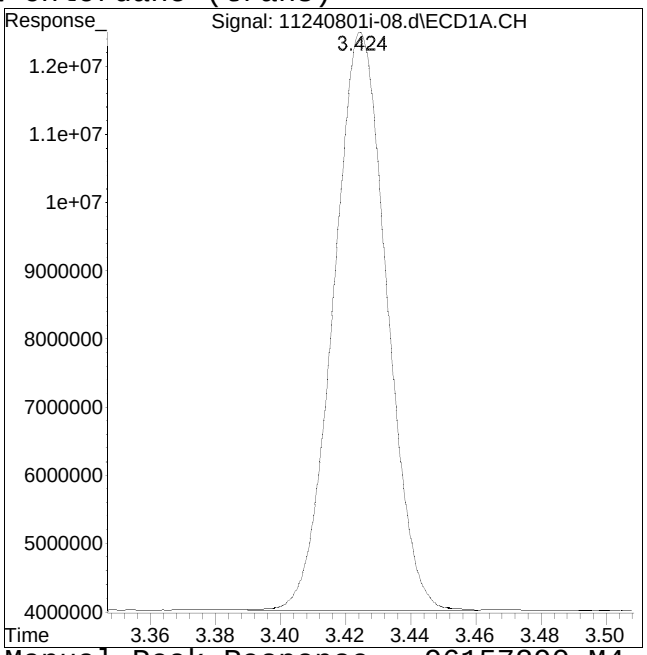
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 97183439



Manual Peak Response = 96157290 M4

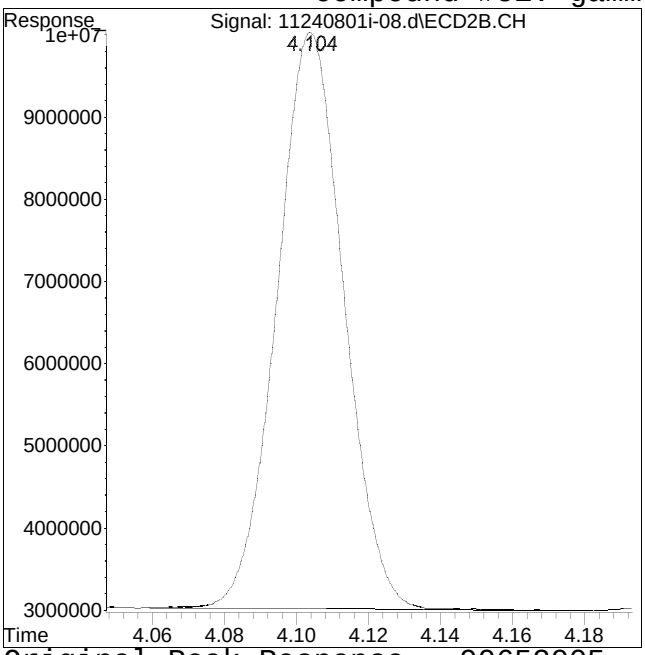
M4 = Poor automated baseline construction.

Manual Integration Report

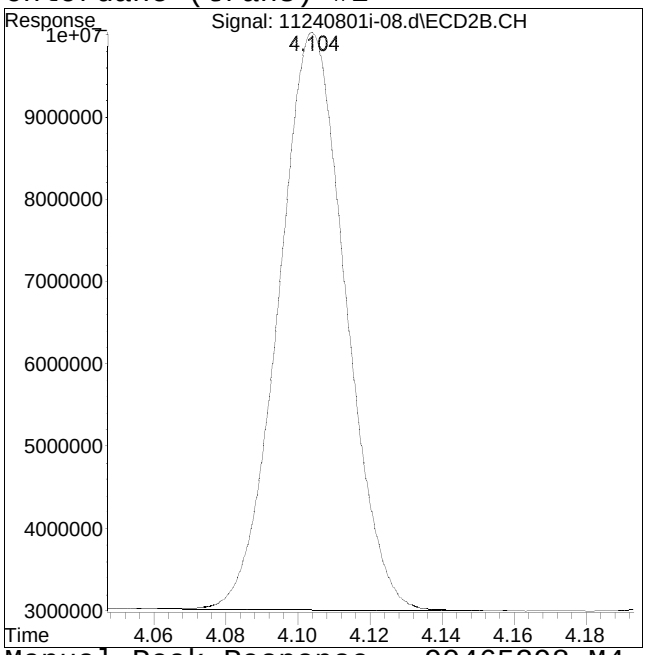
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 90652005



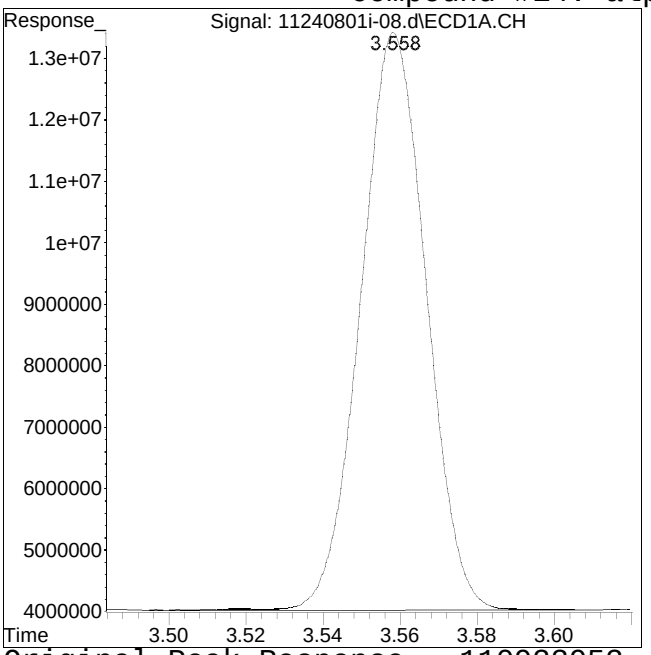
Manual Peak Response = 90465298 M4

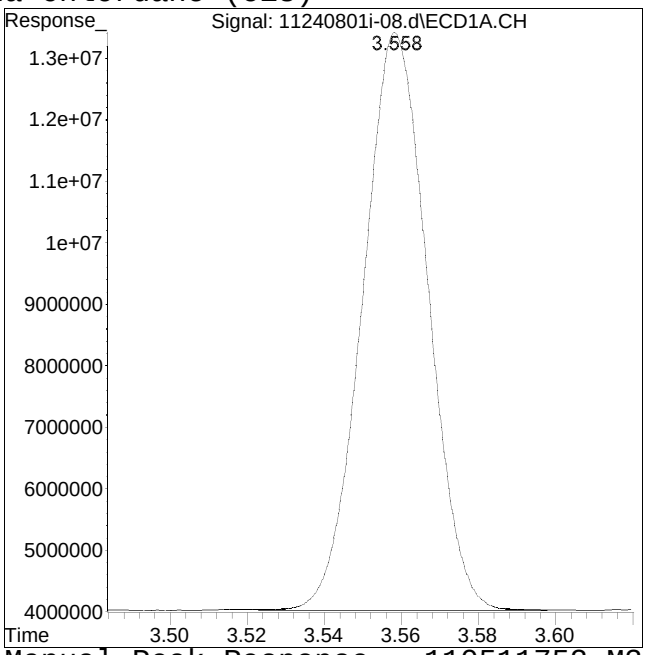
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #14: alpha-Chlordane (cis)



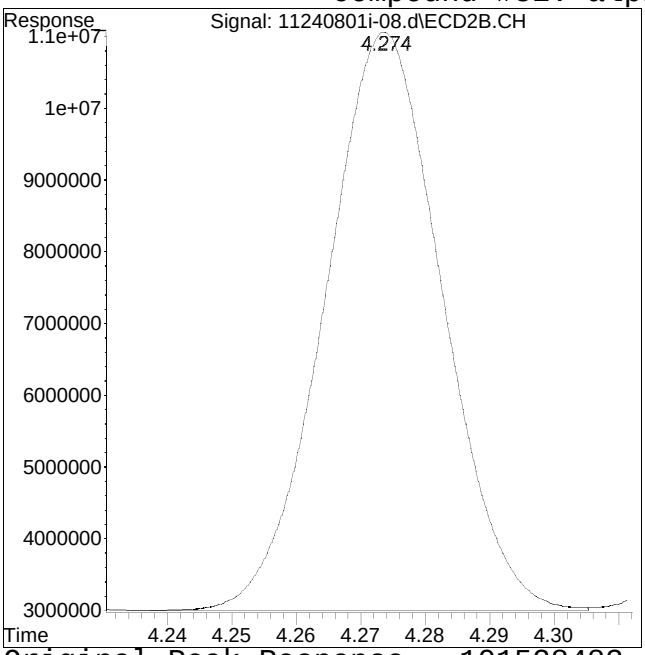


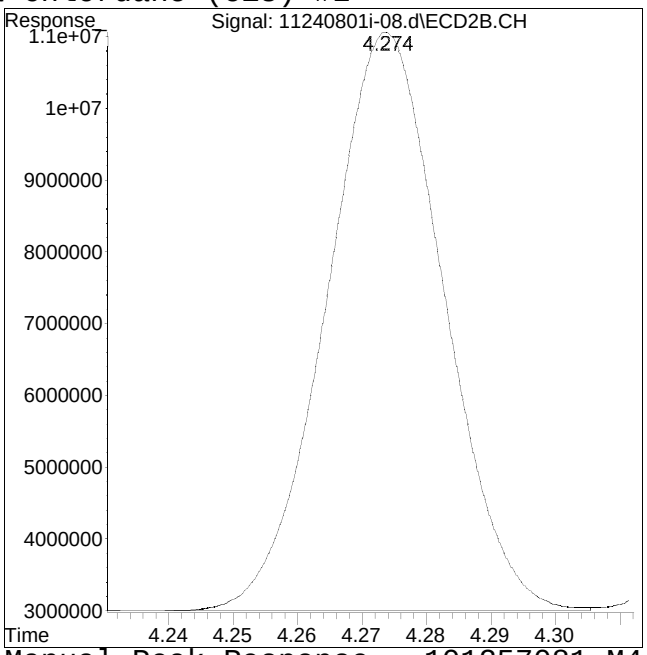
Original Peak Response = 110933953 Manual Peak Response = 110511752 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #52: alpha-Chlordane (cis) #2





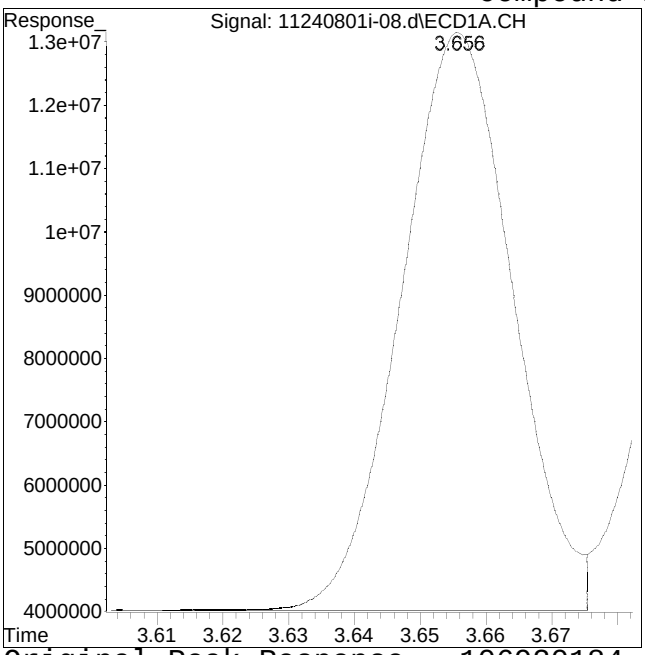
Original Peak Response = 101528483 Manual Peak Response = 101257081 M4
M4 = Poor automated baseline construction.

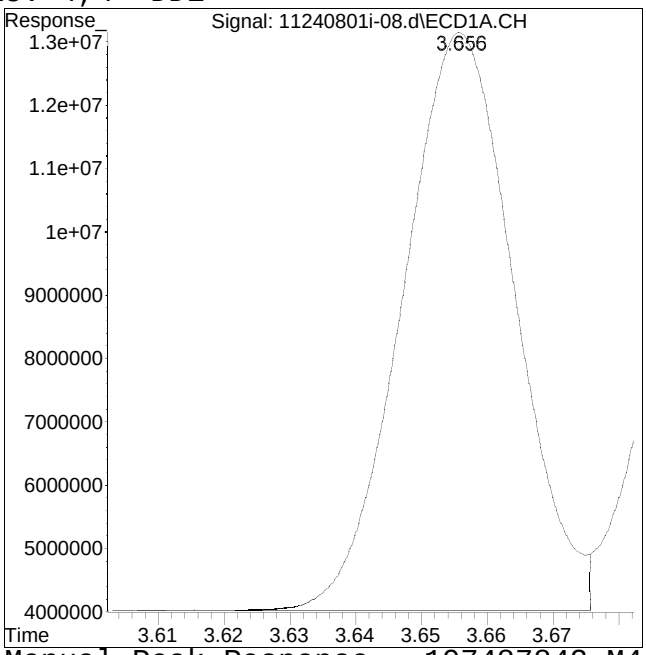
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #15: 4,4'-DDE





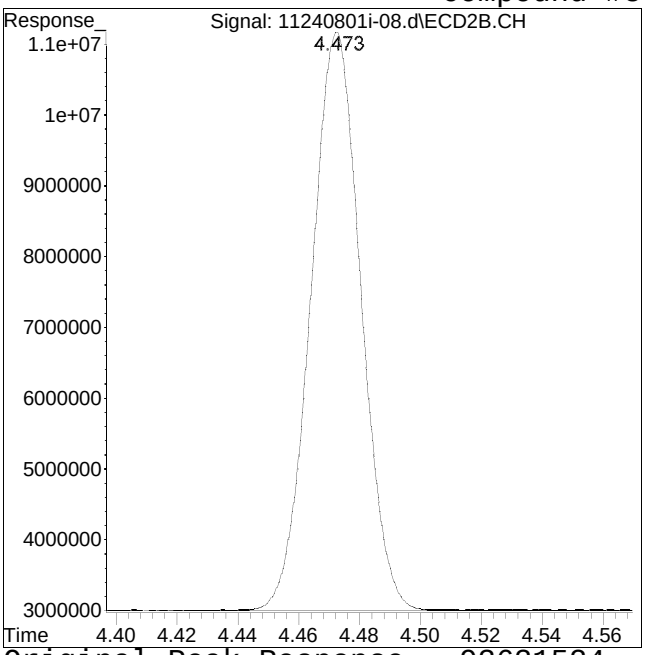
Original Peak Response = 106920184 Manual Peak Response = 107487842 M4
M4 = Poor automated baseline construction.

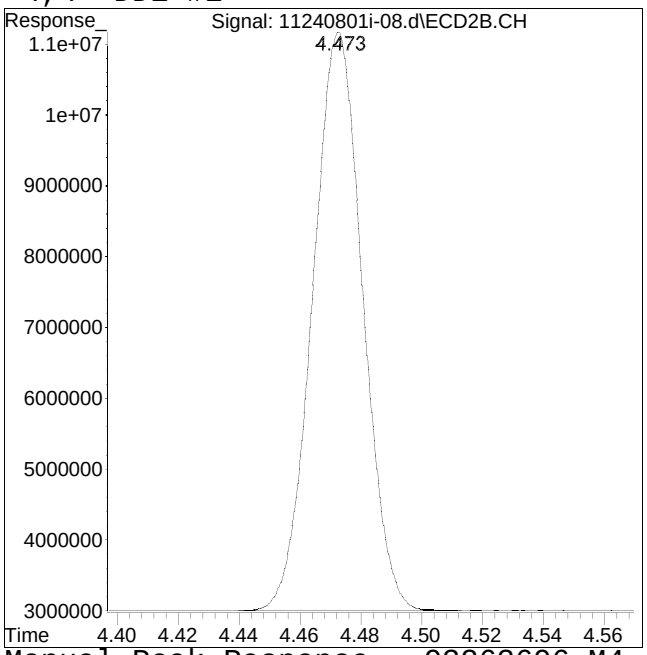
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #53: 4,4'-DDE #2



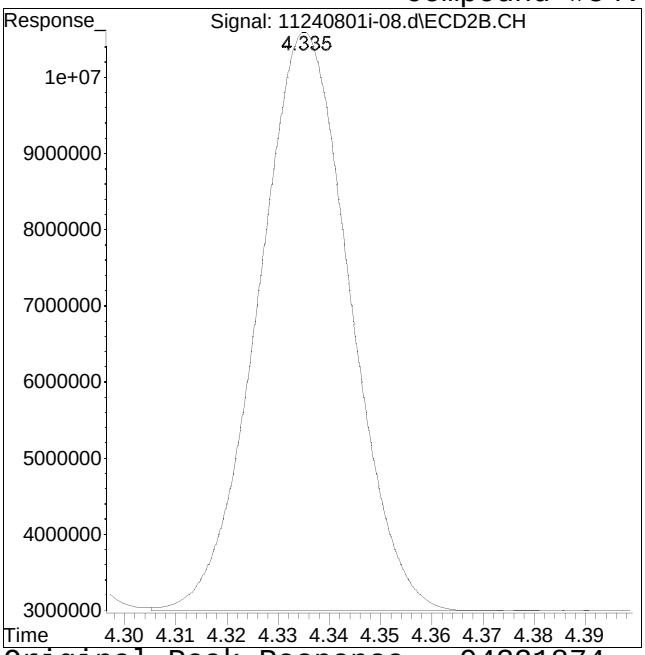


Original Peak Response = 93631524 Manual Peak Response = 93263696 M4
M4 = Poor automated baseline construction.

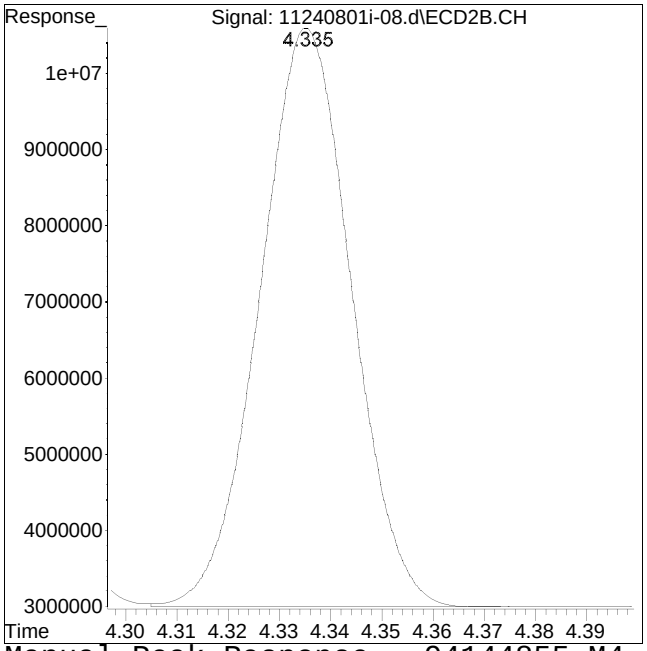
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #54: Endosulfan I #2



Original Peak Response = 94331874



Manual Peak Response = 94144855 M4

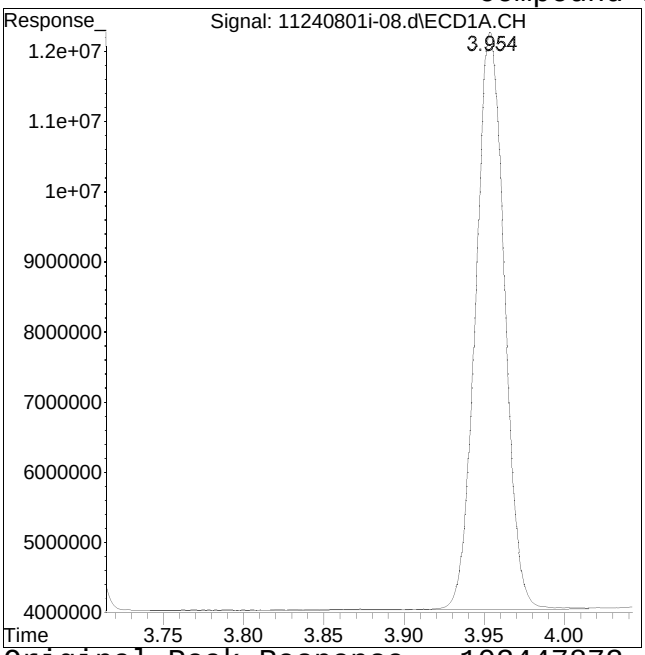
M4 = Poor automated baseline construction.

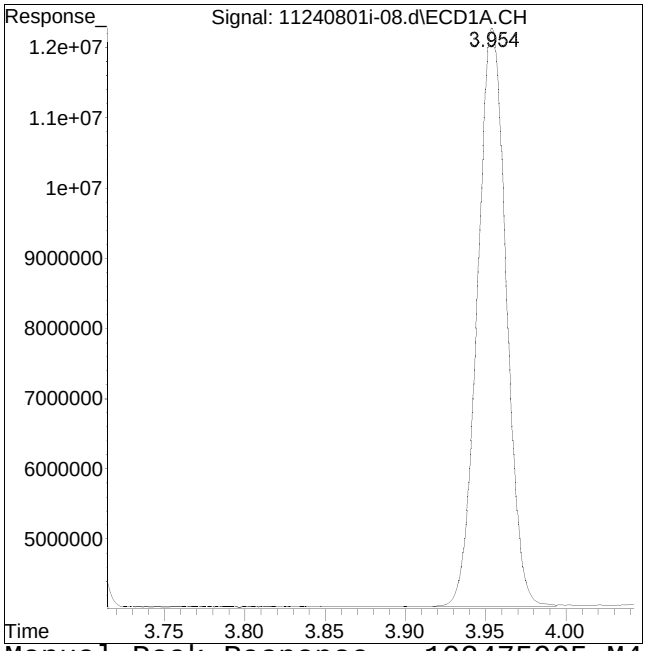
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #17: Dieldrin





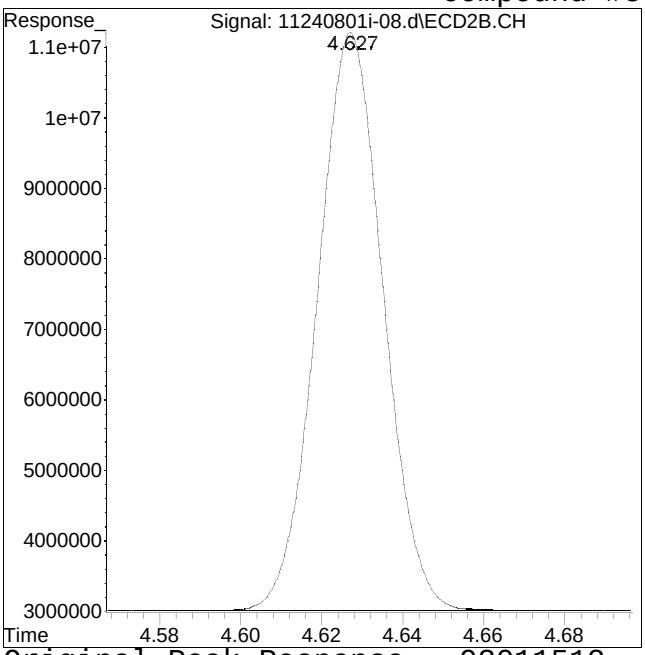
Original Peak Response = 103447873 Manual Peak Response = 102475905 M4
M4 = Poor automated baseline construction.

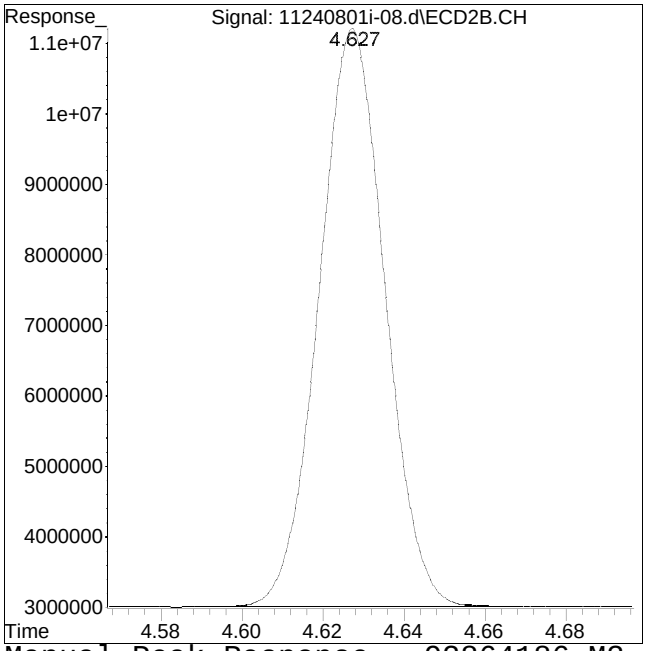
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #55: Dieldrin #2





Original Peak Response = 93011512 Manual Peak Response = 92864186 M3

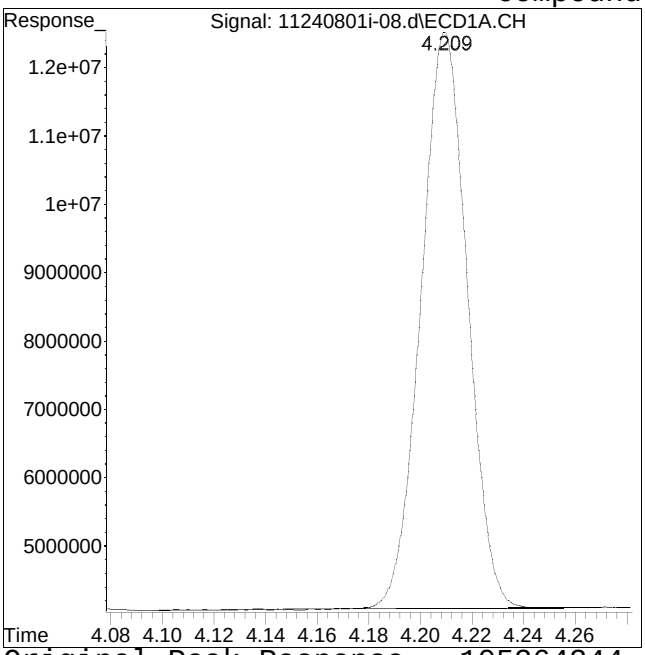
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

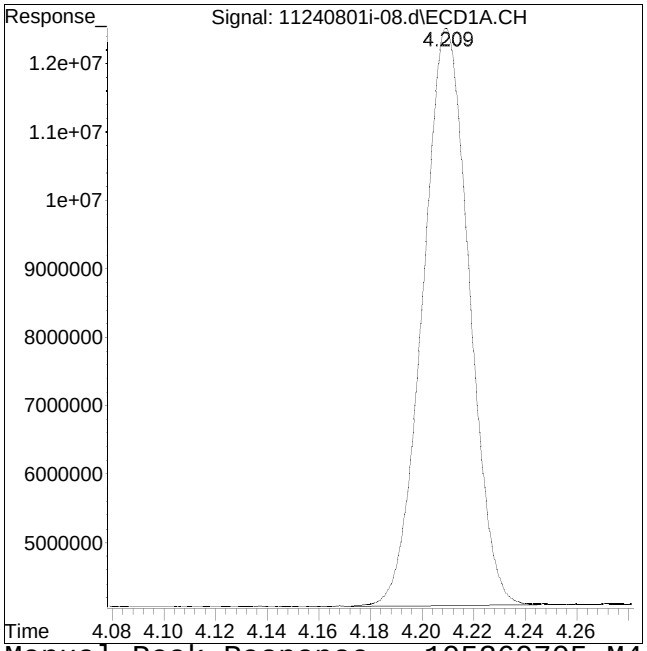
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #18: Endrin



Original Peak Response = 105264244



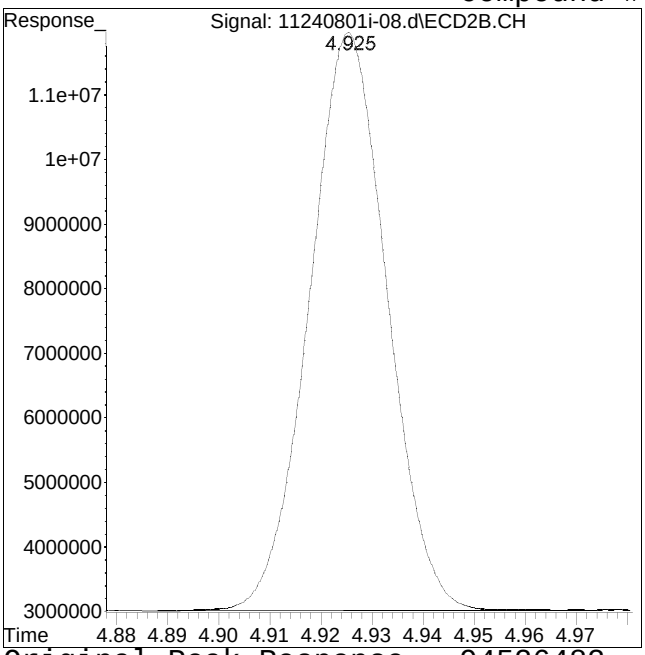
Manual Peak Response = 105360705 M4

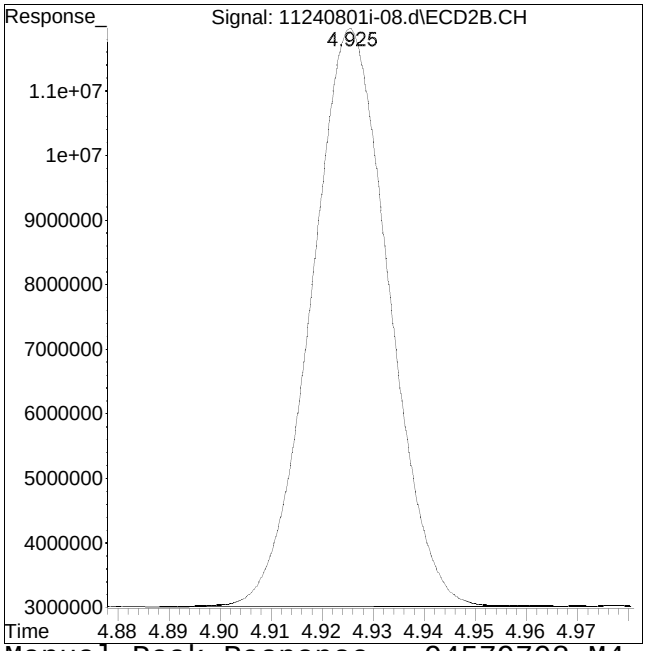
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #56: Endrin #2





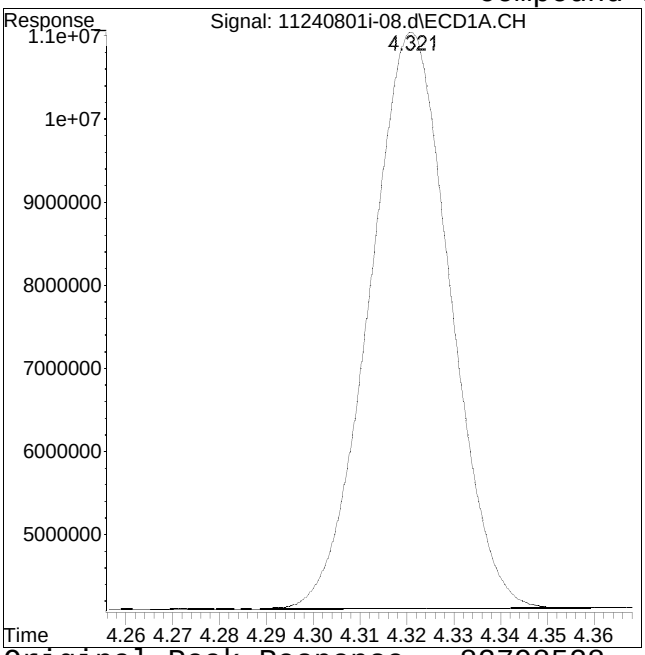
Original Peak Response = 94526482 Manual Peak Response = 94579708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

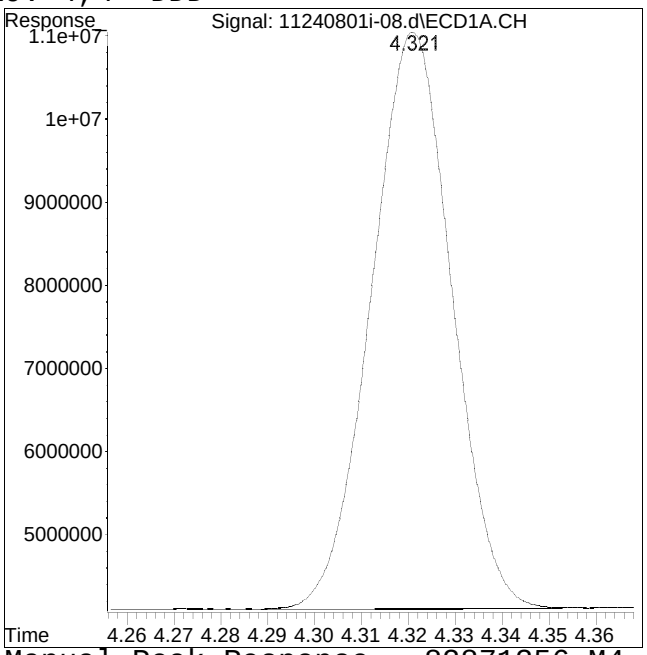
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 82798528



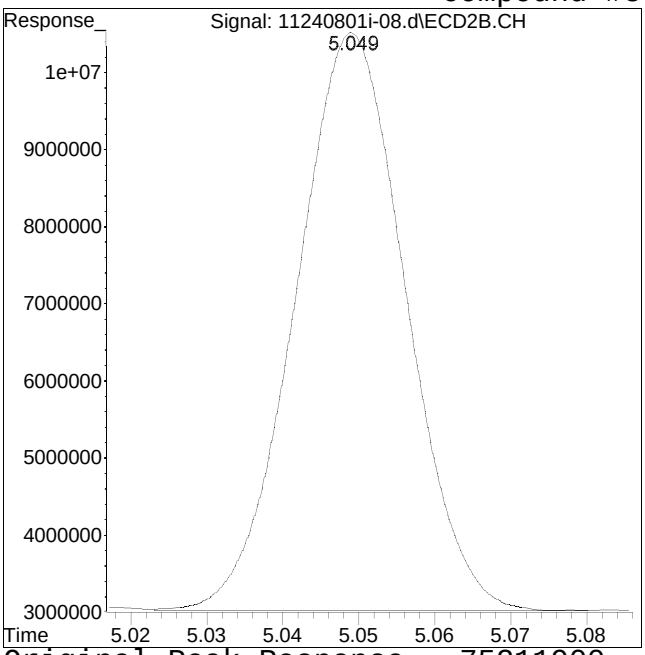
Manual Peak Response = 82871356 M4

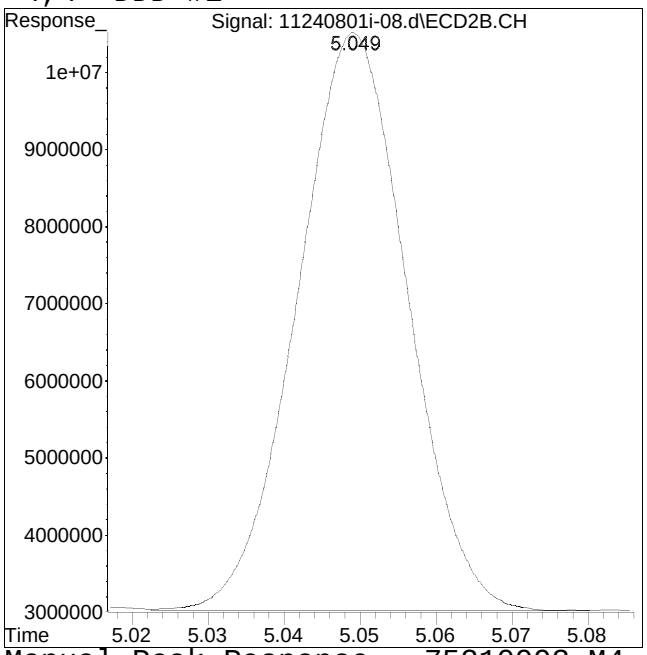
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #57: 4,4'-DDD #2



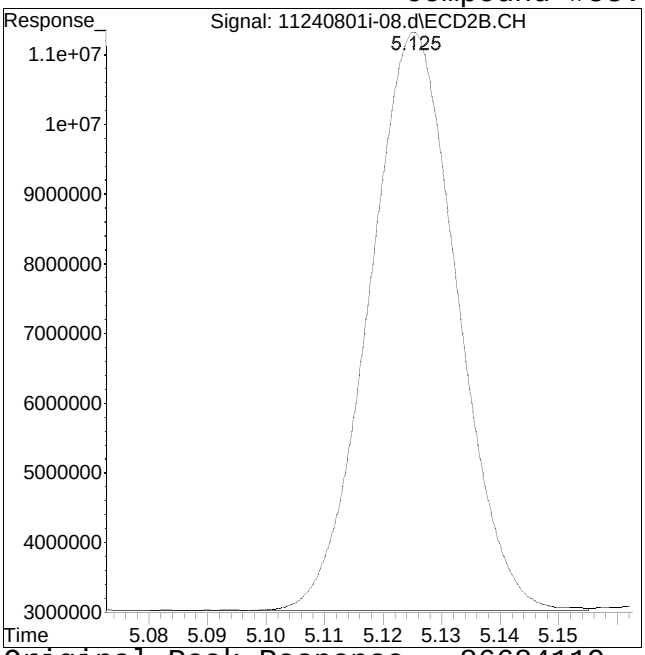


Original Peak Response = 75211900 Manual Peak Response = 75210993 M4
M4 = Poor automated baseline construction.

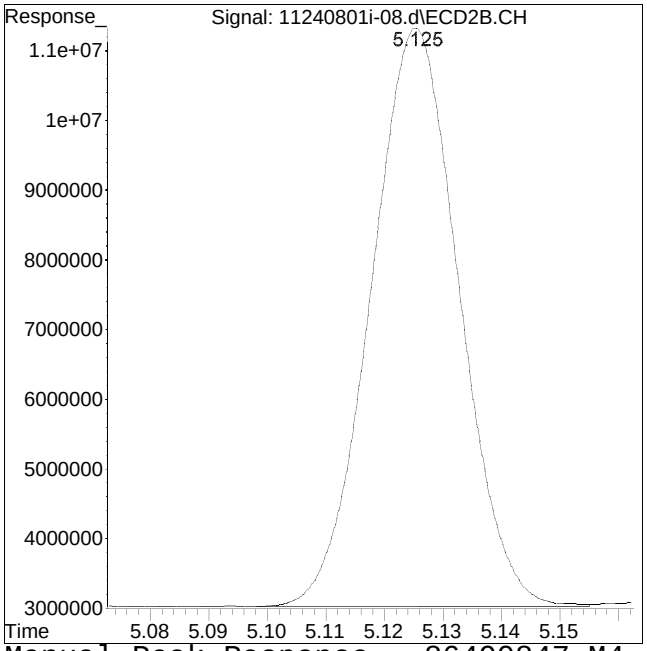
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #58: Endosulfan II #2



Original Peak Response = 86684119



Manual Peak Response = 86490847 M4

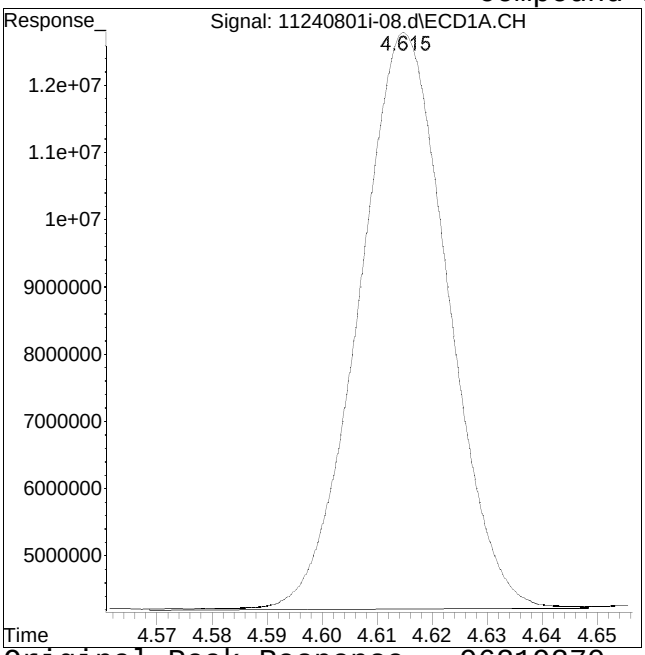
M4 = Poor automated baseline construction.

Manual Integration Report

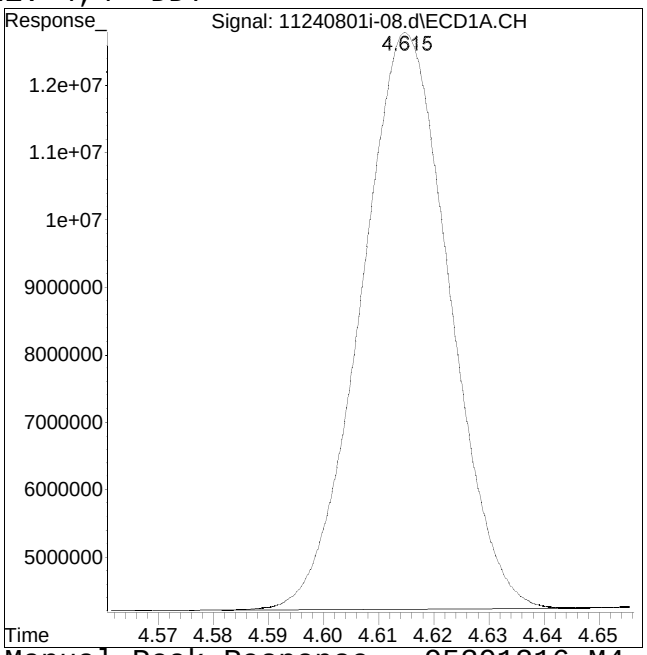
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #21: 4,4'-DDT



Original Peak Response = 96219270



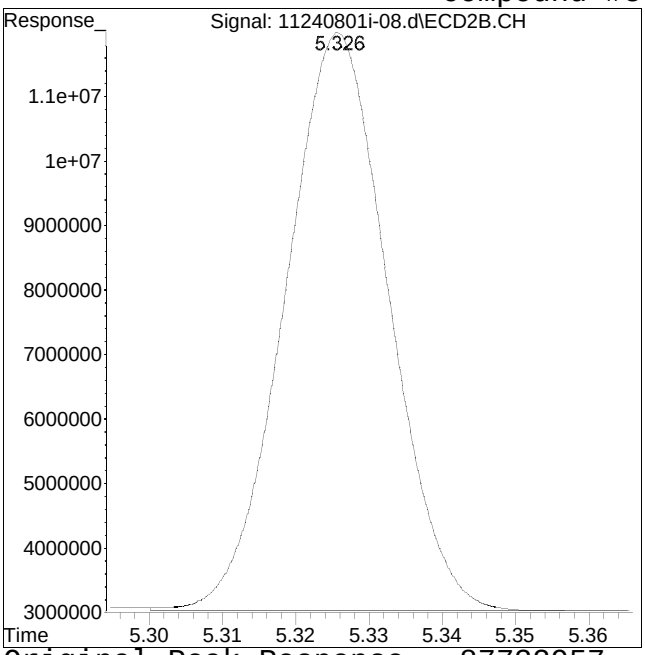
Manual Peak Response = 95391216 M4

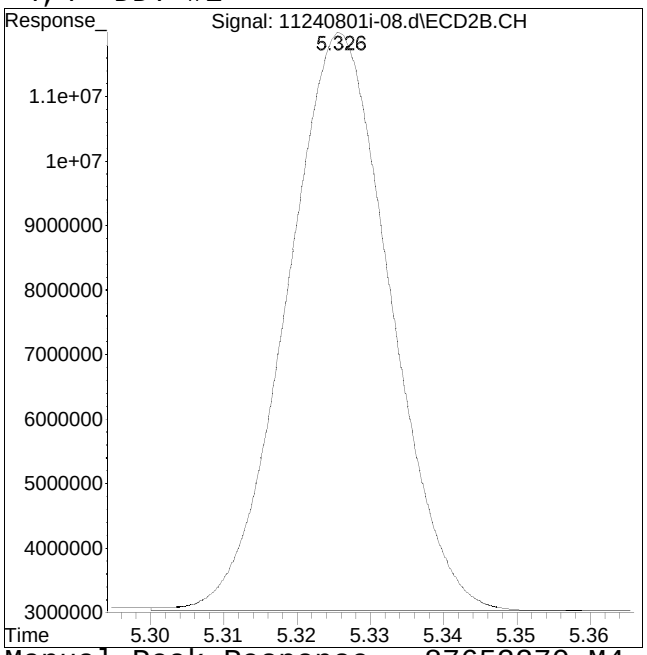
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #59: 4,4'-DDT #2



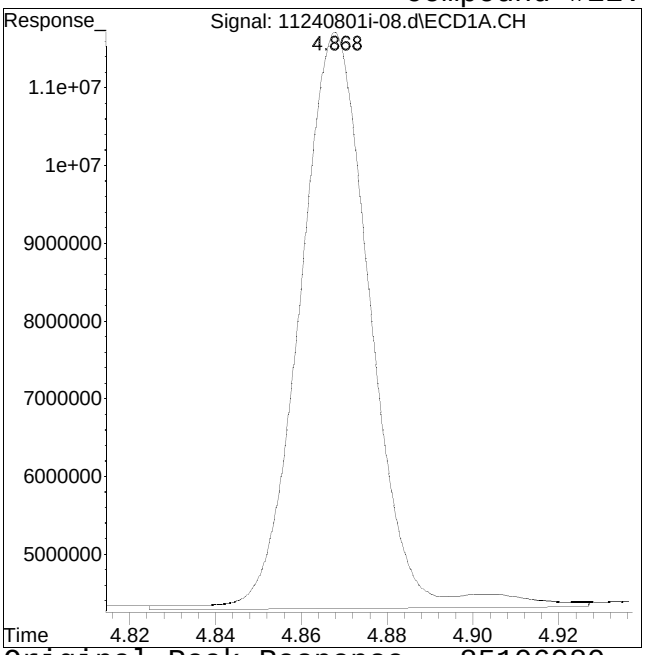


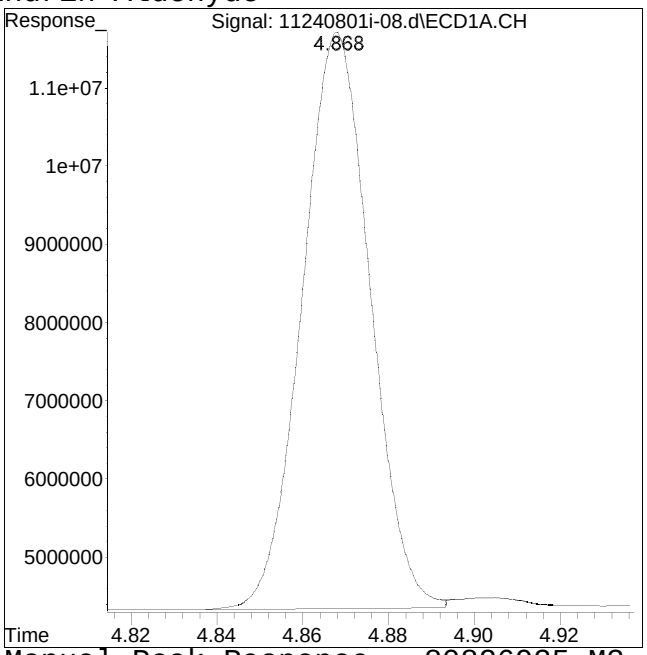
Original Peak Response = 87732957 Manual Peak Response = 87653270 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #22: Endrin Aldehyde



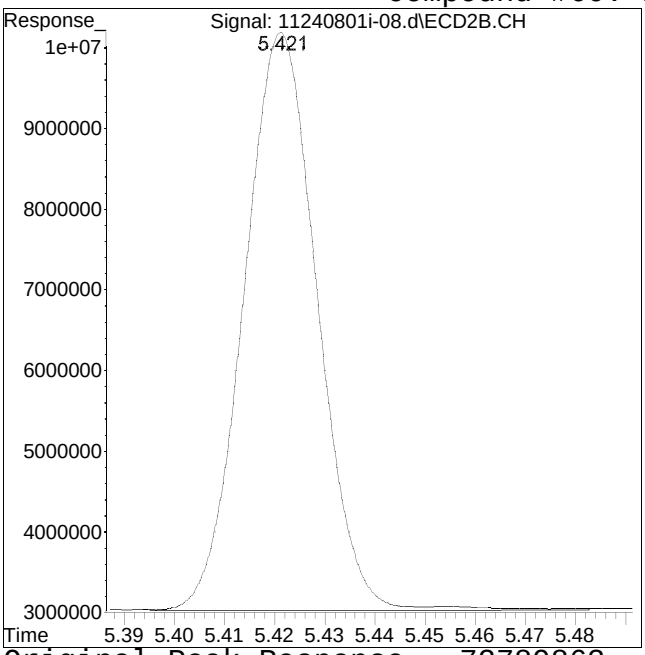


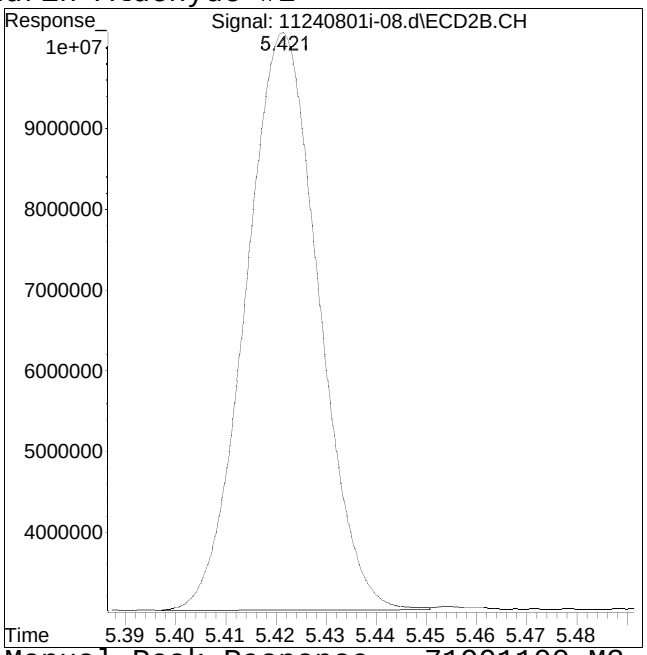
Original Peak Response = 85106980 Manual Peak Response = 80826935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #60: Endrin Aldehyde #2



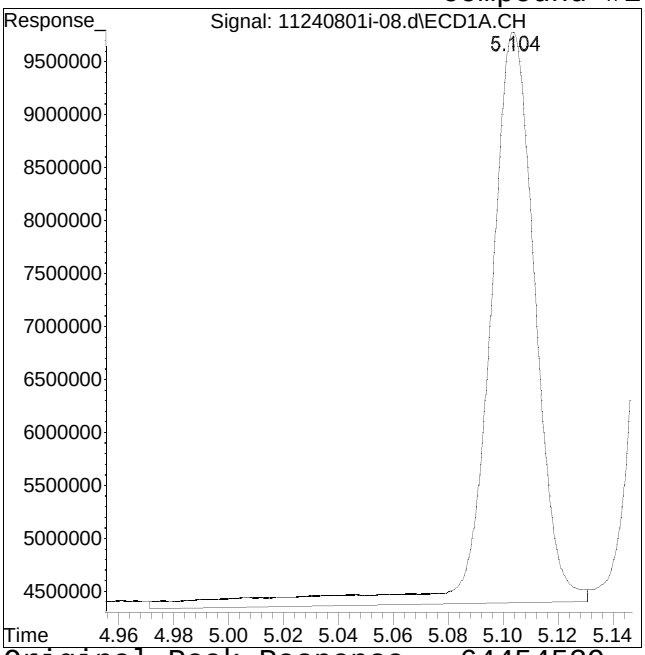


Original Peak Response = 72789863 Manual Peak Response = 71991100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

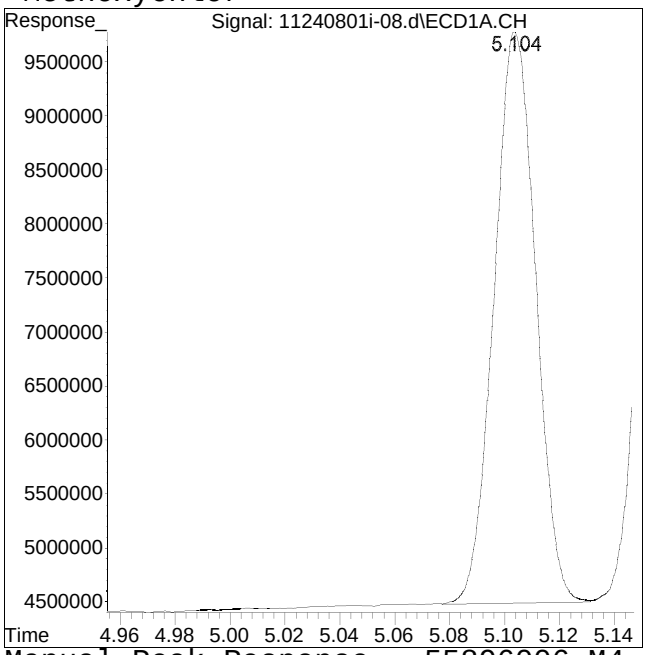
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #23: Methoxychlor



Original Peak Response = 64454539



Manual Peak Response = 55896006 M4

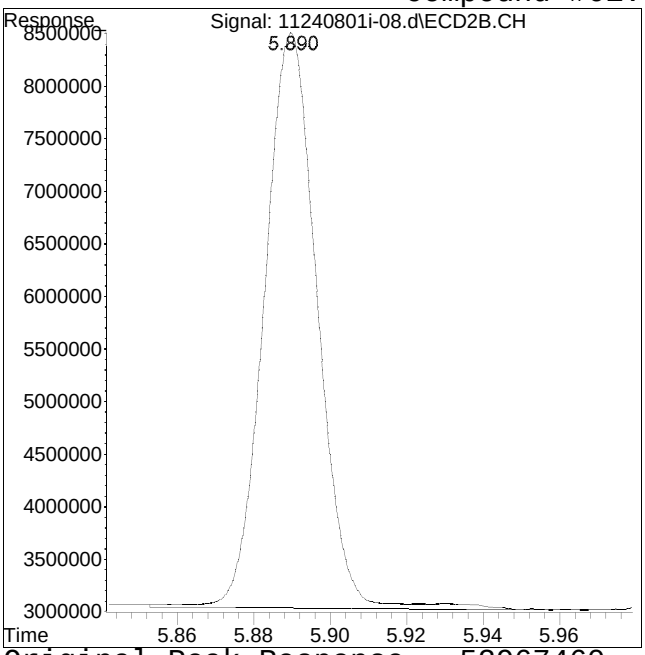
M4 = Poor automated baseline construction.

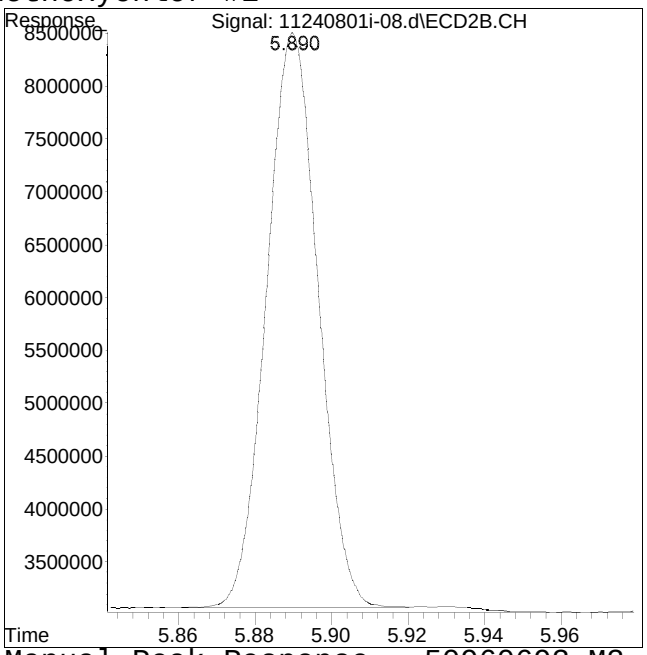
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #61: Methoxychlor #2





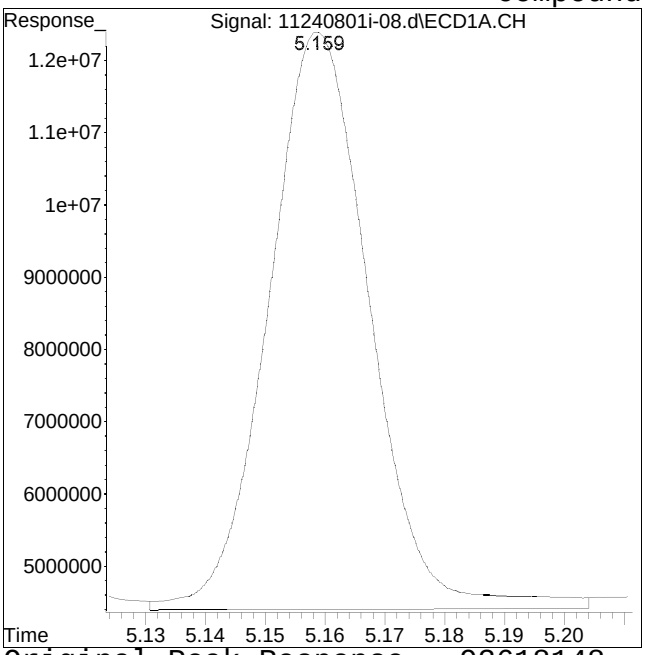
Original Peak Response = 52967460 Manual Peak Response = 50960693 M3

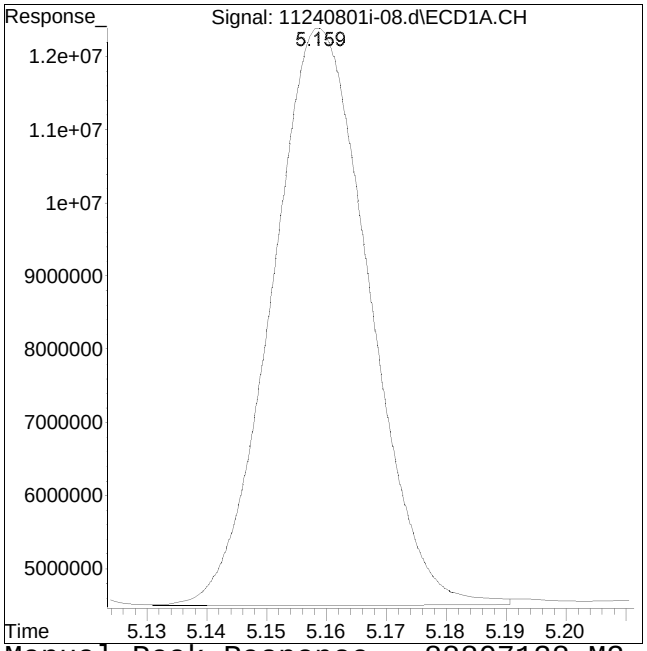
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #24: Mirex



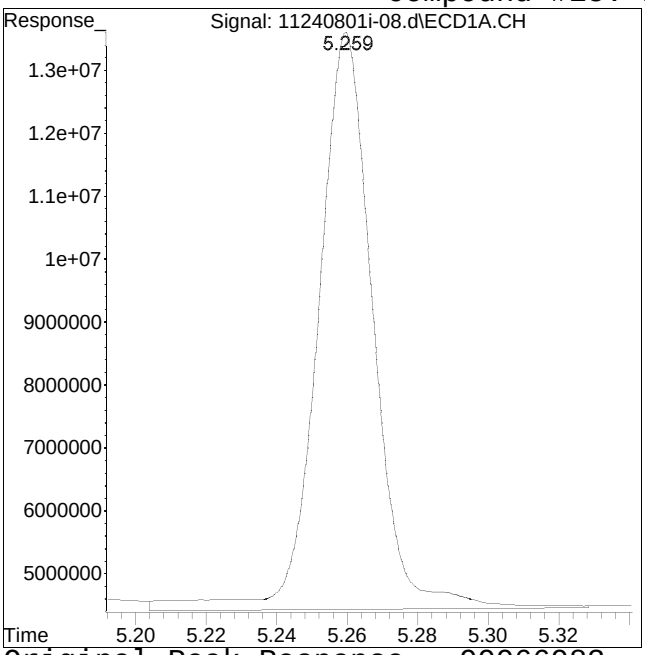


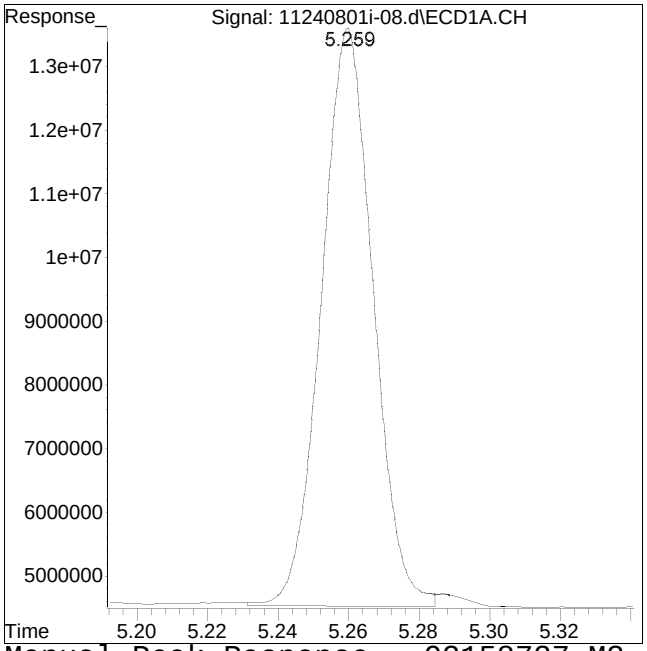
Original Peak Response = 93618148 Manual Peak Response = 88807138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #25: Endosulfan Sulfate





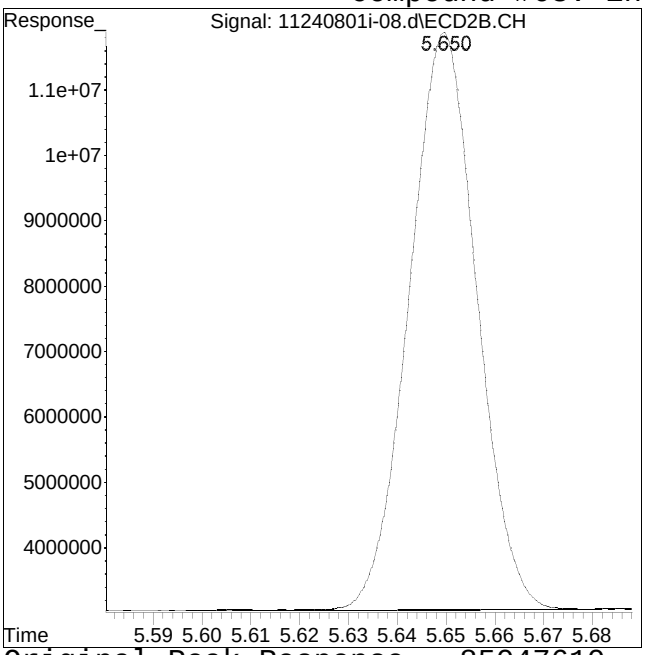
Original Peak Response = 99966983 Manual Peak Response = 92158727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

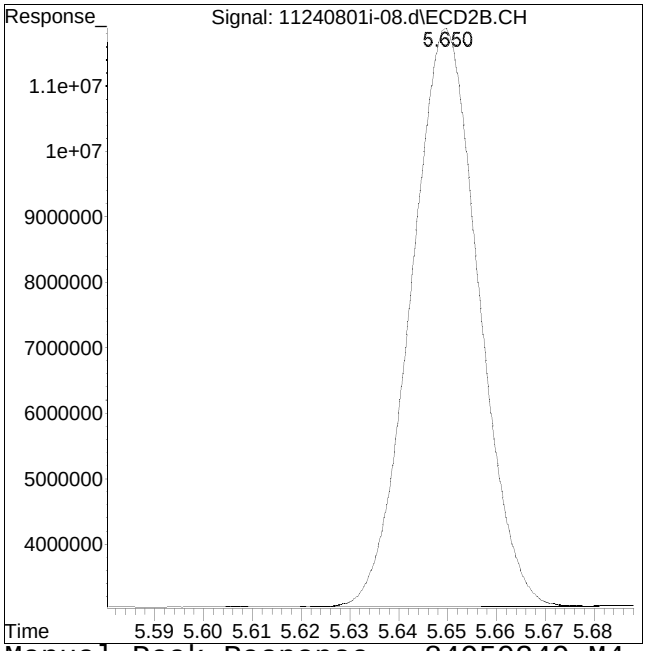
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 85047610



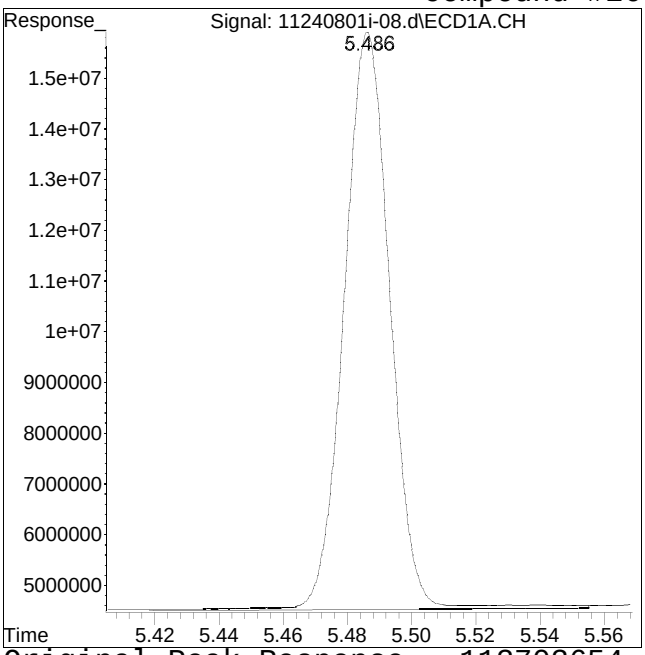
Manual Peak Response = 84950349 M4

M4 = Poor automated baseline construction.

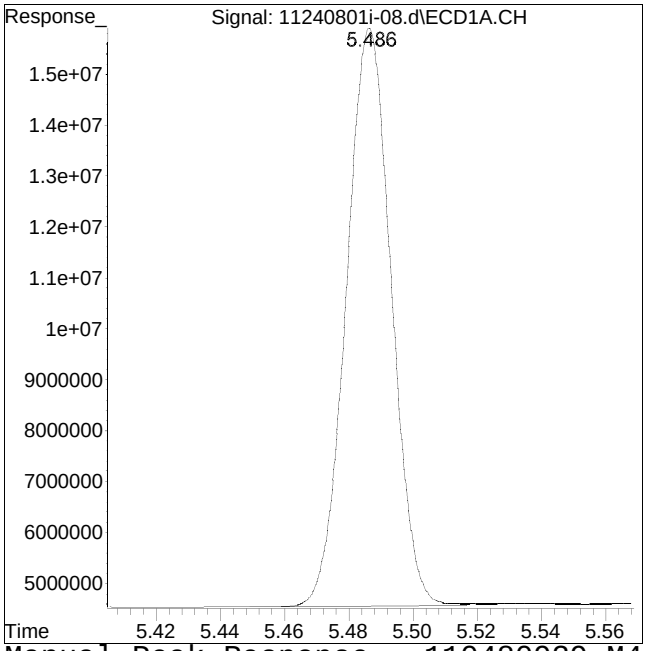
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #26: Endrin Ketone



Original Peak Response = 113703654



Manual Peak Response = 110480939 M4

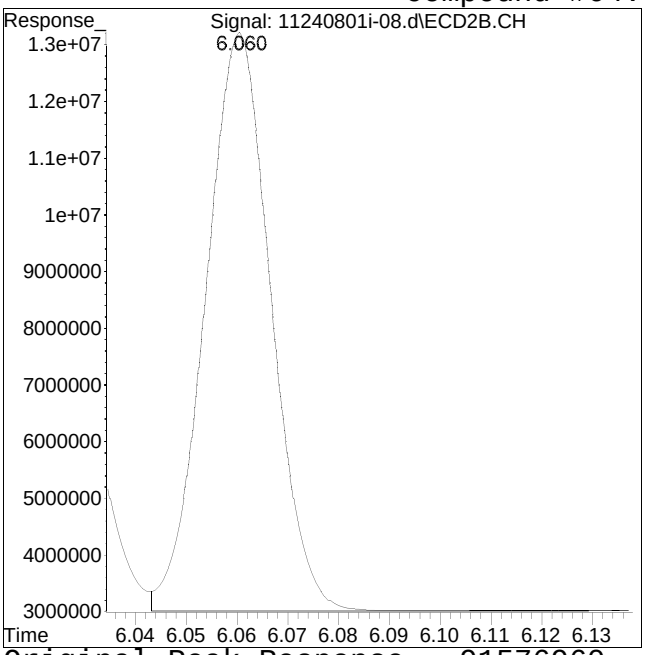
M4 = Poor automated baseline construction.

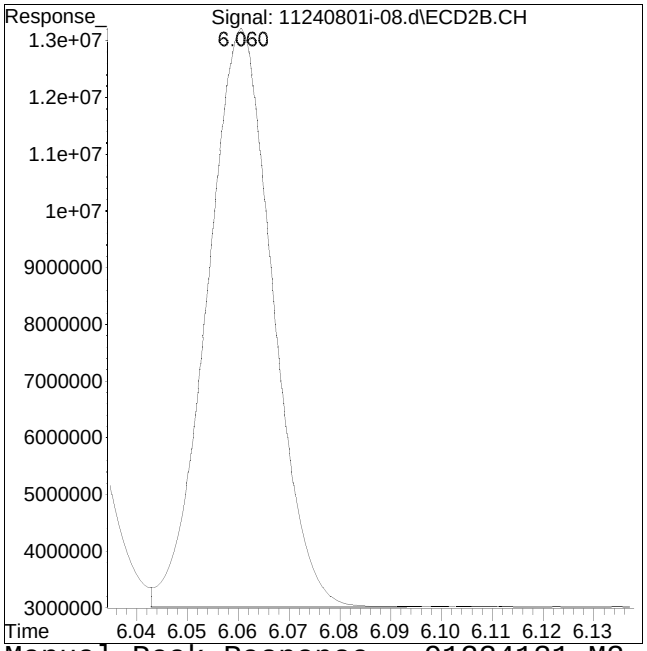
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #64: Endrin Ketone #2





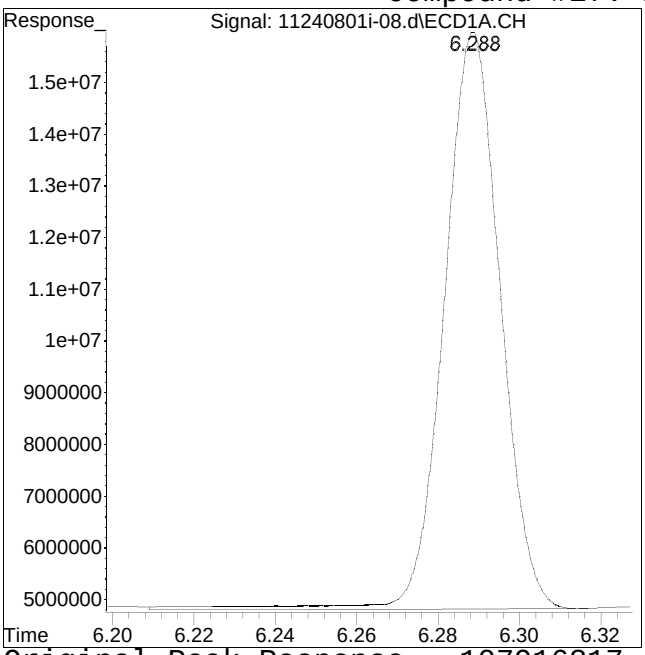
Original Peak Response = 91576960 Manual Peak Response = 91234131 M3

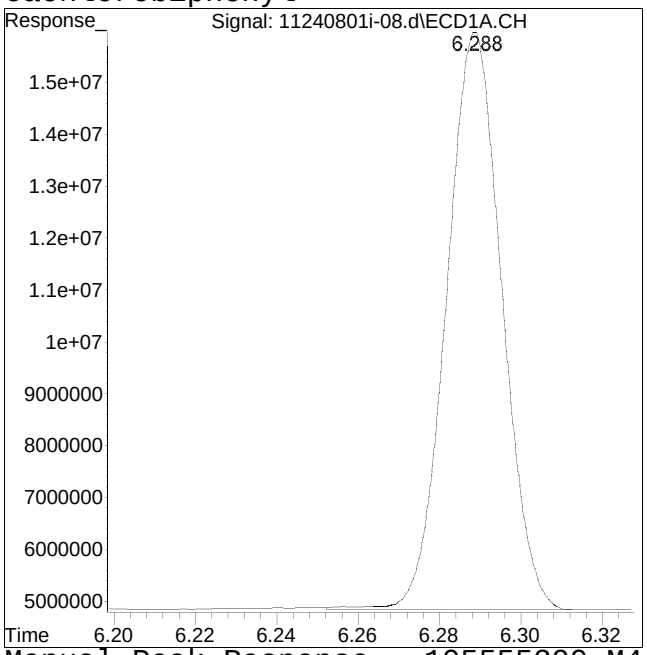
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #27: Decachlorobiphenyl





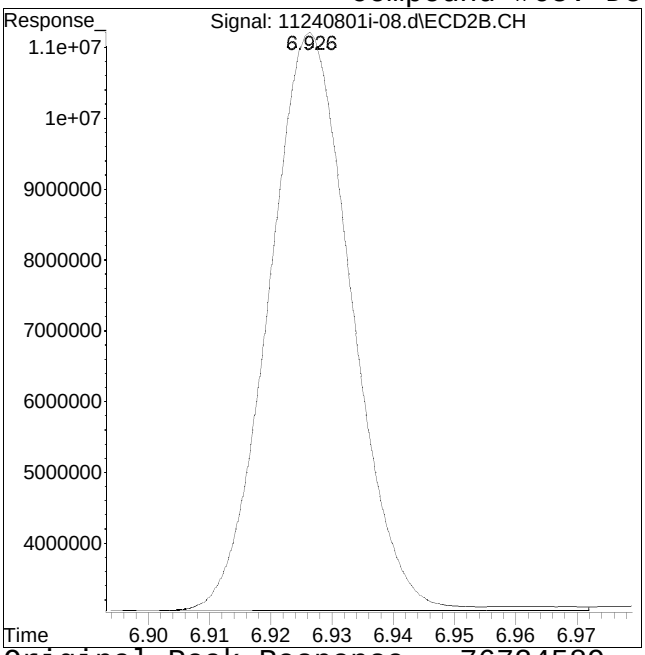
Original Peak Response = 107916317 Manual Peak Response = 105555290 M4
M4 = Poor automated baseline construction.

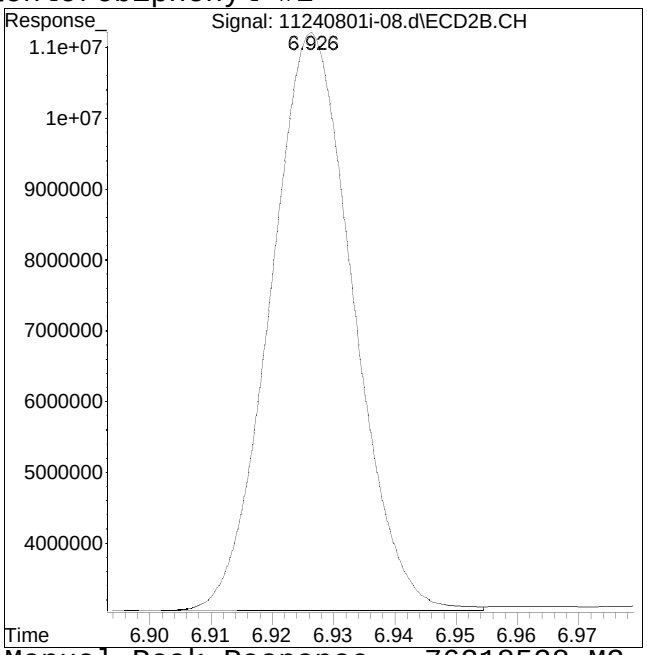
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 76724589 Manual Peak Response = 76218538 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.1E6	187.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	492.0E6	407.5E6	NoCal M3	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.288	6.920	489.2E6	351.4E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	634.9E6	430.2E6	NoCal M3	NoCal M4
4) t	alpha-BHC	1.963	2.271	745.5E6	633.1E6	NoCal M4	NoCal M4
5) t	gamma-BHC (l	2.165	2.556	687.9E6	572.6E6	NoCal M4	NoCal M4
6) t	beta-BHC	2.221	2.622	286.7E6	241.2E6	NoCal M4	NoCal M3
7) t	delta-BHC	2.350	2.889	694.2E6	581.2E6	NoCal M4	NoCal M4
8) t	Heptachlor	2.513	2.952	641.1E6	583.2E6	NoCal M4	NoCal M4
9) t	Aldrin	2.756	3.271	607.8E6	538.3E6	NoCal M4	NoCal M4
10) t	Alachlor	2.876	3.153	106.6E6	73985916	NoCal M4	NoCal M4
11) t	Chlorpyrifos	2.968	3.507	254.3E6	276.4E6	NoCal M4	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	567.8E6	507.8E6	NoCal M3	NoCal M4
13)	t	gamma-Chlord	3.425	4.104	508.9E6	459.6E6	NoCal M4	NoCal M4
14)	t	alpha-Chlord	3.559	4.274	577.6E6	510.2E6	NoCal M3	NoCal M4
15)	t	4,4'-DDE	3.656	4.473	579.1E6	505.9E6	NoCal M4	NoCal M4
16)	t	Endosulfan I	3.695	4.336	533.8E6	473.2E6	NoCal M3	NoCal M4
17)	t	Dieldrin	3.955	4.628	554.2E6	490.0E6	NoCal M4	NoCal M4
18)	t	Endrin	4.210	4.926	563.1E6	497.8E6	NoCal	NoCal M4
19)	t	4,4'-DDD	4.322	5.049	451.2E6	402.1E6	NoCal	NoCal M4
20)	t	Endosulfan I	4.452	5.125	505.7E6	433.2E6	NoCal	NoCal M4
21)	t	4,4'-DDT	4.616	5.326	511.5E6	460.7E6	NoCal M4	NoCal M4
22)	t	Endrin Aldeh	4.868	5.421	414.1E6	353.4E6	NoCal M4	NoCal M3
23)	t	Methoxychlor	5.104	5.890	267.0E6	236.7E6	NoCal M4	NoCal M4
24)	t	Mirex	5.160	6.023	415.8E6	345.7E6	NoCal M3	NoCal M4
25)	t	Endosulfan S	5.260	5.649	466.7E6	415.6E6	NoCal M3	NoCal M3
26)	t	Endrin Keton	5.487	6.060	564.8E6	452.3E6	NoCal M4	NoCal M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

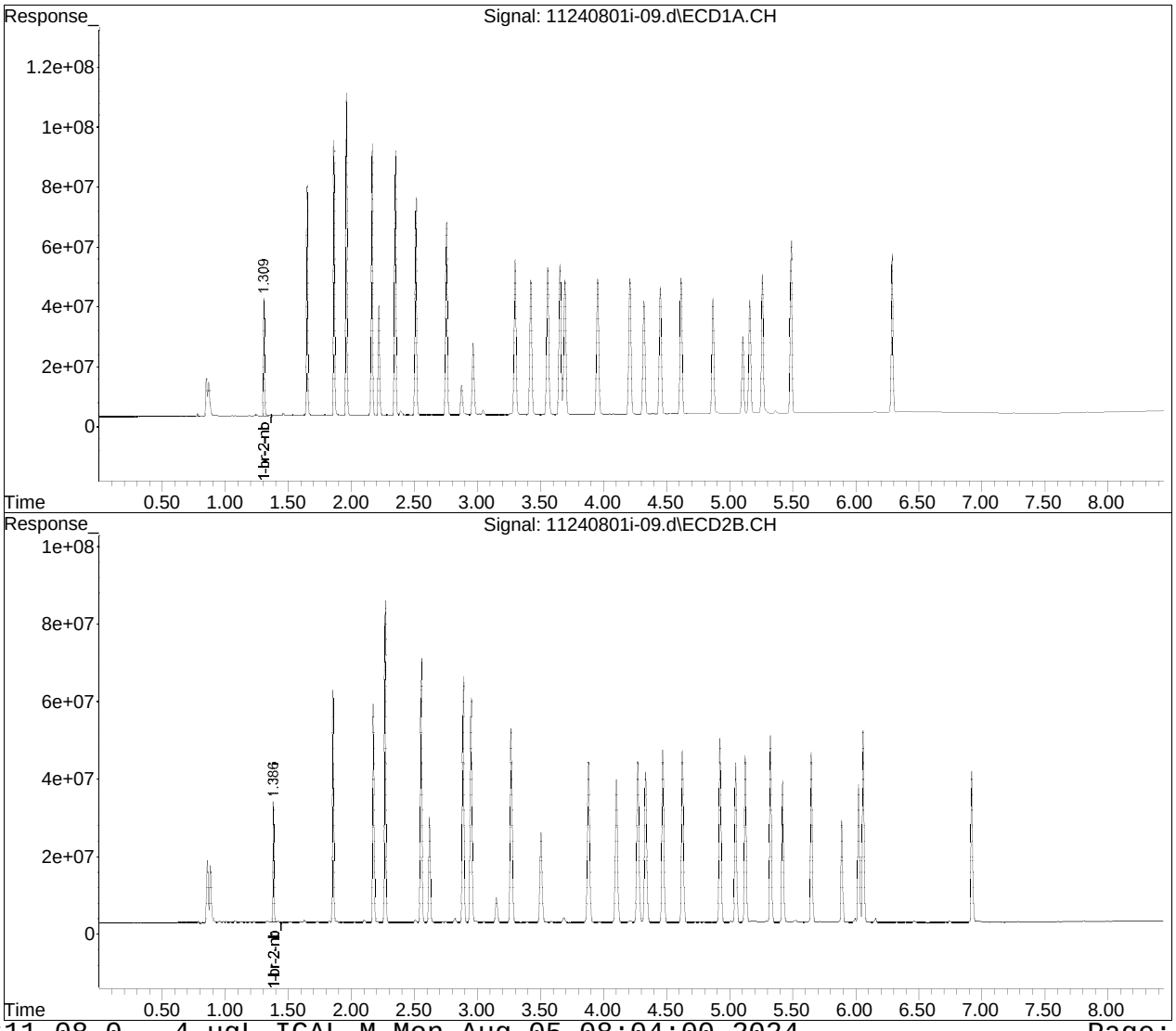
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

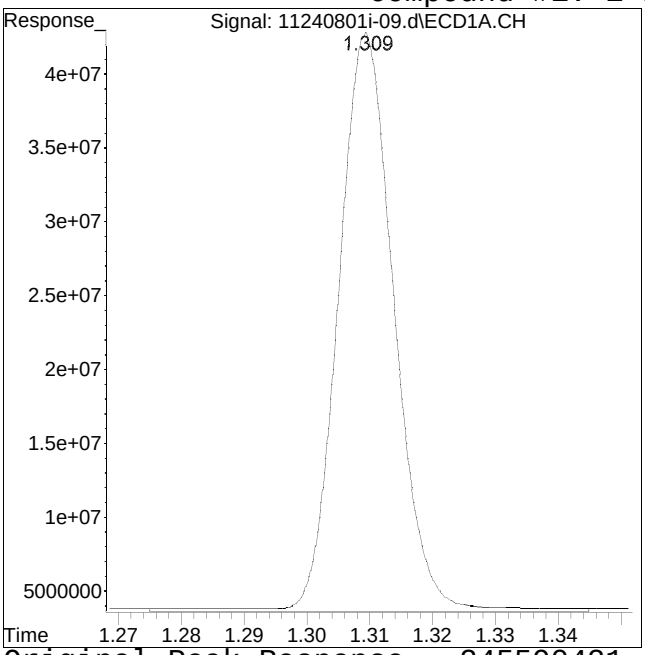


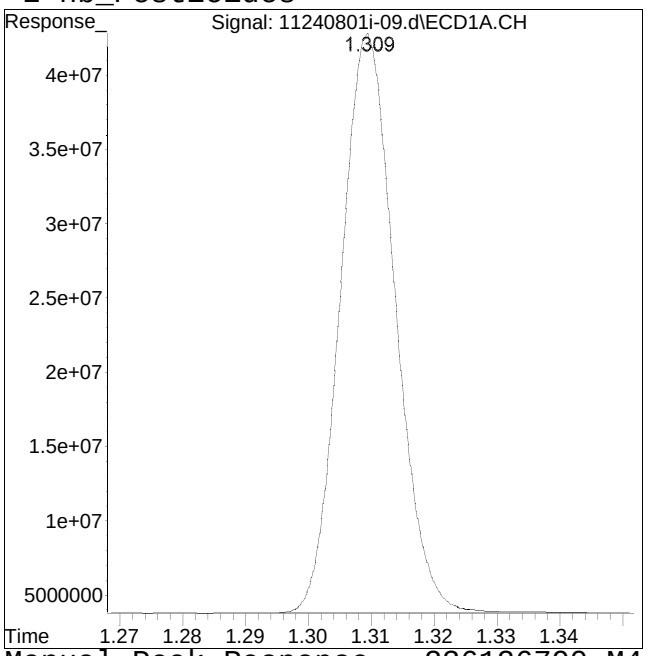
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #1: 1-br-2-nb_Pesticides





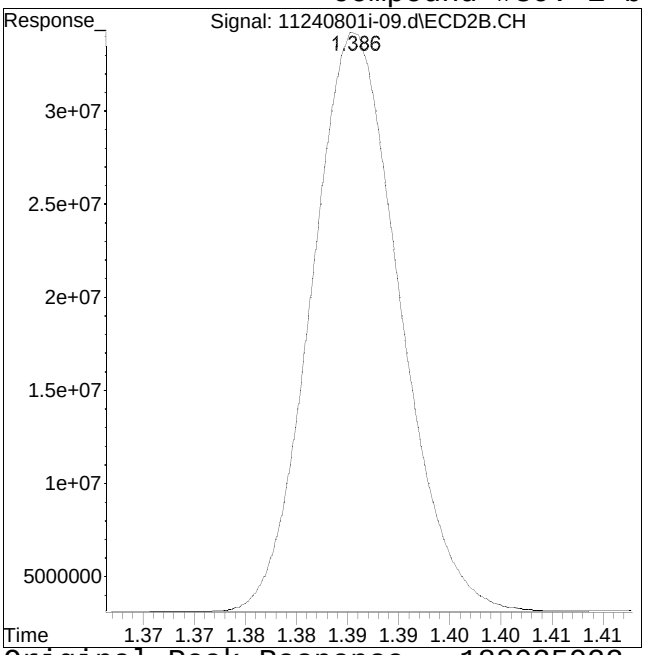
Original Peak Response = 245590421 Manual Peak Response = 236126790 M4
M4 = Poor automated baseline construction.

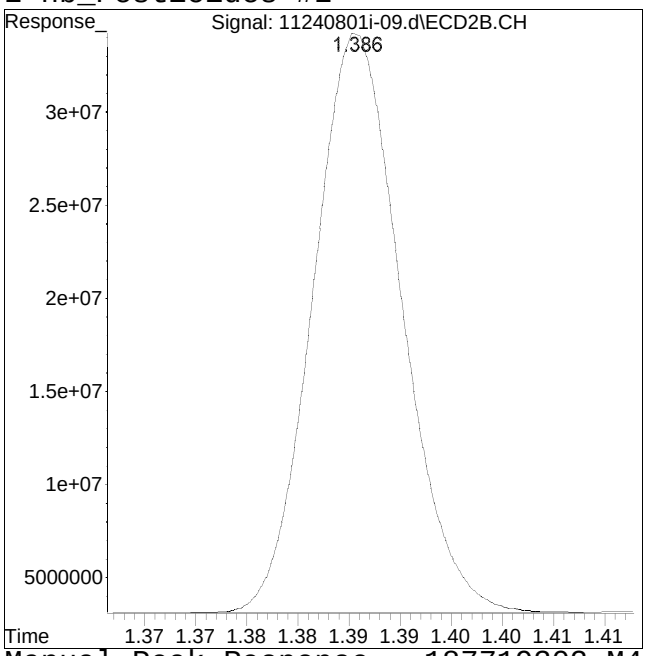
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #39: 1-br-2-nb_Pesticides #2





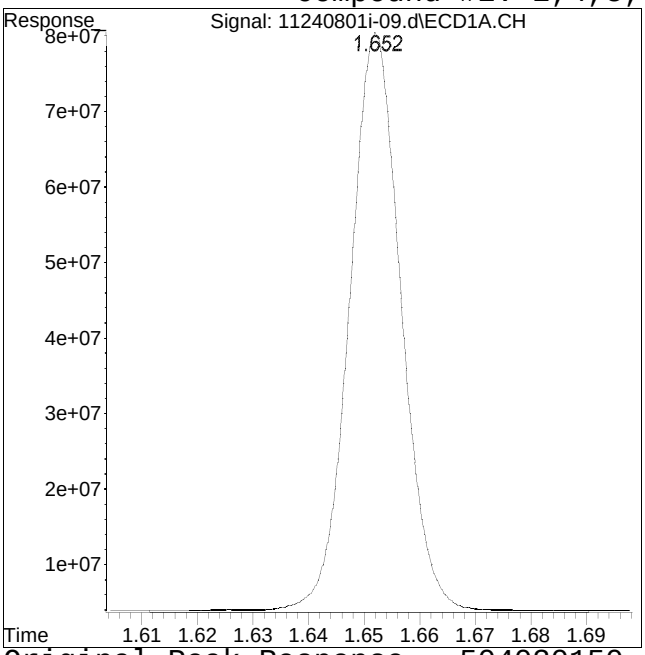
Original Peak Response = 188025922 Manual Peak Response = 187719302 M4
M4 = Poor automated baseline construction.

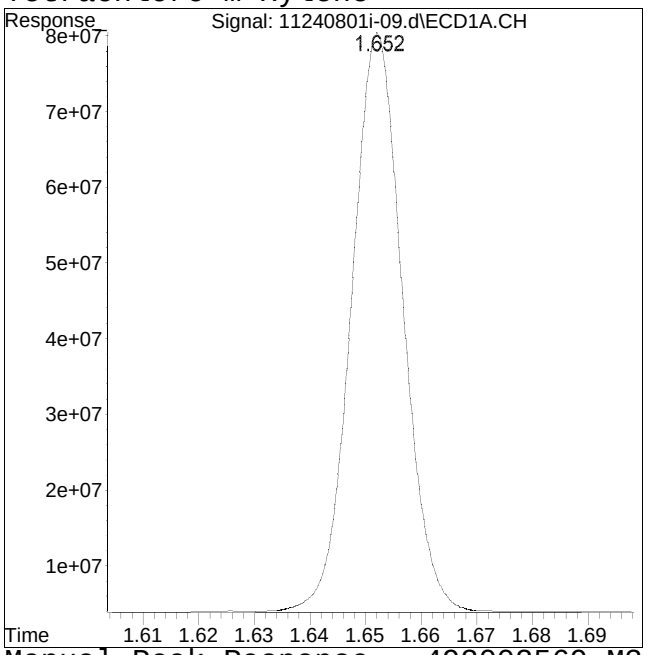
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





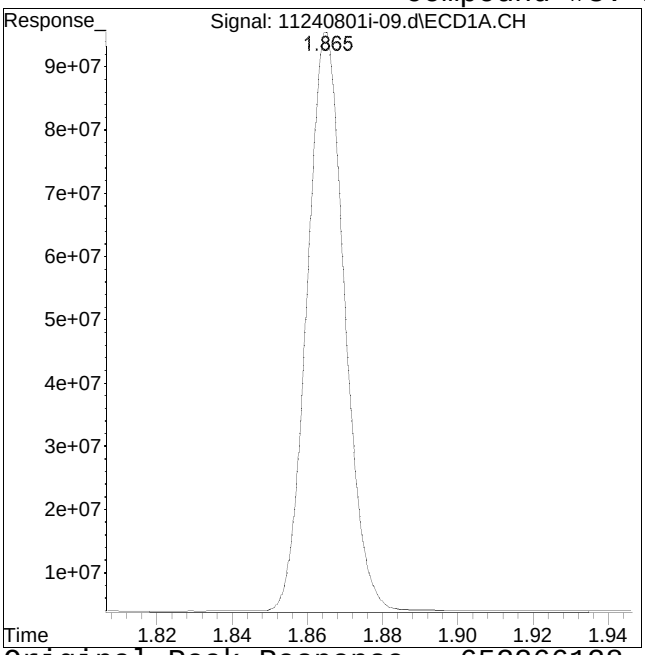
Original Peak Response = 504030150 Manual Peak Response = 492002569 M3

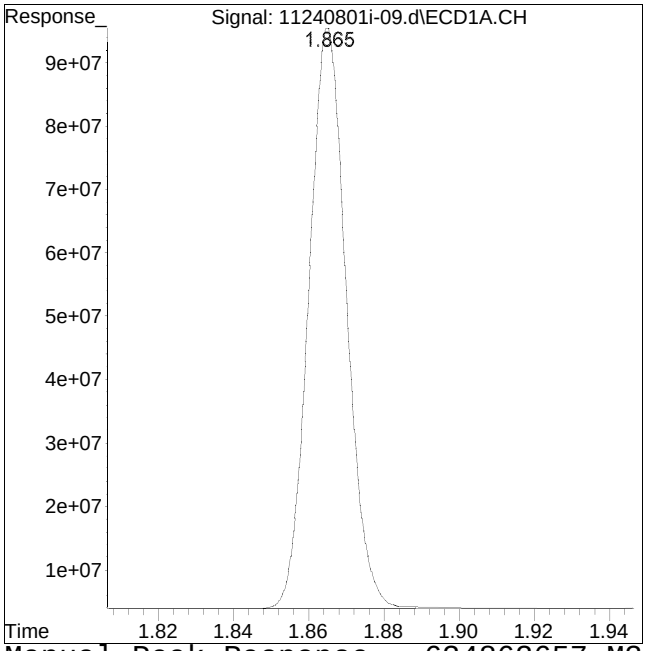
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #3: Hexachlorobenzene



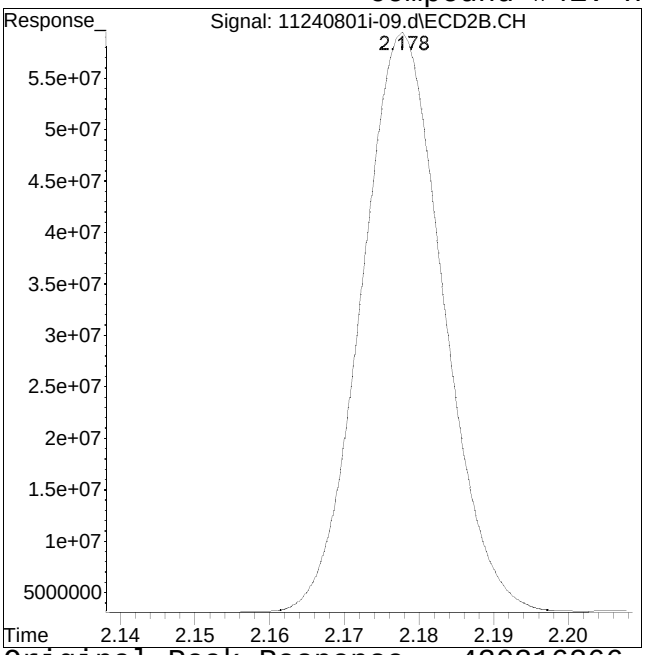


Original Peak Response = 652266128 Manual Peak Response = 634863657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

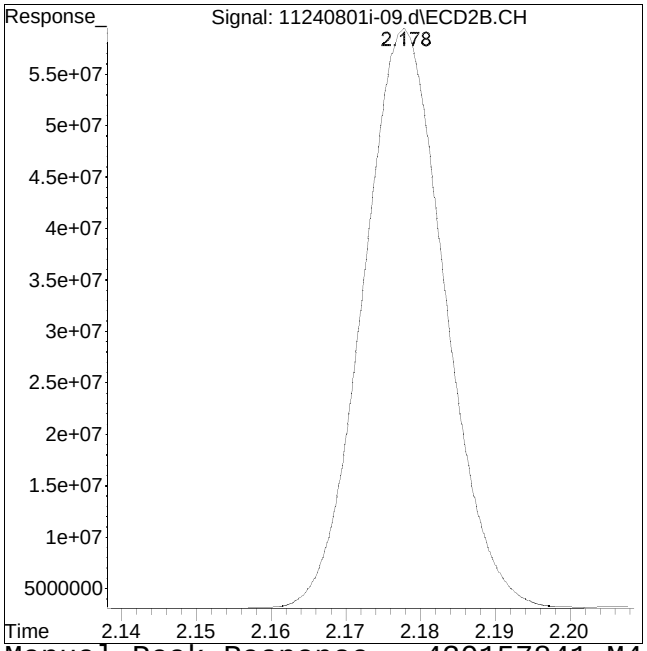
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 430316366



Manual Peak Response = 430157841 M4

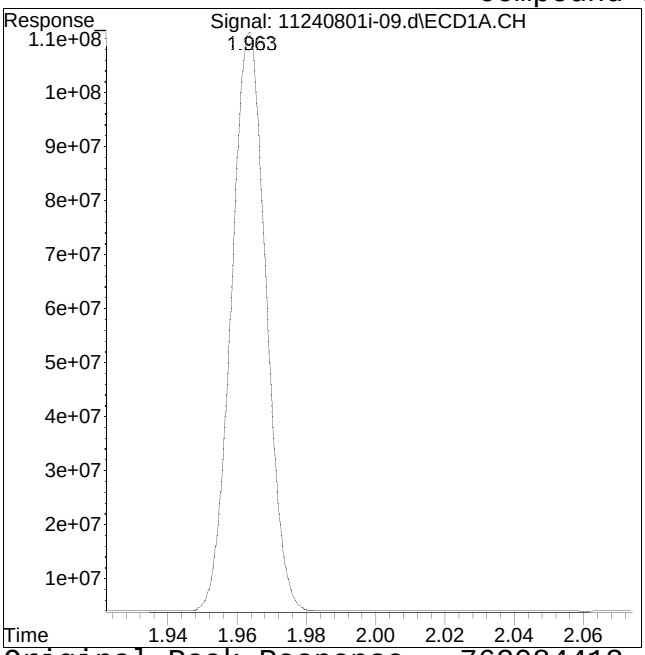
M4 = Poor automated baseline construction.

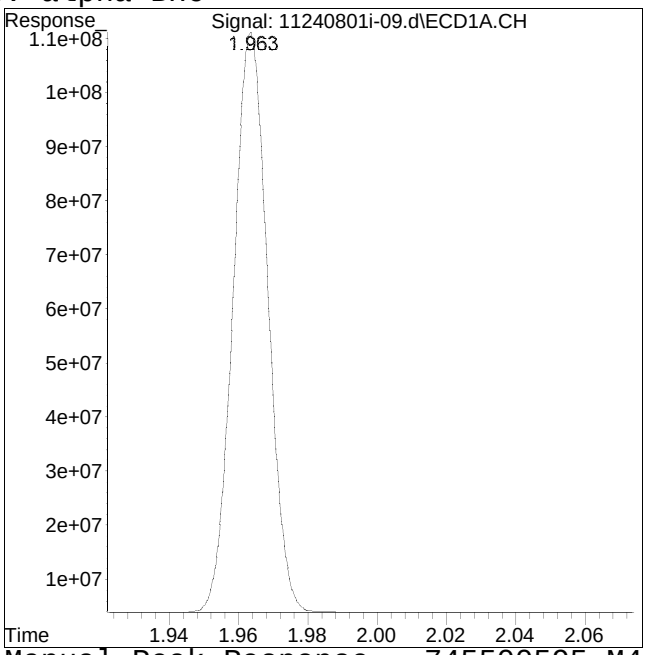
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #4: alpha-BHC



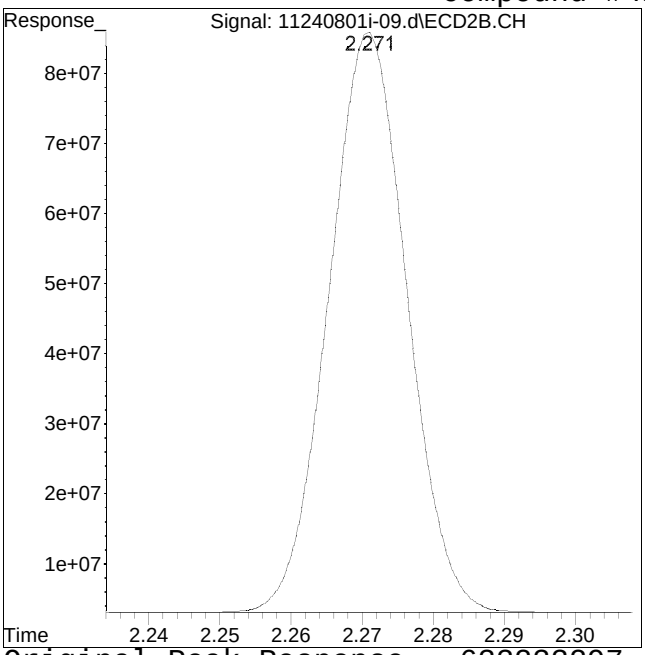


Original Peak Response = 762084413 Manual Peak Response = 745500595 M4
M4 = Poor automated baseline construction.

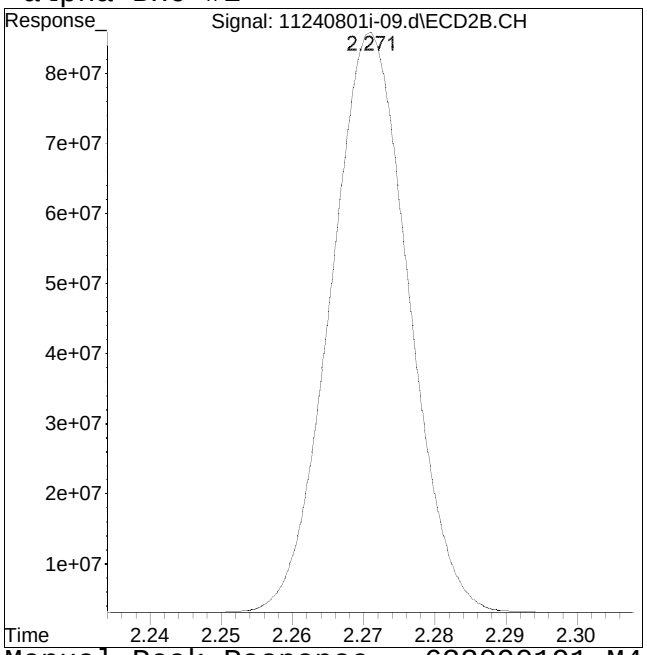
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #42: alpha-BHC #2



Original Peak Response = 633233297

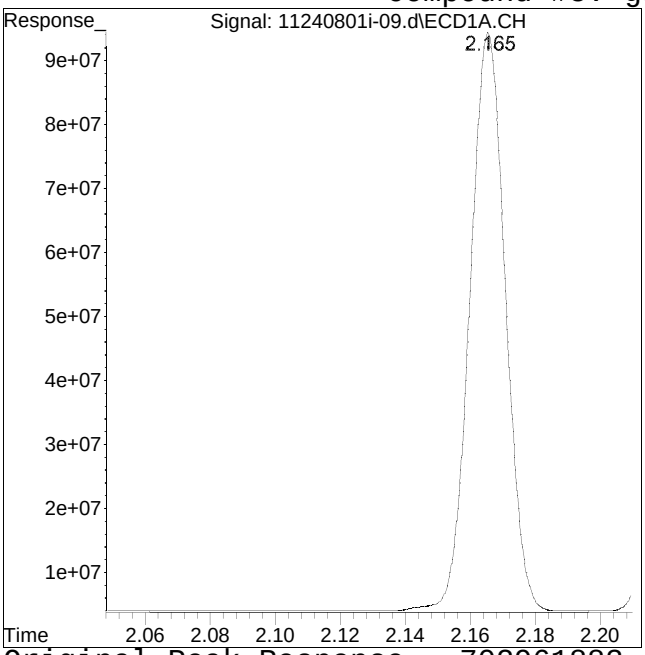


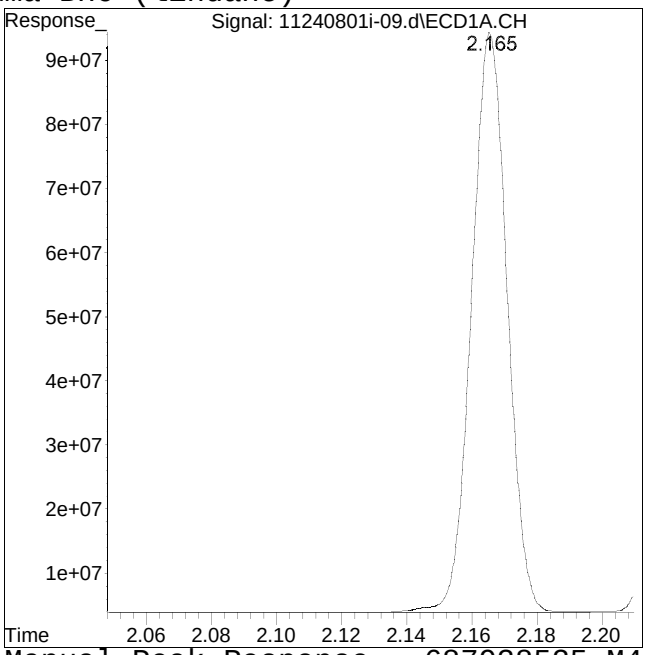
Manual Peak Response = 633090191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #5: gamma-BHC (lindane)





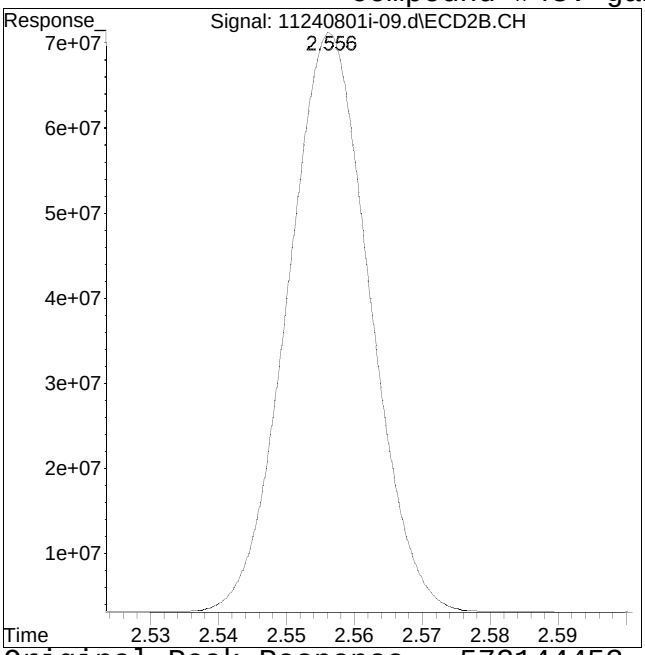
Original Peak Response = 702961883 Manual Peak Response = 687938525 M4
M4 = Poor automated baseline construction.

Manual Integration Report

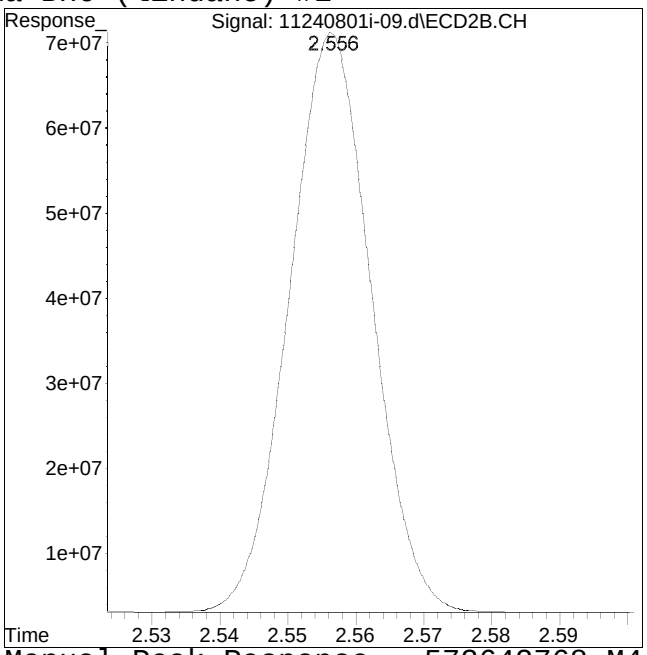
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 573144453



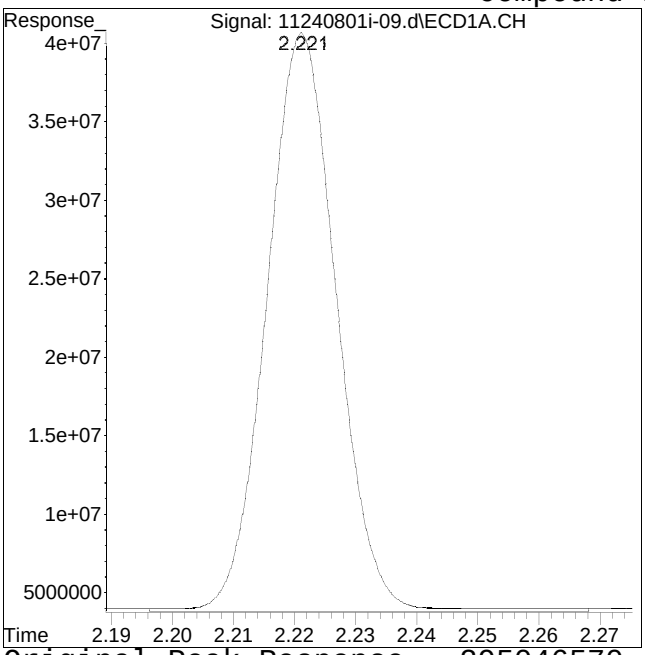
Manual Peak Response = 572642768 M4

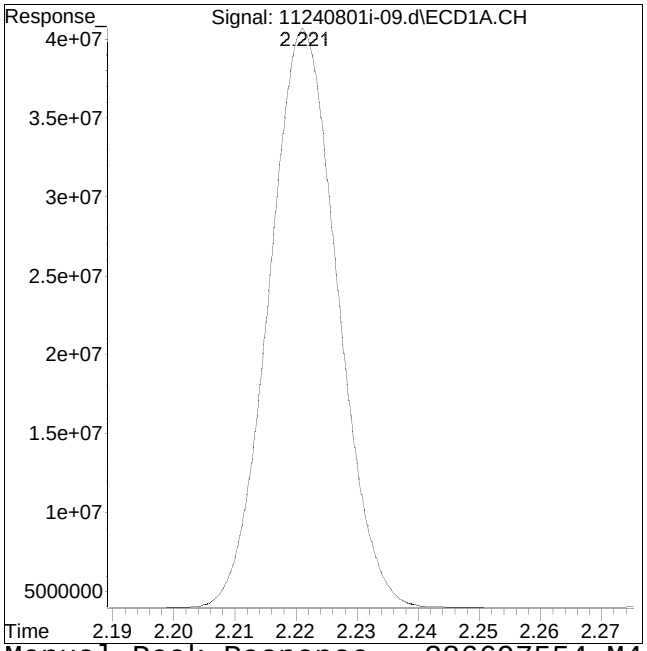
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #6: beta-BHC





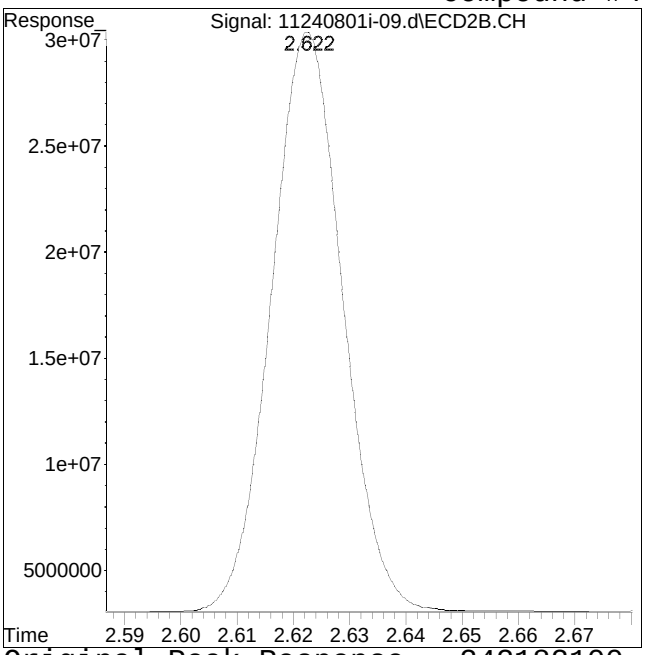
Original Peak Response = 295046570 Manual Peak Response = 286697554 M4
M4 = Poor automated baseline construction.

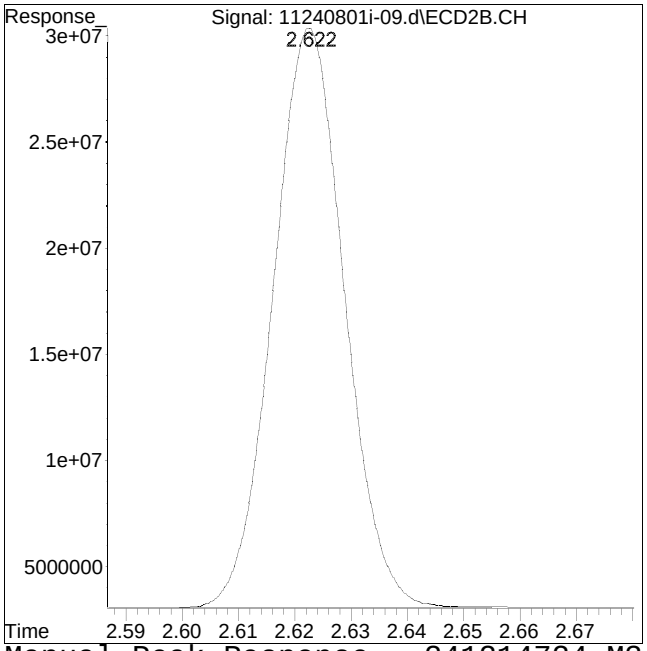
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #44: beta-BHC #2





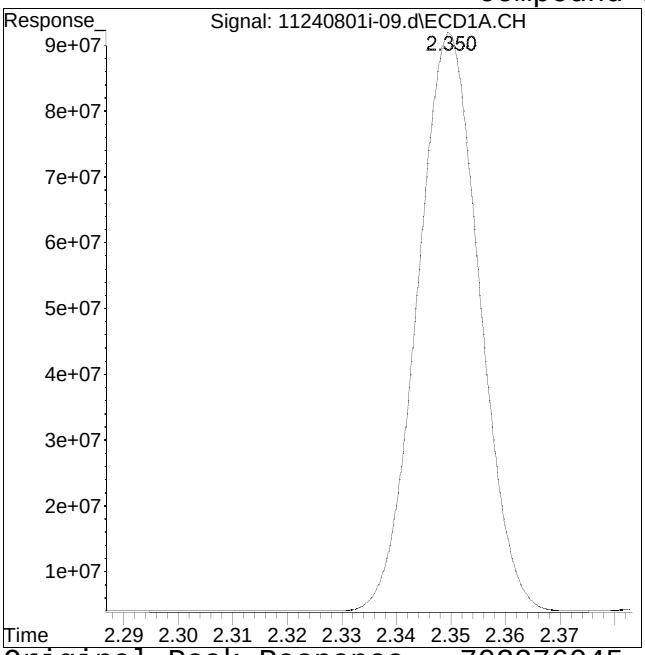
Original Peak Response = 242182100 Manual Peak Response = 241214724 M3

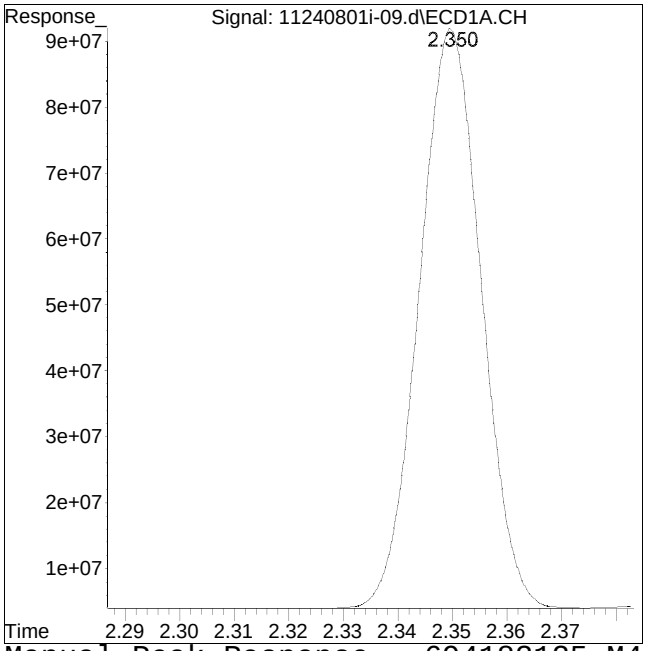
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #7: delta-BHC



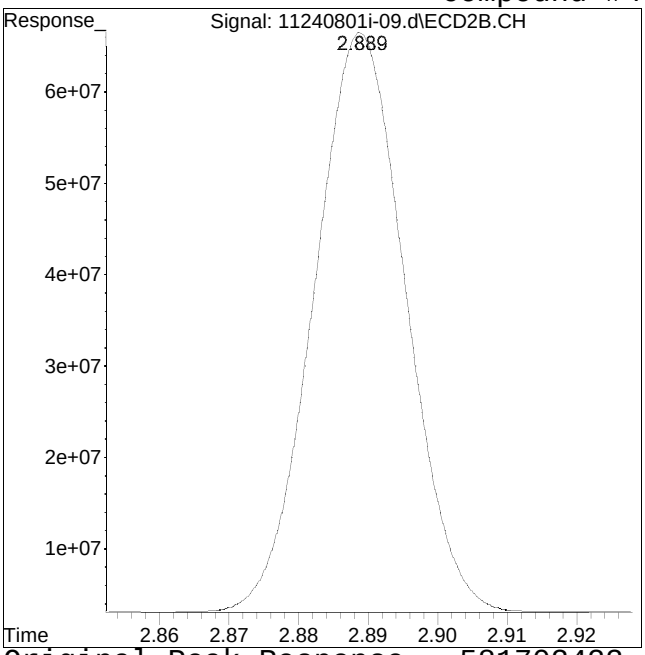


Original Peak Response = 703276045 Manual Peak Response = 694183125 M4
M4 = Poor automated baseline construction.

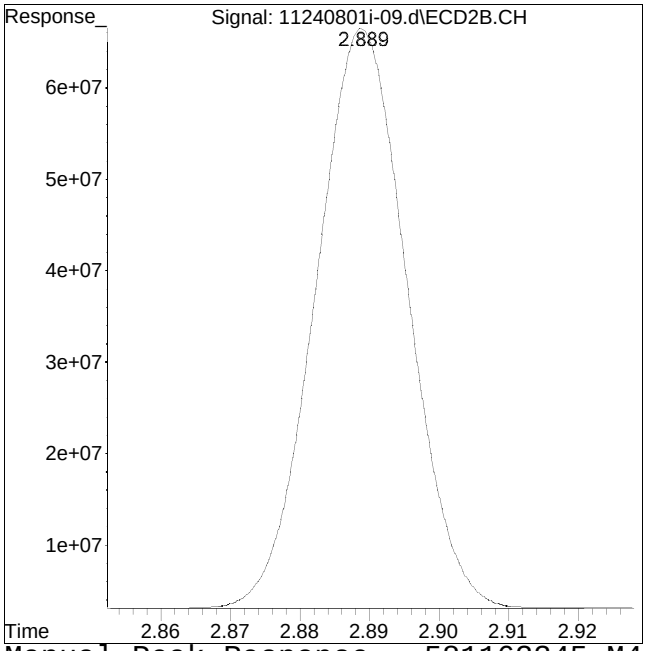
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #45: delta-BHC #2



Original Peak Response = 581702423



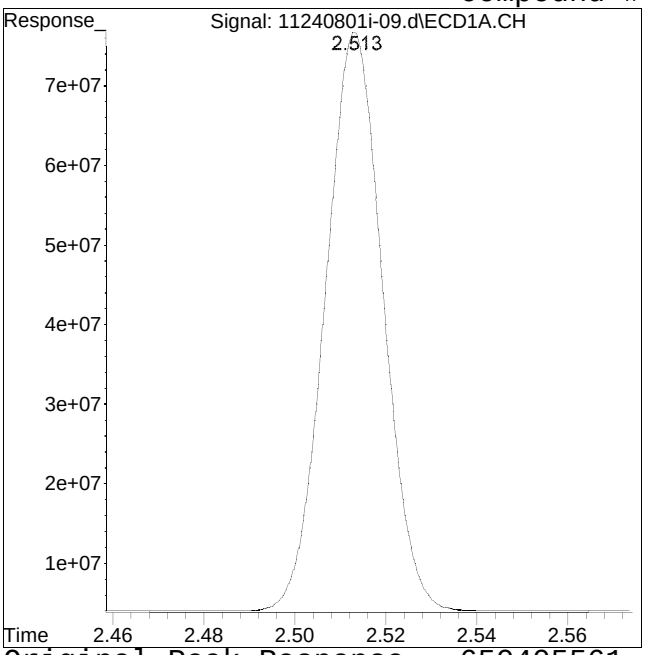
Manual Peak Response = 581163345 M4

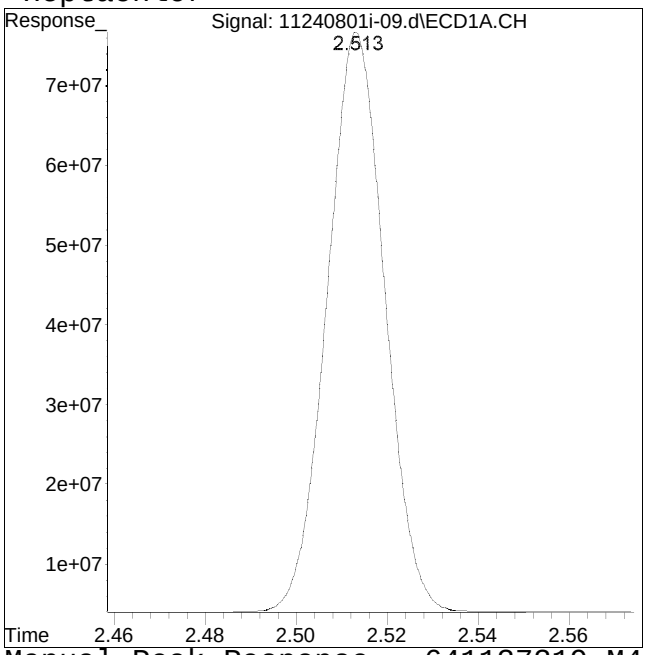
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #8: Heptachlor



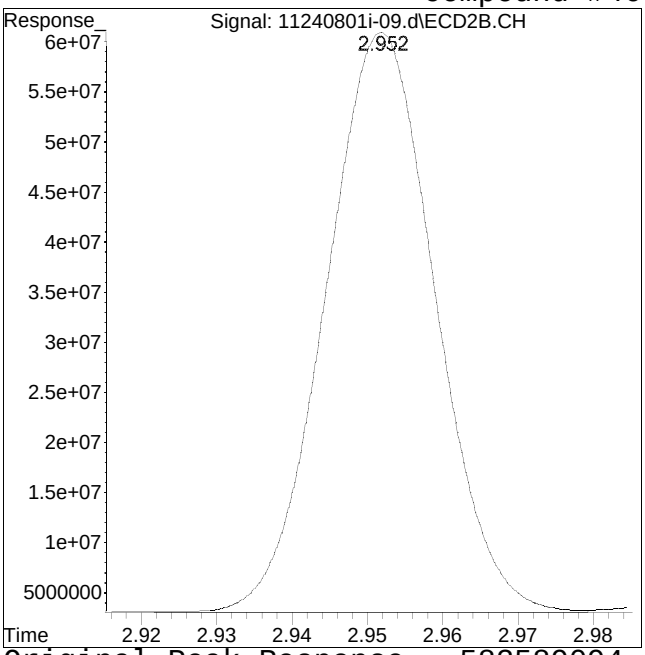


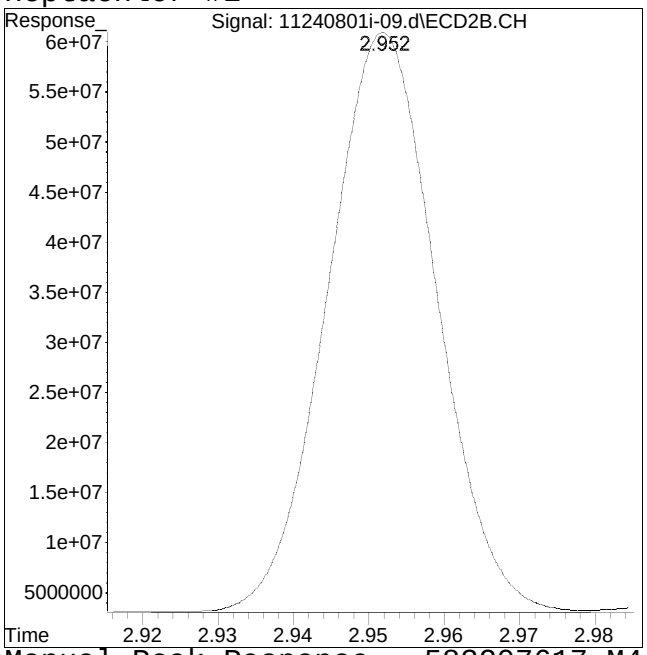
Original Peak Response = 650405561 Manual Peak Response = 641137319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #46: Heptachlor #2



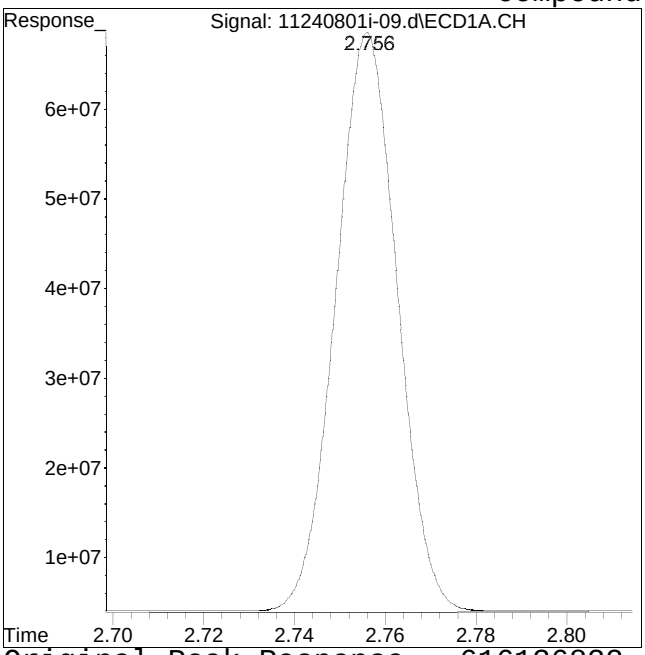


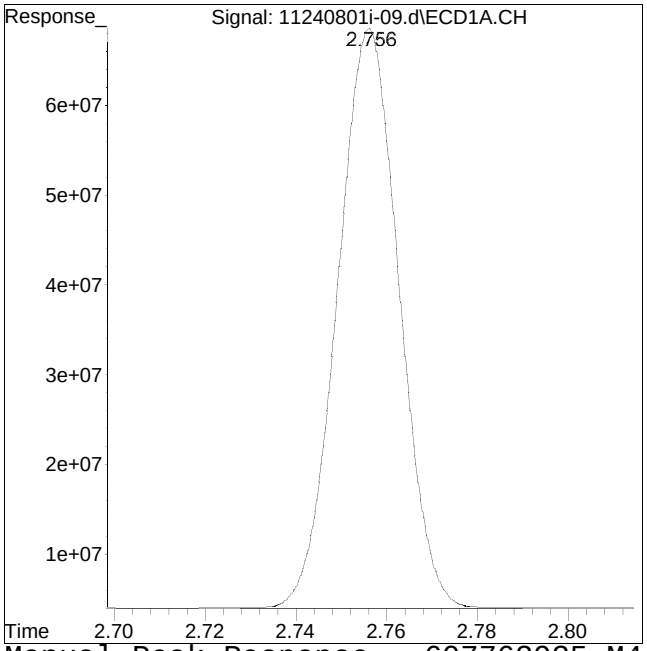
Original Peak Response = 583589094 Manual Peak Response = 583207617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #9: Aldrin



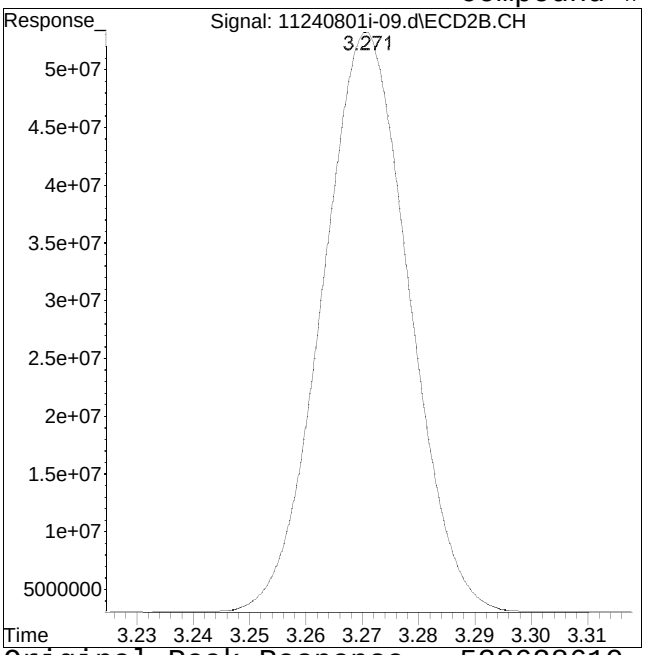


Original Peak Response = 616136822 Manual Peak Response = 607762935 M4
M4 = Poor automated baseline construction.

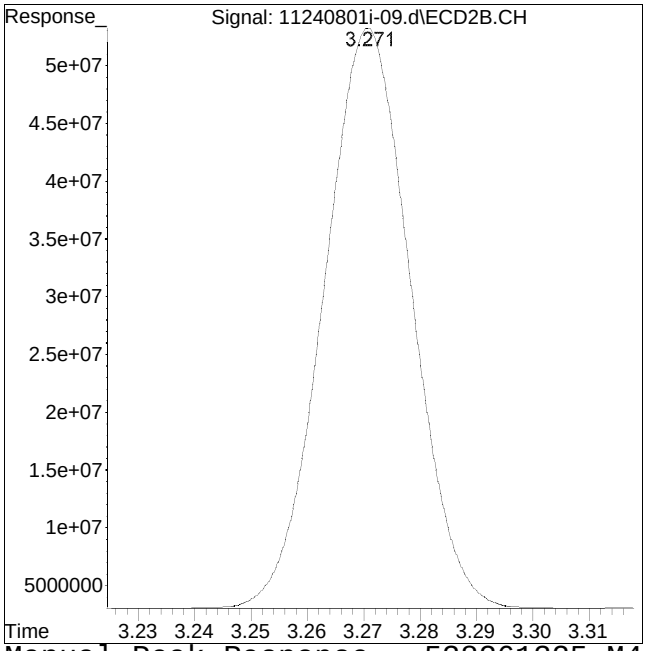
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #47: Aldrin #2



Original Peak Response = 538628610



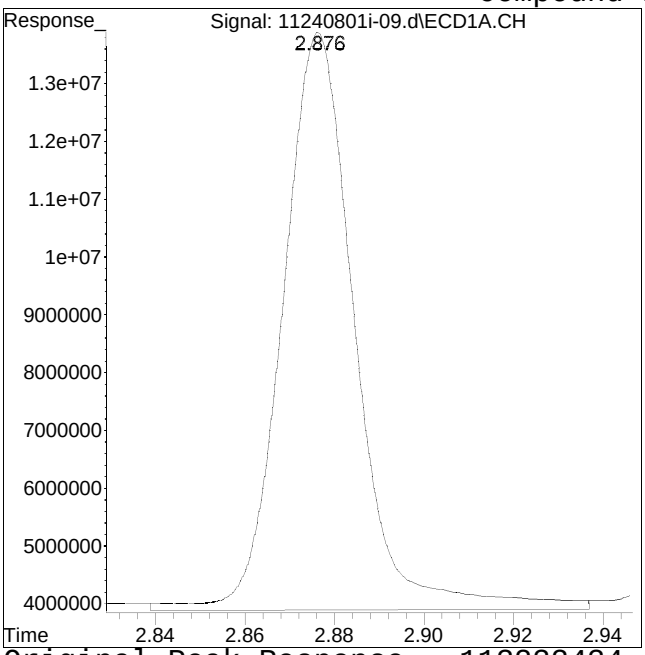
Manual Peak Response = 538261325 M4

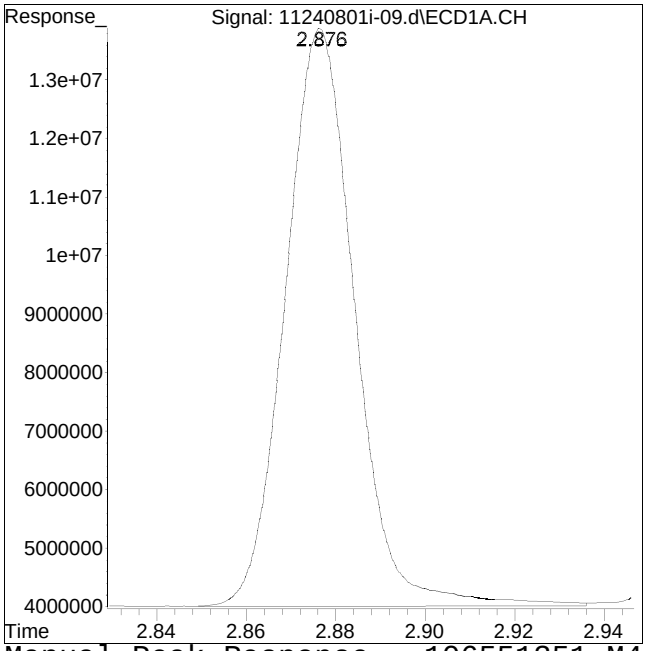
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #10: Alachlor



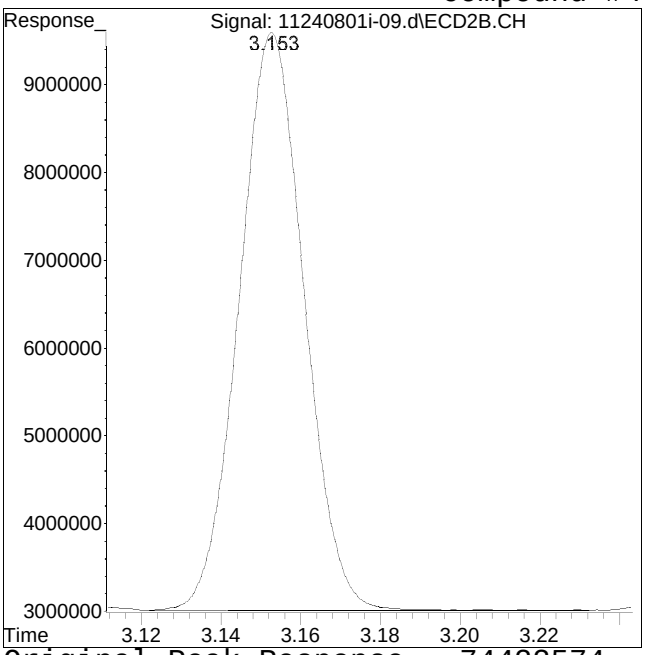


Original Peak Response = 113232434 Manual Peak Response = 106551351 M4
M4 = Poor automated baseline construction.

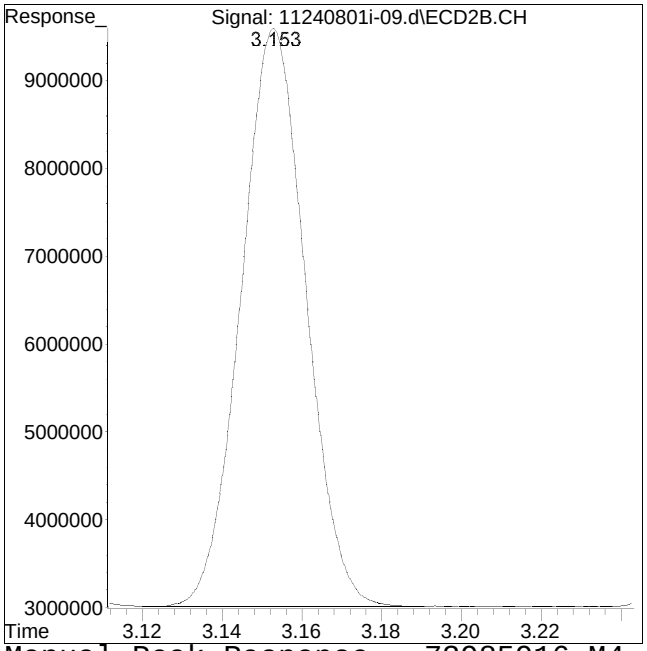
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #48: Alachlor #2



Original Peak Response = 74422574



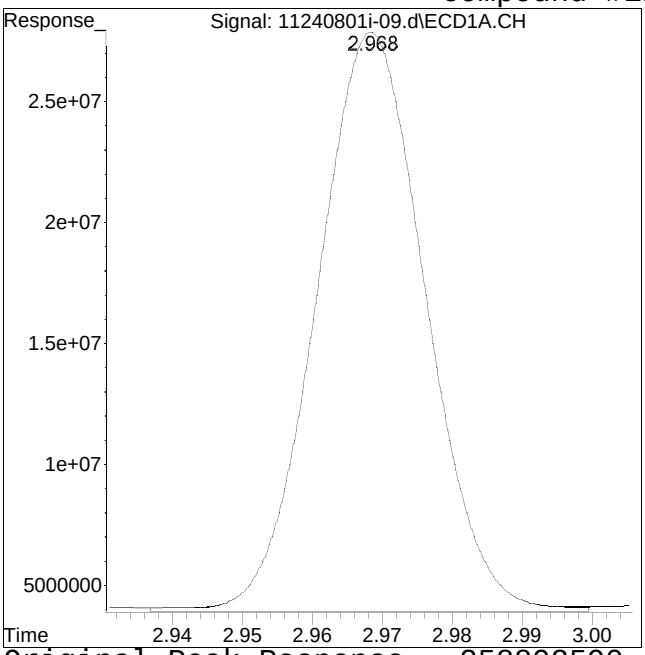
Manual Peak Response = 73985916 M4

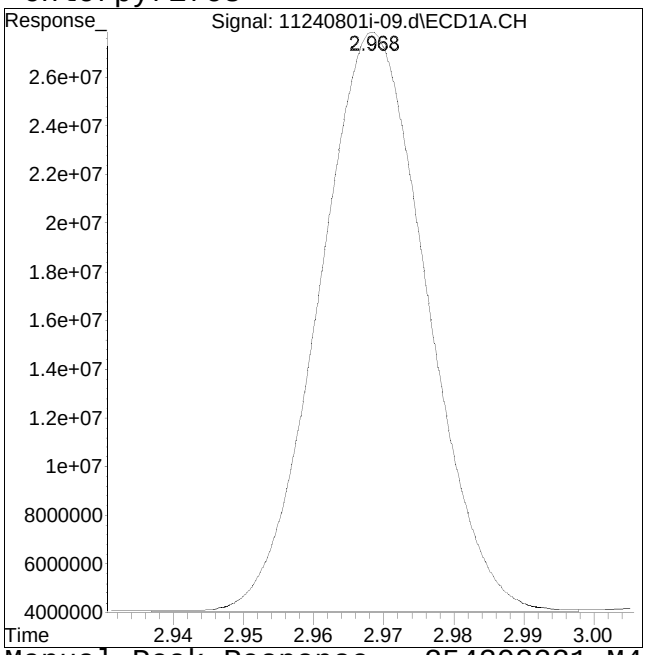
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #11: Chlorpyrifos



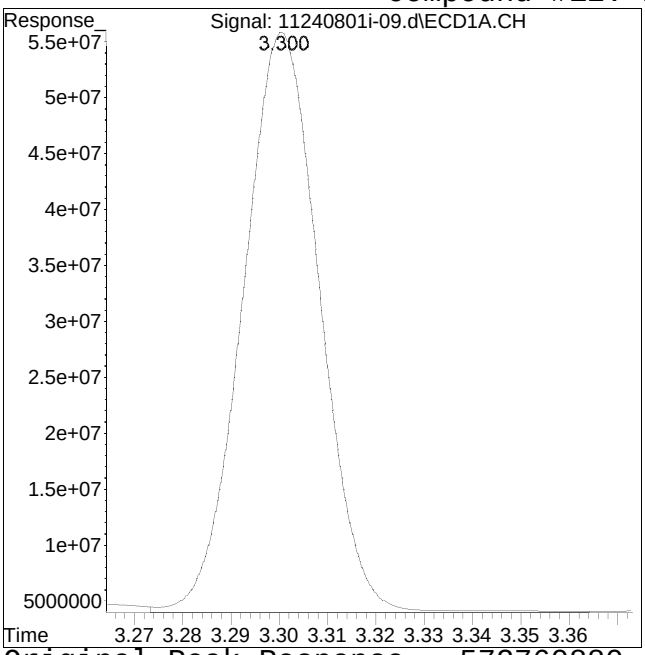


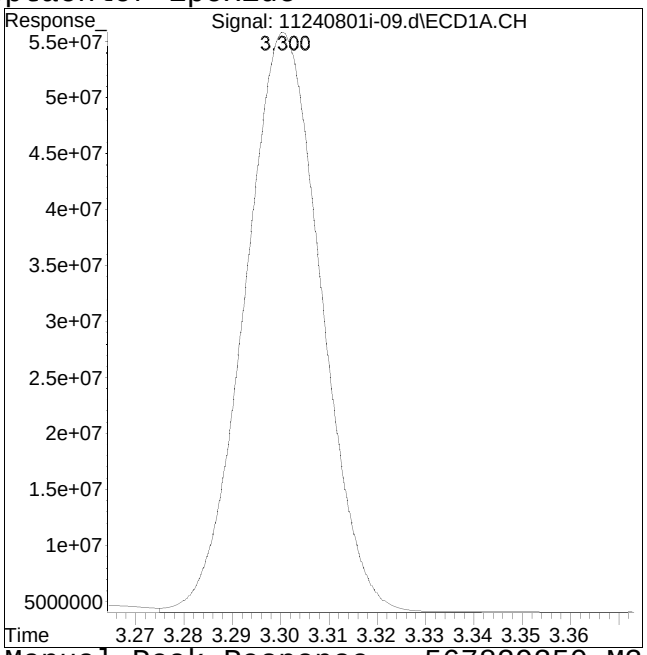
Original Peak Response = 258892590 Manual Peak Response = 254302221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #12: Heptachlor Epoxide



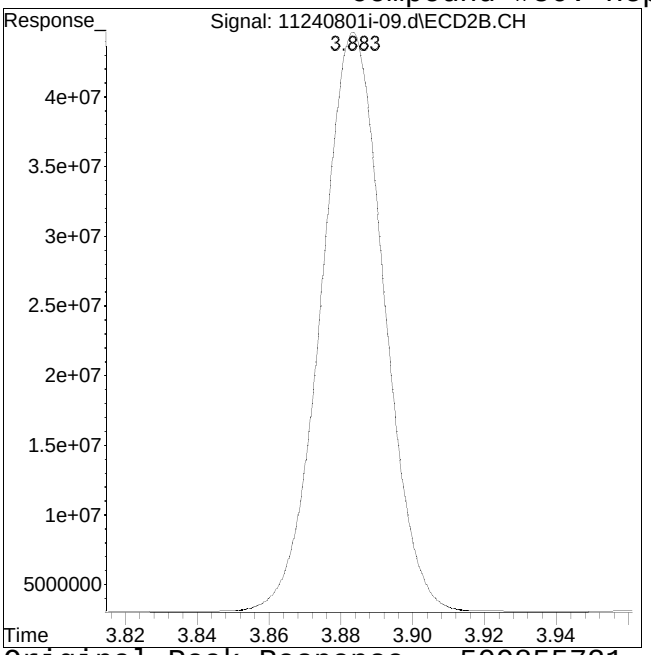


Original Peak Response = 572760880 Manual Peak Response = 567829350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

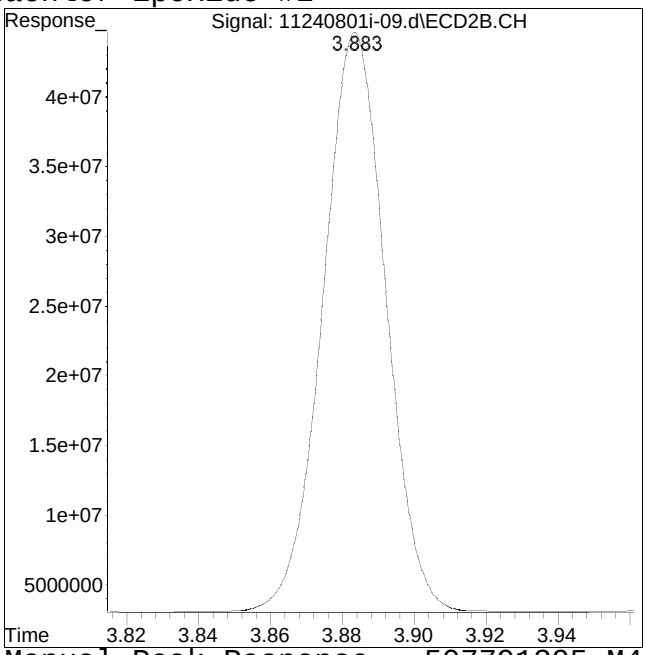
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 509855721



Manual Peak Response = 507791395 M4

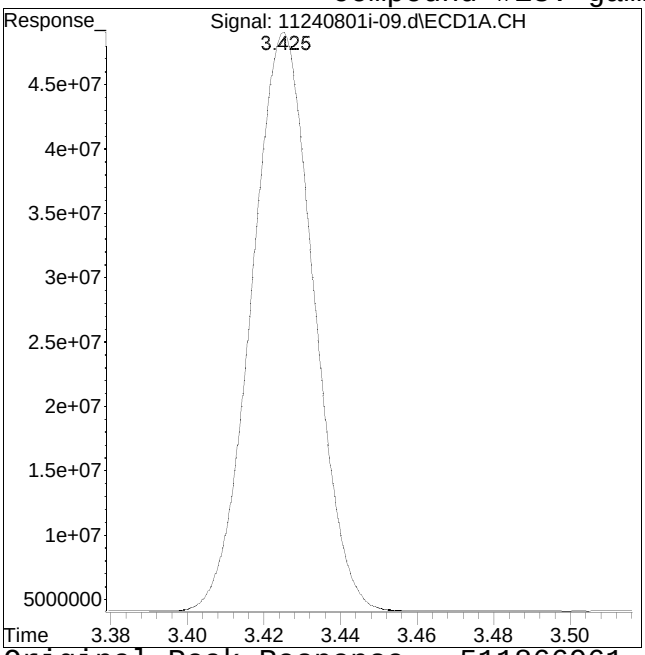
M4 = Poor automated baseline construction.

Manual Integration Report

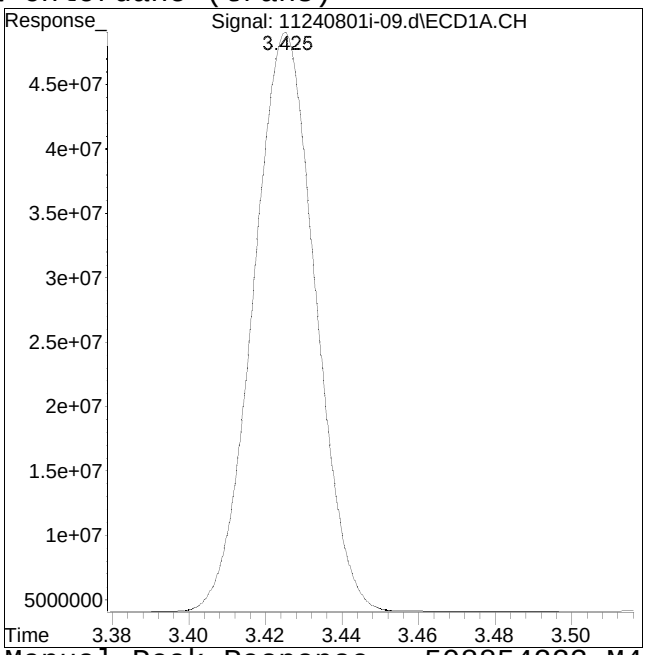
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 511866961



Manual Peak Response = 508854223 M4

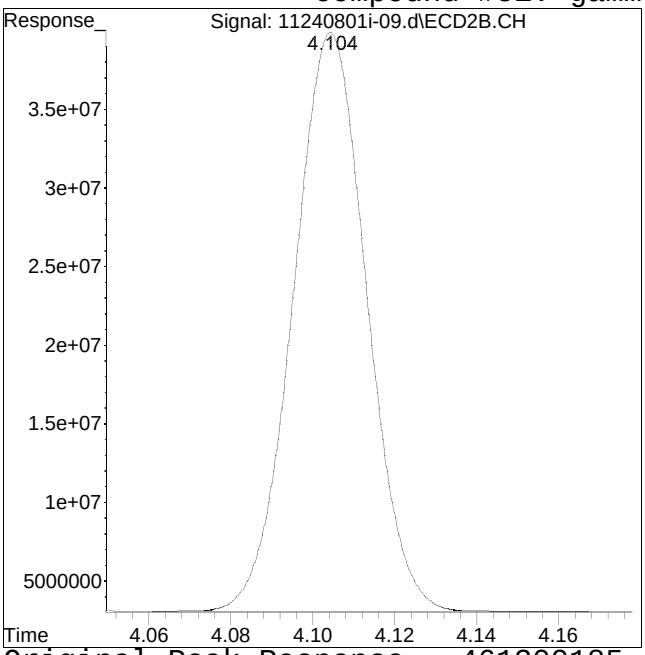
M4 = Poor automated baseline construction.

Manual Integration Report

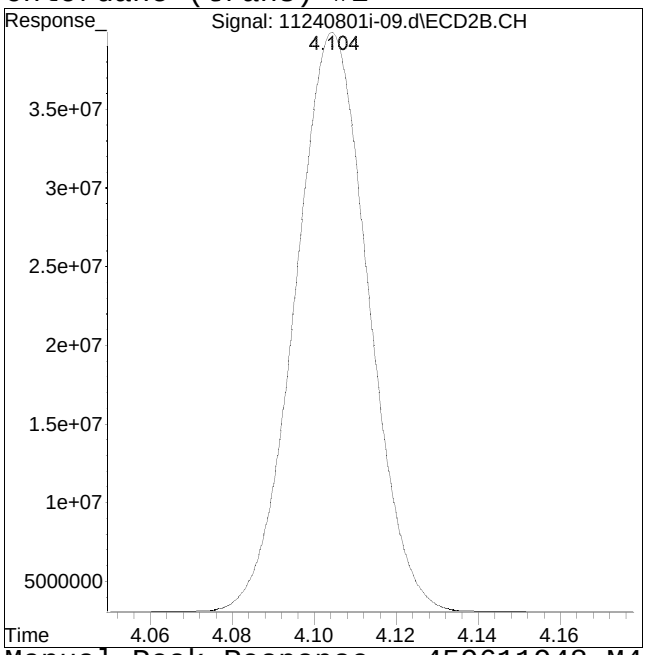
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 461300185



Manual Peak Response = 459611948 M4

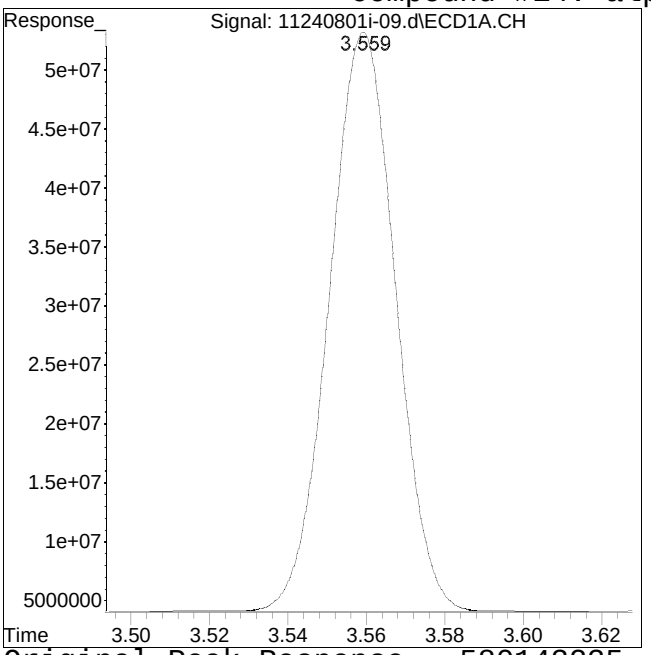
M4 = Poor automated baseline construction.

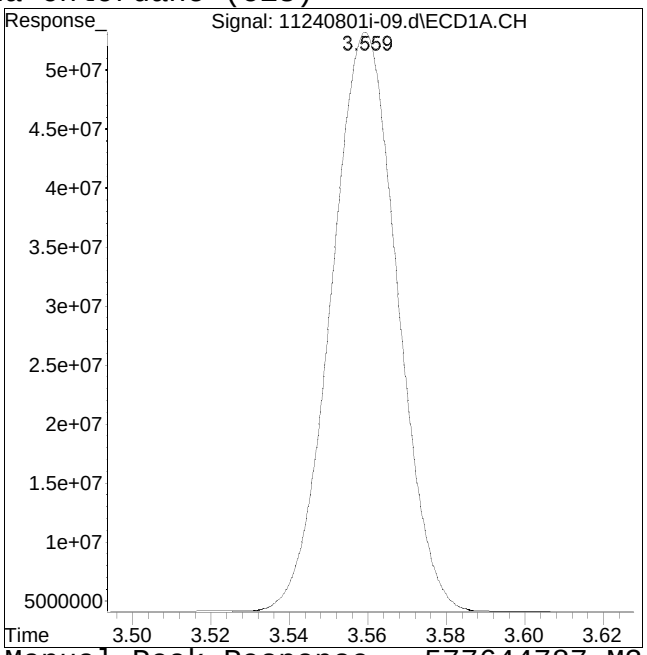
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #14: alpha-Chlordane (cis)





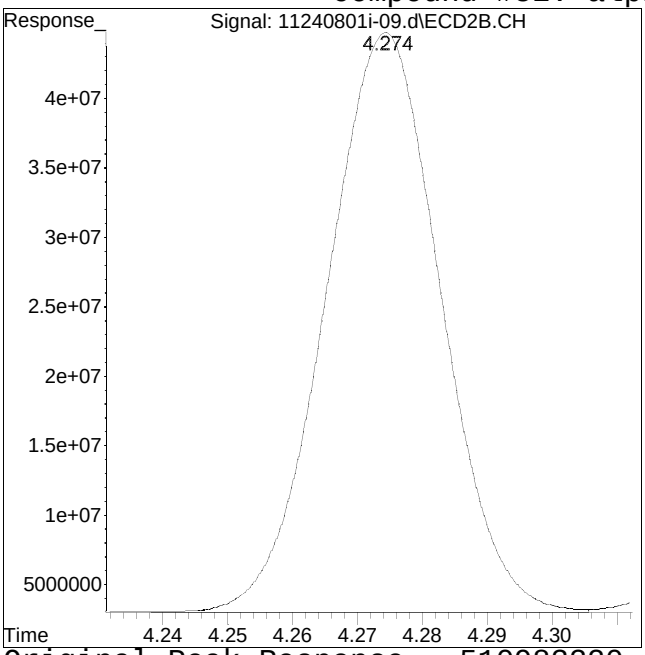
Original Peak Response = 580143235 Manual Peak Response = 577644787 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

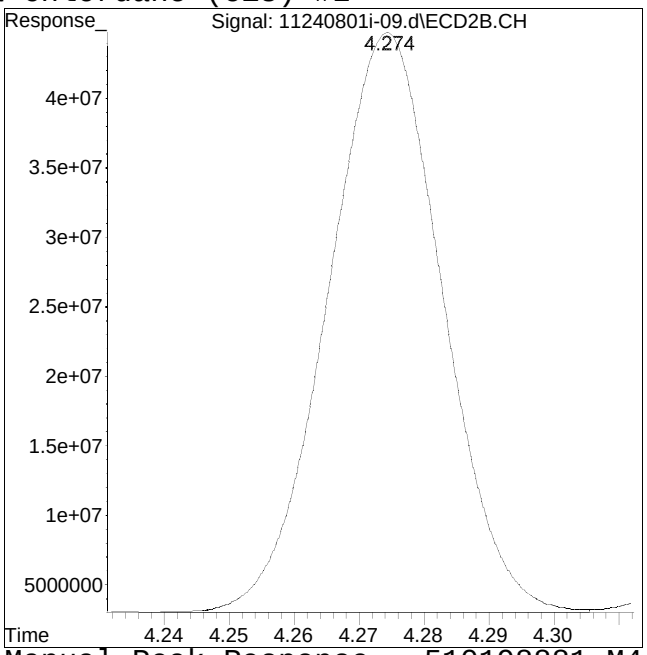
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 510983320



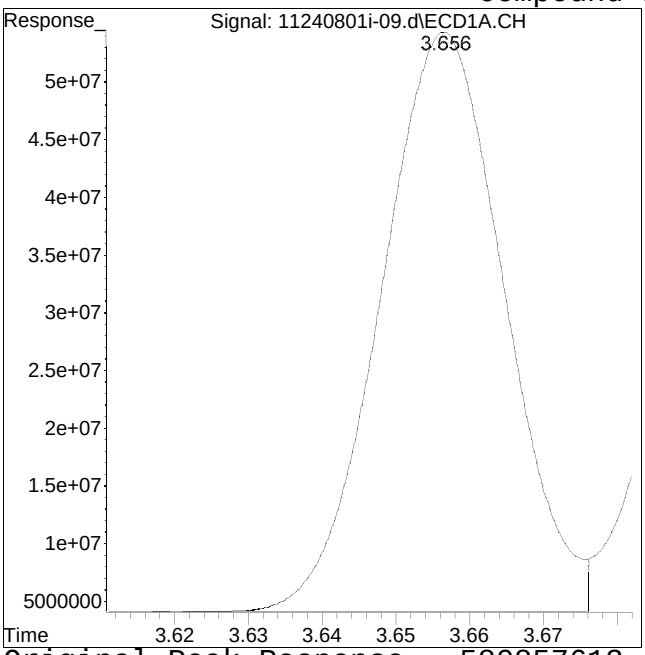
Manual Peak Response = 510198881 M4

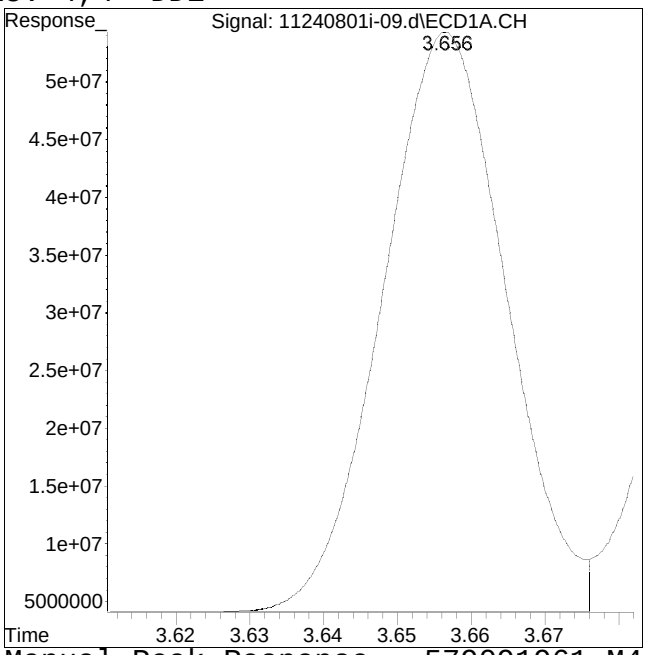
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #15: 4,4'-DDE



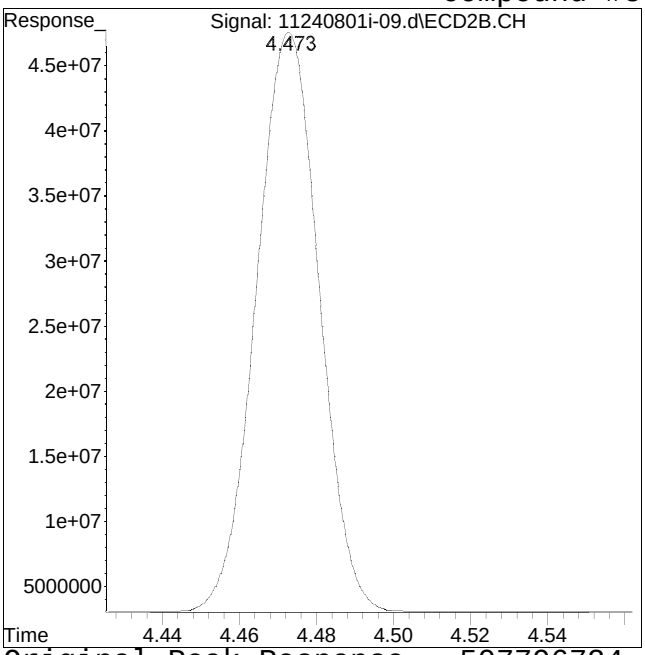


Original Peak Response = 580857613 Manual Peak Response = 579091961 M4
M4 = Poor automated baseline construction.

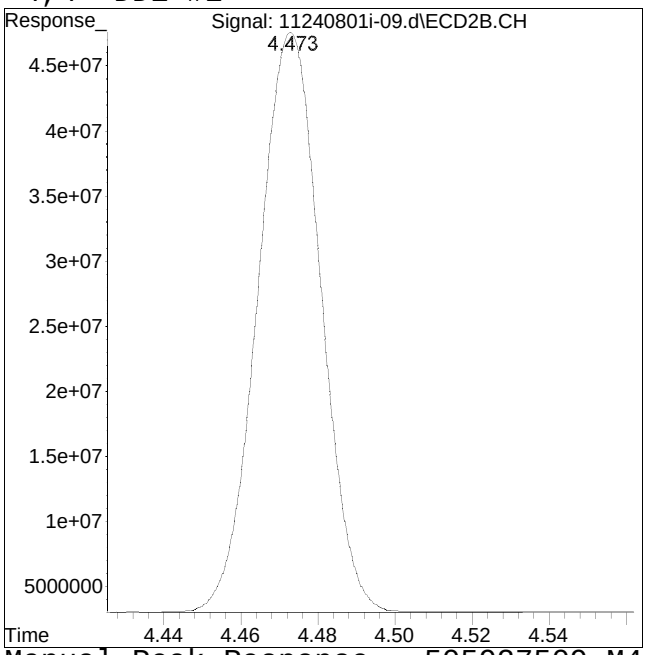
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 507796724



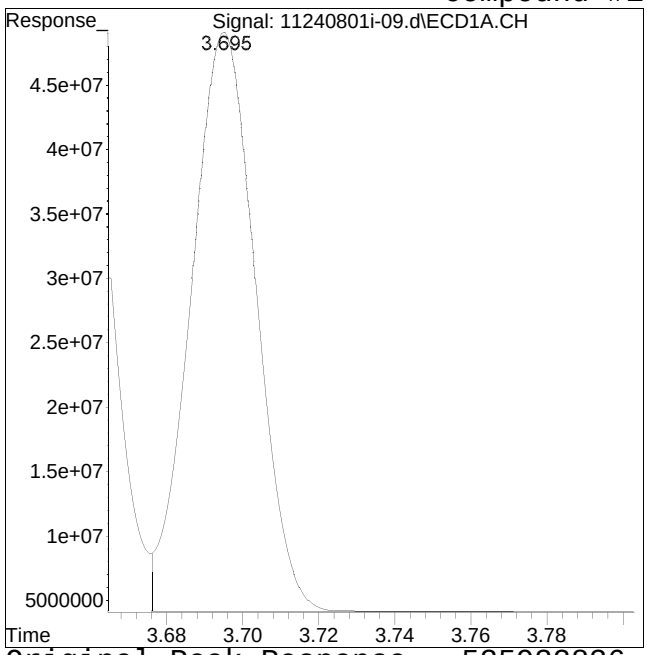
Manual Peak Response = 505927509 M4

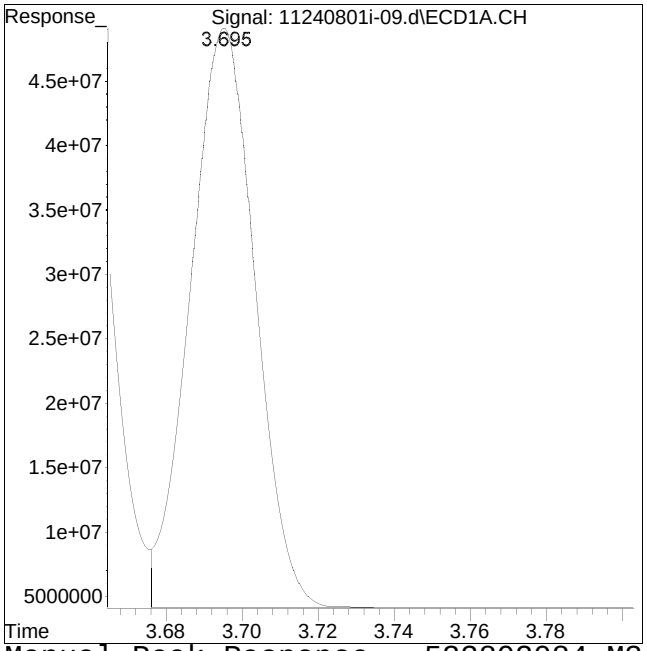
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #16: Endosulfan I



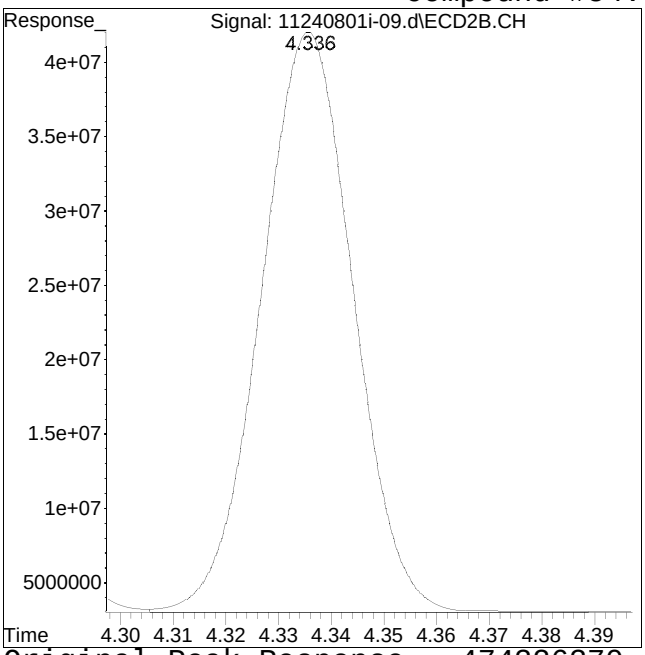


Original Peak Response = 535932836 Manual Peak Response = 533803084 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

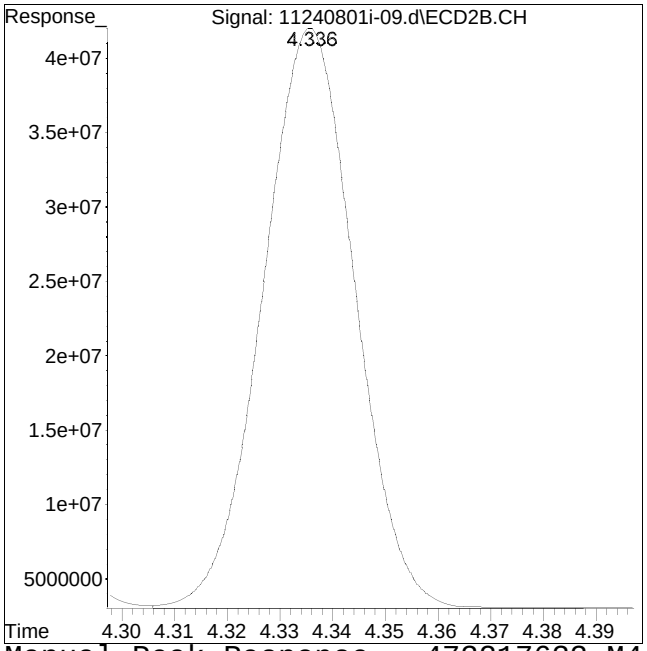
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #54: Endosulfan I #2



Original Peak Response = 474326370



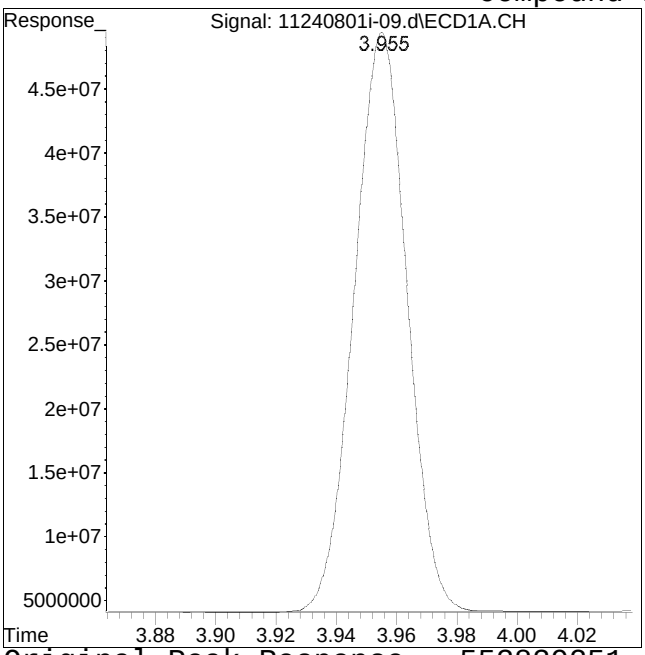
Manual Peak Response = 473217633 M4

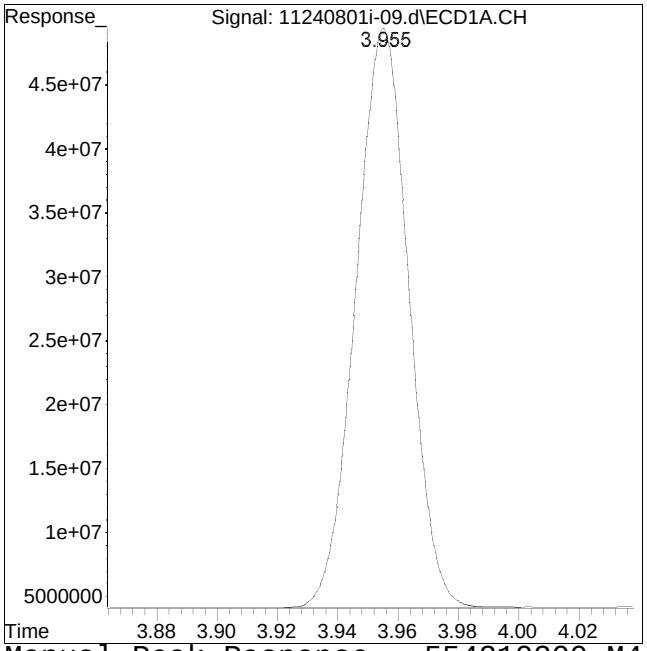
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #17: Dieldrin



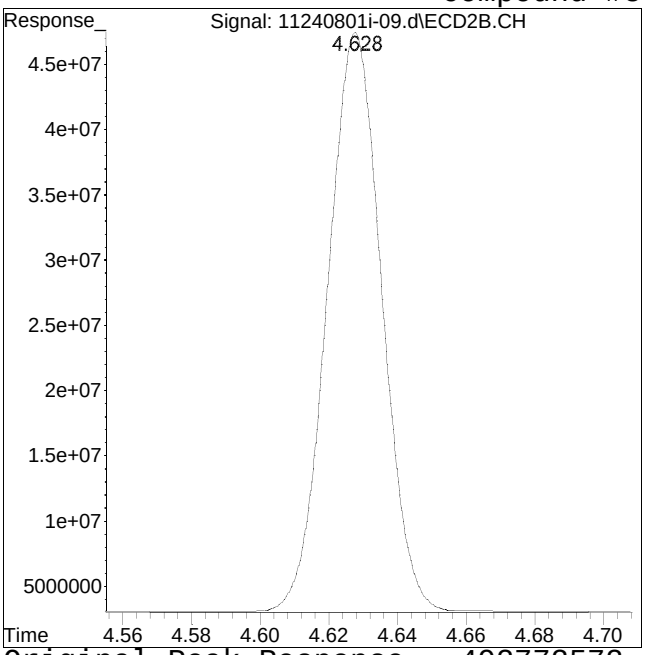


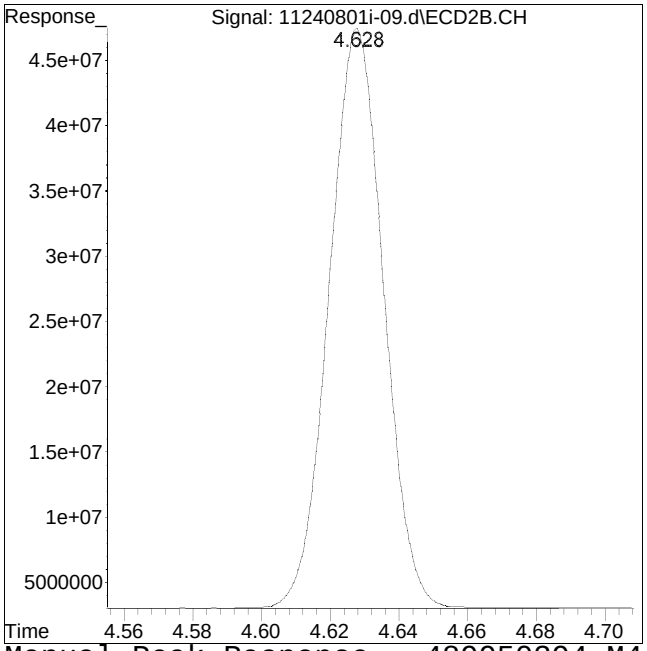
Original Peak Response = 553839251 Manual Peak Response = 554210200 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #55: Dieldrin #2



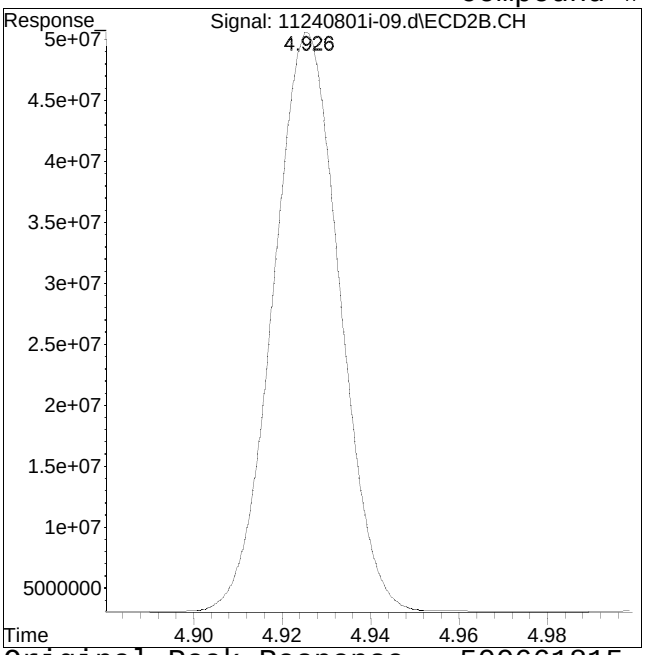


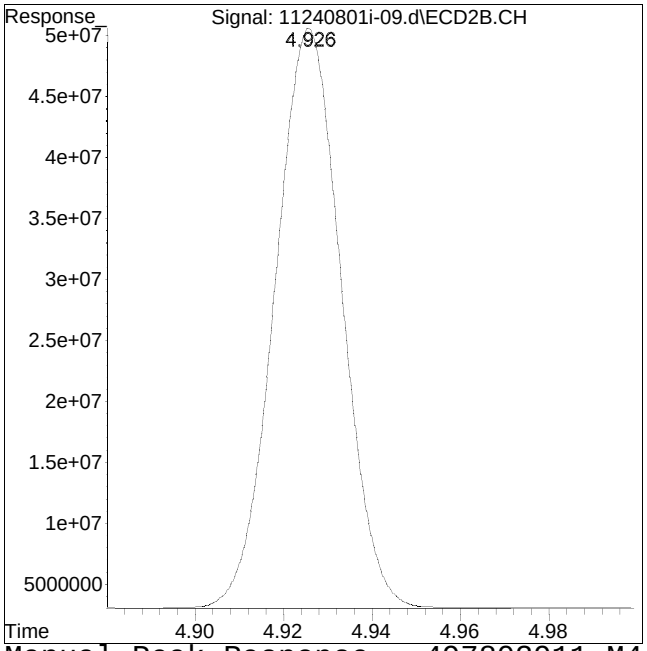
Original Peak Response = 492772572 Manual Peak Response = 489950394 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #56: Endrin #2



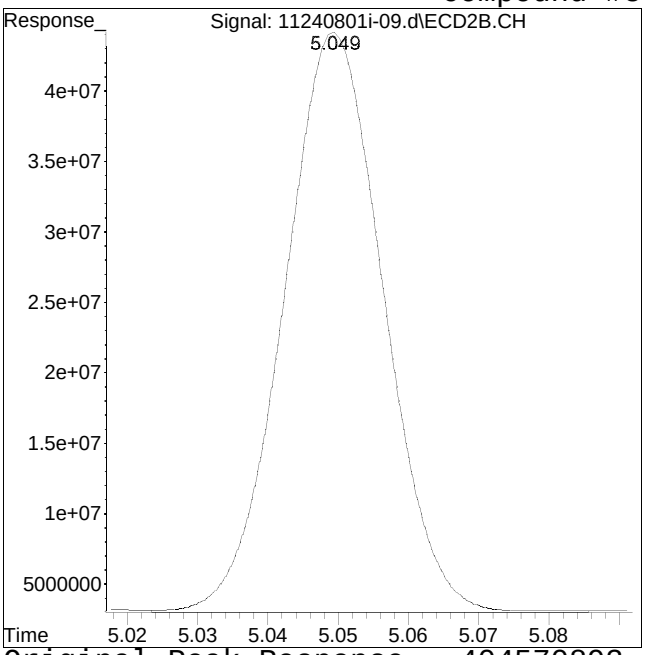


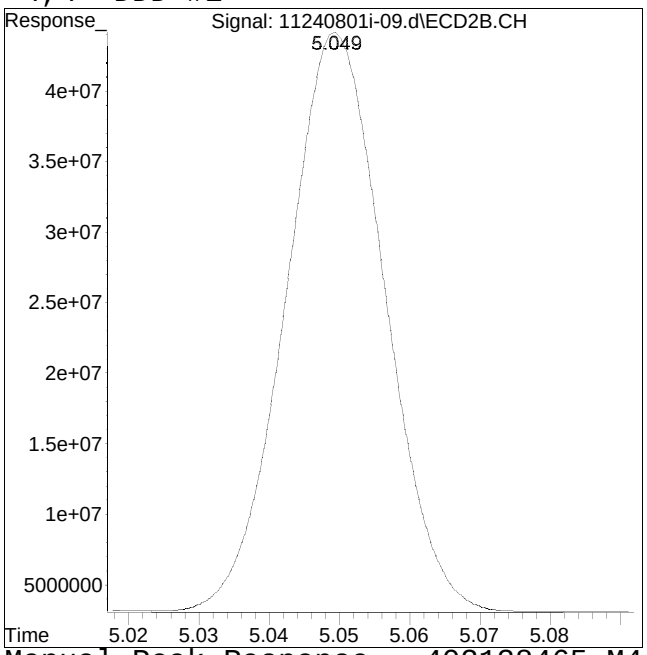
Original Peak Response = 500661815 Manual Peak Response = 497803911 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #57: 4,4'-DDD #2



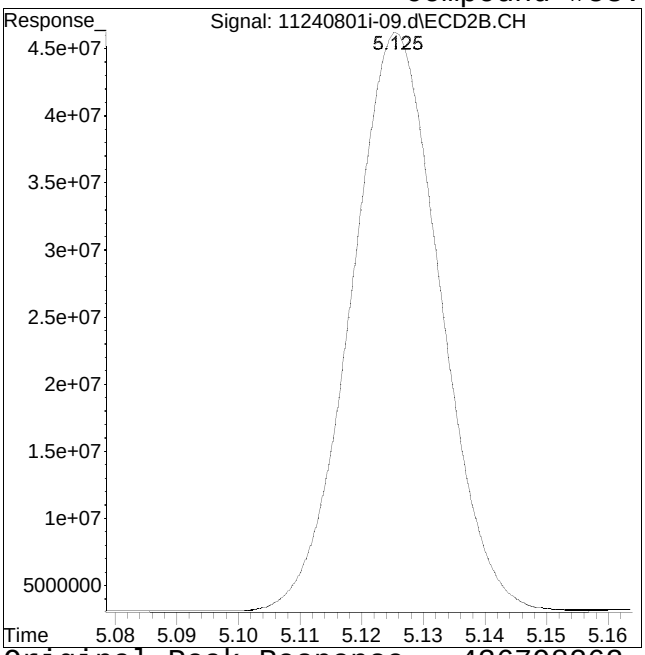


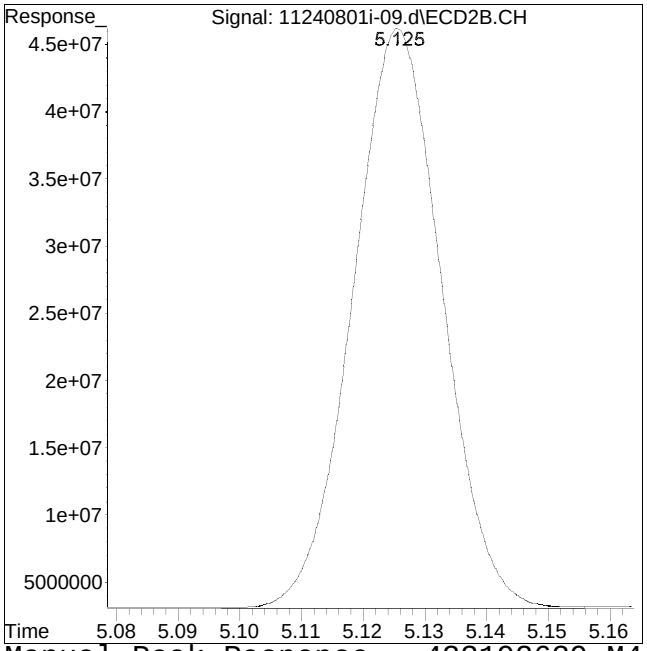
Original Peak Response = 404570893 Manual Peak Response = 402138465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #58: Endosulfan II #2





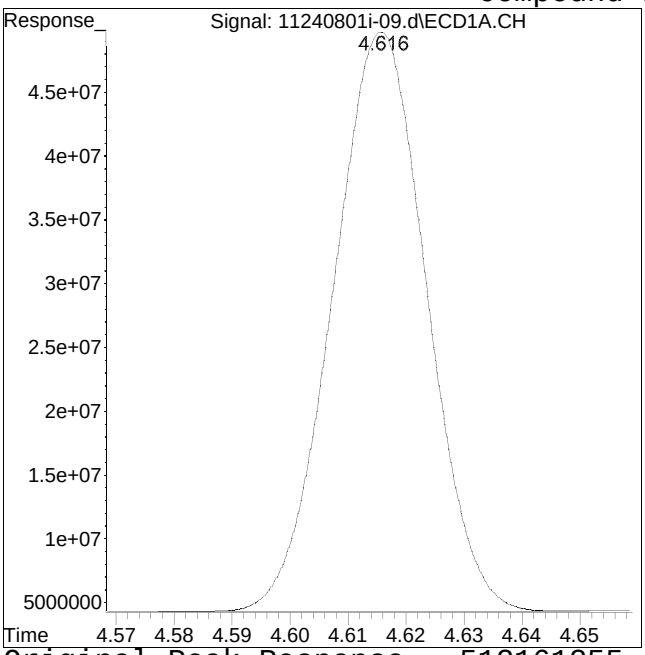
Original Peak Response = 436798262 Manual Peak Response = 433192639 M4
M4 = Poor automated baseline construction.

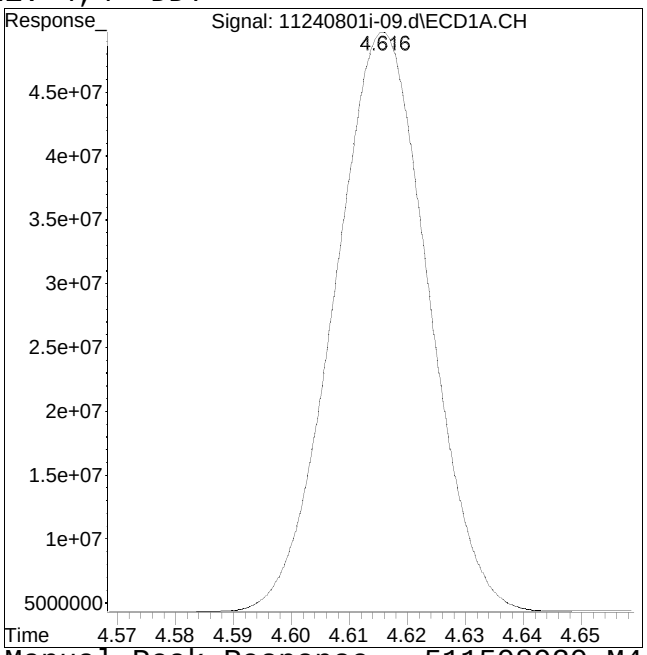
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #21: 4,4'-DDT



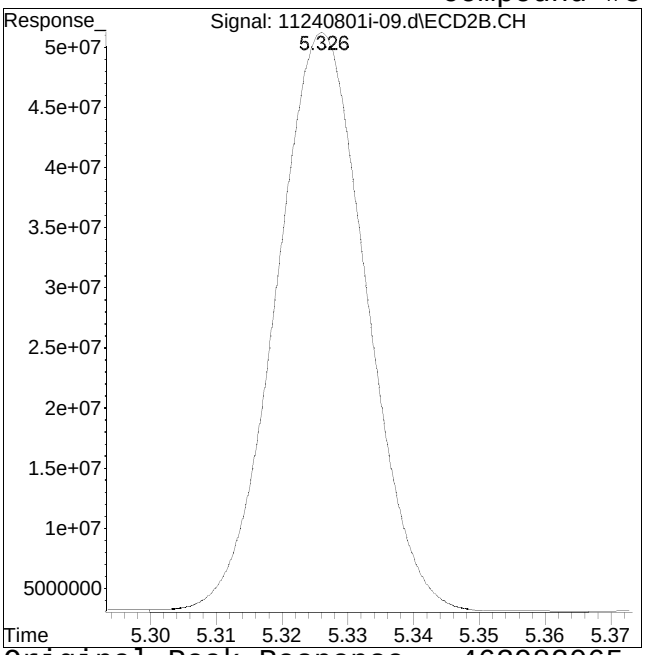


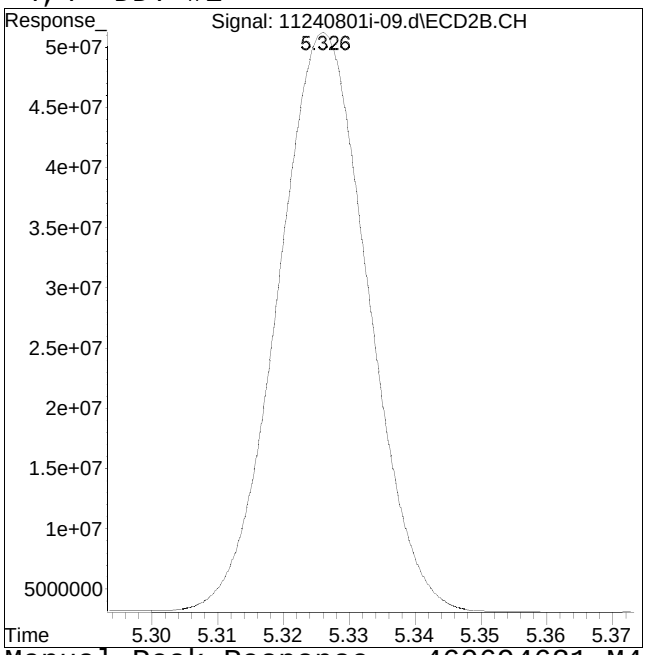
Original Peak Response = 512161255 Manual Peak Response = 511508920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #59: 4,4'-DDT #2





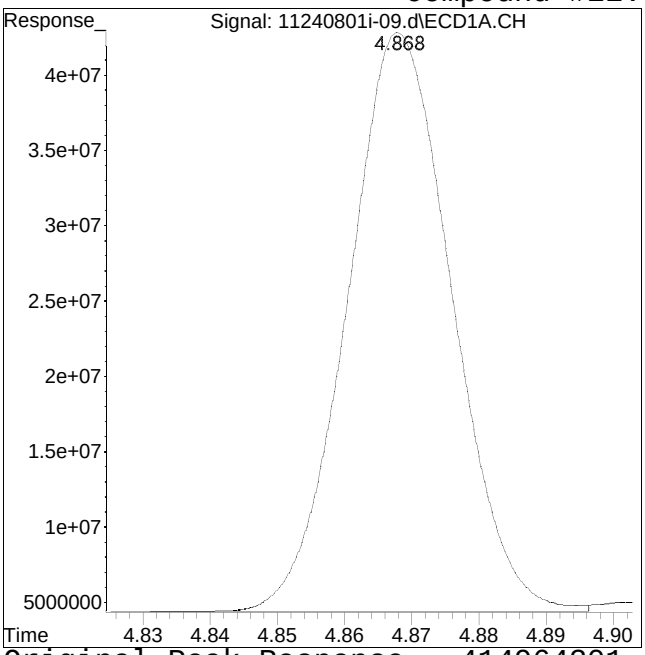
Original Peak Response = 463982065 Manual Peak Response = 460694621 M4
M4 = Poor automated baseline construction.

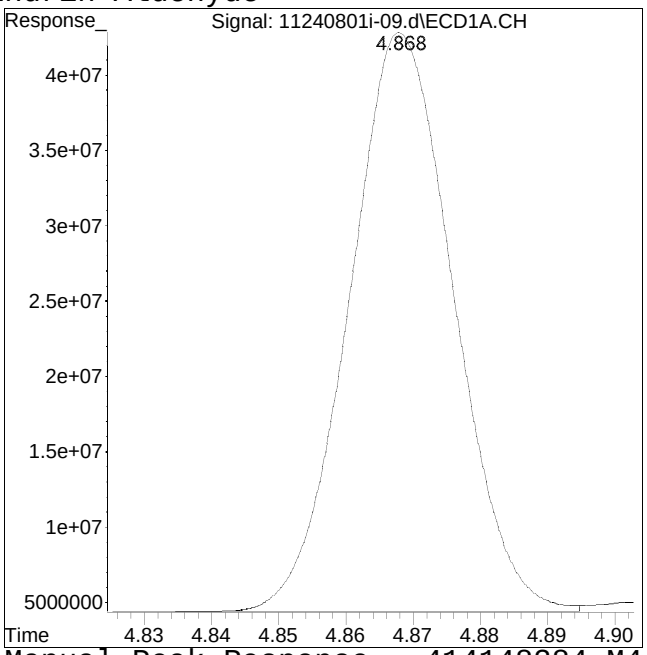
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #22: Endrin Aldehyde



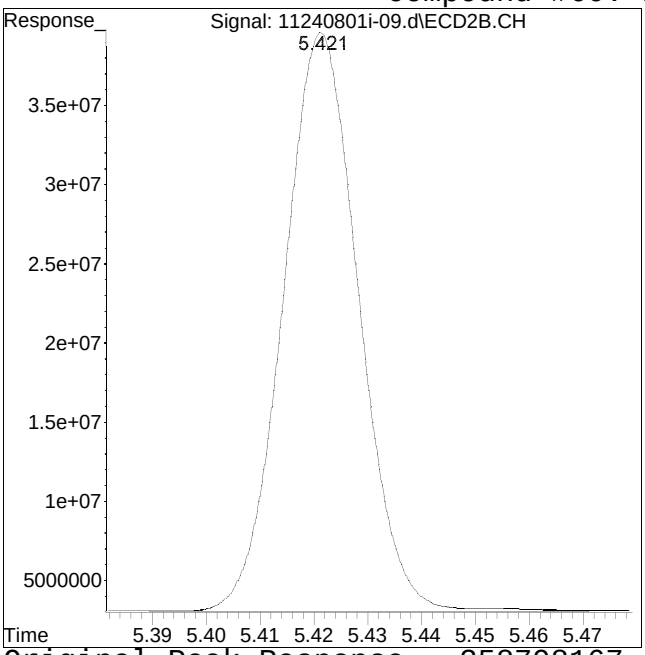


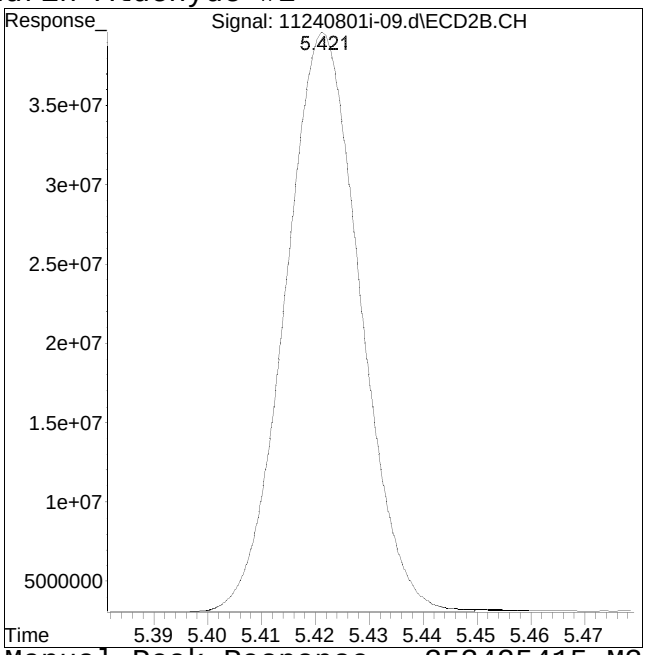
Original Peak Response = 414964301 Manual Peak Response = 414148384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #60: Endrin Aldehyde #2





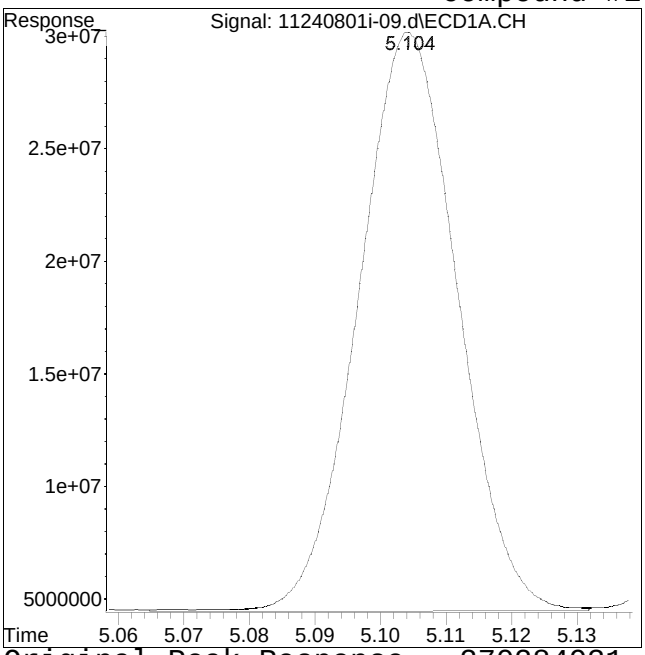
Original Peak Response = 358798167 Manual Peak Response = 353425415 M3

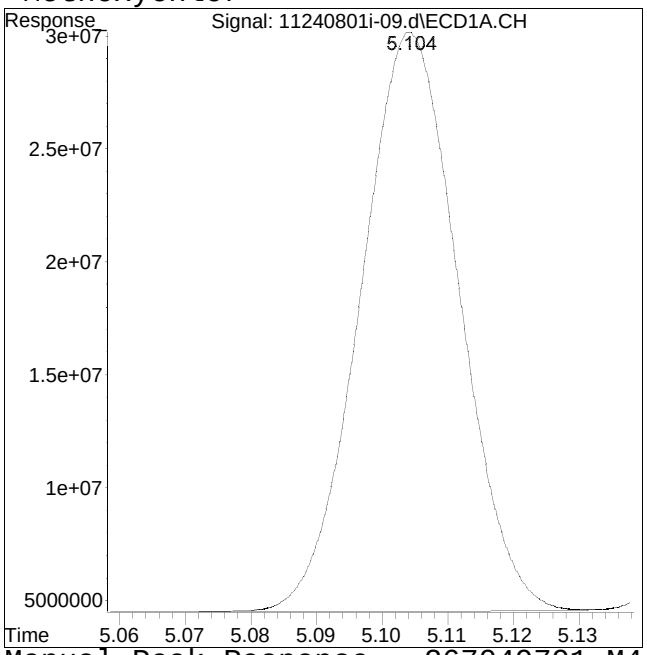
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #23: Methoxychlor





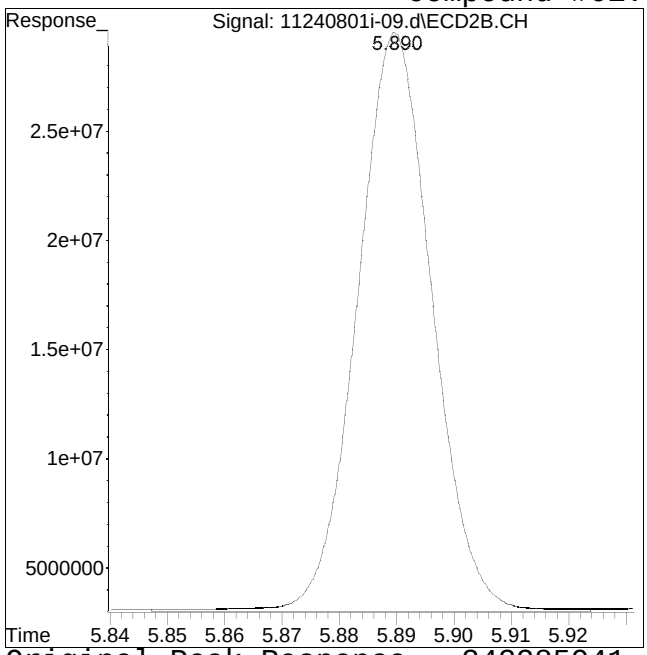
Original Peak Response = 270284931 Manual Peak Response = 267049791 M4
M4 = Poor automated baseline construction.

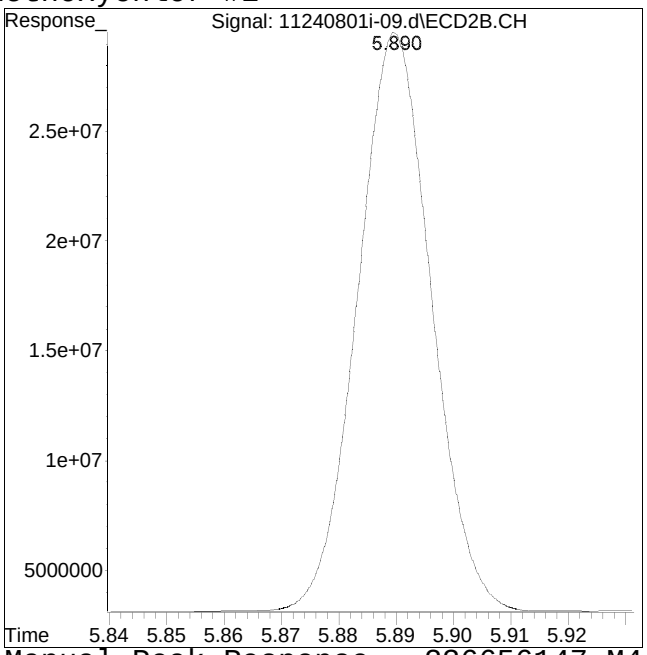
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #61: Methoxychlor #2



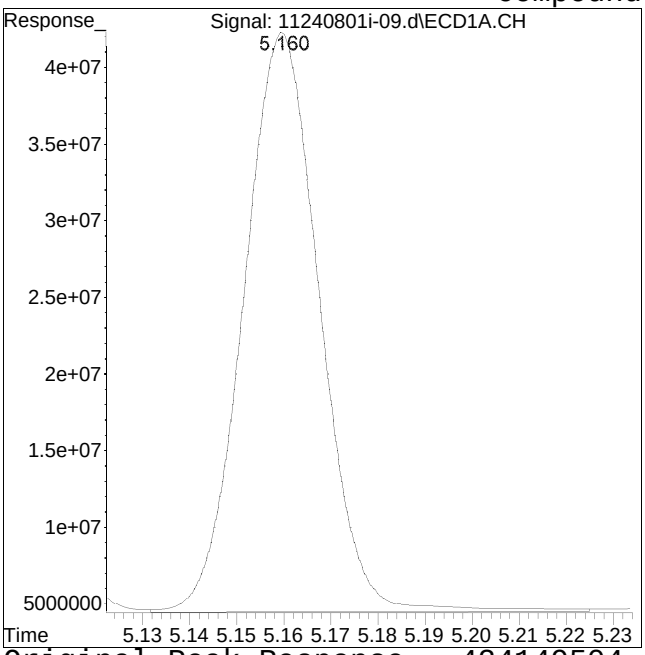


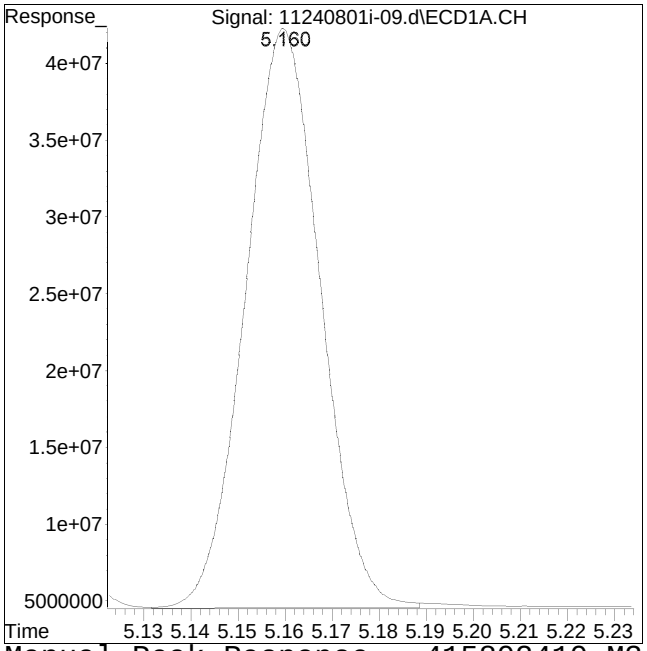
Original Peak Response = 242285941 Manual Peak Response = 236656147 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 8/2/2024 9:03 am

Compound #24: Mirex





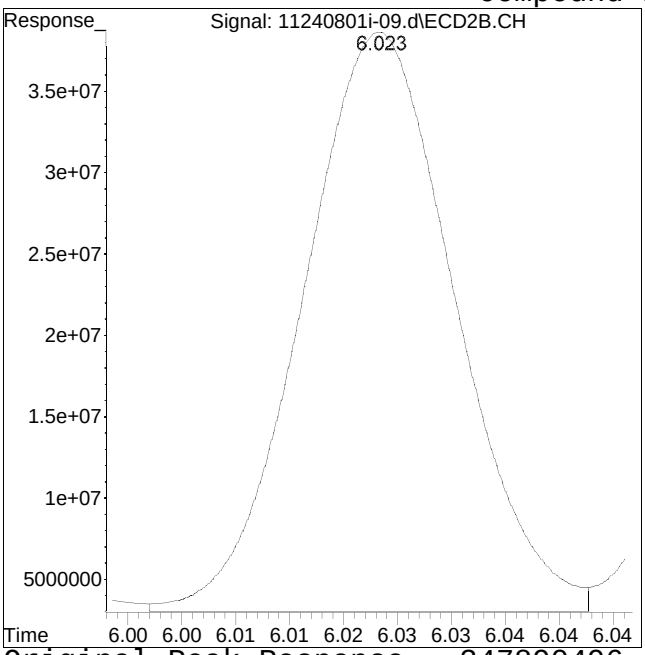
Original Peak Response = 424149504 Manual Peak Response = 415802410 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

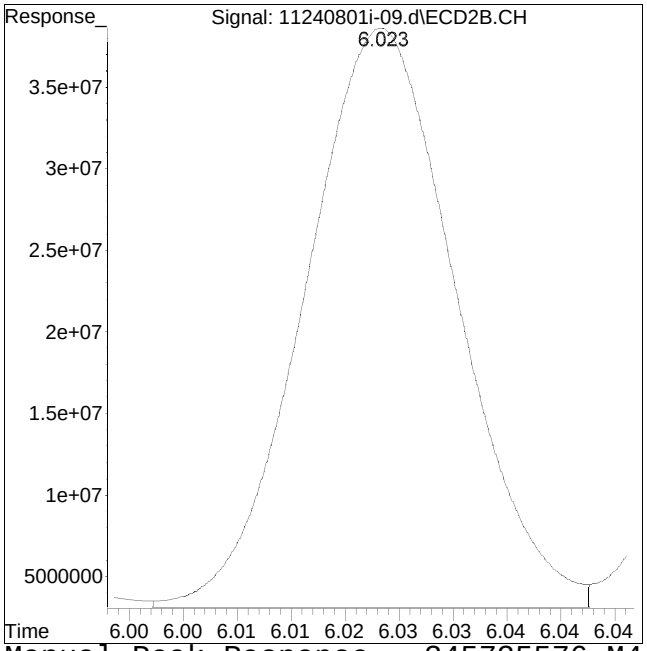
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #62: Mirex #2



Original Peak Response = 347890496



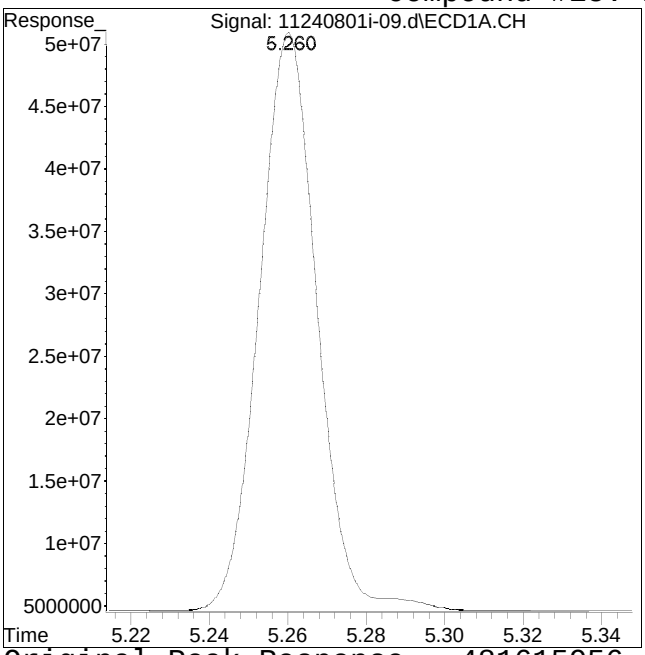
Manual Peak Response = 345735576 M4

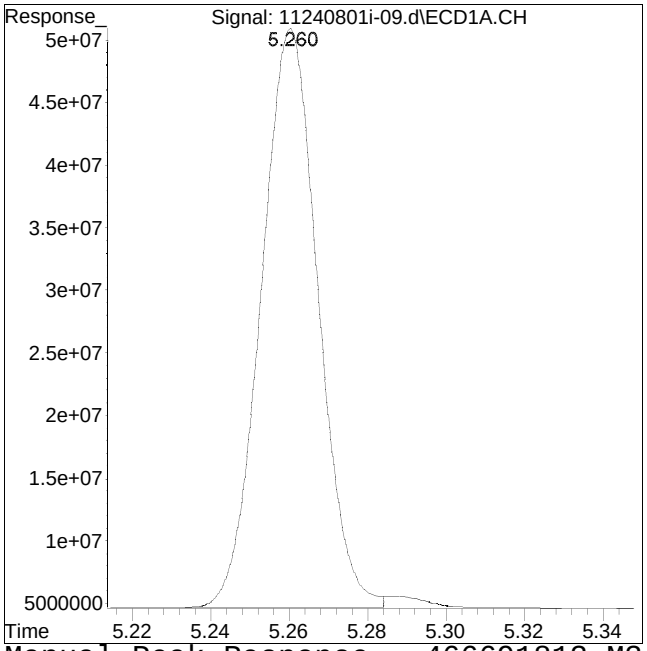
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #25: Endosulfan Sulfate



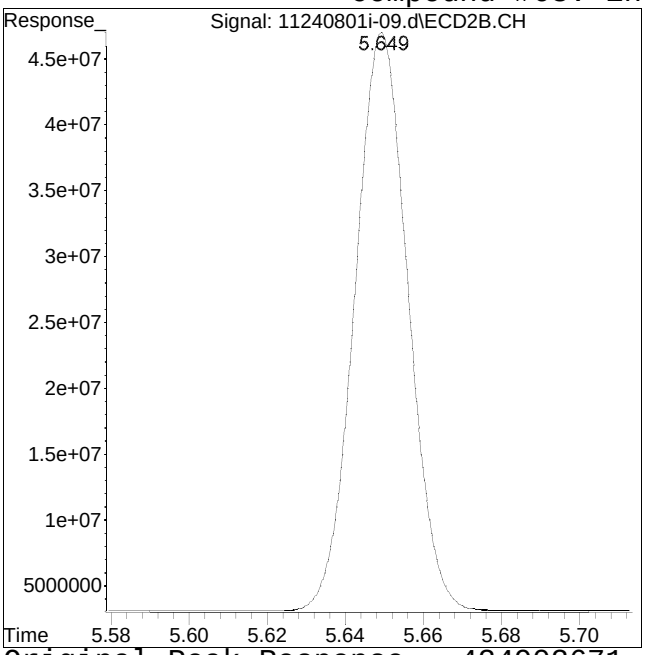


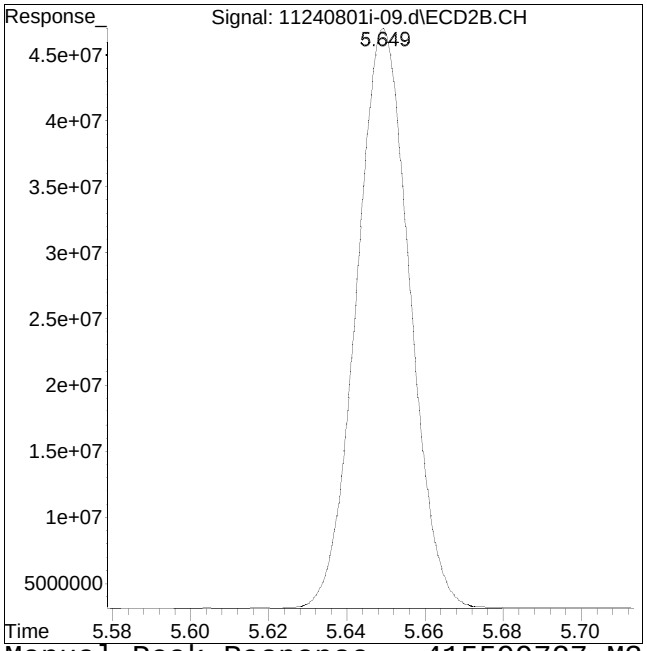
Original Peak Response = 481615956 Manual Peak Response = 466691813 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #63: Endosulfan Sulfate #2



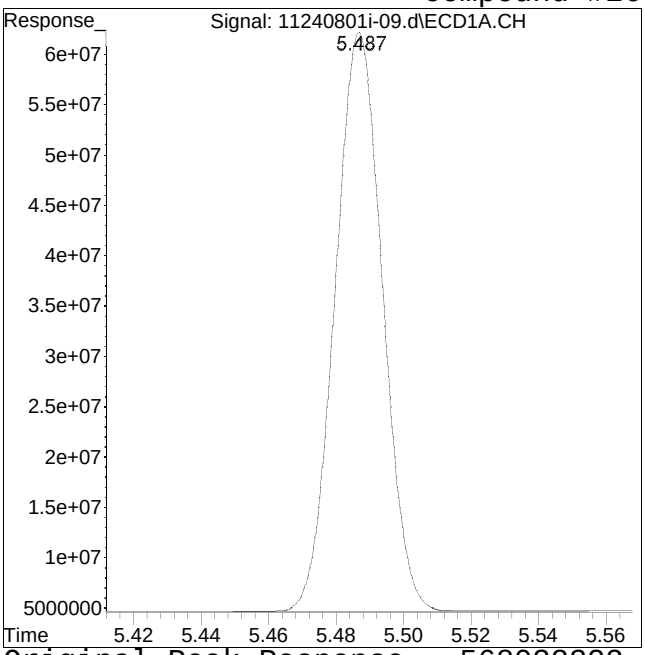


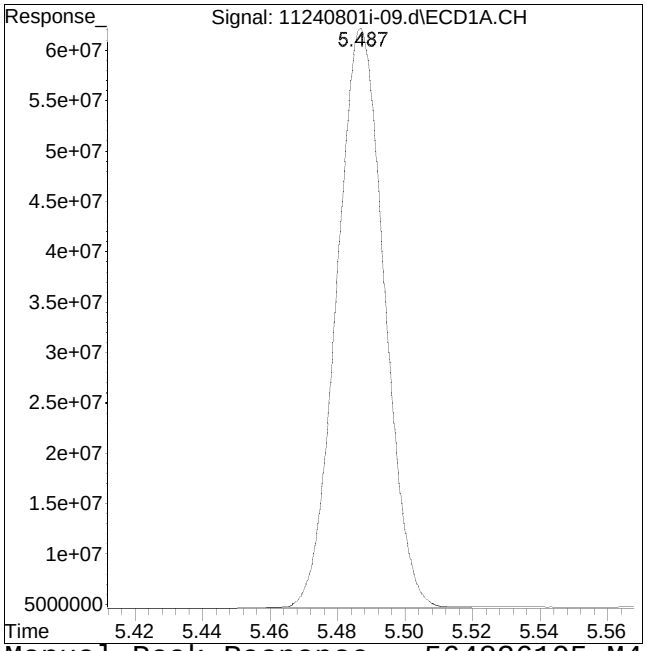
Original Peak Response = 424902671 Manual Peak Response = 415599727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #26: Endrin Ketone



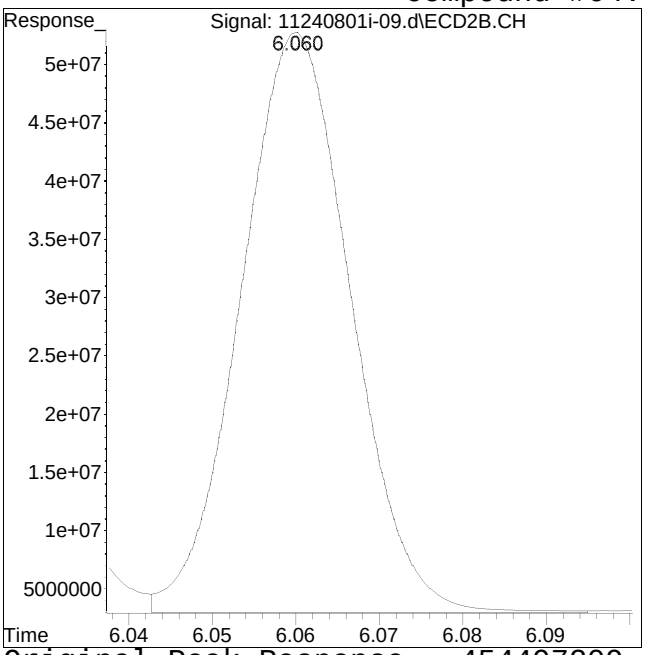


Original Peak Response = 568032322 Manual Peak Response = 564826105 M4
M4 = Poor automated baseline construction.

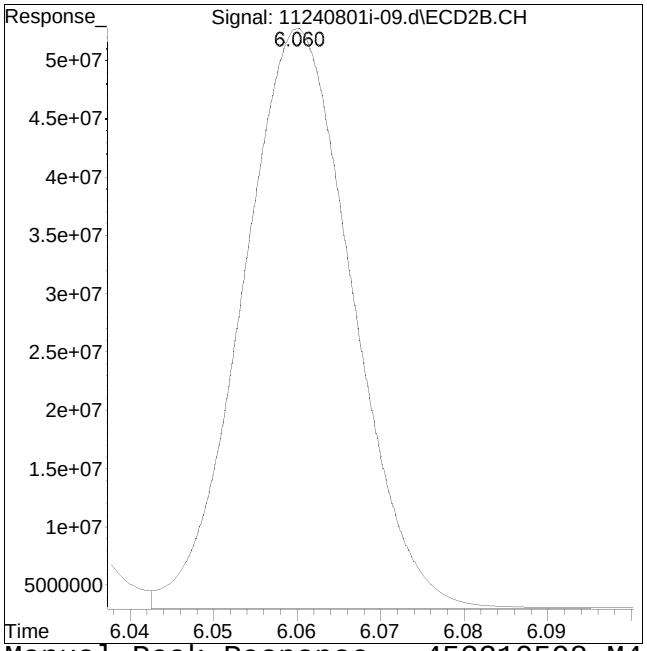
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #64: Endrin Ketone #2



Original Peak Response = 454497209



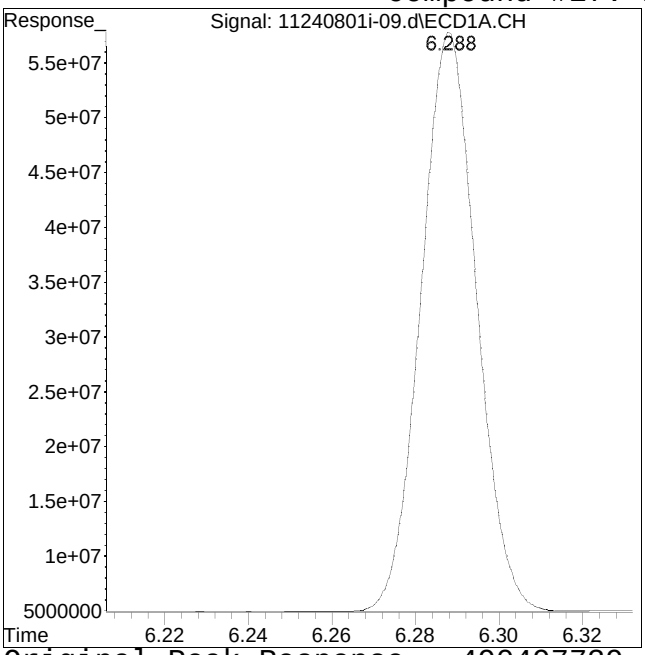
Manual Peak Response = 452310598 M4

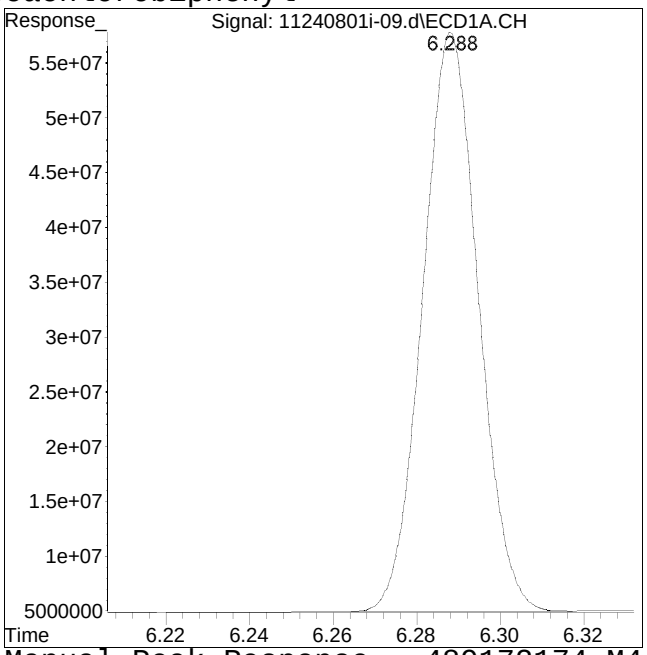
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #27: Decachlorobiphenyl



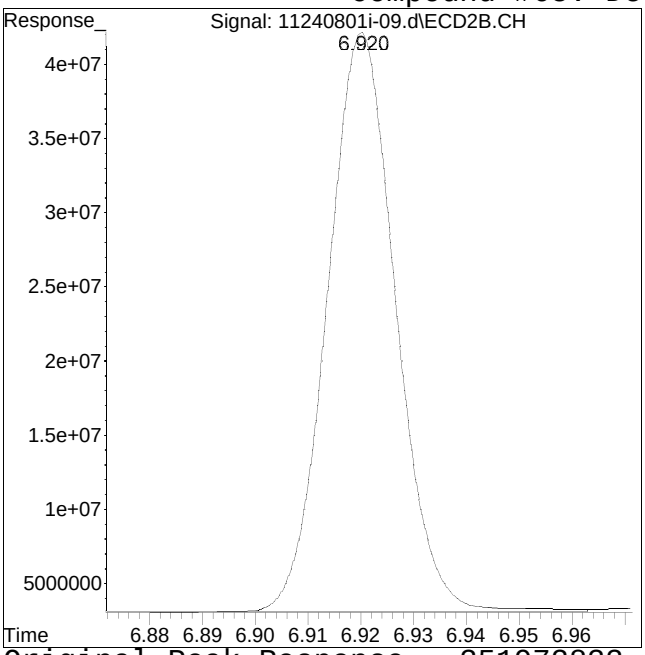


Original Peak Response = 490497739 Manual Peak Response = 489172174 M4
M4 = Poor automated baseline construction.

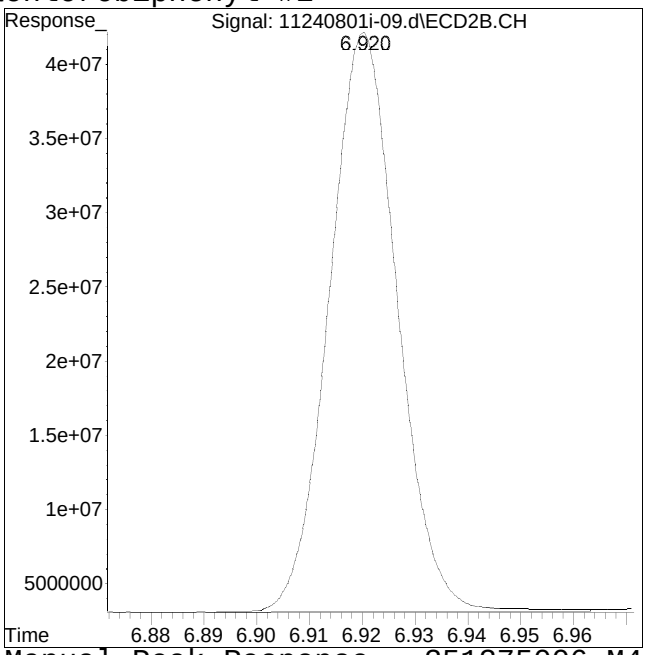
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 351972833



Manual Peak Response = 351375006 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.309	1.385	228.9E6	186.0E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.652	1.858	978.0E6	793.9E6	102.526M3	98.316M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		205.05%#	196.63%#
27)	s	Decachlorobi	6.287	6.920	966.4E6	693.4E6	101.892M4	99.592M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		203.78%#	199.18%#
		Target Compounds						
3)	t	Hexachlorobe	1.865	2.178	1254.4E6	852.0E6	101.913M3	99.956M4
4)	t	alpha-BHC	1.963	2.271	1517.1E6	1291.2E6	104.962M3	102.929M3
5)	t	gamma-BHC (l	2.165	2.556	1395.5E6	1162.9E6	104.626M4	102.486M4
6)	t	beta-BHC	2.221	2.622	569.7E6	475.2E6	102.483M3	99.416M4
7)	t	delta-BHC	2.349	2.889	1415.2E6	1188.9E6	105.152M4	103.238M4
8)	t	Heptachlor	2.513	2.952	1281.7E6	1164.2E6	103.113M4	100.742
9)	t	Aldrin	2.756	3.271	1234.2E6	1093.2E6	104.739M4	102.495
10)	t	Alachlor	2.876	3.153	202.3E6	136.5E6	97.935M4	93.096M4
11)	t	Chlorpyrifos	2.968	3.506	476.2E6	520.8E6	96.581M4	95.072

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	1132.0E6	1013.1E6	102.826M4	100.688M4
13)	t	gamma-Chlord	3.425	4.104	1037.3E6	931.1E6	105.142M4	102.239M4
14)	t	alpha-Chlord	3.559	4.274	1167.6E6	1027.5E6	104.255M3	101.638
15)	t	4,4'-DDE	3.657	4.473	1188.4E6	1034.3E6	105.852	103.171M4
16)	t	Endosulfan I	3.695	4.336	1073.0E6	944.4E6	103.673M3	100.715
17)	t	Dieldrin	3.955	4.627	1129.5E6	992.5E6	105.119M3	102.230M3
18)	t	Endrin	4.210	4.925	1134.9E6	1004.3E6	103.955M4	101.809M4
19)	t	4,4'-DDD	4.321	5.049	929.4E6	823.1E6	106.236M4	103.291M4
20)	t	Endosulfan I	4.451	5.125	1017.3E6	866.0E6	103.751	100.883M4
21)	t	4,4'-DDT	4.616	5.326	1043.2E6	939.1E6	105.189M4	102.870M4
22)	t	Endrin Aldeh	4.868	5.421	836.3E6	707.4E6	104.157M3	101.016M3
23)	t	Methoxychlor	5.104	5.890	519.3E6	461.0E6	100.292M4	98.297M4
24)	t	Mirex	5.160	6.023	822.7E6	677.1E6	102.053M4	98.827M4
25)	t	Endosulfan S	5.260	5.649	939.0E6	830.0E6	103.773M3	100.783M3
26)	t	Endrin Keton	5.487	6.060	1123.4E6	898.2E6	102.585M4	100.220M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

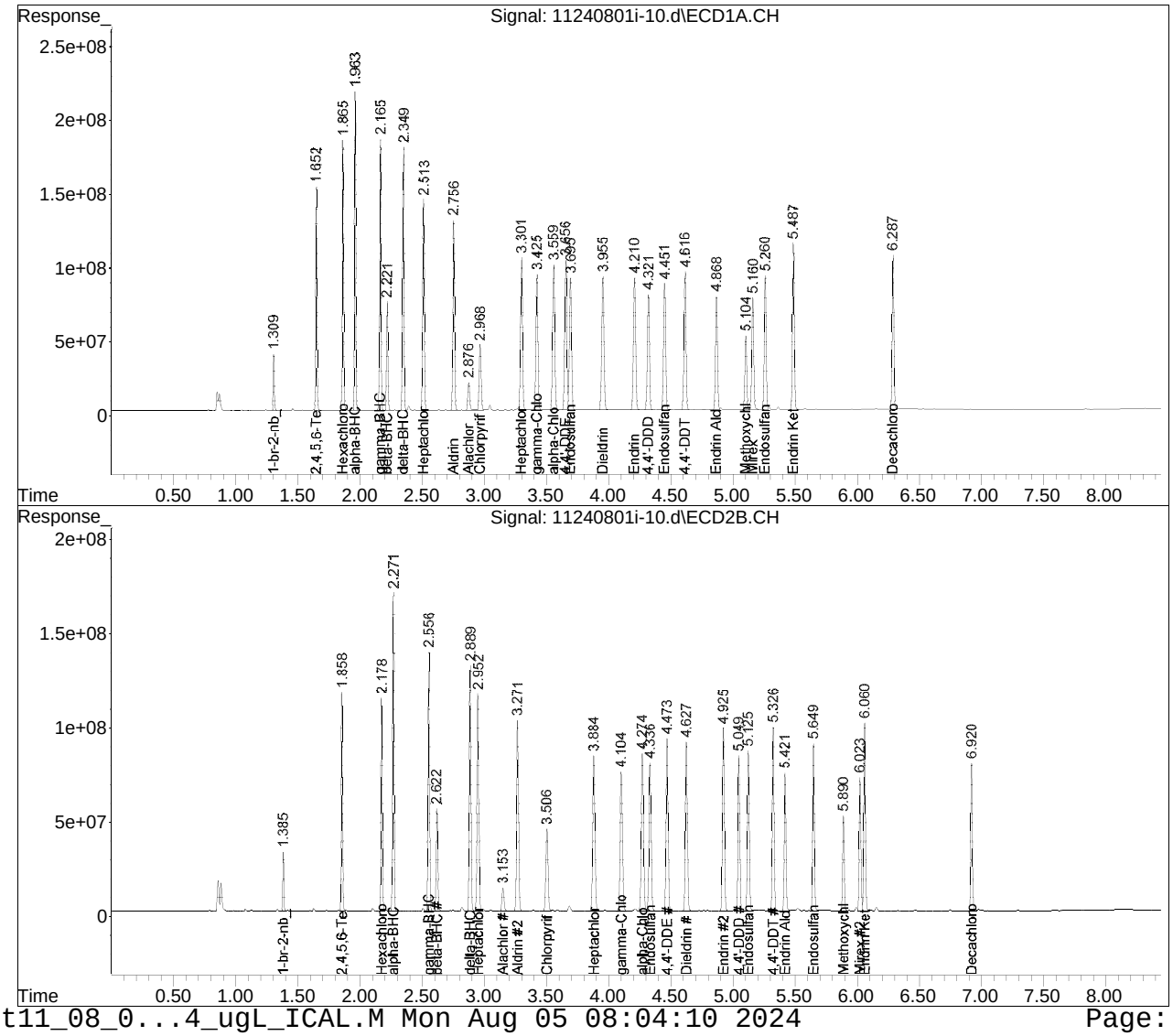
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

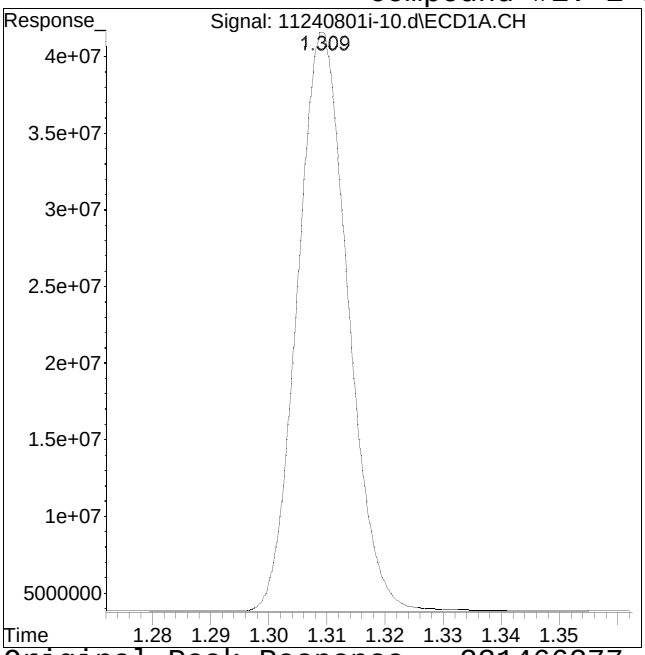


Manual Integration Report

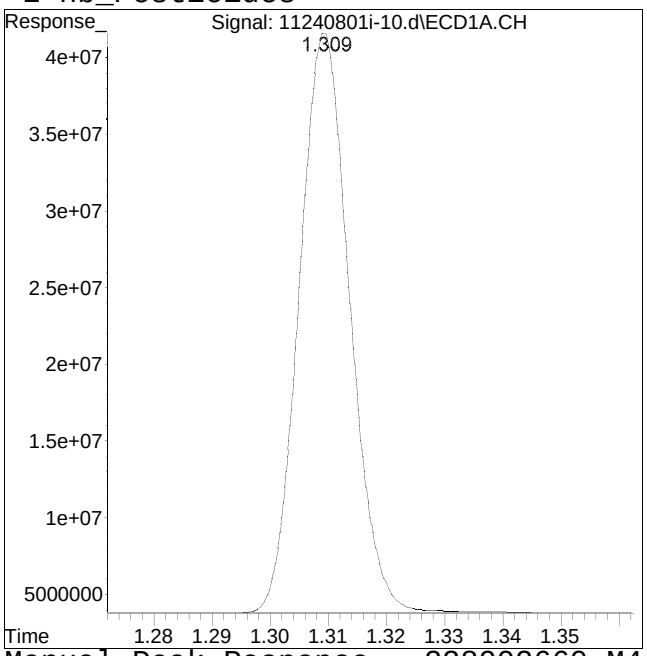
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 231466277



Manual Peak Response = 228902660 M4

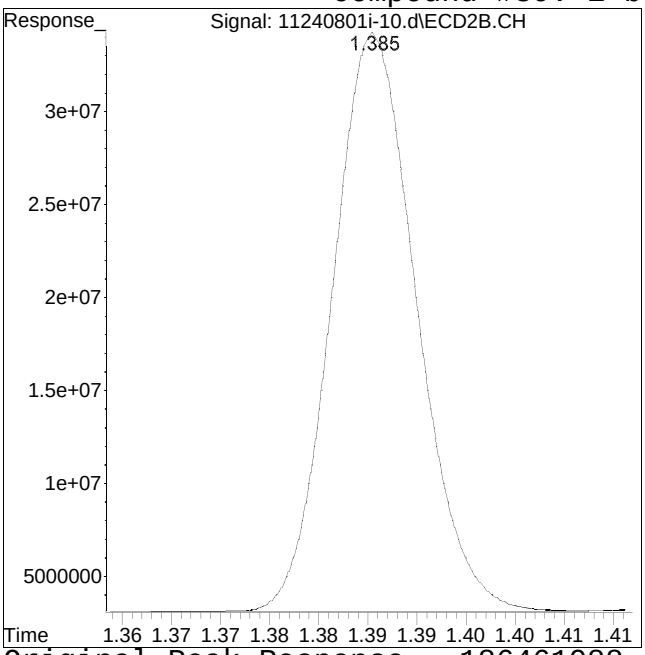
M4 = Poor automated baseline construction.

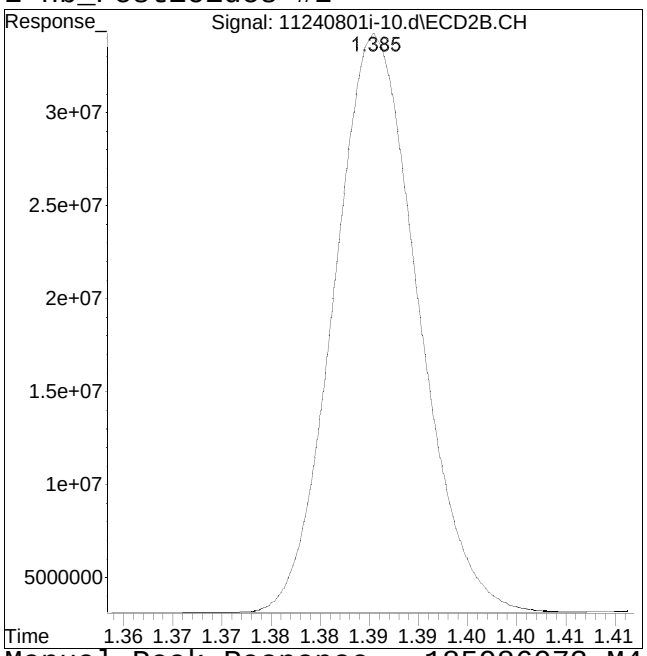
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2





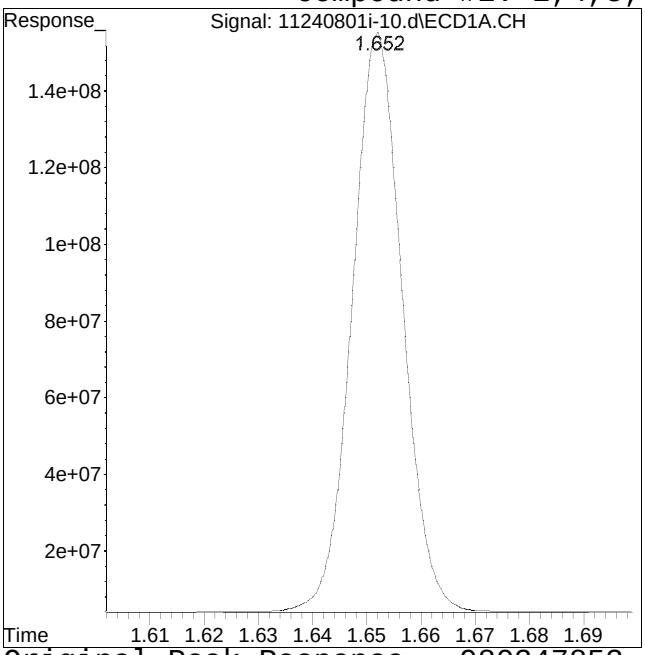
Original Peak Response = 186461988 Manual Peak Response = 185986073 M4
M4 = Poor automated baseline construction.

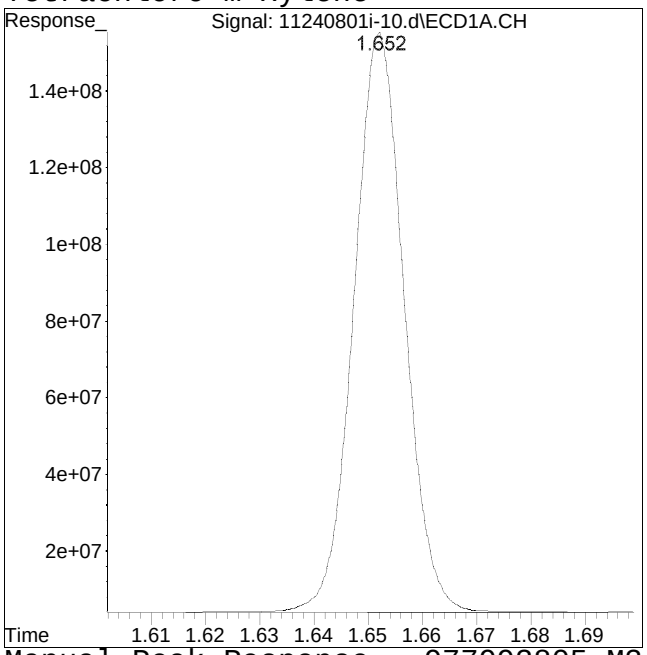
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





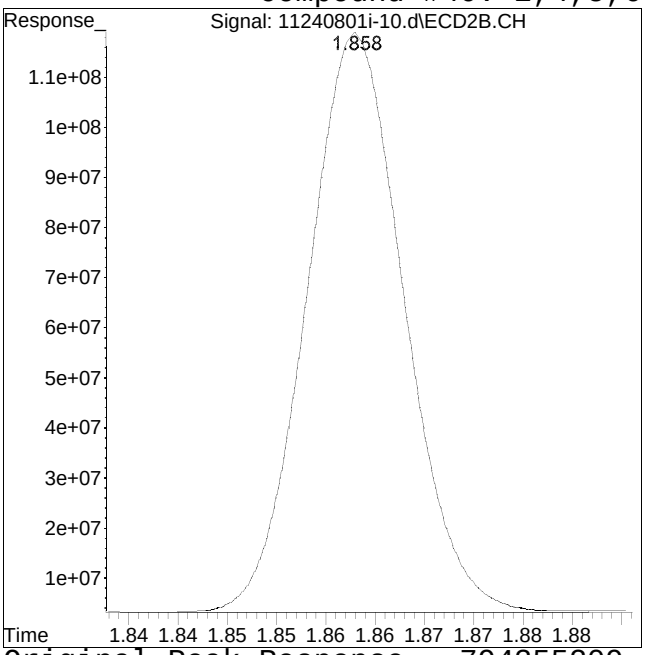
Original Peak Response = 980347853 Manual Peak Response = 977993805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

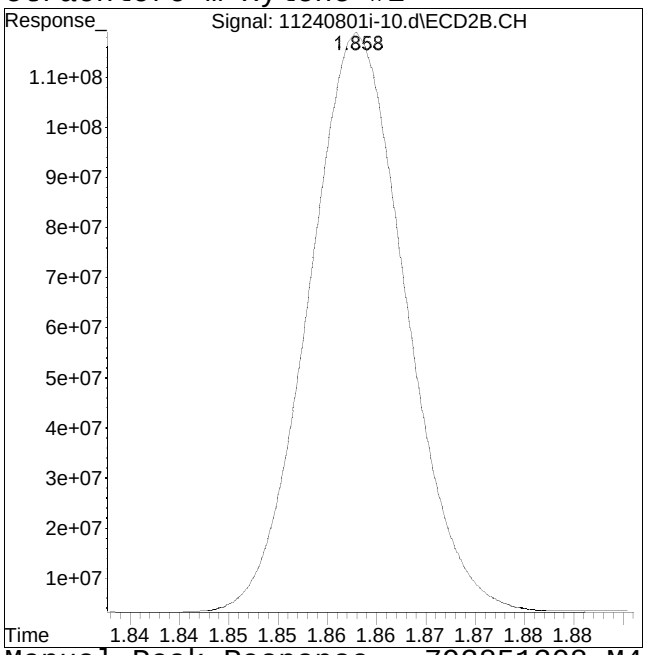
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 794355209



Manual Peak Response = 793851308 M4

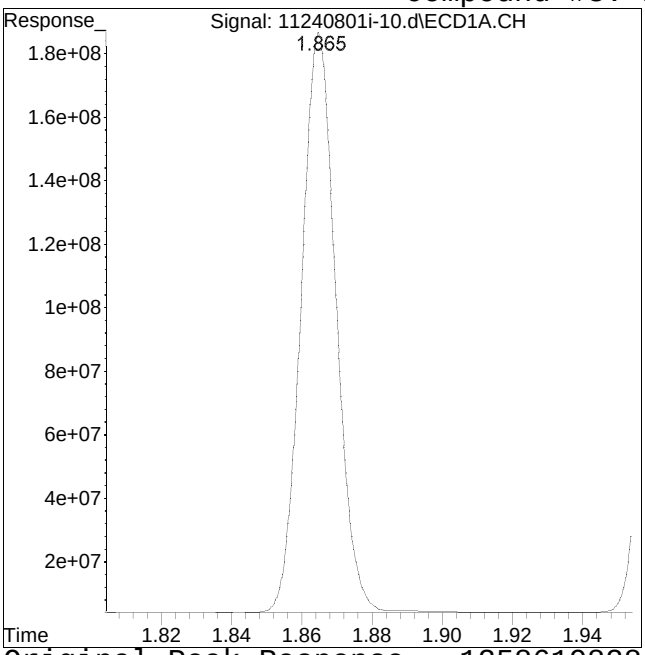
M4 = Poor automated baseline construction.

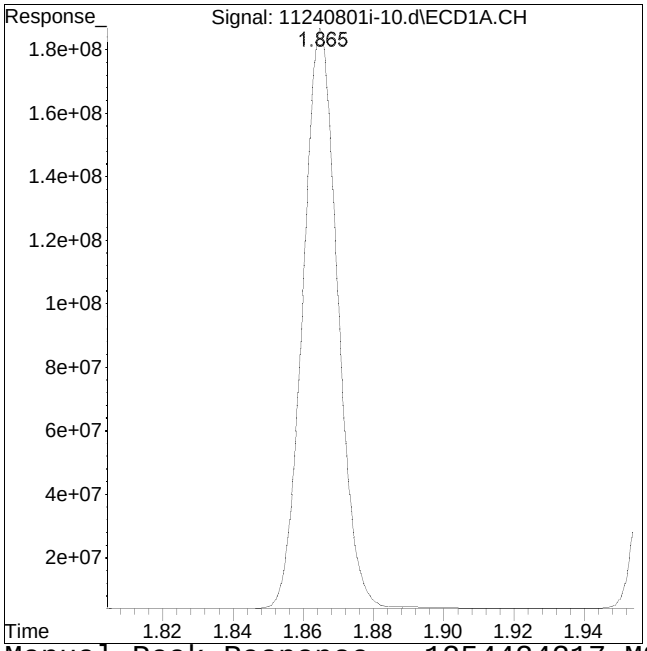
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #3: Hexachlorobenzene



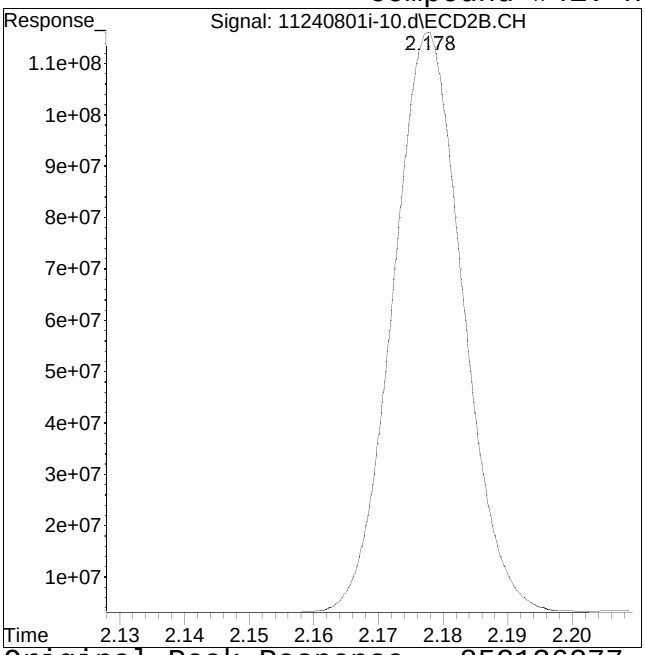


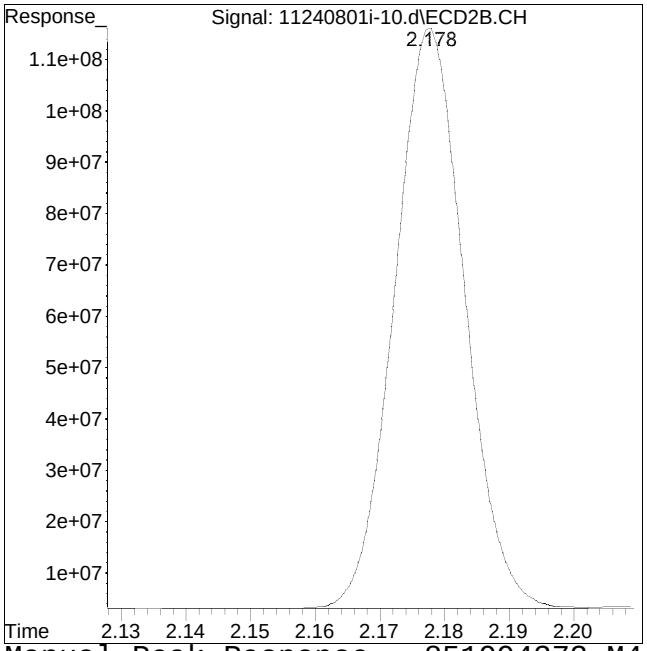
Original Peak Response = 1258619828 Manual Peak Response = 1254424217 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #41: Hexachlorobenzene #2



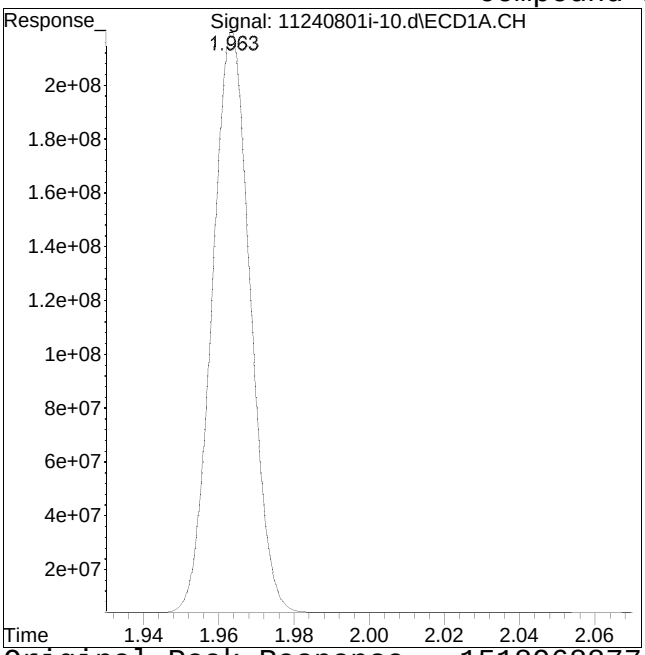


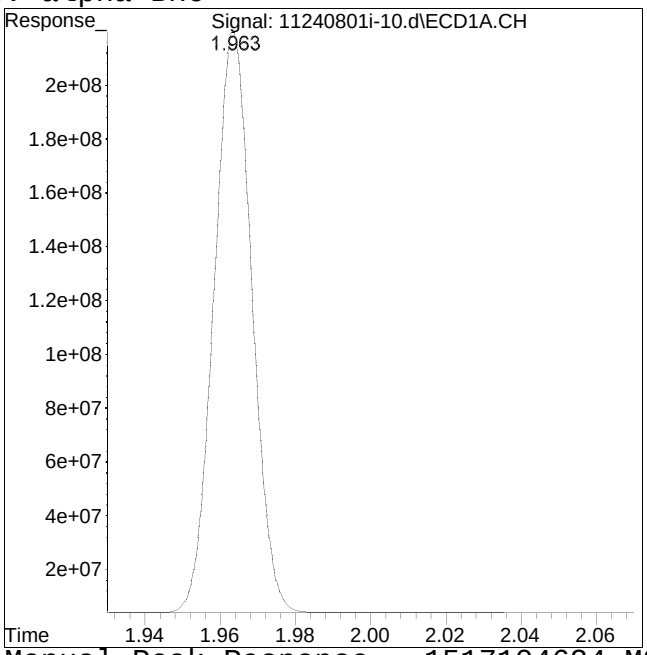
Original Peak Response = 852136277 Manual Peak Response = 851994373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #4: alpha-BHC



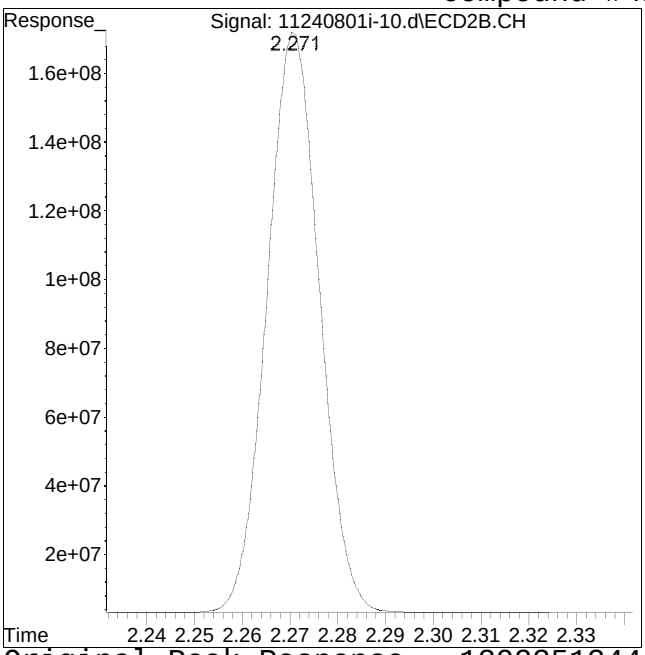


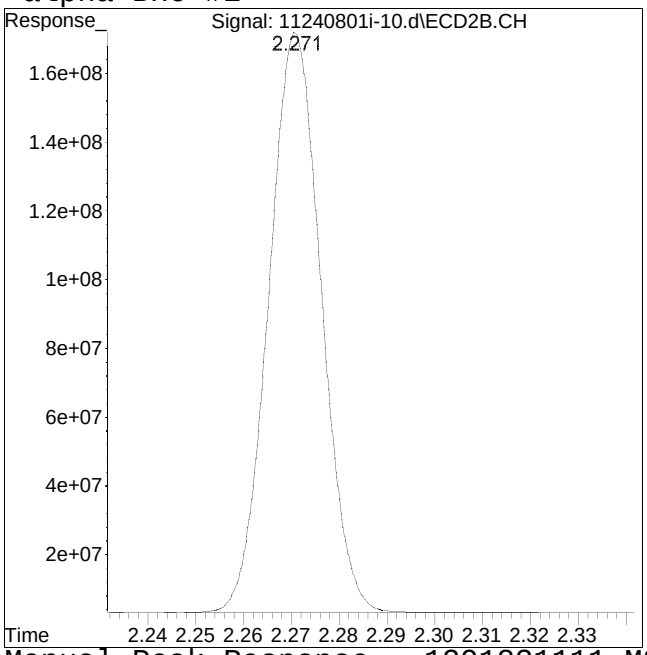
Original Peak Response = 1518968877 Manual Peak Response = 1517104624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #42: alpha-BHC #2



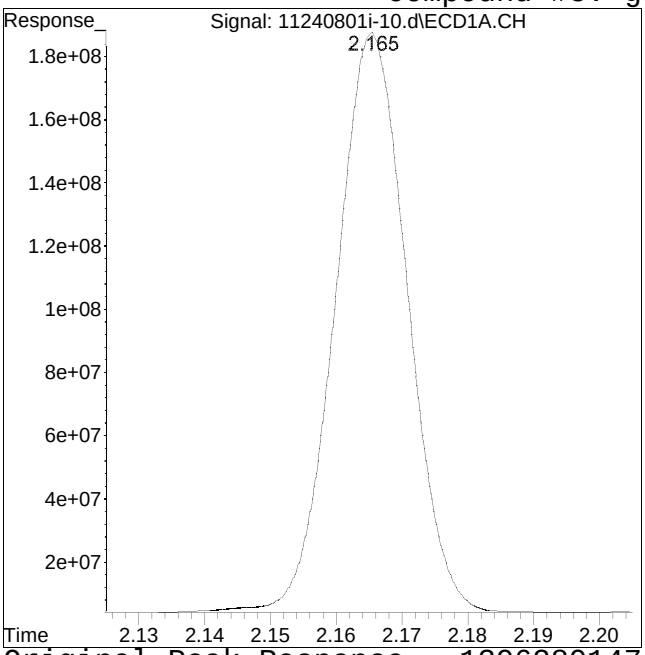


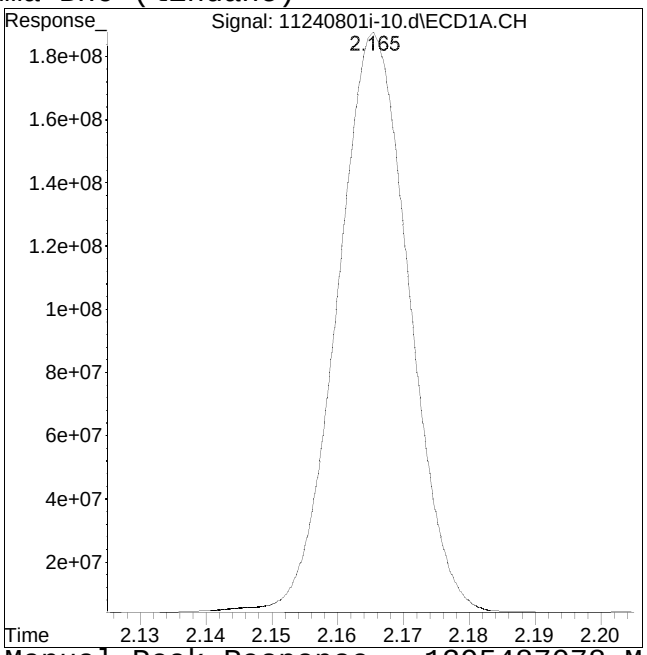
Original Peak Response = 1292351244 Manual Peak Response = 1291231111 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #5: gamma-BHC (lindane)





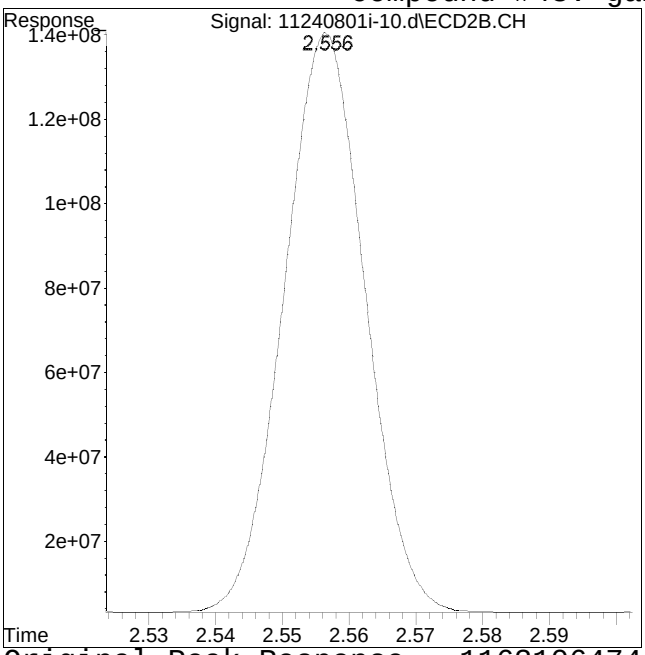
Original Peak Response = 1396289147 Manual Peak Response = 1395487078 M4
M4 = Poor automated baseline construction.

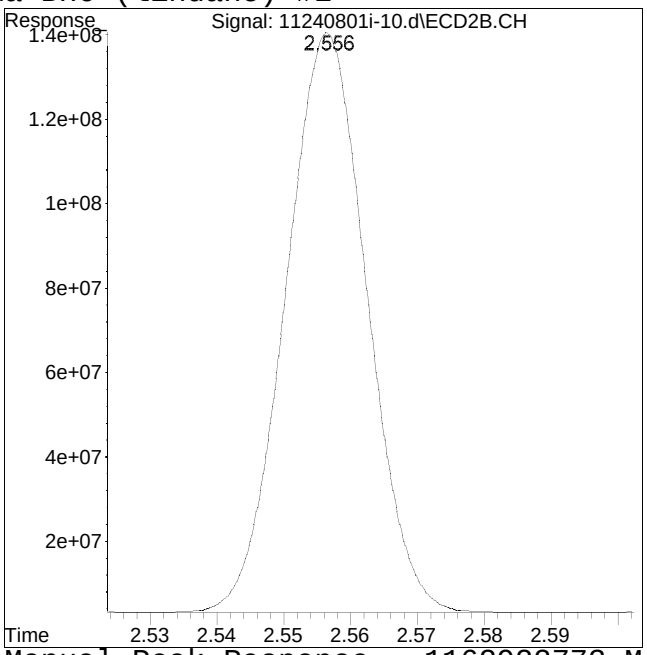
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #43: gamma-BHC (lindane) #2



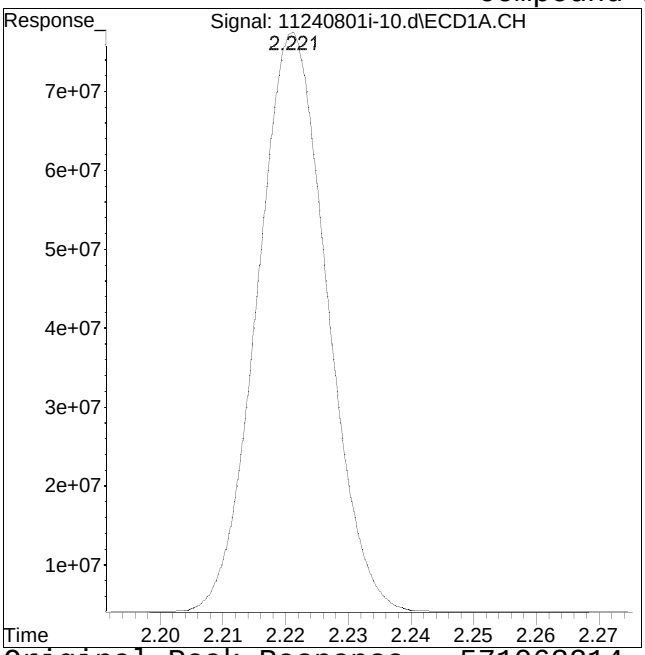


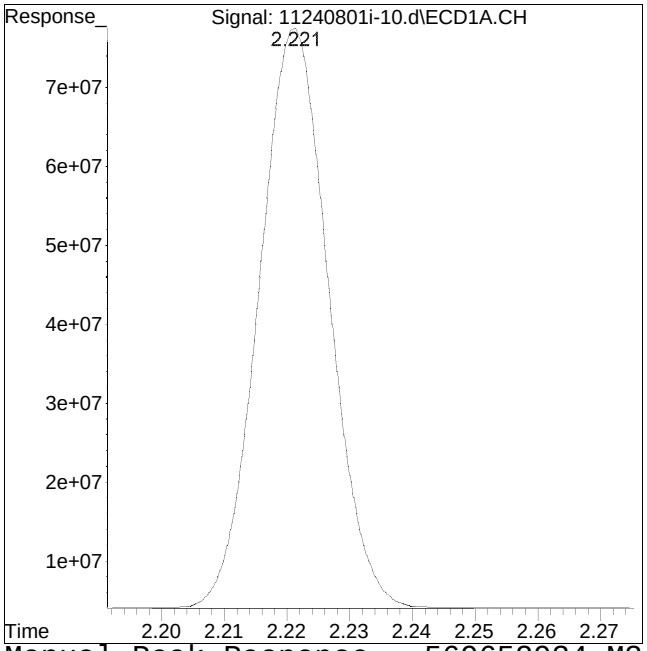
Original Peak Response = 1163106474 Manual Peak Response = 1162922773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #6: beta-BHC



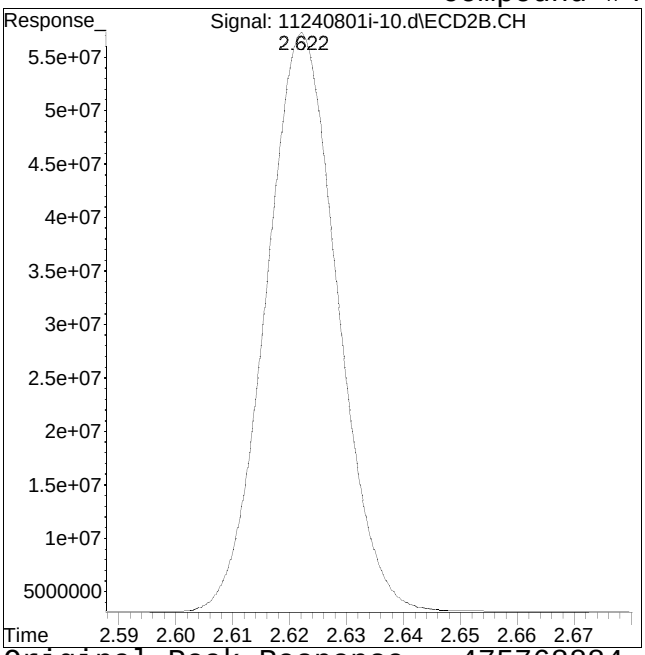


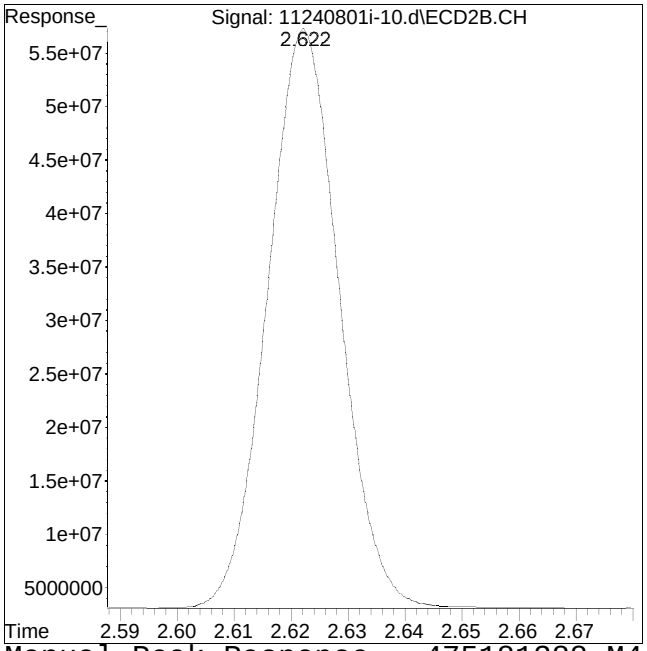
Original Peak Response = 571063214 Manual Peak Response = 569652934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #44: beta-BHC #2



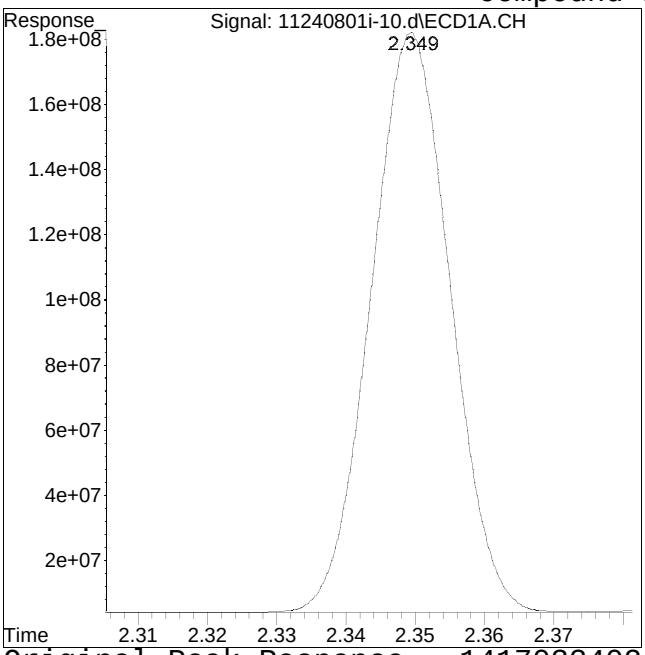


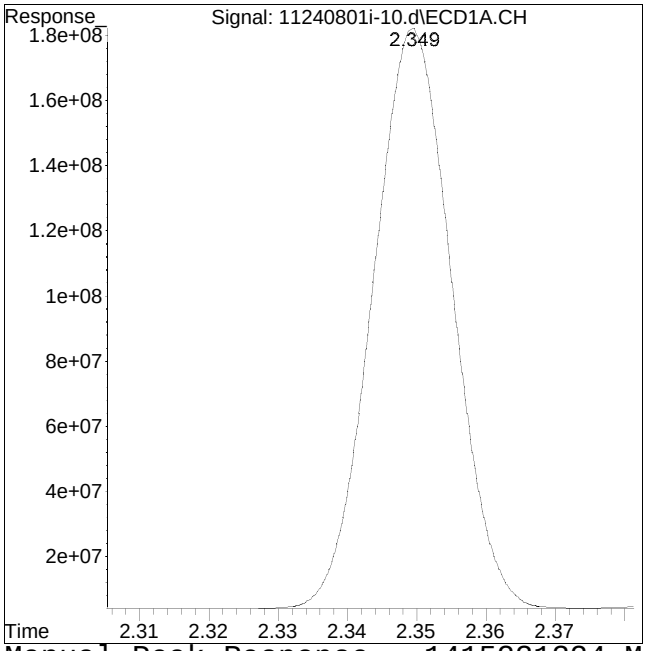
Original Peak Response = 475768884 Manual Peak Response = 475181388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #7: delta-BHC





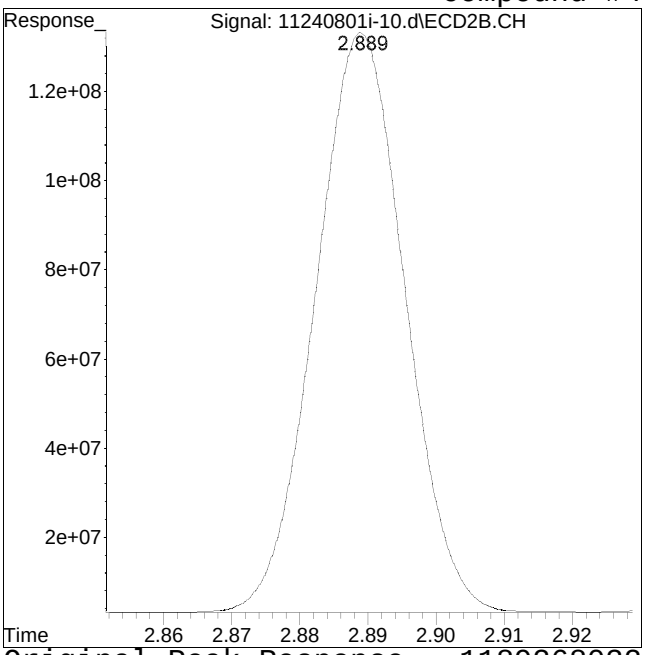
Original Peak Response = 1417033402 Manual Peak Response = 1415231324 M4
M4 = Poor automated baseline construction.

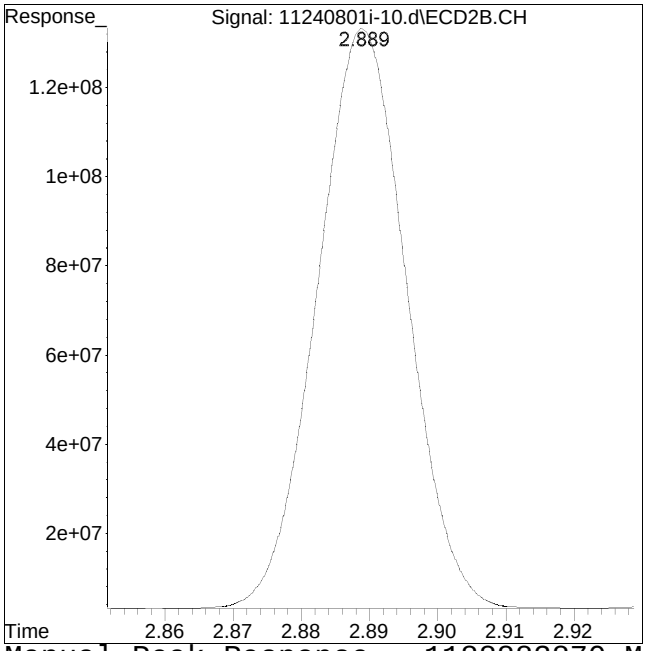
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #45: delta-BHC #2





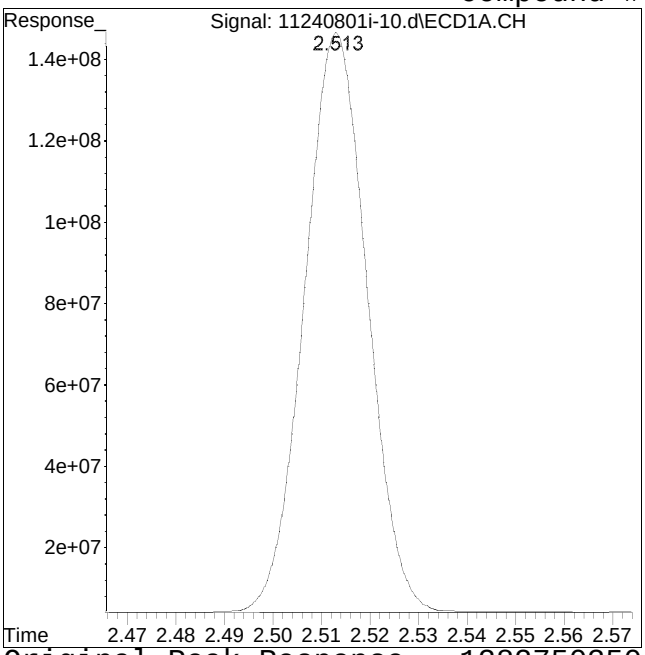
Original Peak Response = 1189268032 Manual Peak Response = 1188883870 M4
M4 = Poor automated baseline construction.

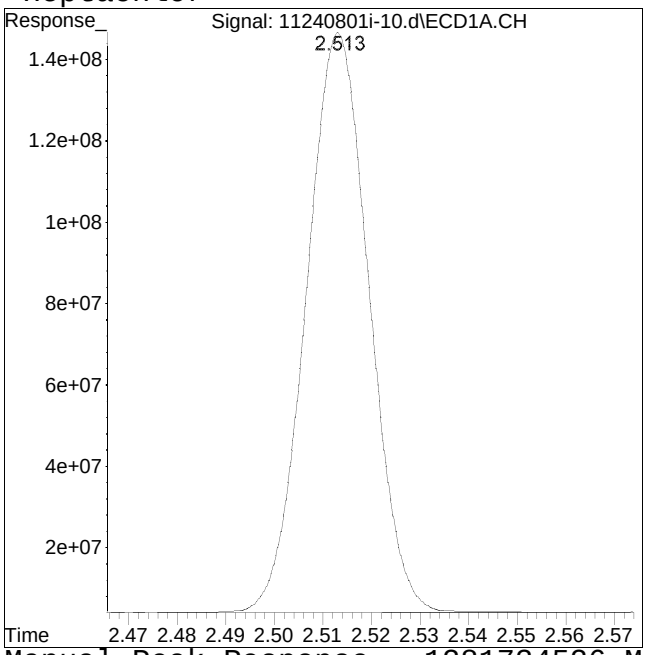
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #8: Heptachlor





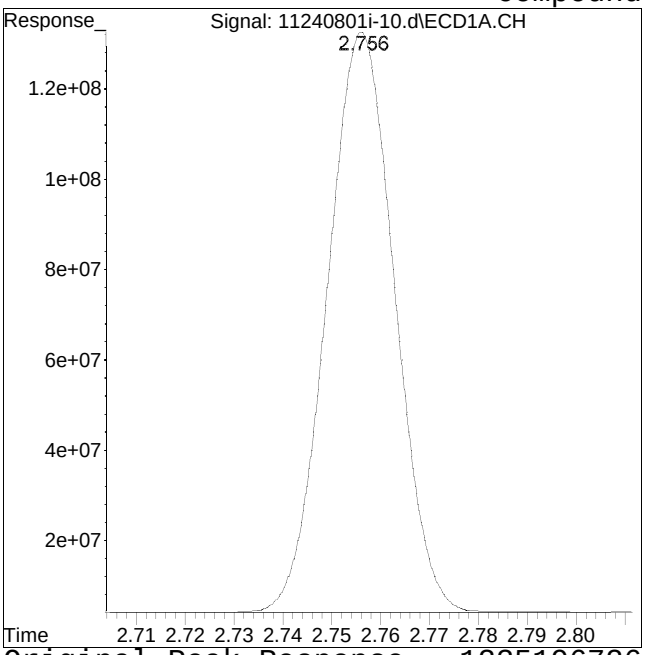
Original Peak Response = 1282750350 Manual Peak Response = 1281734526 M4
M4 = Poor automated baseline construction.

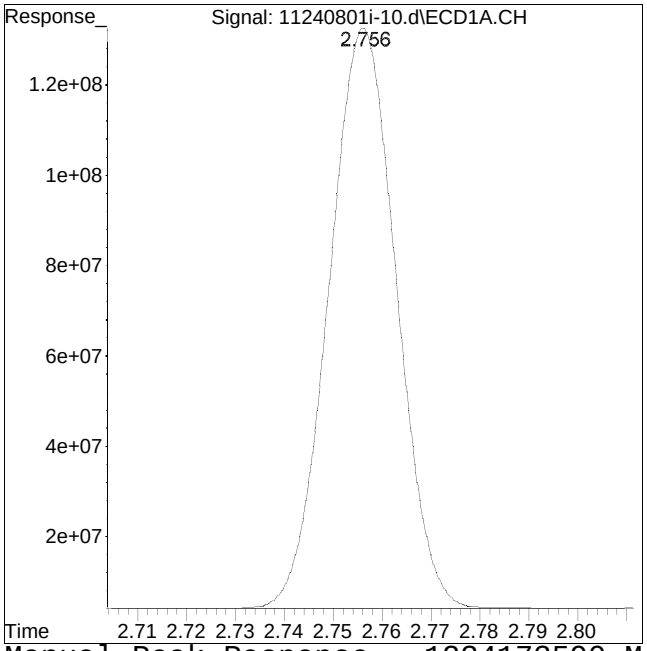
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #9: Aldrin



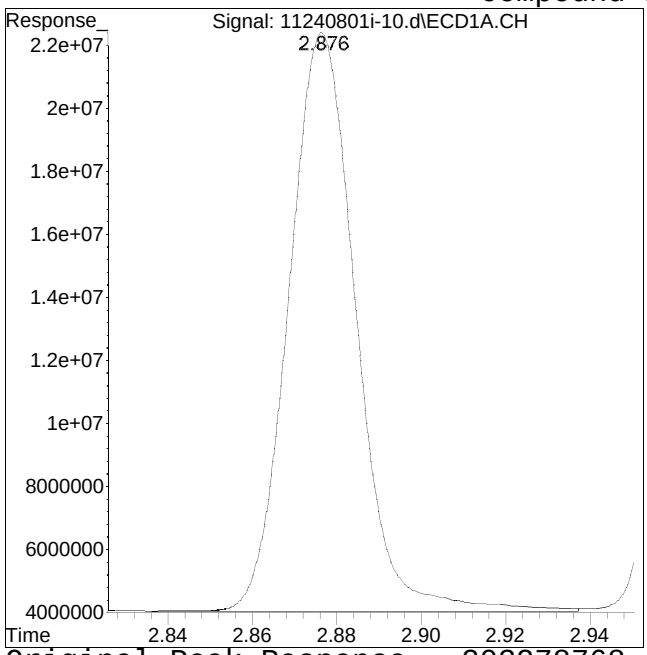


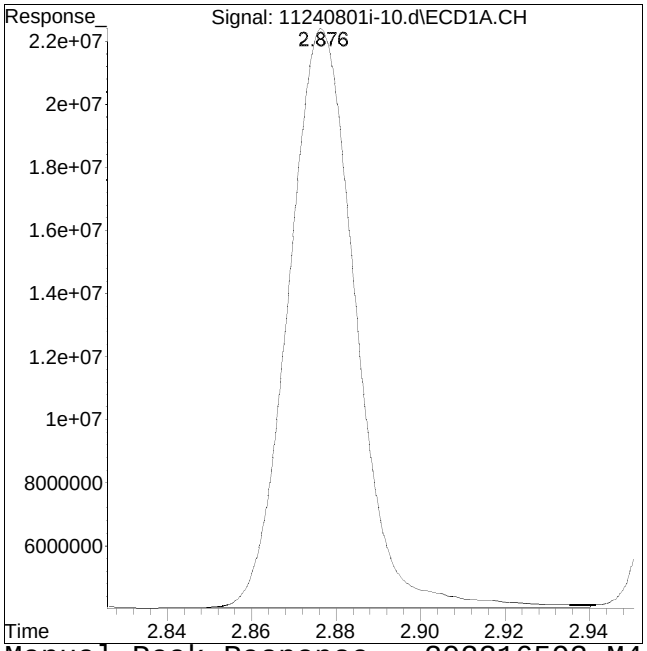
Original Peak Response = 1235196726 Manual Peak Response = 1234173590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #10: Alachlor





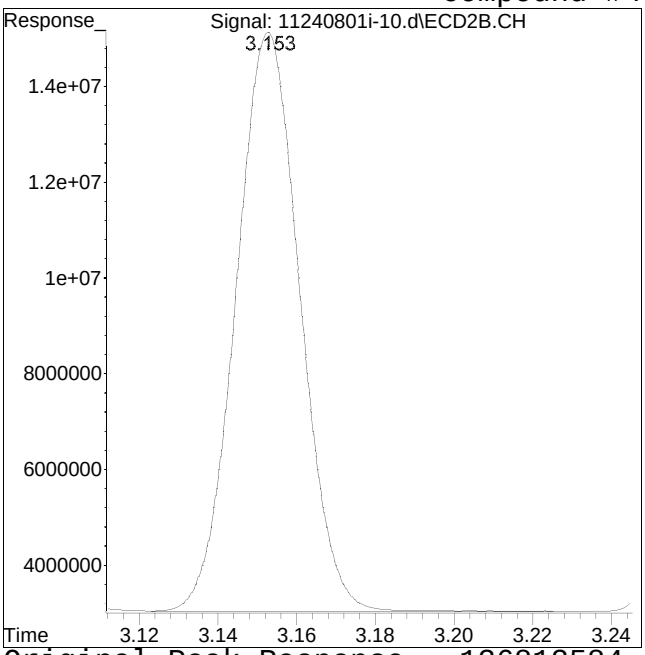
Original Peak Response = 203278768 Manual Peak Response = 202316593 M4
M4 = Poor automated baseline construction.

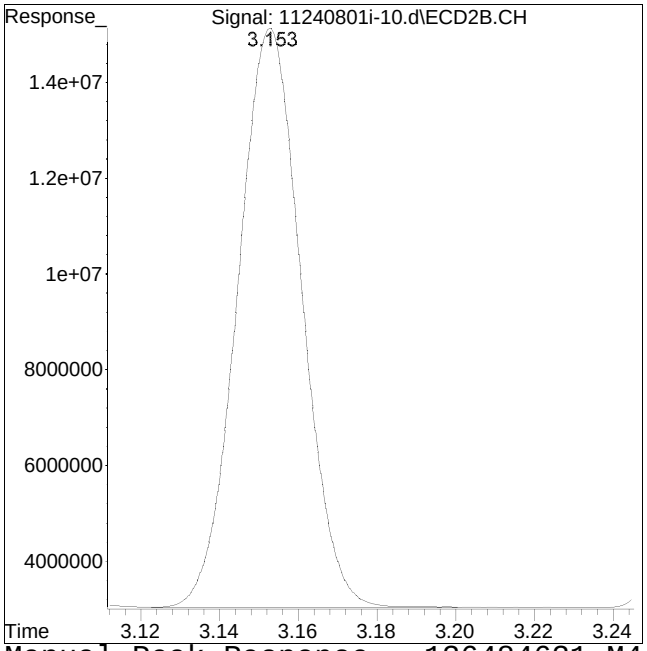
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #48: Alachlor #2





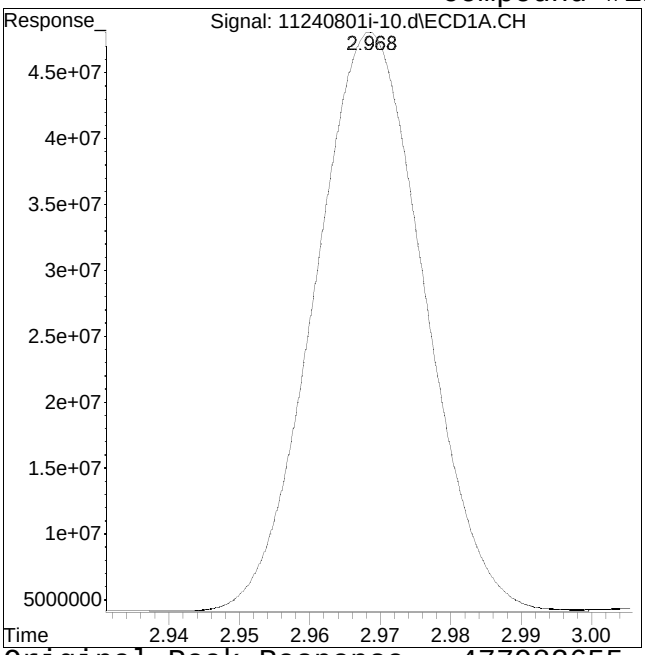
Original Peak Response = 136812584 Manual Peak Response = 136484631 M4
M4 = Poor automated baseline construction.

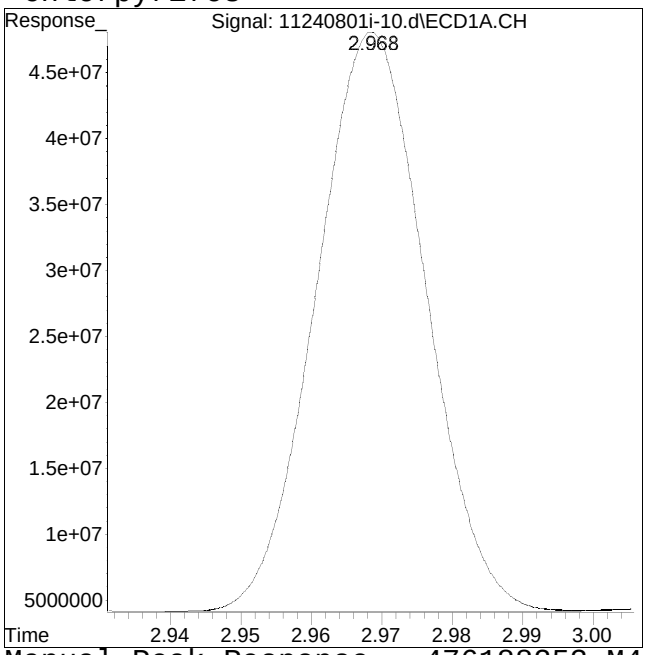
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #11: Chlorpyrifos



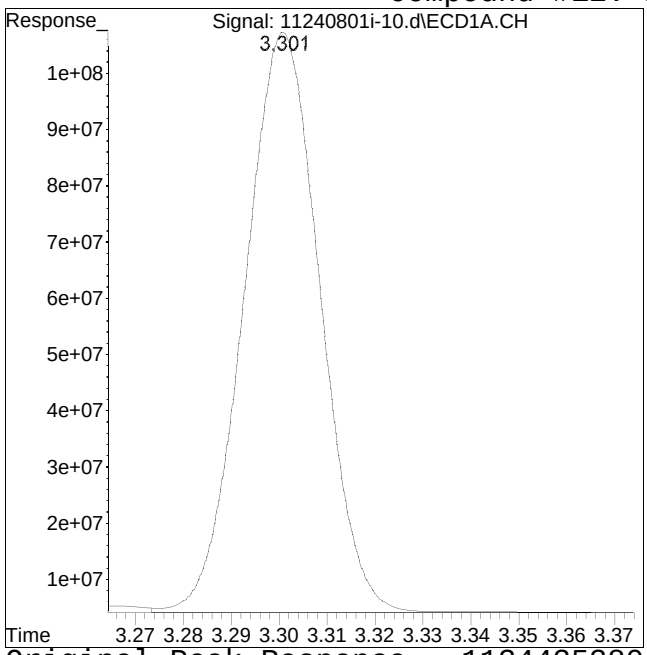


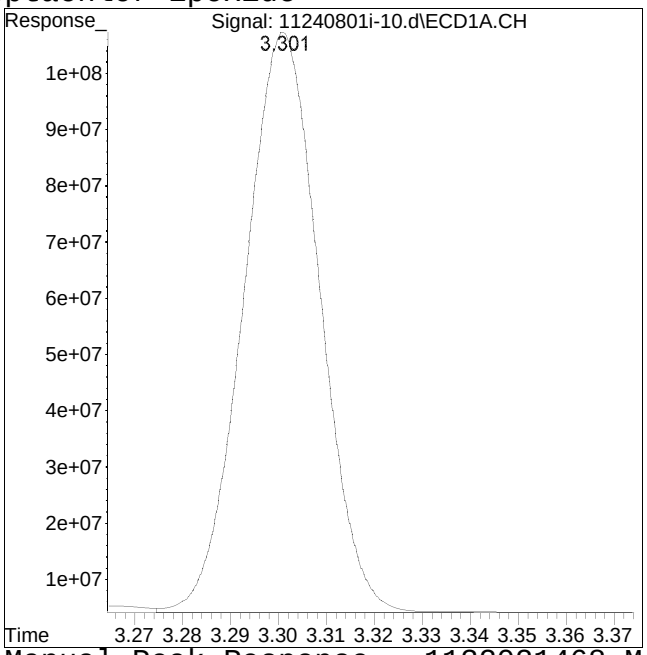
Original Peak Response = 477982655 Manual Peak Response = 476188253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #12: Heptachlor Epoxide



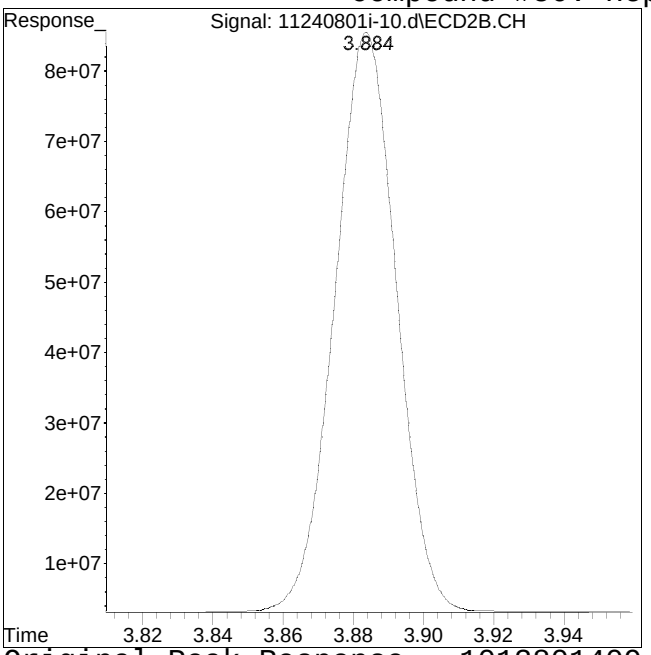


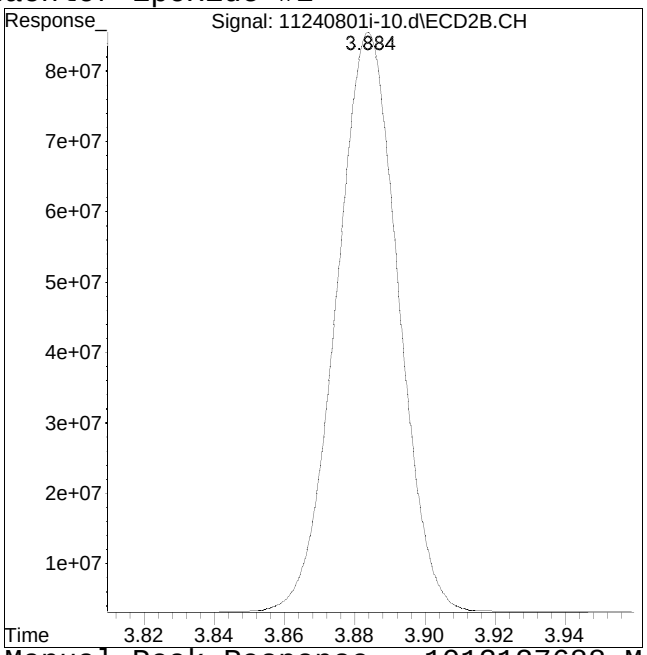
Original Peak Response = 1134435380 Manual Peak Response = 1132021468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #50: Heptachlor Epoxide #2





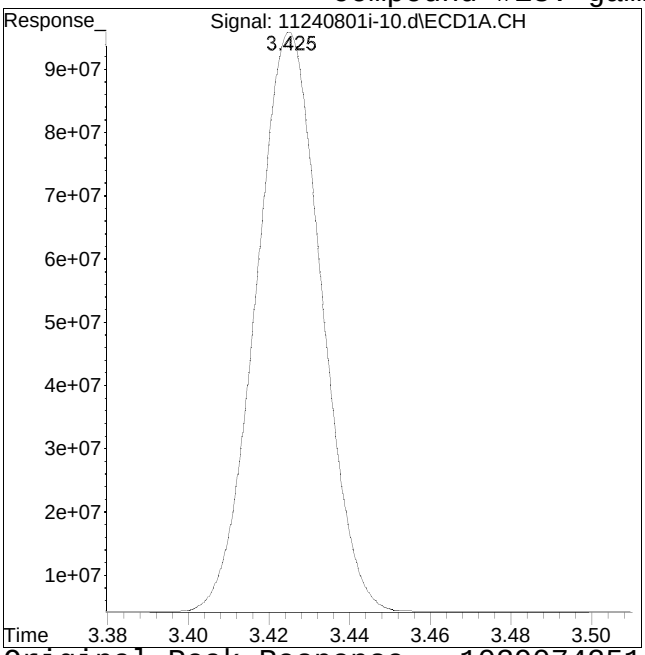
Original Peak Response = 1013801409 Manual Peak Response = 1013127688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

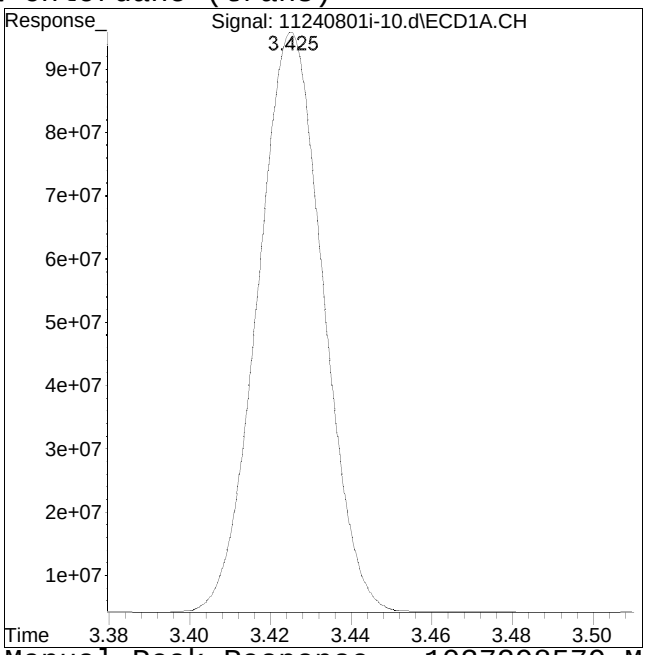
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 1039074251



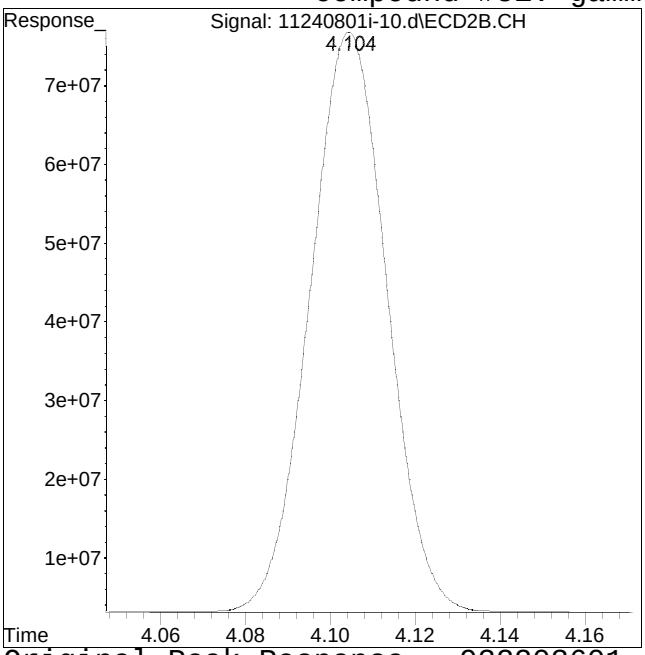
Manual Peak Response = 1037298579 M4

M4 = Poor automated baseline construction.

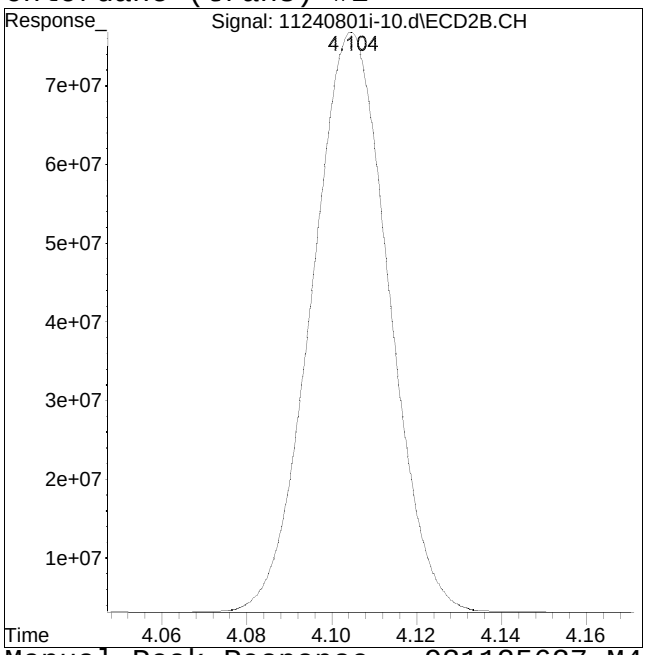
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 932203601



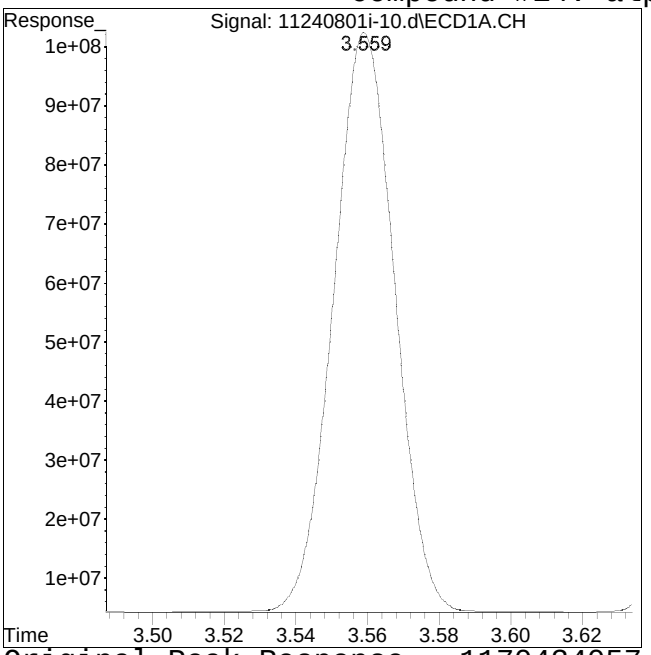
Manual Peak Response = 931125627 M4
M4 = Poor automated baseline construction.

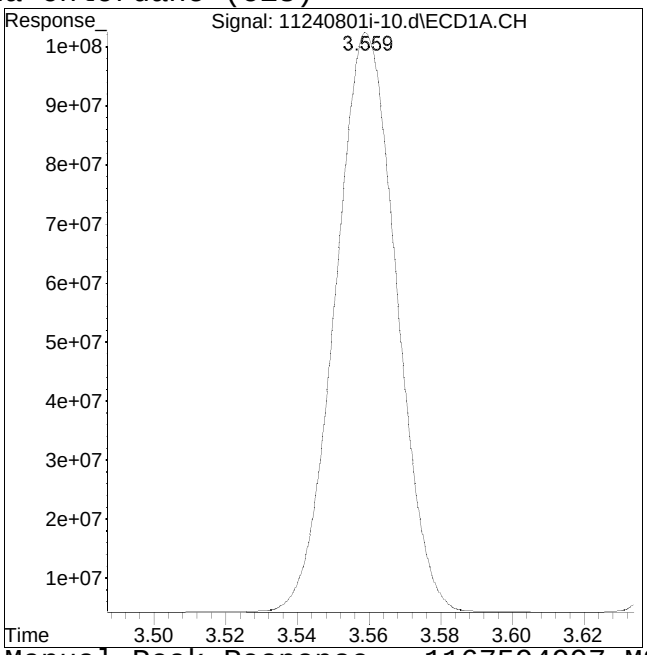
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #14: alpha-Chlordane (cis)





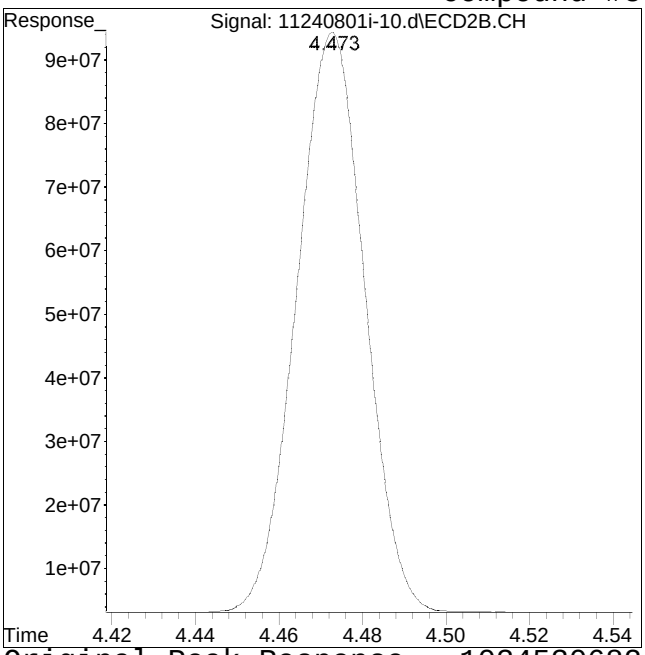
Original Peak Response = 1170434057 Manual Peak Response = 1167594997 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

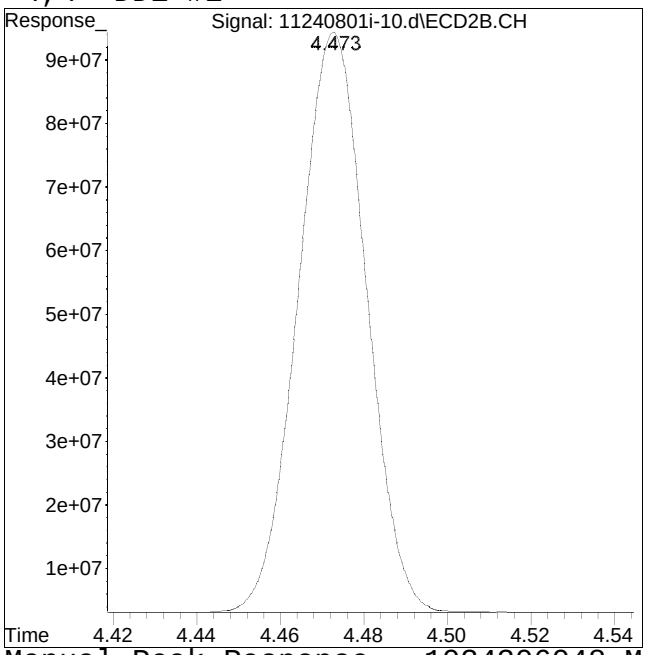
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #53: 4,4'-DDE #2





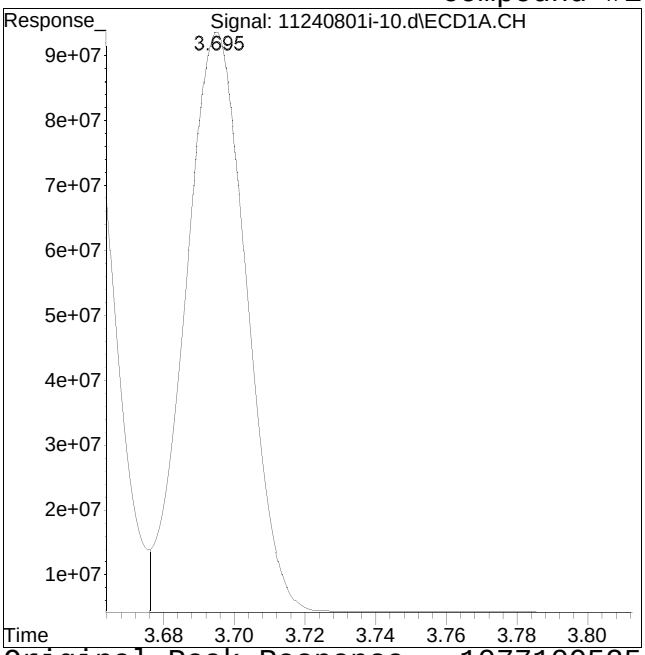
Original Peak Response = 1034530682 Manual Peak Response = 1034306048 M4
M4 = Poor automated baseline construction.

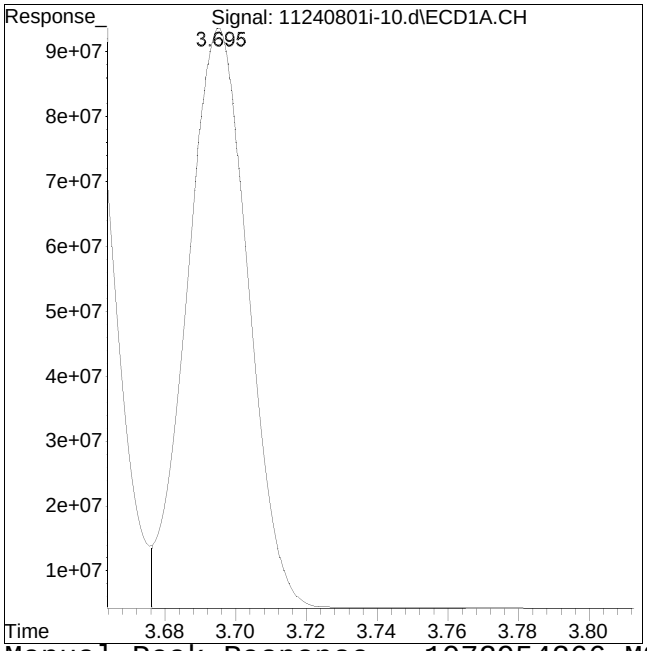
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #16: Endosulfan I



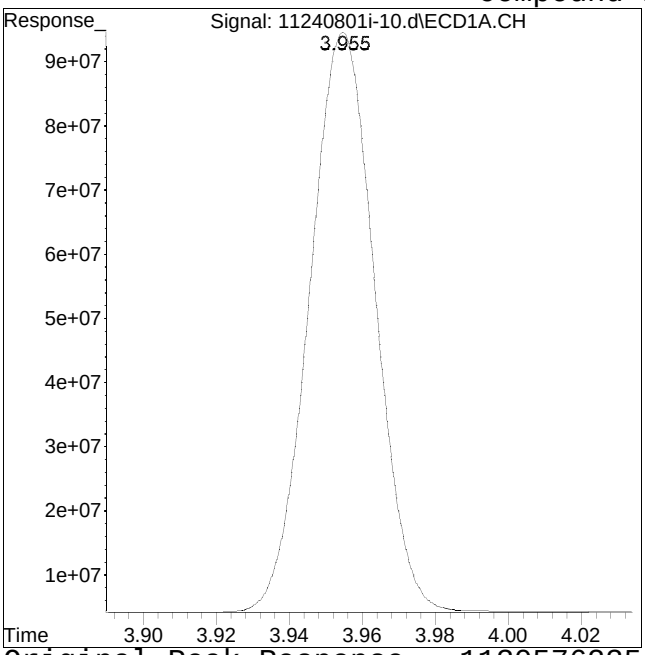


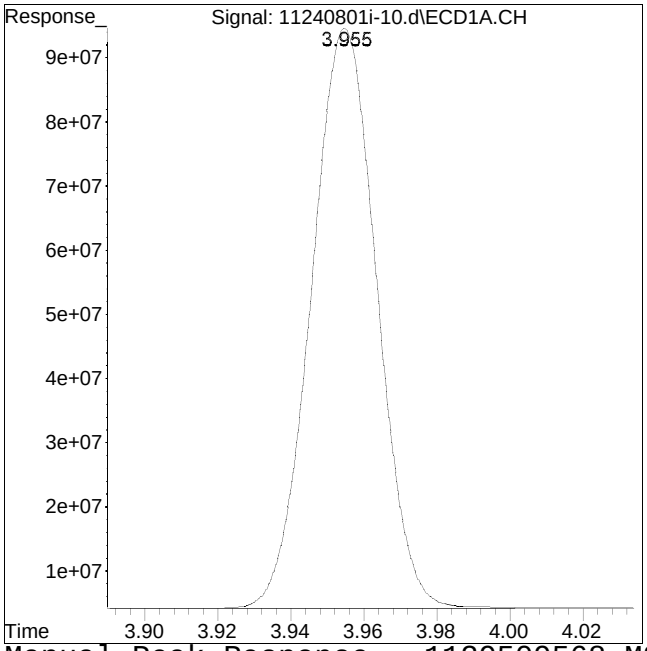
Original Peak Response = 1077109525 Manual Peak Response = 1072954266 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #17: Dieldrin



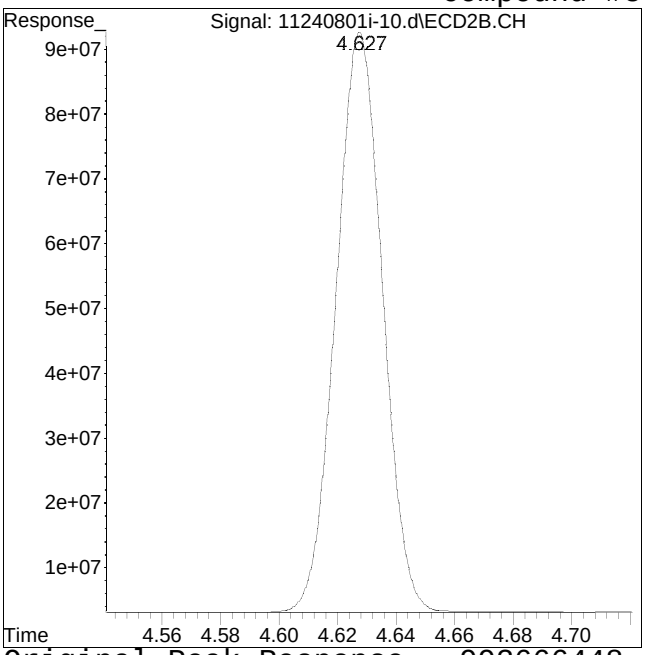


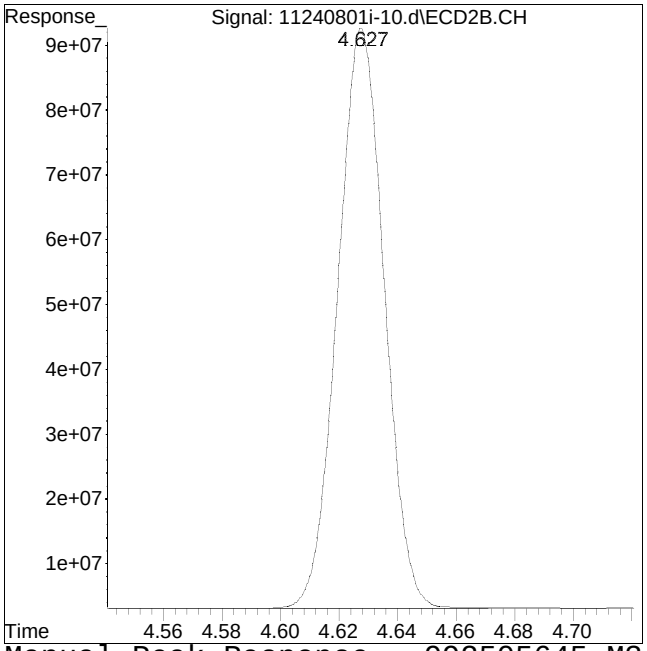
Original Peak Response = 1130576235 Manual Peak Response = 1129509568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #55: Dieldrin #2



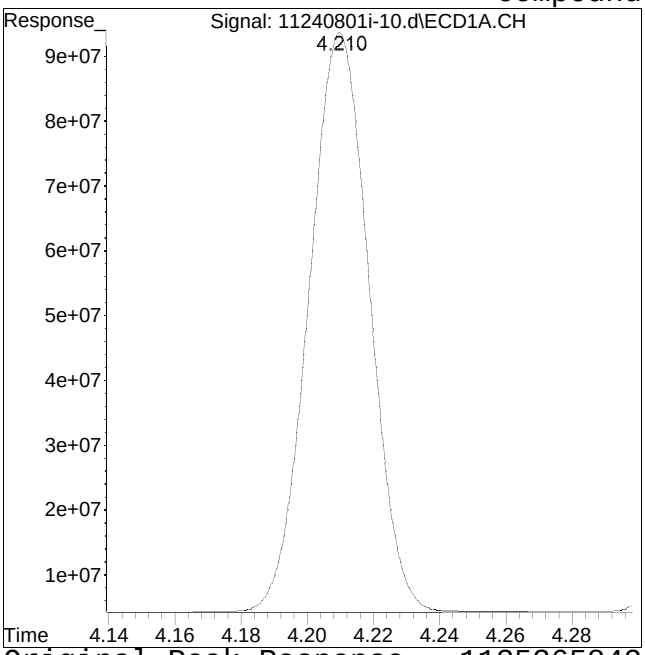


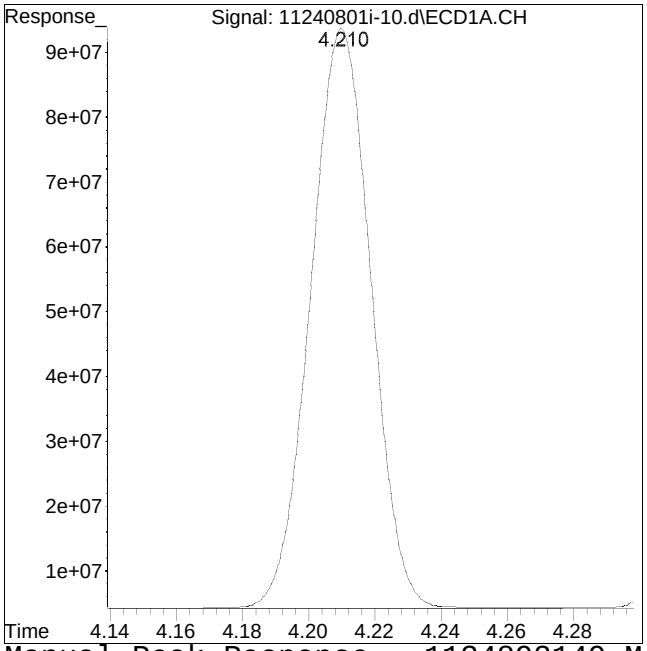
Original Peak Response = 993666448 Manual Peak Response = 992505645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #18: Endrin



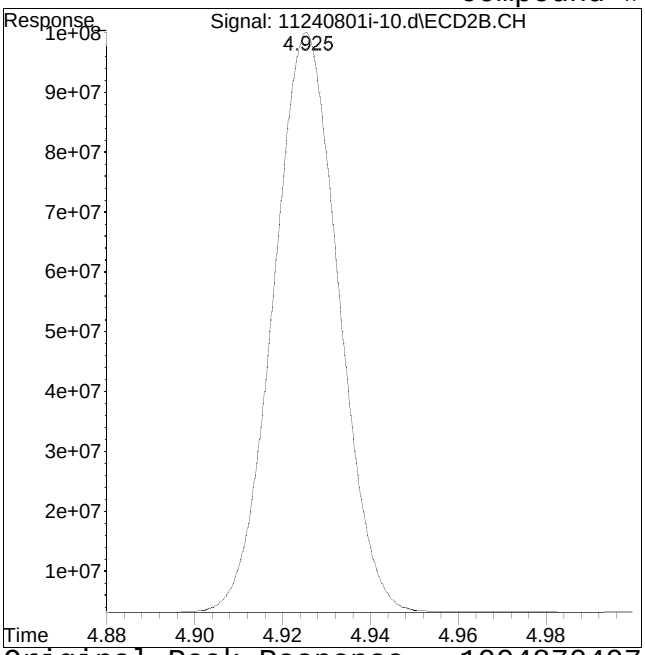


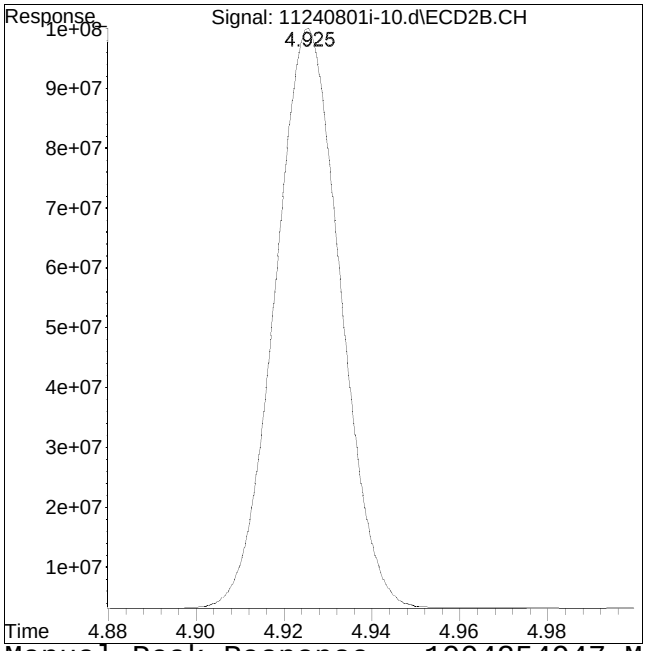
Original Peak Response = 1135365842 Manual Peak Response = 1134892149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #56: Endrin #2





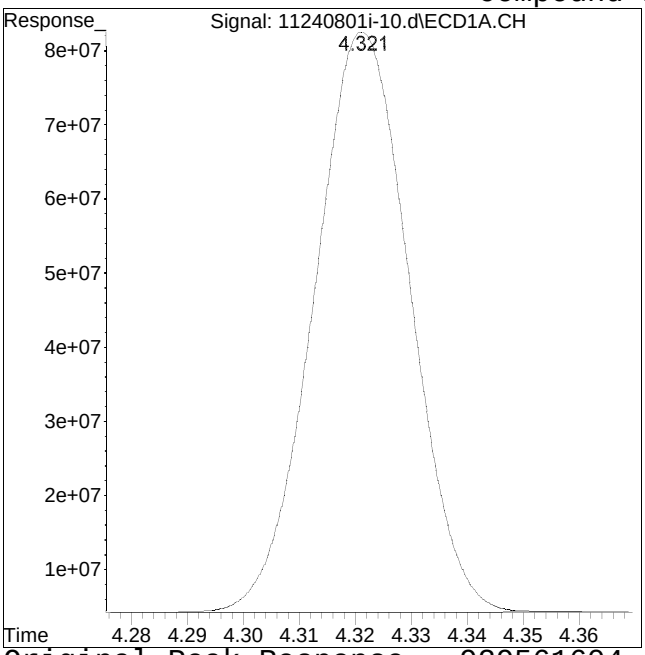
Original Peak Response = 1004870407 Manual Peak Response = 1004254947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

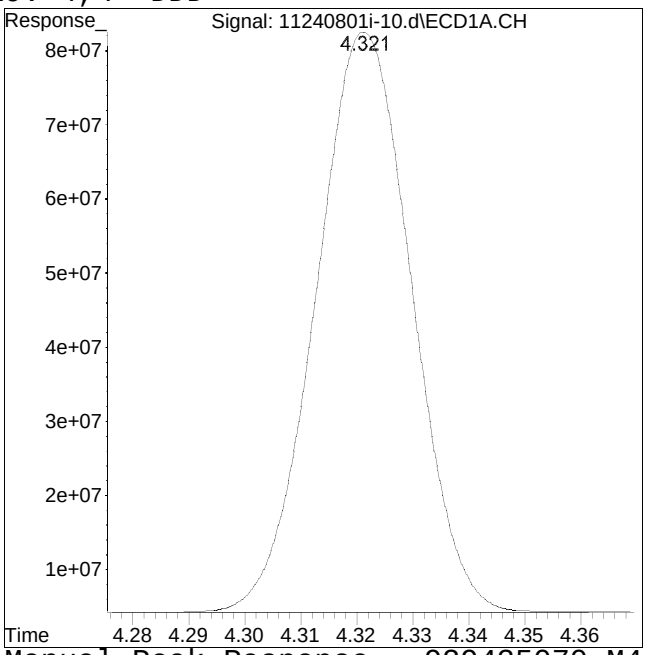
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #19: 4,4'-DDD



Original Peak Response = 929561604



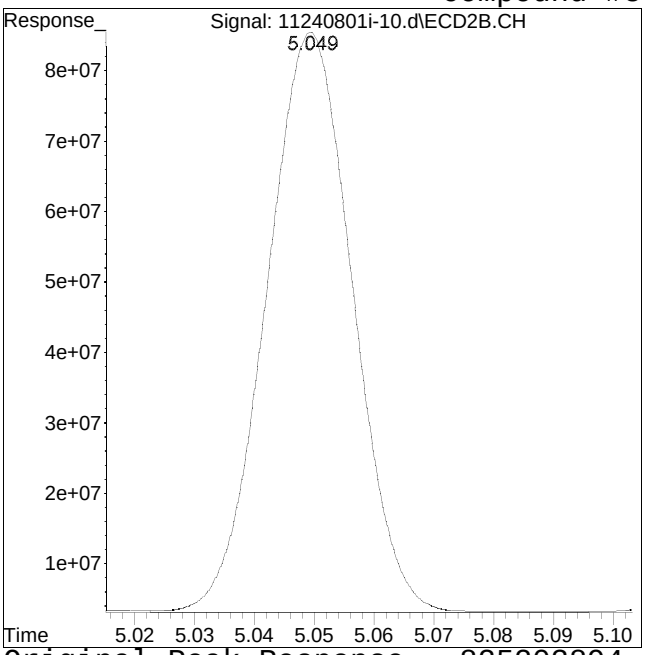
Manual Peak Response = 929435070 M4

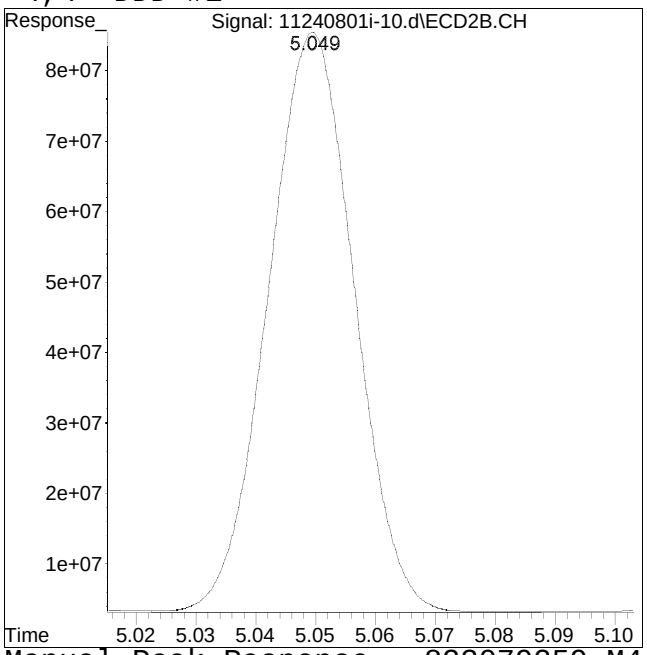
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #57: 4,4'-DDD #2



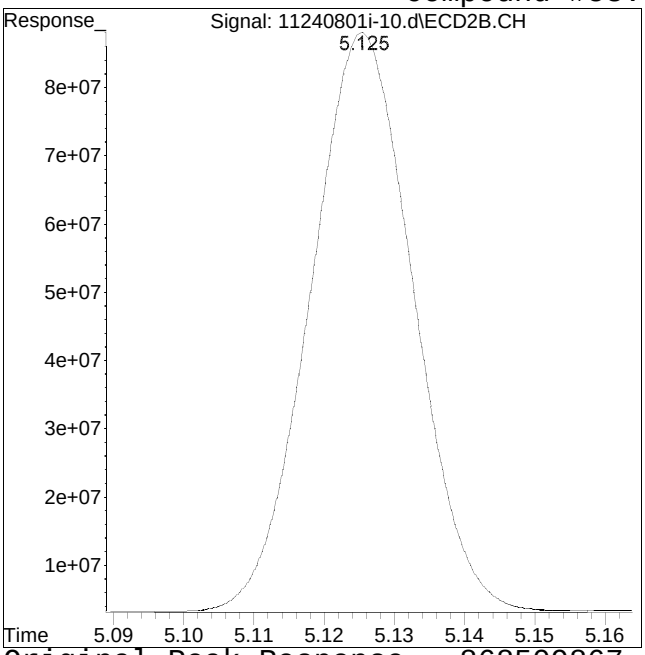


Original Peak Response = 825203894 Manual Peak Response = 823079259 M4
M4 = Poor automated baseline construction.

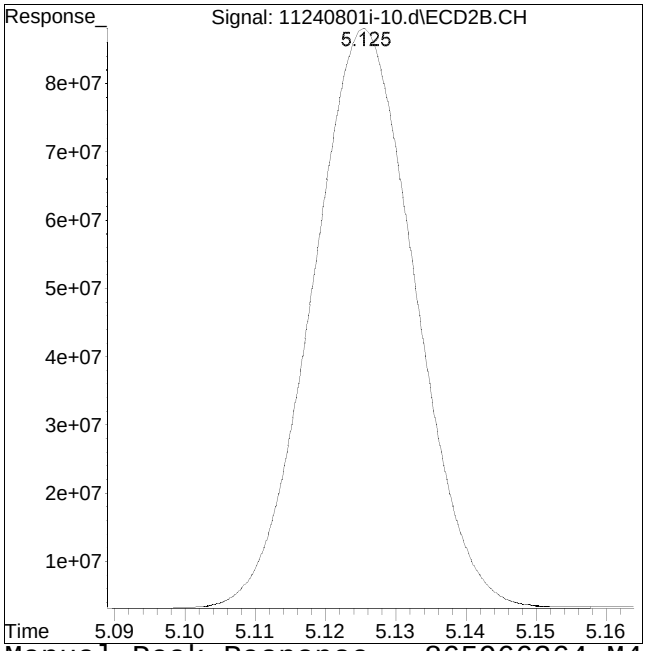
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #58: Endosulfan II #2



Original Peak Response = 868509867



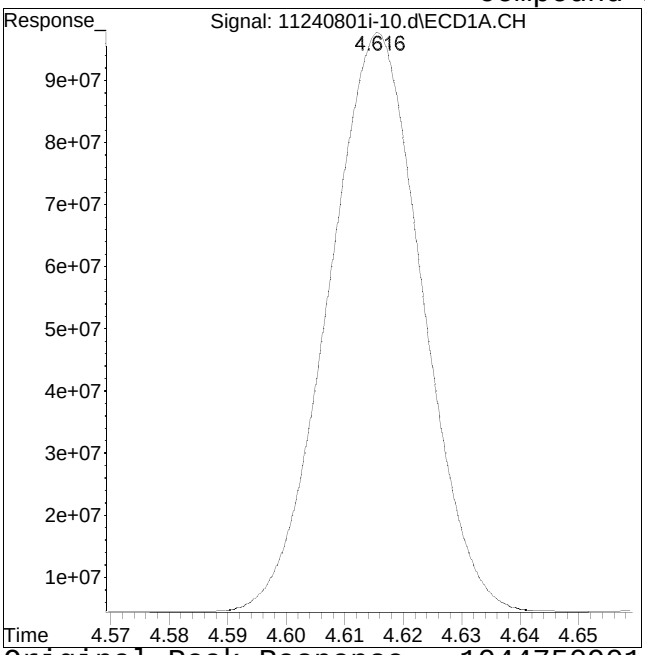
Manual Peak Response = 865966264 M4

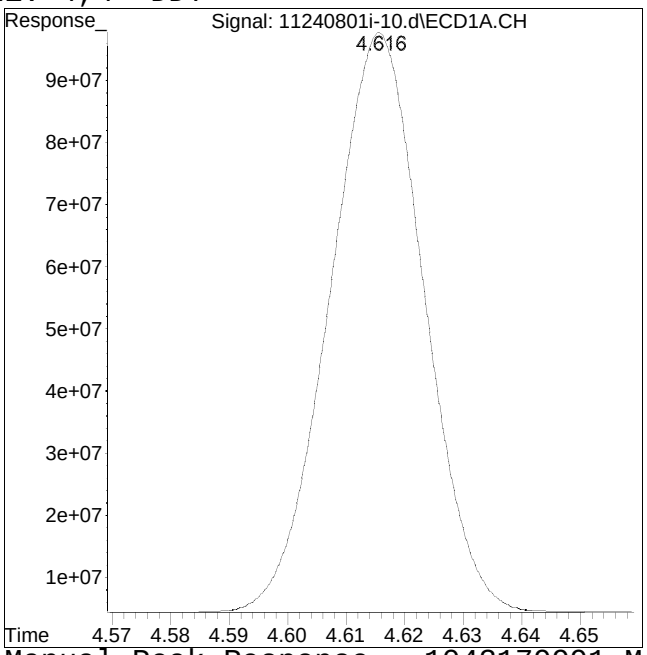
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #21: 4,4'-DDT





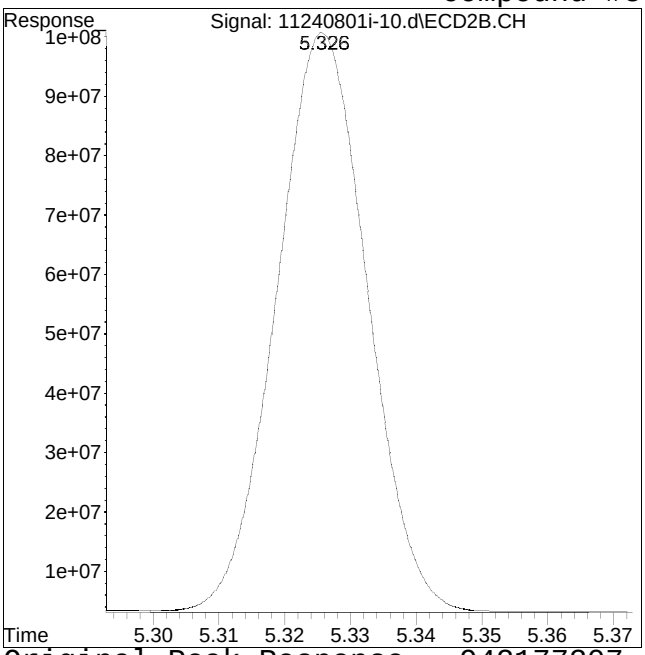
Original Peak Response = 1044750901 Manual Peak Response = 1043179991 M4
M4 = Poor automated baseline construction.

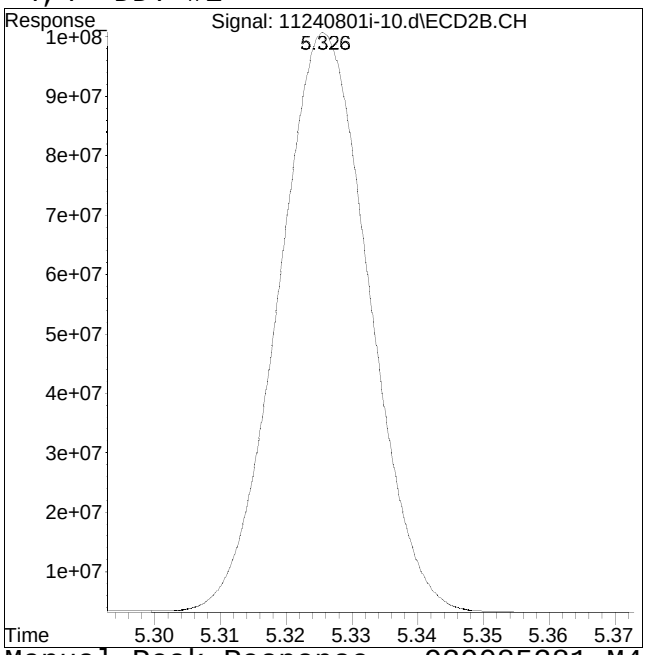
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #59: 4,4'-DDT #2





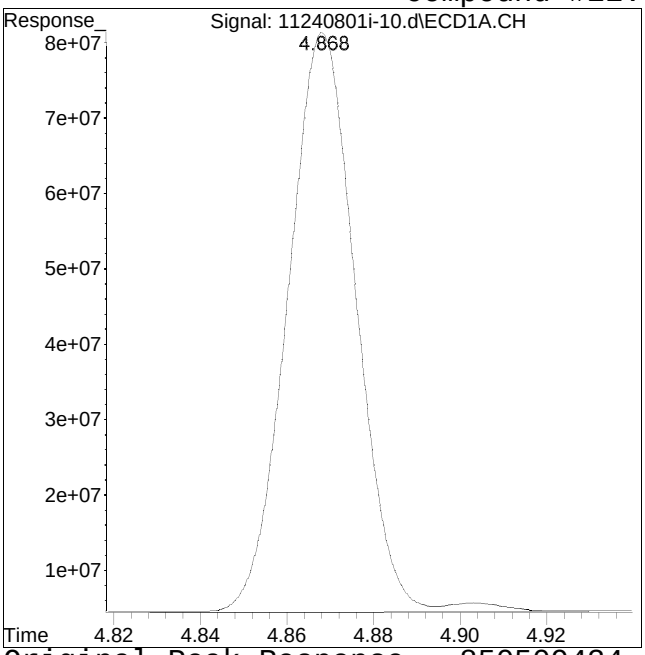
Original Peak Response = 942177307 Manual Peak Response = 939085381 M4
M4 = Poor automated baseline construction.

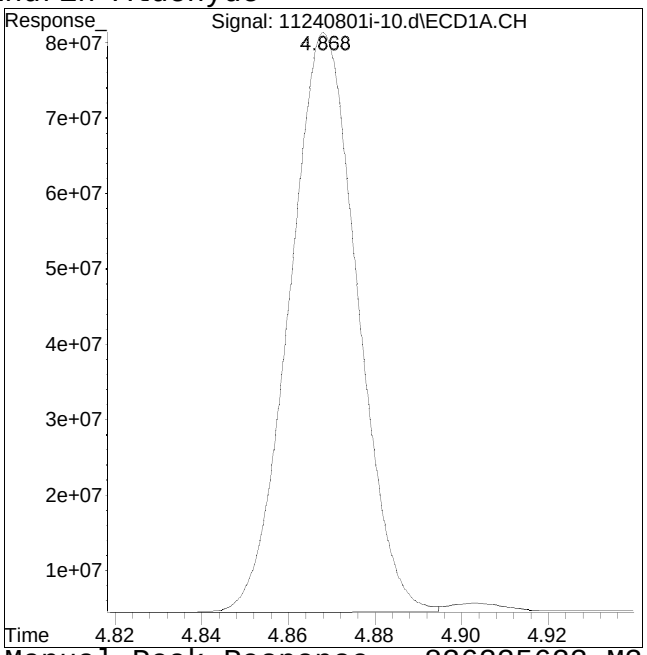
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #22: Endrin Aldehyde





Original Peak Response = 850509434 Manual Peak Response = 836335623 M3

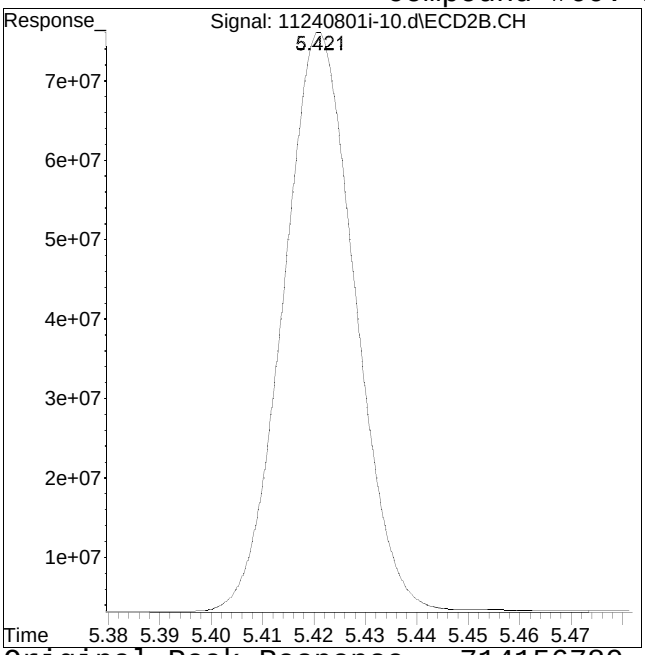
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

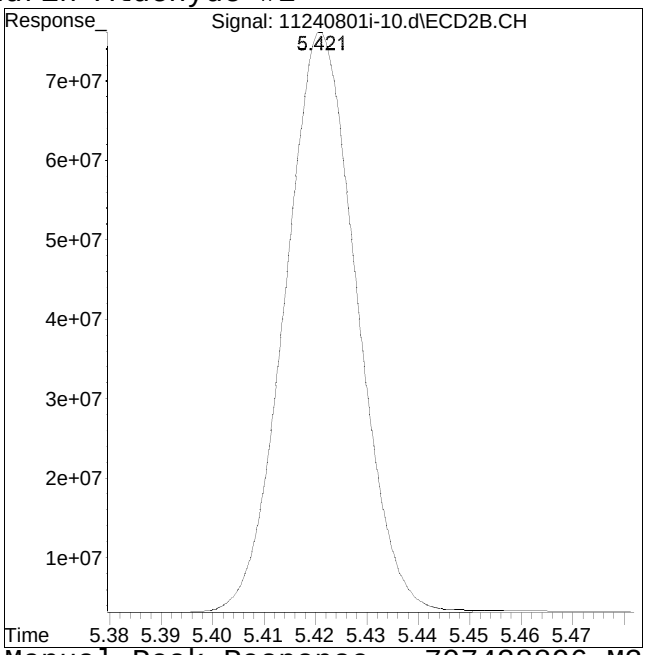
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 714156780 Manual Peak Response = 707438896 M3

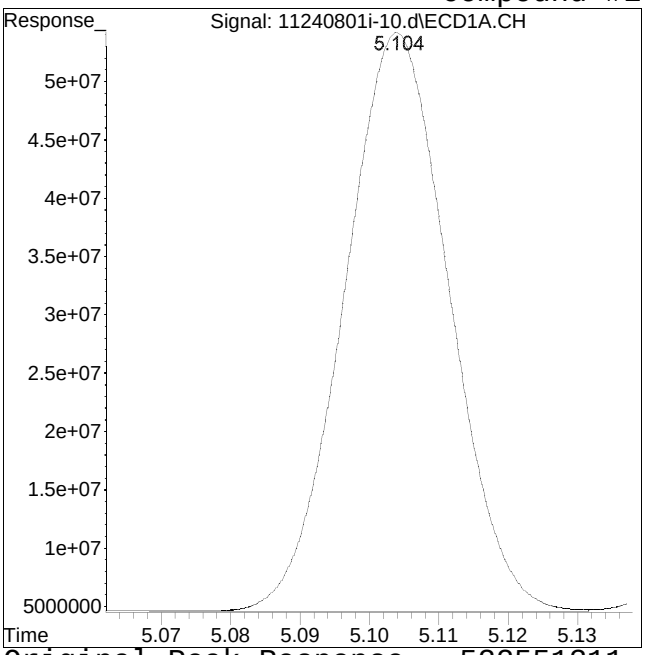
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

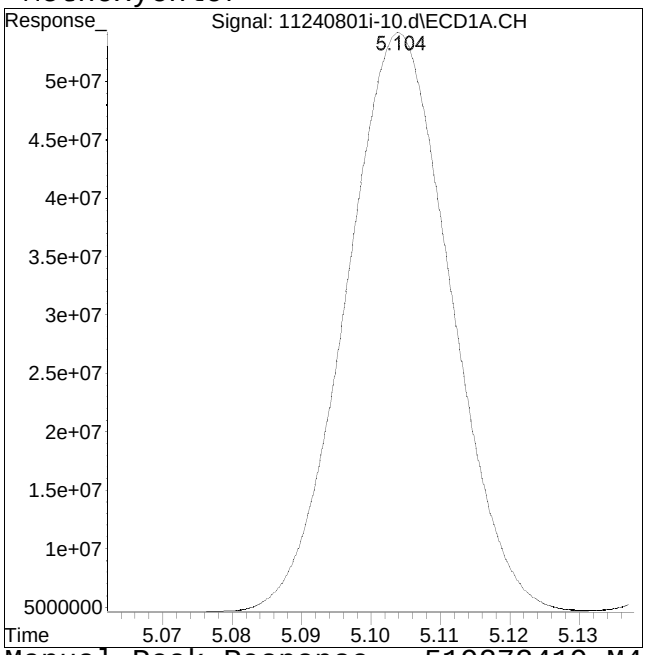
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #23: Methoxychlor



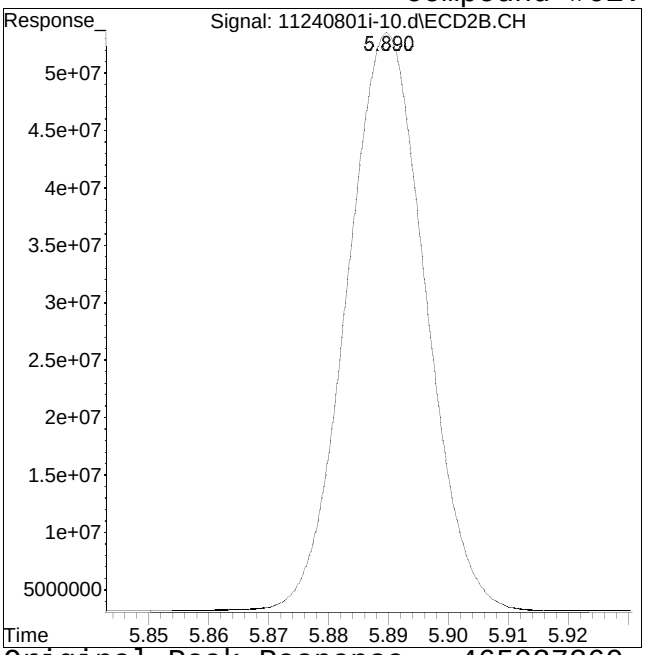


Original Peak Response = 522551311 Manual Peak Response = 519272419 M4
M4 = Poor automated baseline construction.

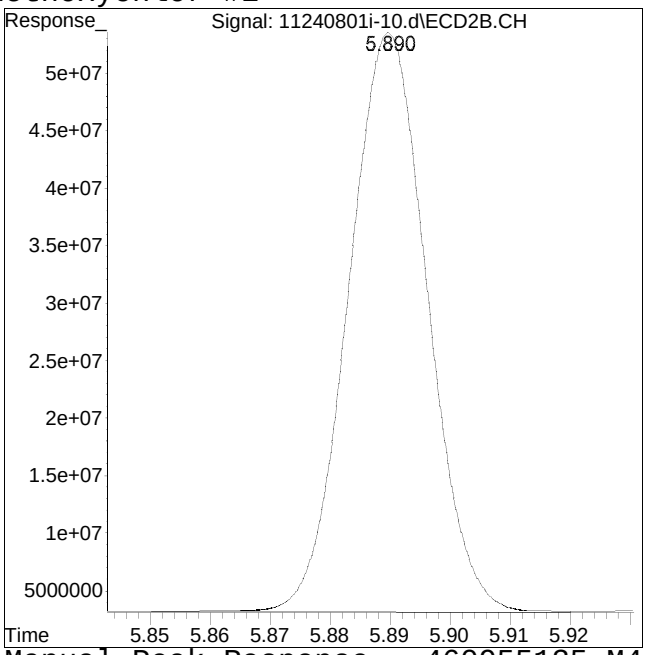
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #61: Methoxychlor #2



Original Peak Response = 465927360



Manual Peak Response = 460955135 M4

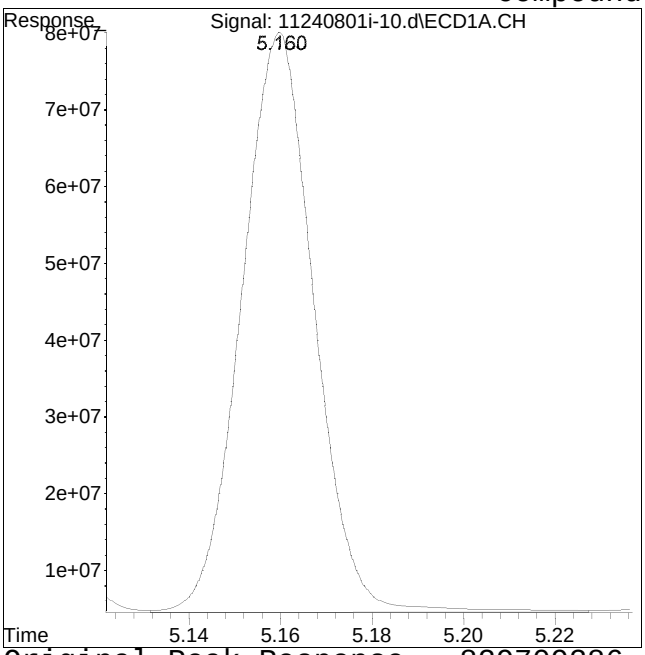
M4 = Poor automated baseline construction.

Manual Integration Report

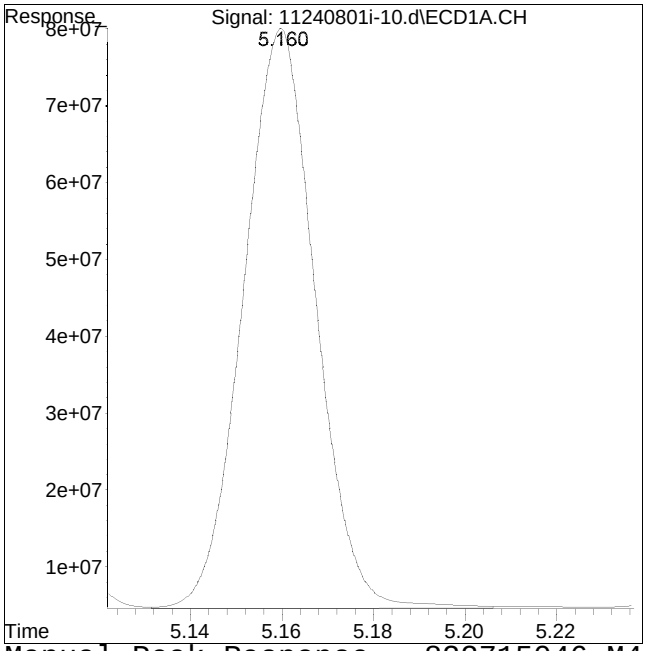
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #24: Mirex



Original Peak Response = 829709386



Manual Peak Response = 822715046 M4

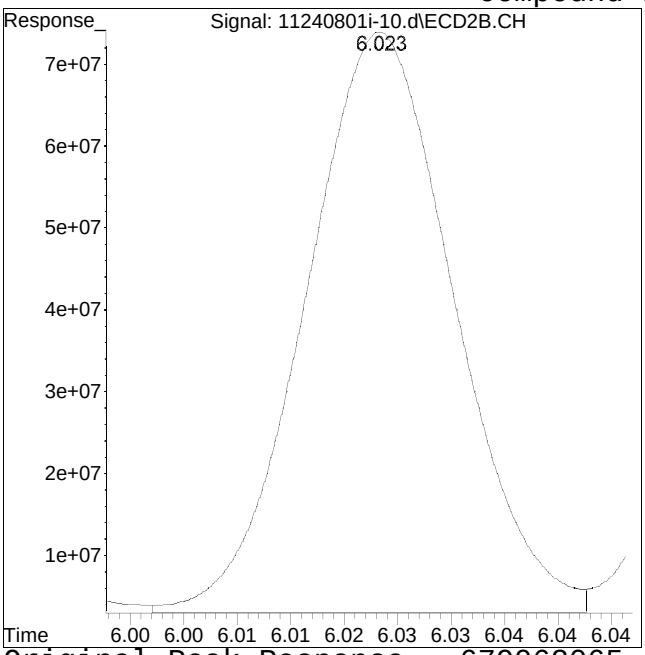
M4 = Poor automated baseline construction.

Manual Integration Report

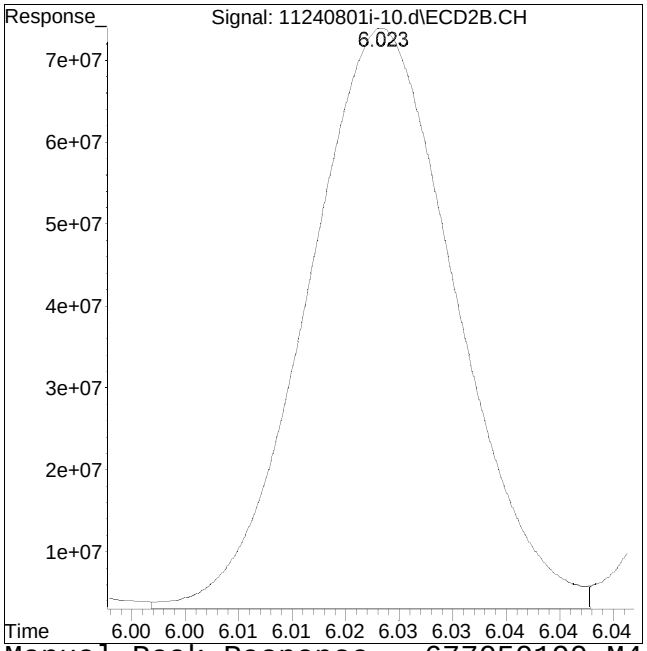
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #62: Mirex #2



Original Peak Response = 679062065



Manual Peak Response = 677050190 M4

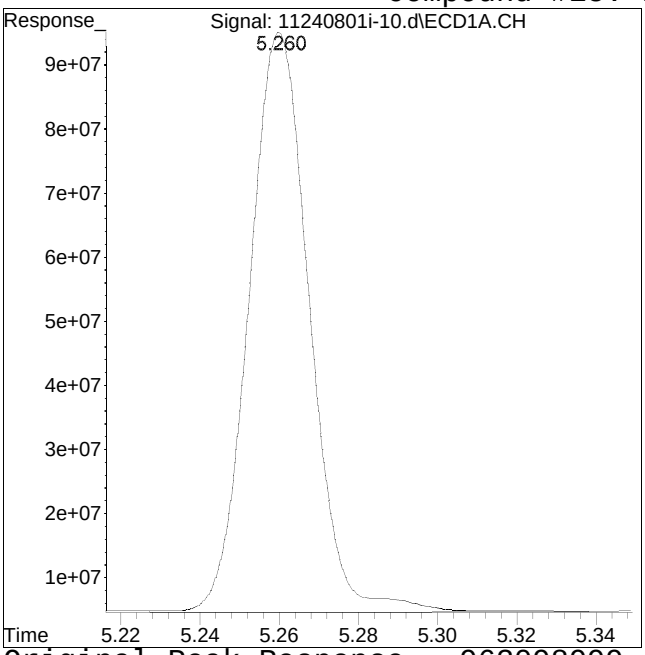
M4 = Poor automated baseline construction.

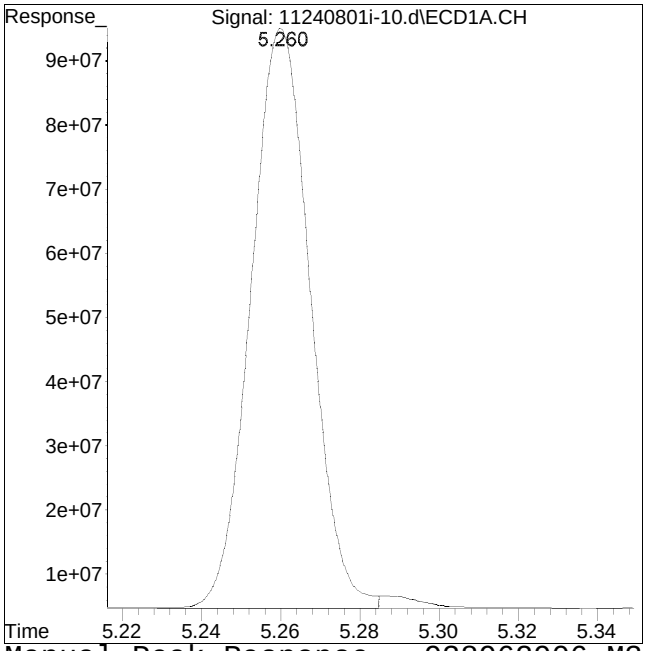
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 963098999 Manual Peak Response = 938962906 M3

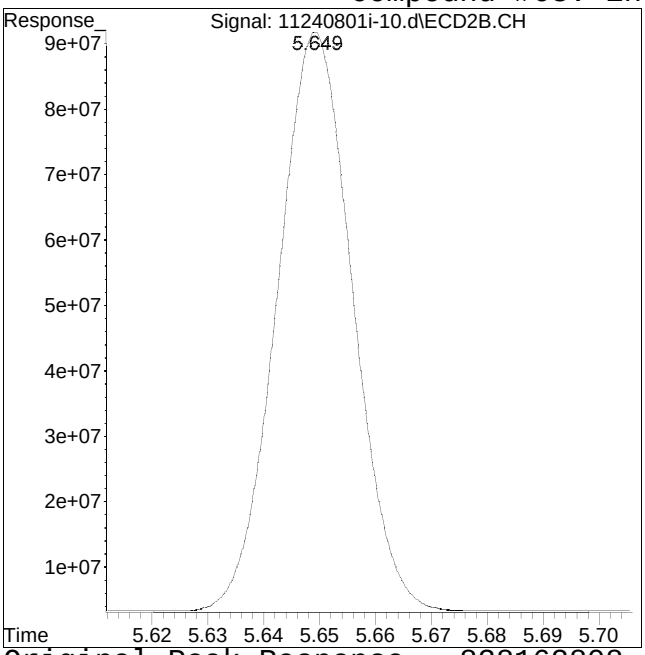
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

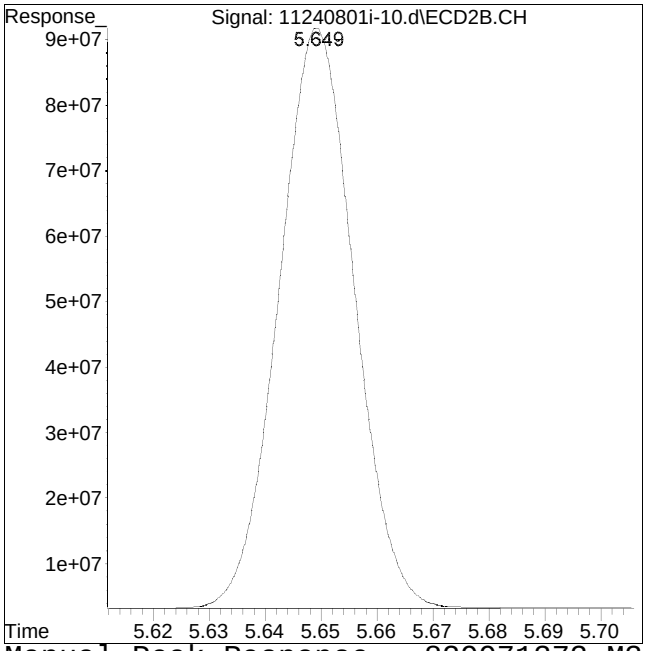
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 838162808 Manual Peak Response = 829971373 M3

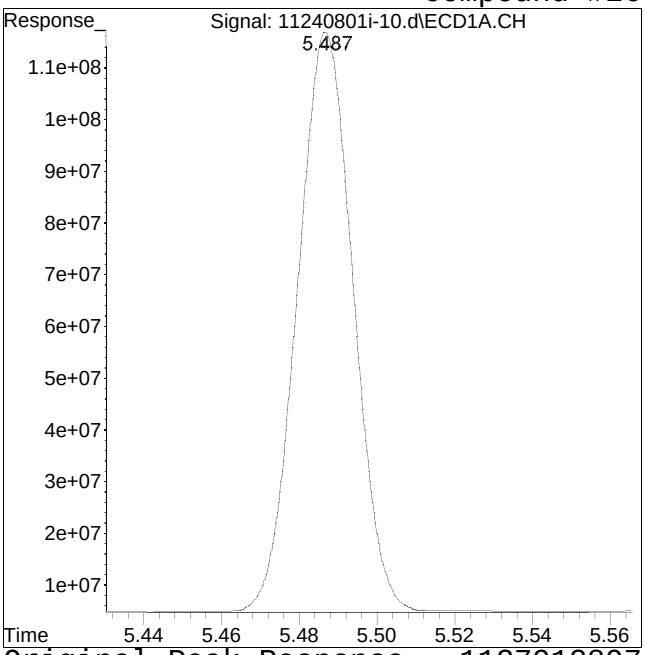
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

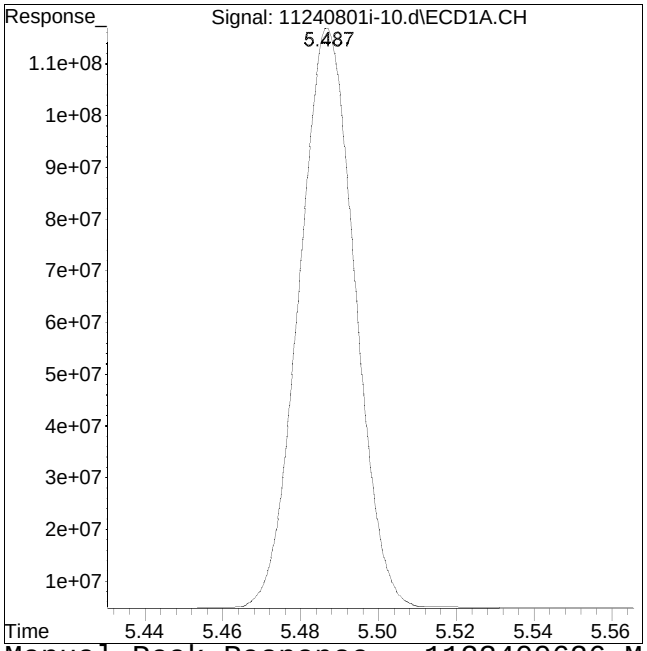
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #26: Endrin Ketone





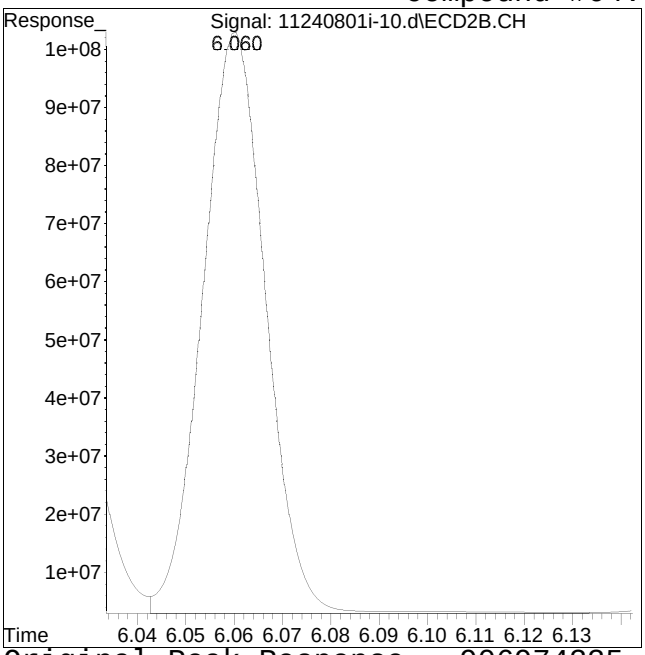
Original Peak Response = 1127912897 Manual Peak Response = 1123400626 M4
M4 = Poor automated baseline construction.

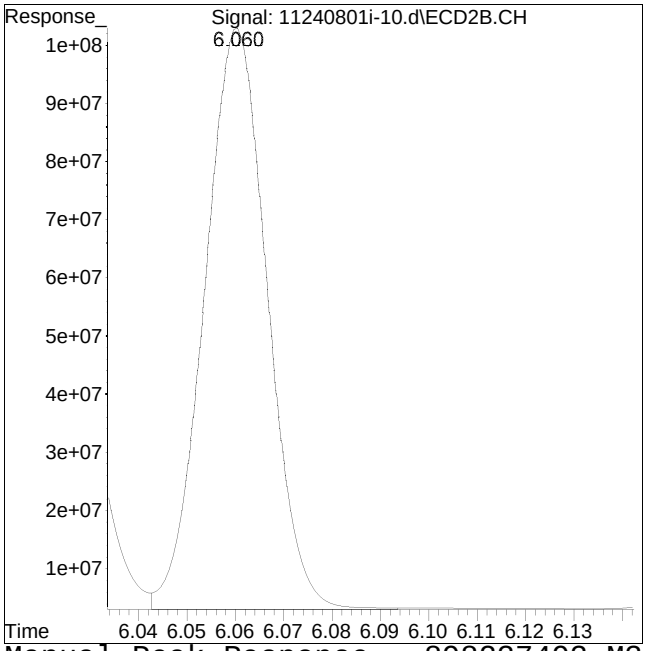
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #64: Endrin Ketone #2





Original Peak Response = 906974335 Manual Peak Response = 898237493 M3

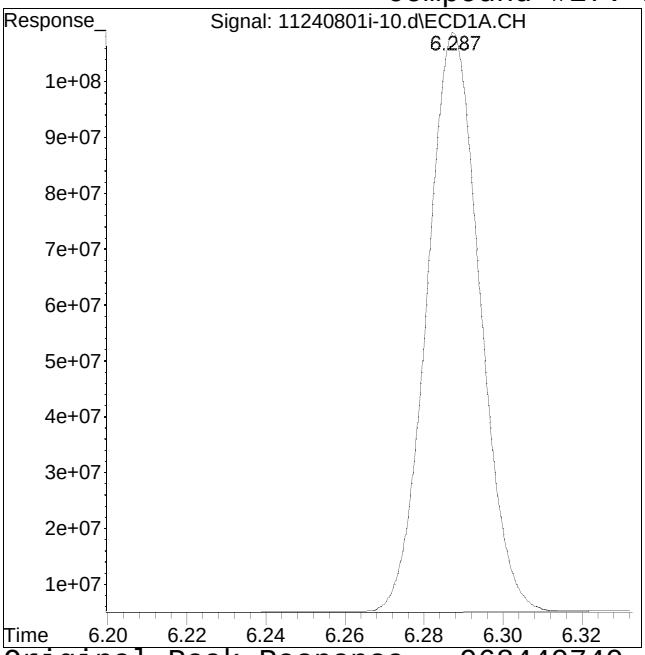
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

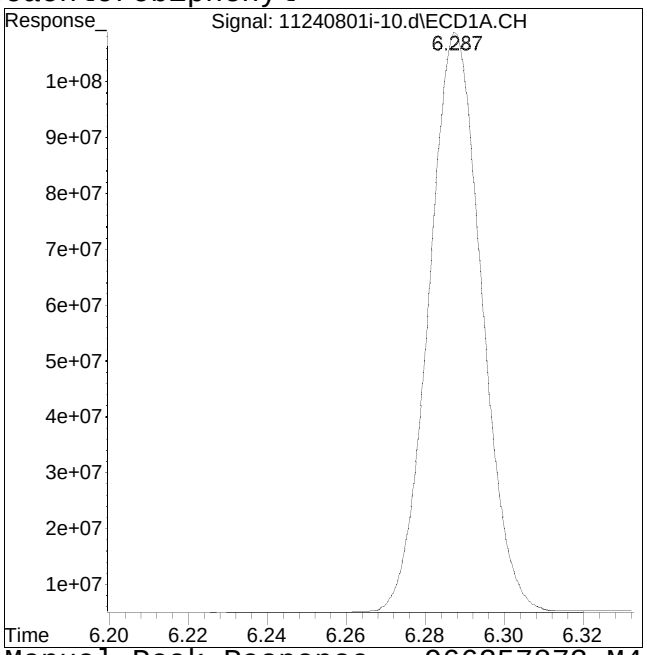
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 968440740



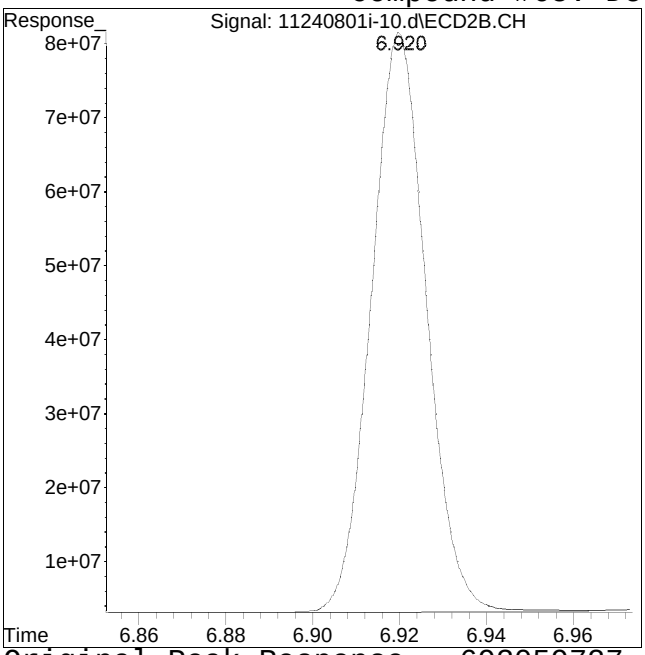
Manual Peak Response = 966357873 M4

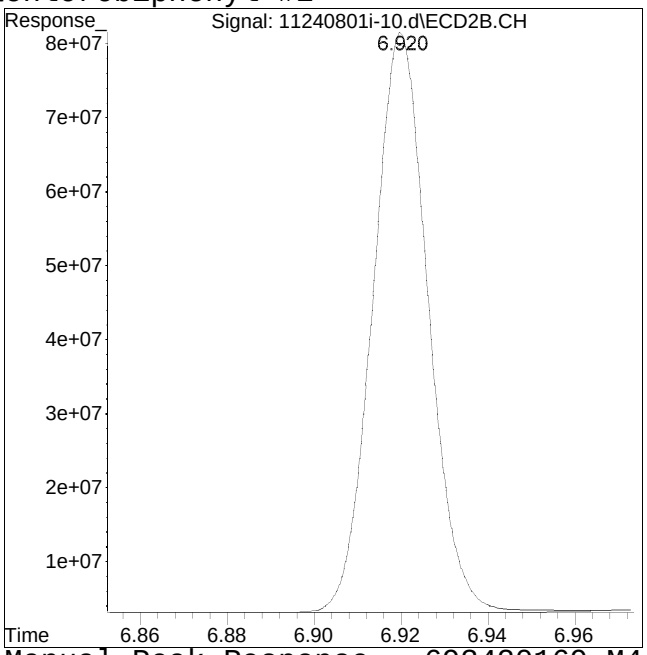
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 693059727 Manual Peak Response = 693420169 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	234.6E6	183.1E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	1913.3E6	1598.0E6	193.264M3	202.706M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		386.53%#	405.41%#
27) s	Decachlorobi	6.288	6.920	1913.5E6	1380.9E6	195.015M4	201.842M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		390.03%#	403.68%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	2442.7E6	1675.4E6	191.797M3	199.678
4) t	alpha-BHC	1.964	2.271	3010.2E6	2583.6E6	198.283M4	206.150M3
5) t	gamma-BHC (l	2.166	2.557	2765.0E6	2320.8E6	197.699M3	205.175M4
6) t	beta-BHC	2.221	2.622	1120.5E6	933.3E6	194.276M4	198.901M4
7) t	delta-BHC	2.350	2.889	2819.2E6	2384.1E6	199.250M4	206.915M4
8) t	Heptachlor	2.513	2.952	2482.5E6	2268.1E6	191.877M4	198.593M4
9) t	Aldrin	2.757	3.271	2440.7E6	2165.8E6	197.425M4	203.689
10) t	Alachlor	2.877	3.153	373.3E6	252.0E6	178.169M4	180.792M3
11) t	Chlorpyrifos	2.969	3.506	874.1E6	975.3E6	175.986M4	185.391M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	2205.7E6	1981.0E6	192.763M3	199.269M4
13)	t	gamma-Chlord	3.425	4.105	2083.4E6	1868.5E6	200.885M4	206.064M4
14)	t	alpha-Chlord	3.559	4.274	2331.6E6	2051.6E6	198.900M3	204.428M4
15)	t	4,4'-DDE	3.657	4.473	2393.8E6	2077.4E6	202.115M4	207.169M3
16)	t	Endosulfan I	3.696	4.336	2104.4E6	1850.2E6	194.817M4	199.685M4
17)	t	Dieldrin	3.955	4.628	2245.1E6	1969.5E6	198.785M4	203.766M4
18)	t	Endrin	4.210	4.926	2229.3E6	1985.9E6	195.383M3	202.639M4
19)	t	4,4'-DDD	4.322	5.050	1880.5E6	1661.0E6	203.384M4	208.277M4
20)	t	Endosulfan I	4.452	5.126	1974.6E6	1684.2E6	192.875M4	198.396M4
21)	t	4,4'-DDT	4.616	5.326	2109.7E6	1890.1E6	202.314M4	207.312M3
22)	t	Endrin Aldeh	4.869	5.421	1666.3E6	1402.7E6	198.364M4	202.391M3
23)	t	Methoxychlor	5.104	5.890	988.3E6	899.3E6	185.976M4	196.434M3
24)	t	Mirex	5.160	6.023	1621.2E6	1338.7E6	194.224M4	199.638M4
25)	t	Endosulfan S	5.260	5.649	1840.3E6	1637.4E6	194.770M3	201.144M4
26)	t	Endrin Keton	5.487	6.060	2176.6E6	1757.5E6	191.458M4	198.938M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

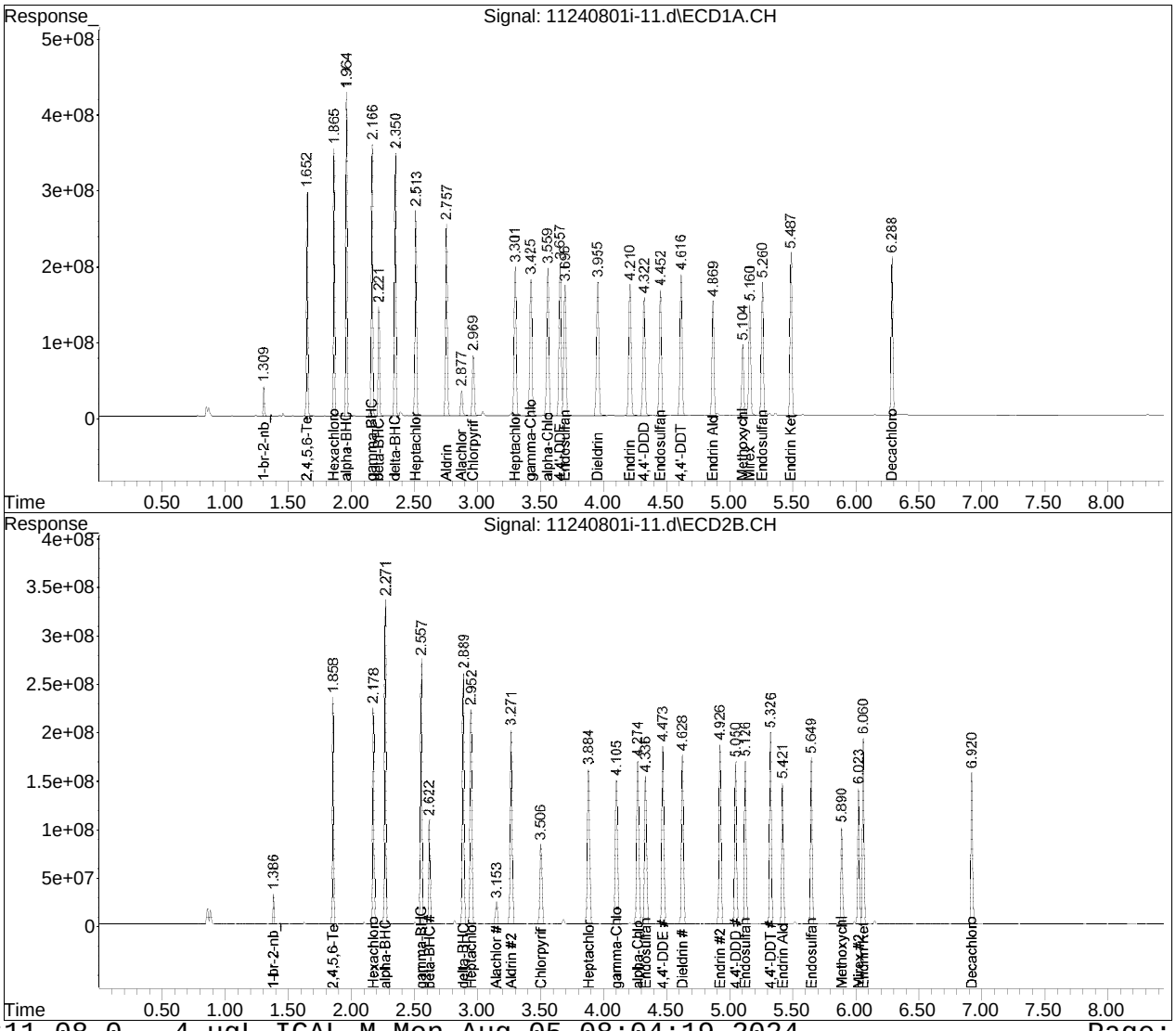
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

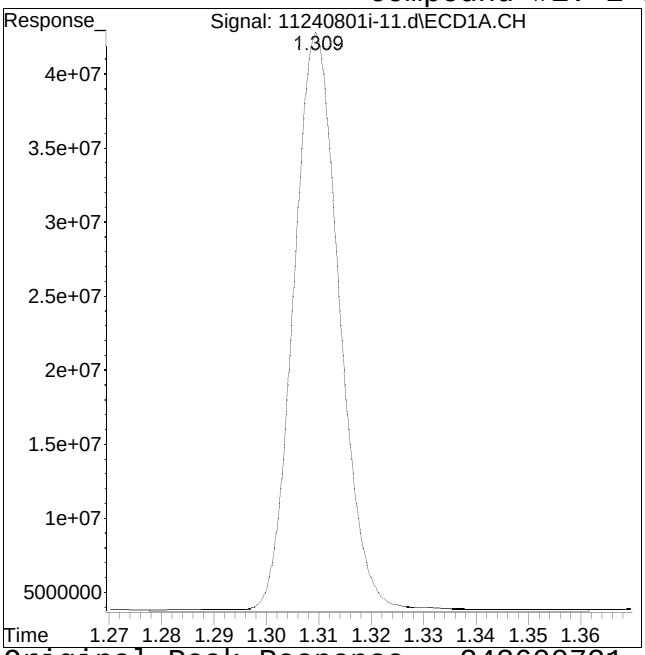


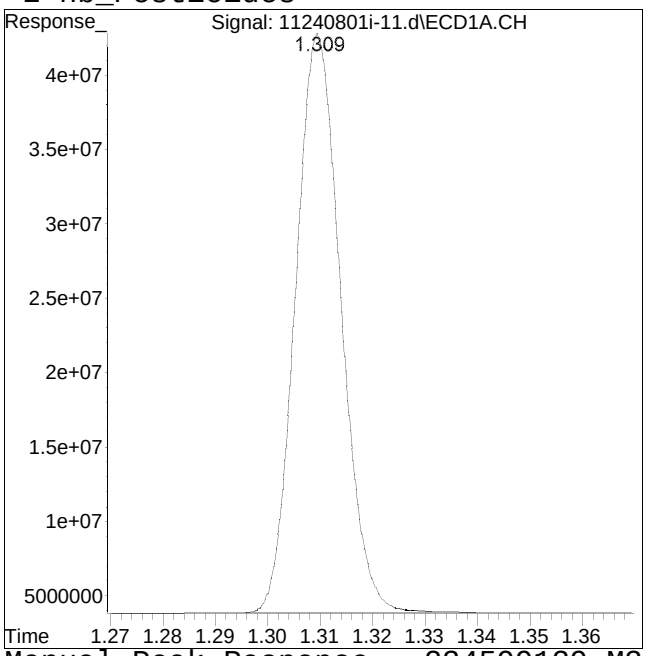
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #1: 1-br-2-nb_Pesticides





Original Peak Response = 243600721 Manual Peak Response = 234599129 M3

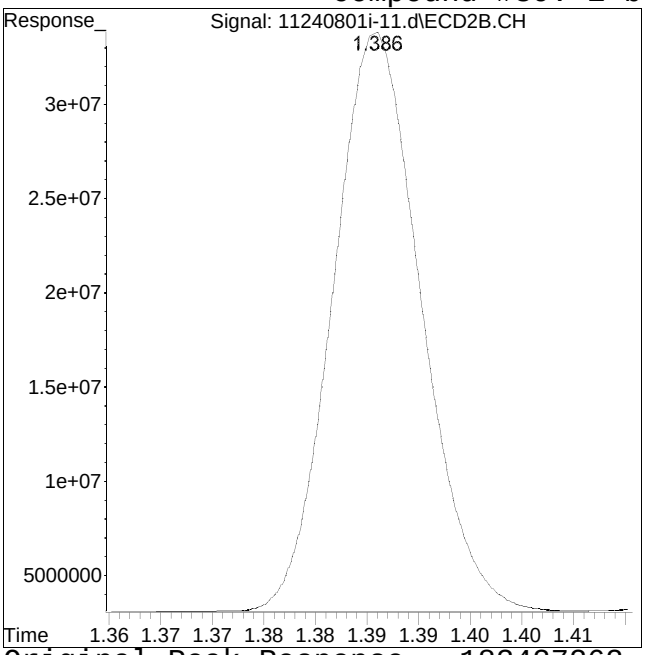
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

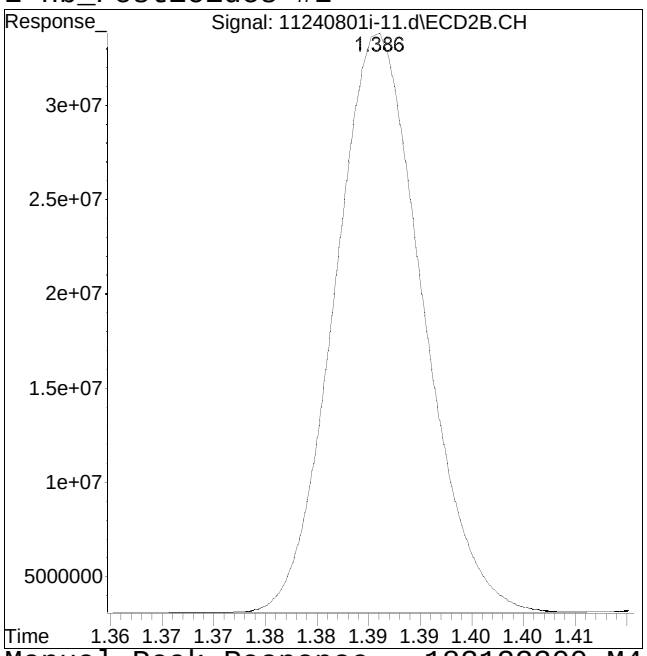
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #39: 1-br-2-nb_Pesticides #2



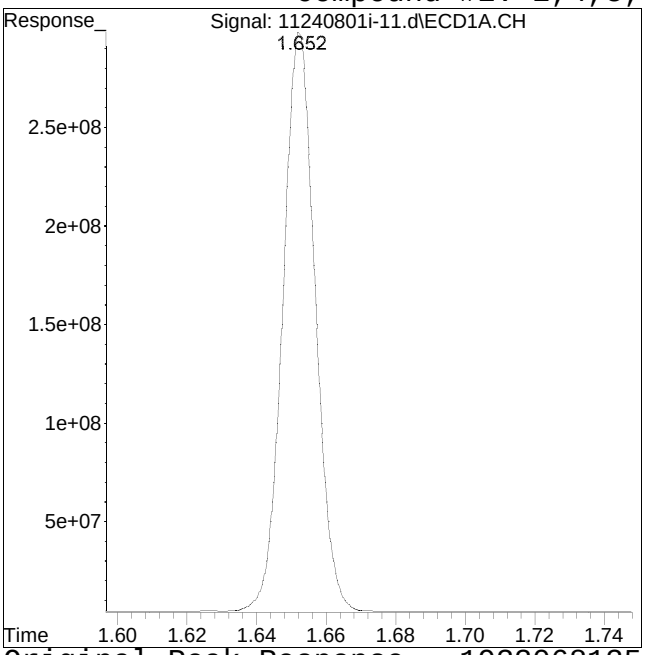


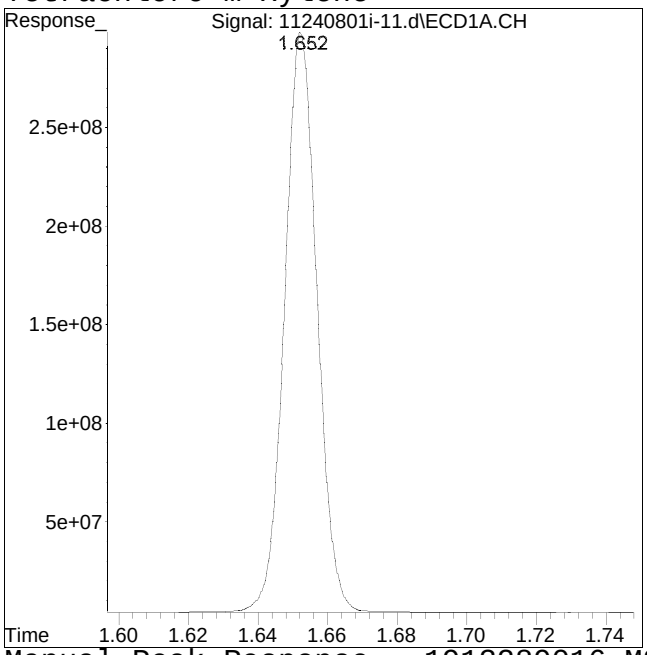
Original Peak Response = 183427262 Manual Peak Response = 183123300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





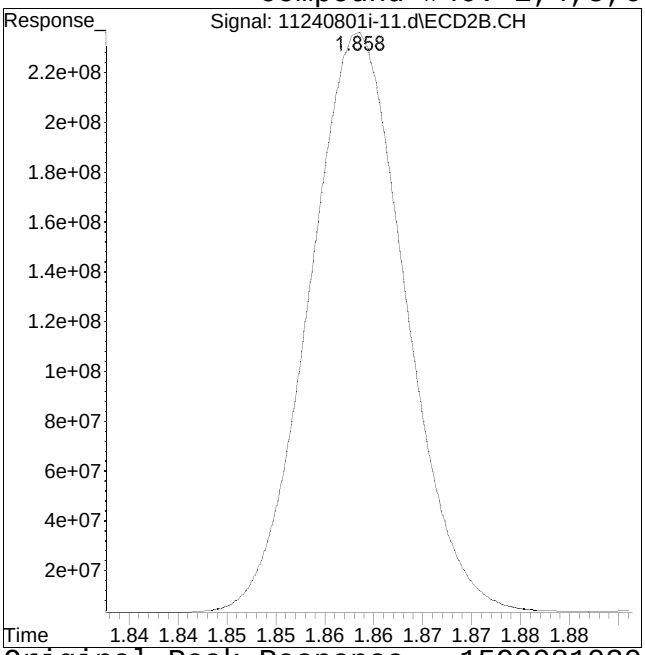
Original Peak Response = 1933068135 Manual Peak Response = 1913289016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

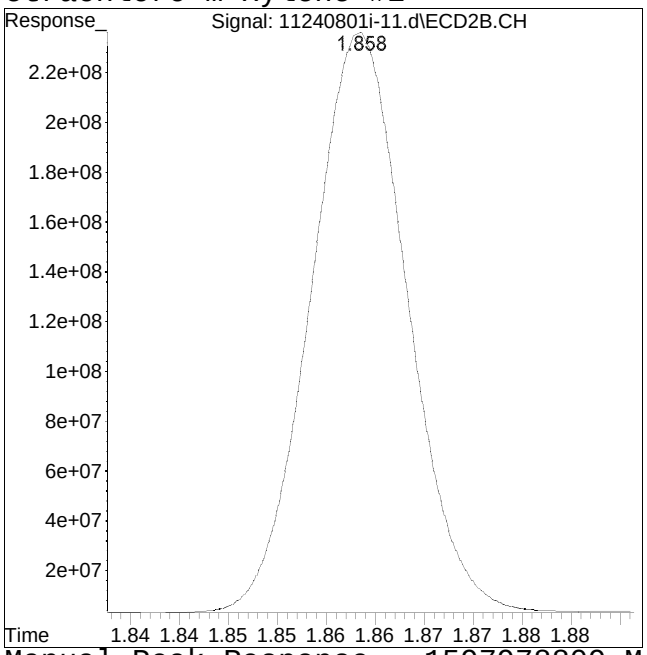
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





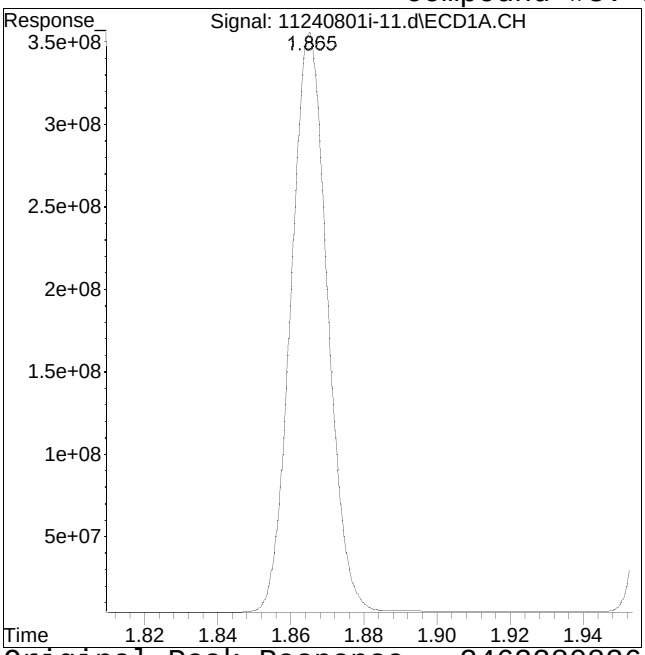
Original Peak Response = 1599081030 Manual Peak Response = 1597978809 M4
M4 = Poor automated baseline construction.

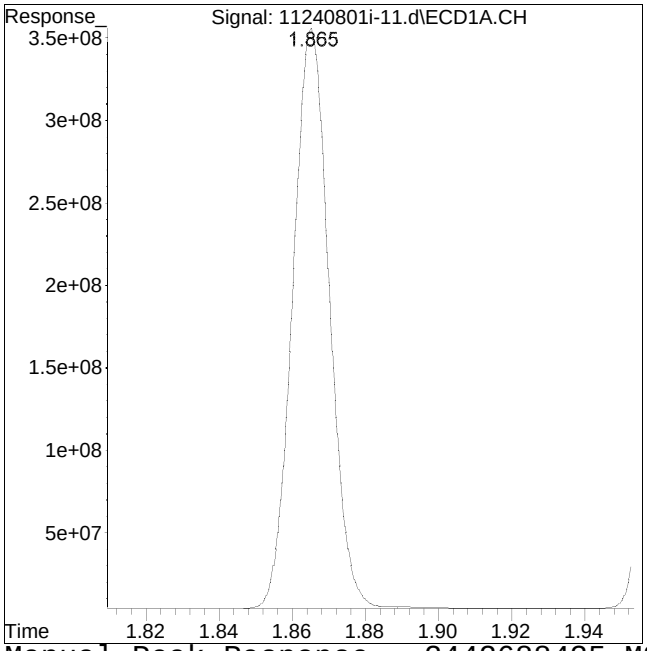
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #3: Hexachlorobenzene



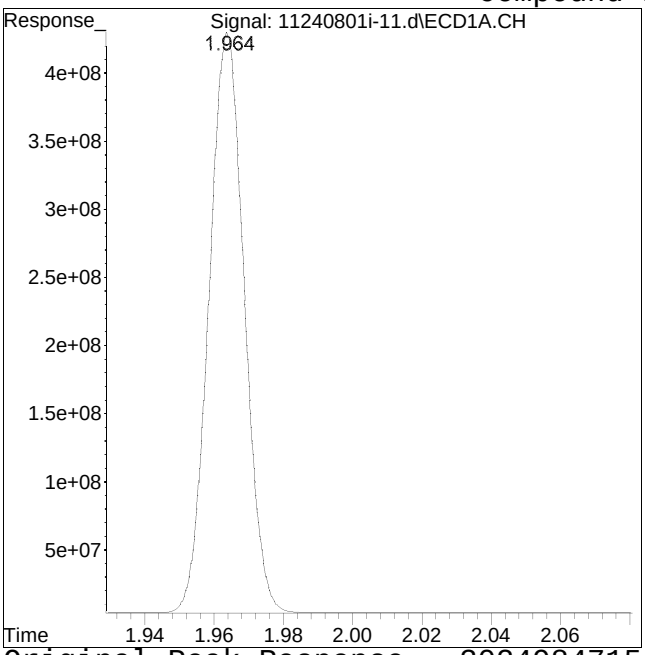


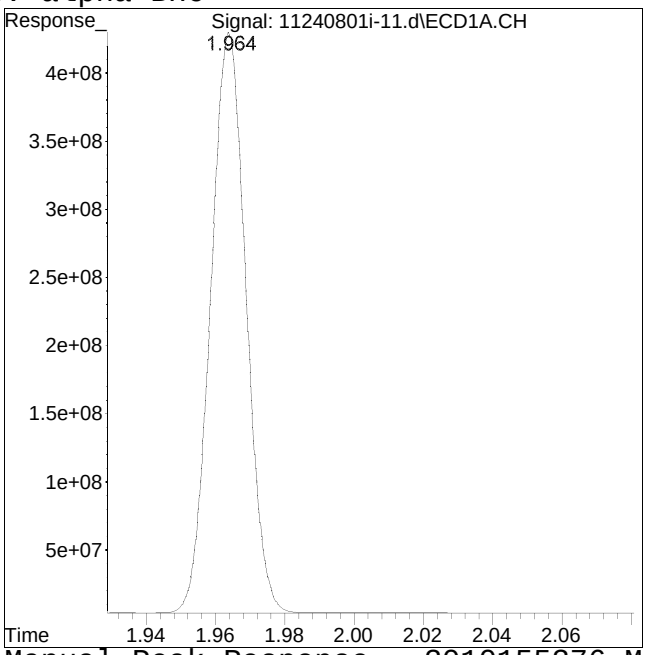
Original Peak Response = 2463280836 Manual Peak Response = 2442688435 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #4: alpha-BHC



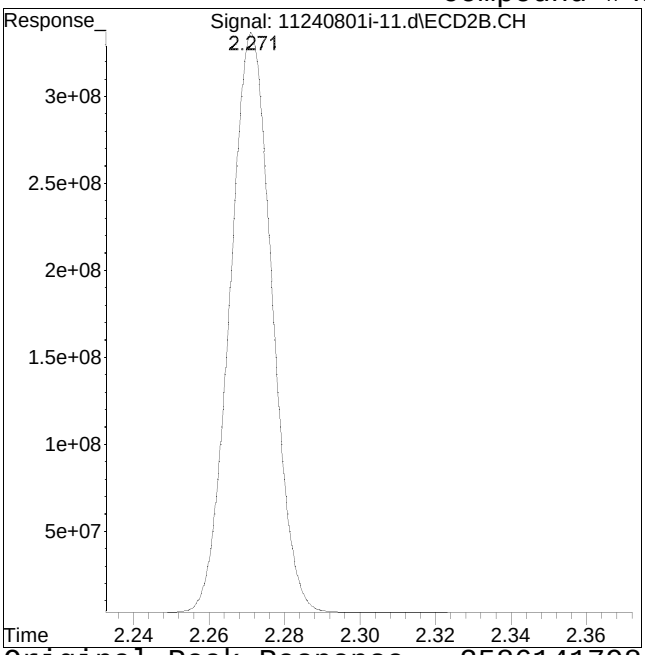


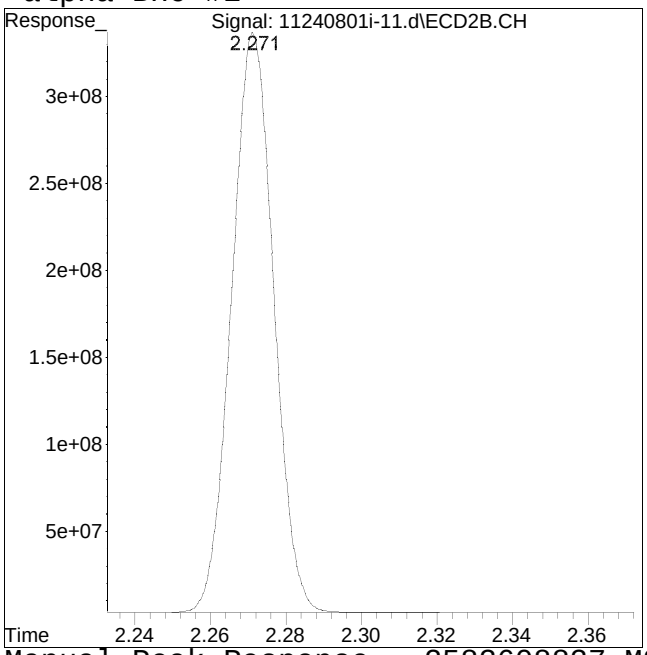
Original Peak Response = 3024984715 Manual Peak Response = 3010155376 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #42: alpha-BHC #2



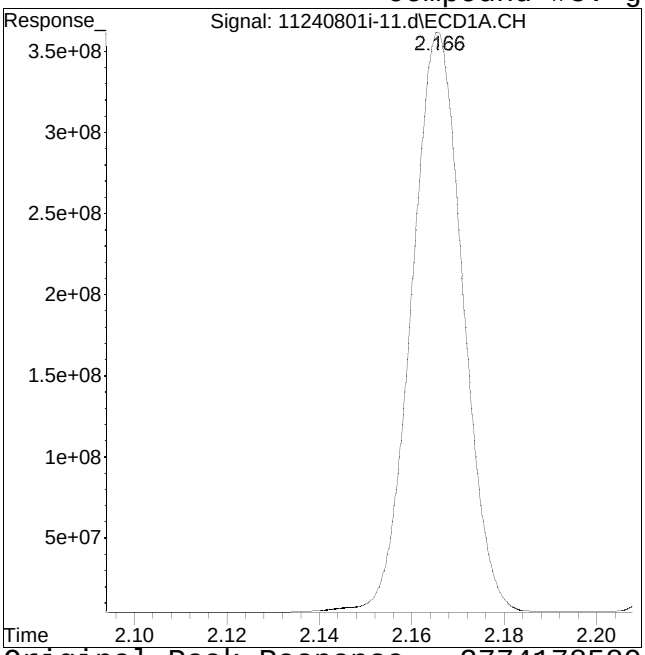


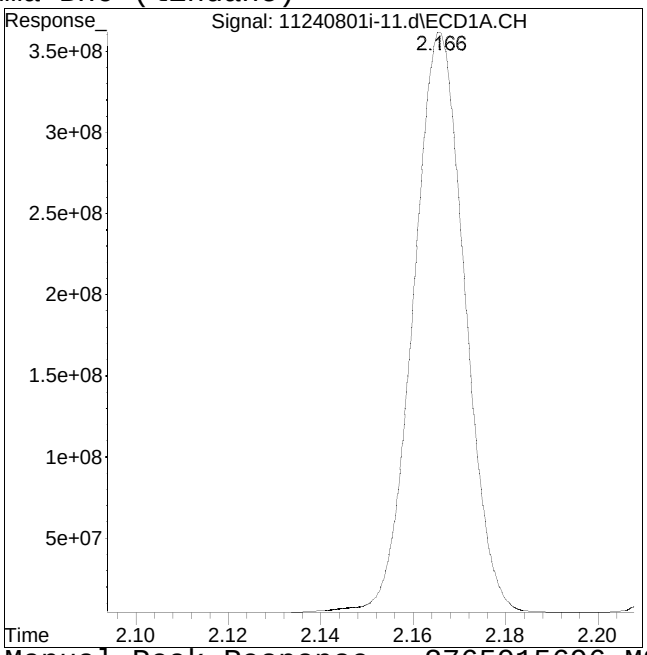
Original Peak Response = 2586141798 Manual Peak Response = 2583608837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #5: gamma-BHC (lindane)





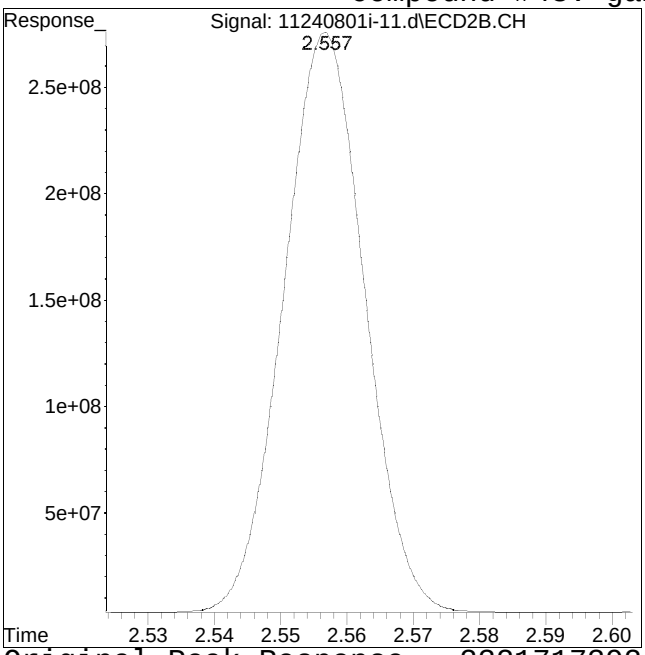
Original Peak Response = 2774178589 Manual Peak Response = 2765015696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

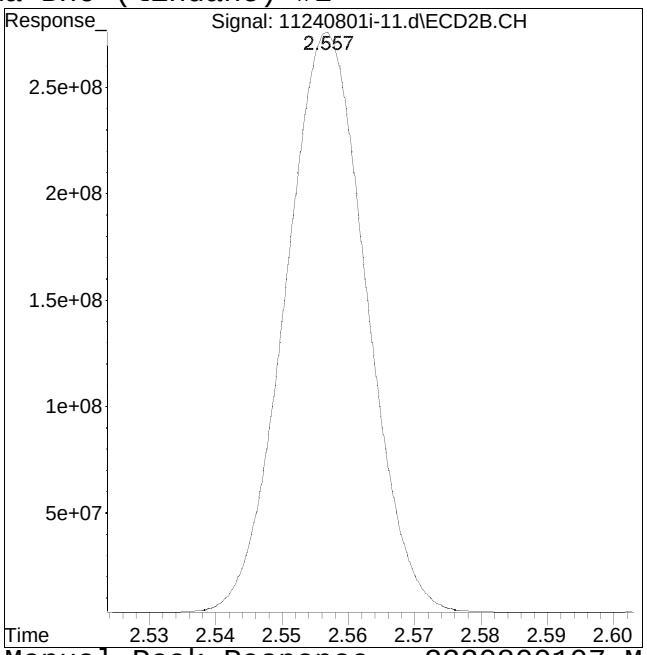
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #43: gamma-BHC (lindane) #2



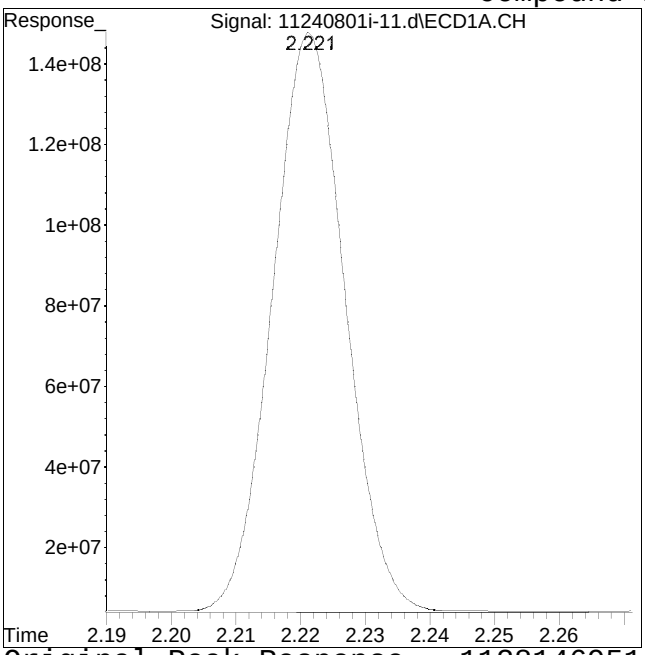


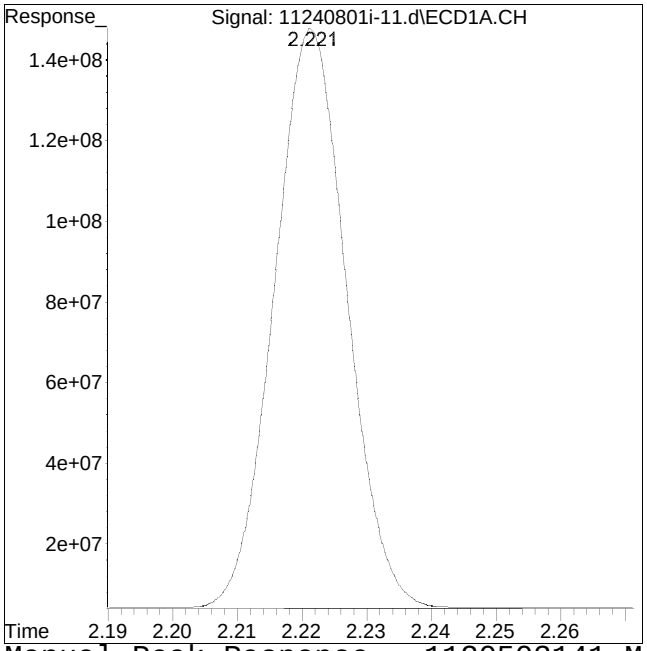
Original Peak Response = 2321717392 Manual Peak Response = 2320800107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #6: beta-BHC





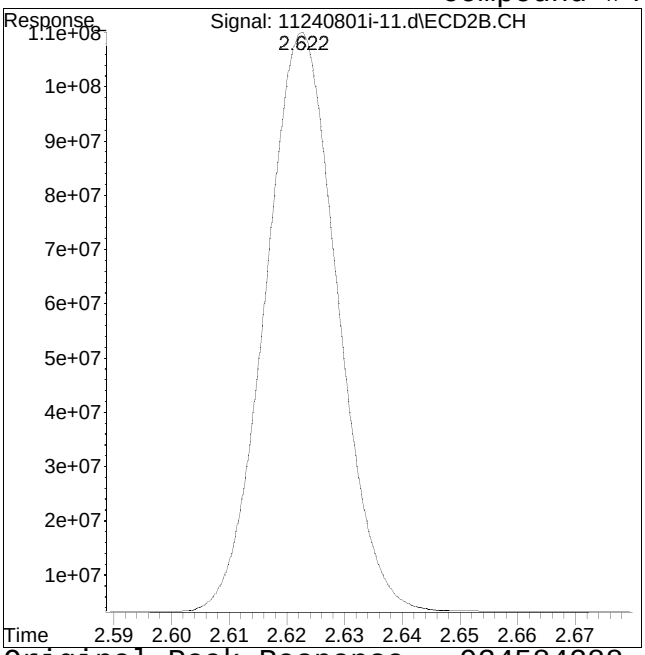
Original Peak Response = 1128146951 Manual Peak Response = 1120503141 M4
M4 = Poor automated baseline construction.

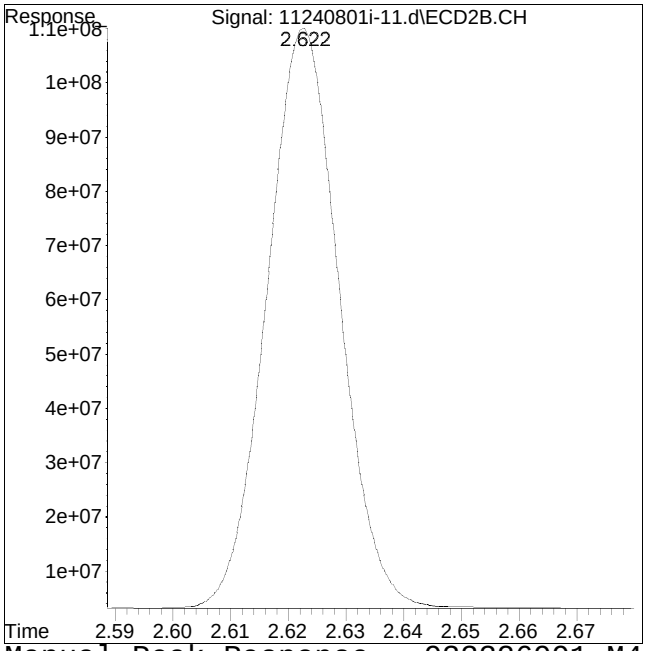
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #44: beta-BHC #2





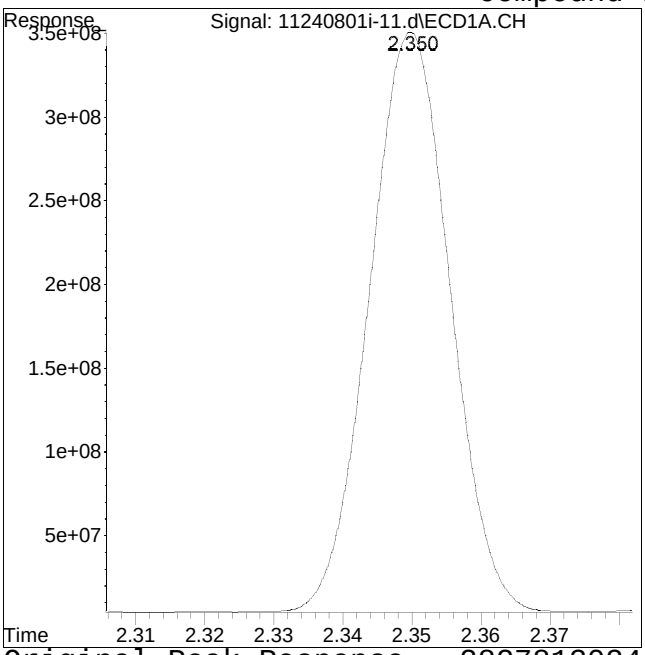
Original Peak Response = 934584288 Manual Peak Response = 933326991 M4
M4 = Poor automated baseline construction.

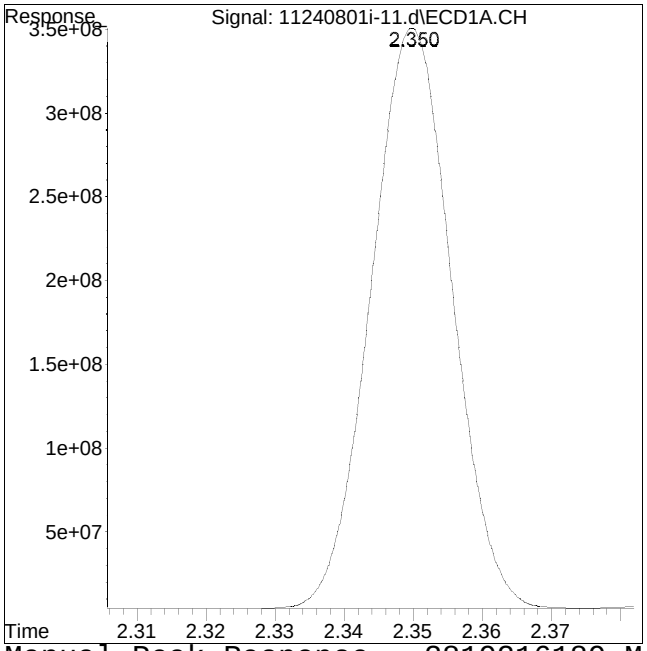
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #7: delta-BHC





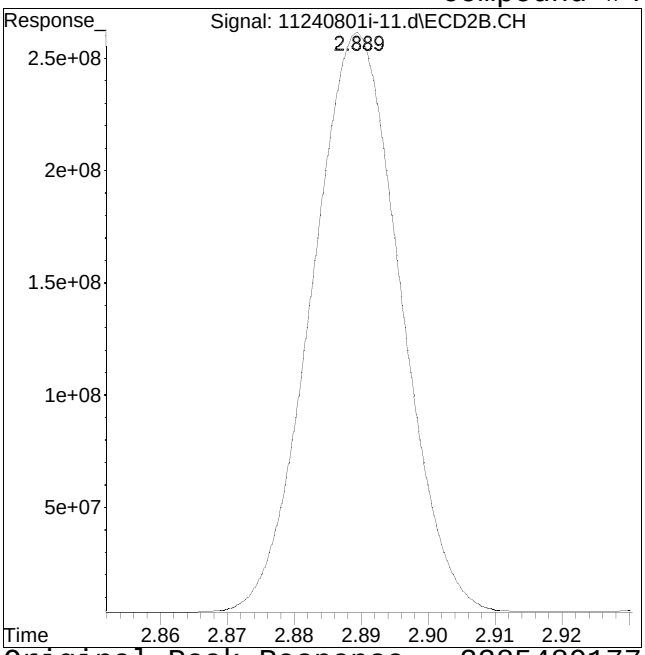
Original Peak Response = 2827813024 Manual Peak Response = 2819216189 M4
M4 = Poor automated baseline construction.

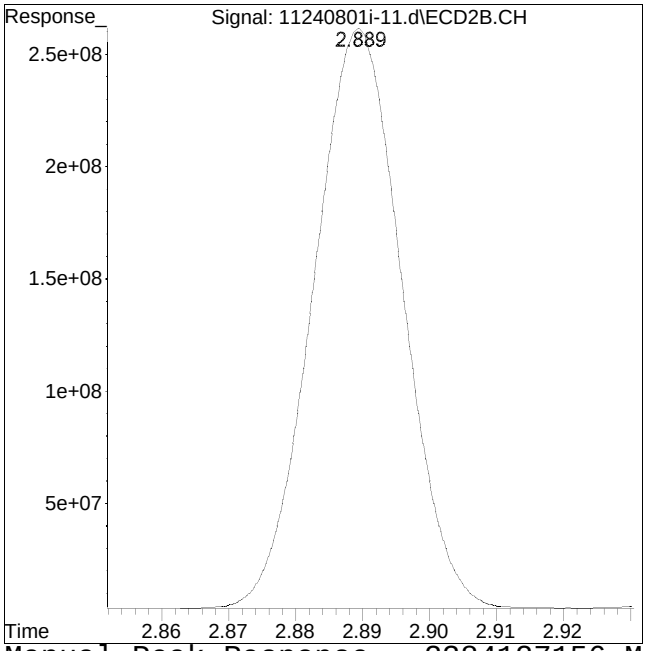
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #45: delta-BHC #2





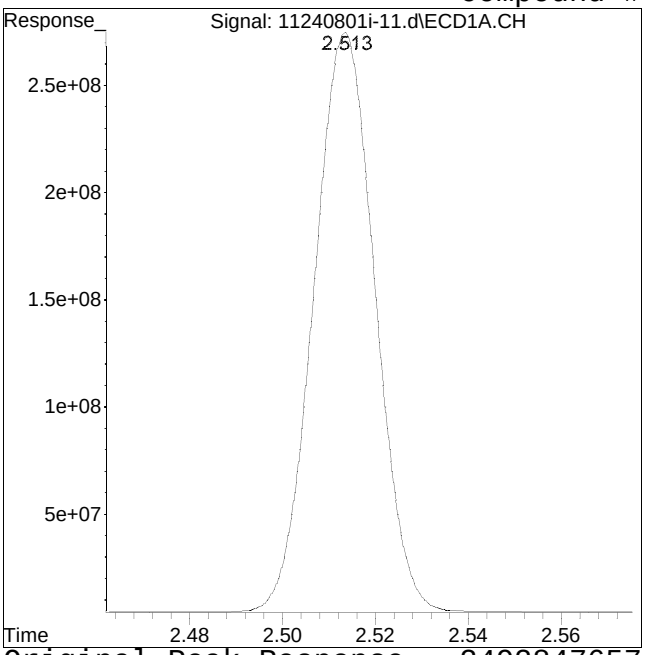
Original Peak Response = 2385489177 Manual Peak Response = 2384127156 M4
M4 = Poor automated baseline construction.

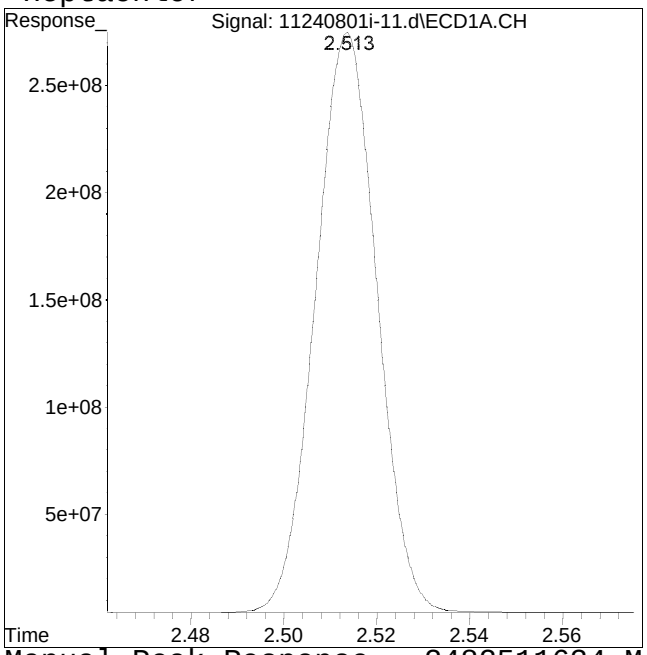
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #8: Heptachlor





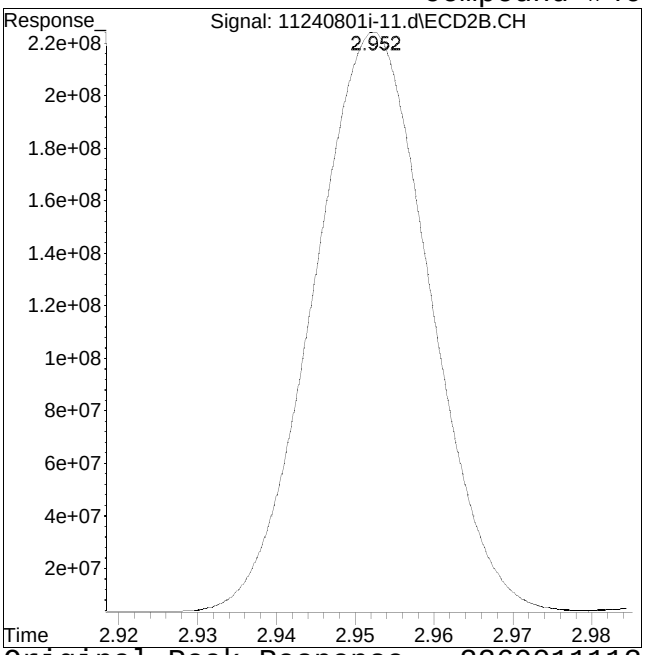
Original Peak Response = 2492847657 Manual Peak Response = 2482511634 M4
M4 = Poor automated baseline construction.

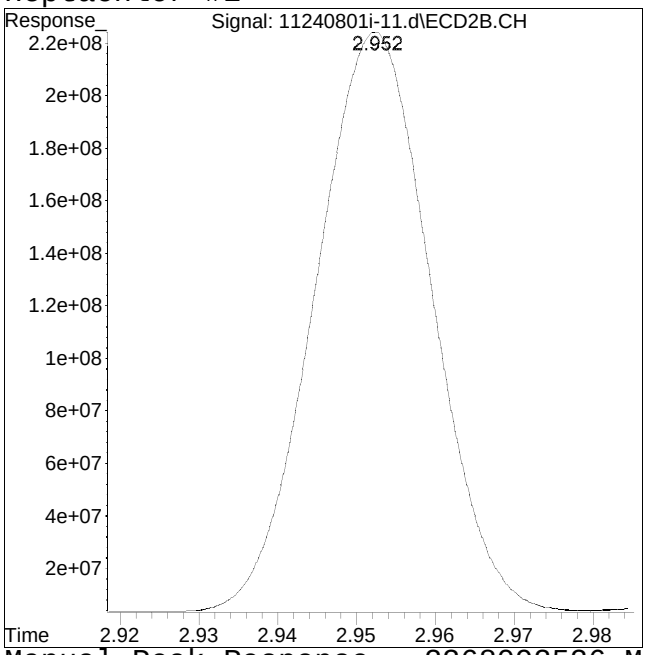
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #46: Heptachlor #2





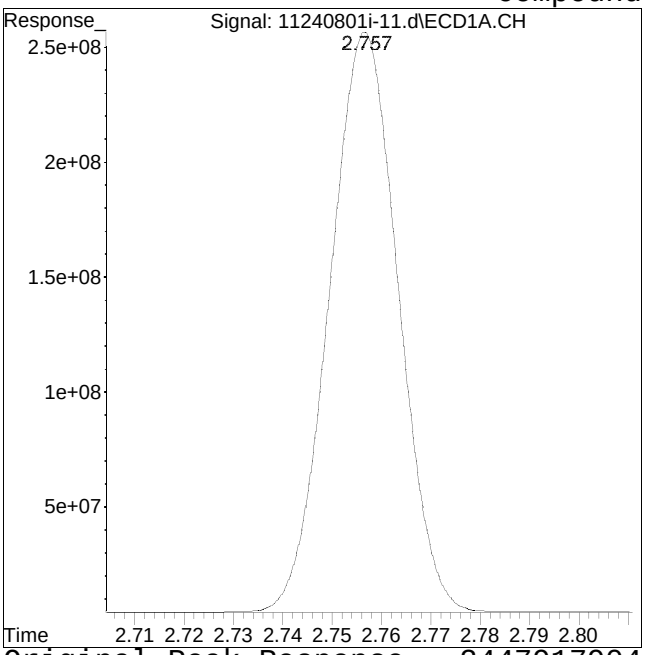
Original Peak Response = 2269011113 Manual Peak Response = 2268092526 M4
M4 = Poor automated baseline construction.

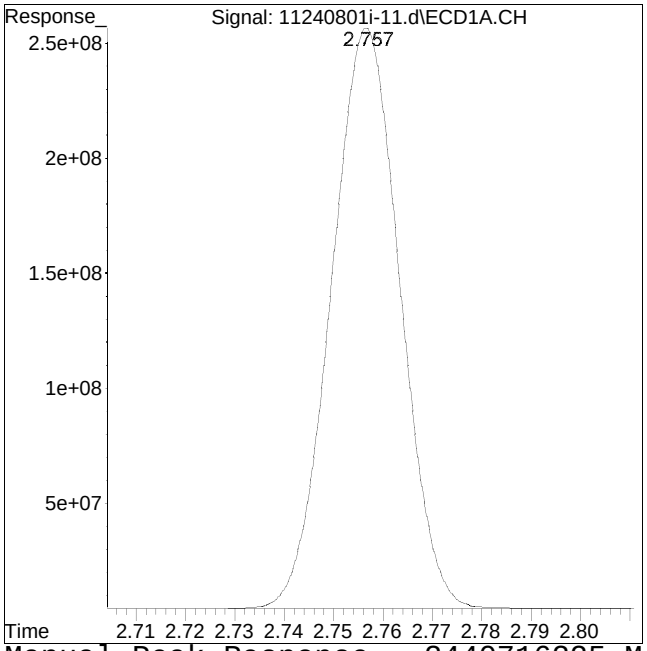
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #9: Aldrin





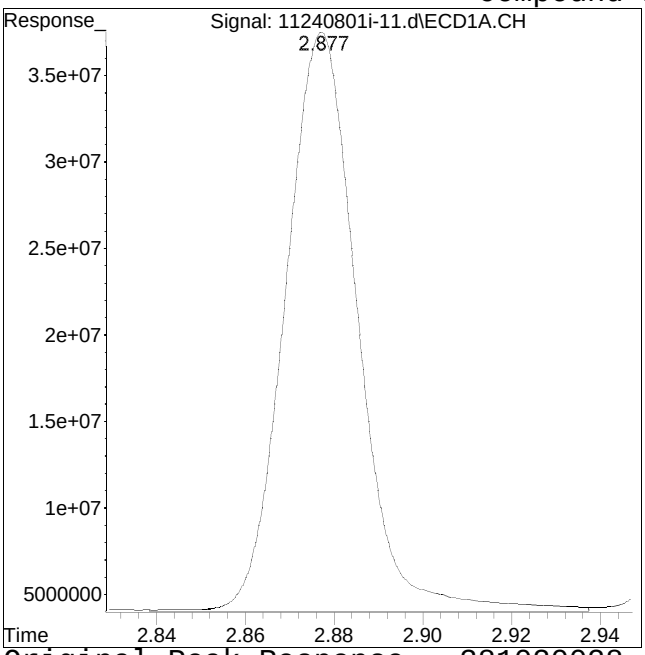
Original Peak Response = 2447917904 Manual Peak Response = 2440716225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

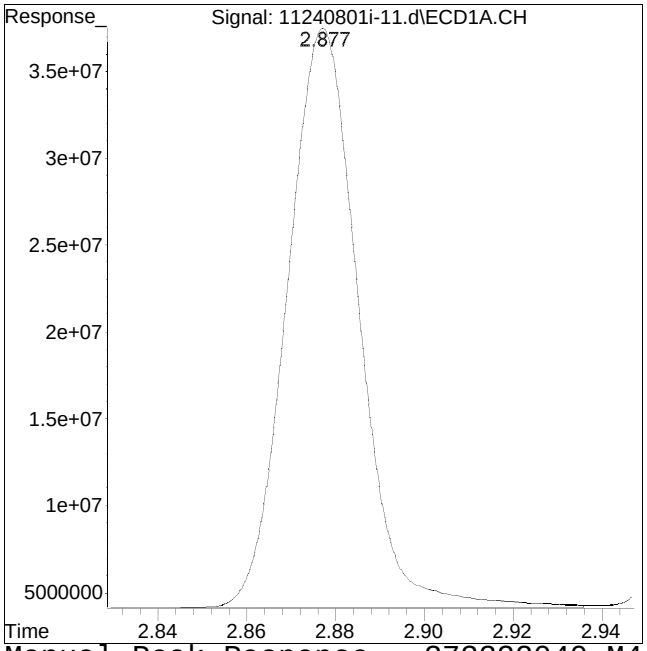
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #10: Alachlor



Original Peak Response = 381020028



Manual Peak Response = 373332040 M4

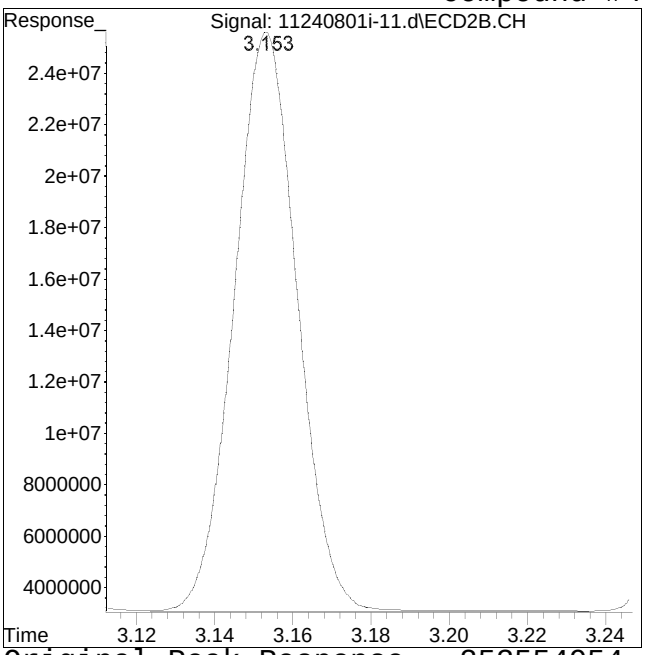
M4 = Poor automated baseline construction.

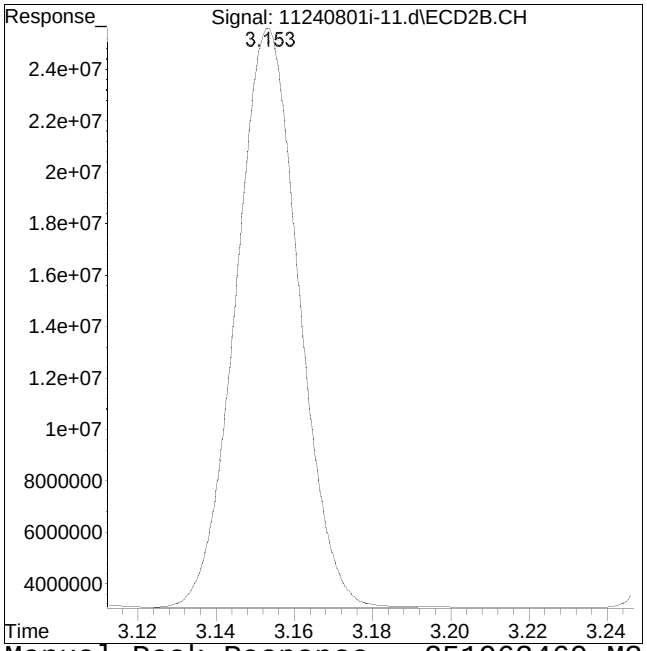
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #48: Alachlor #2





Original Peak Response = 253554954 Manual Peak Response = 251963460 M3

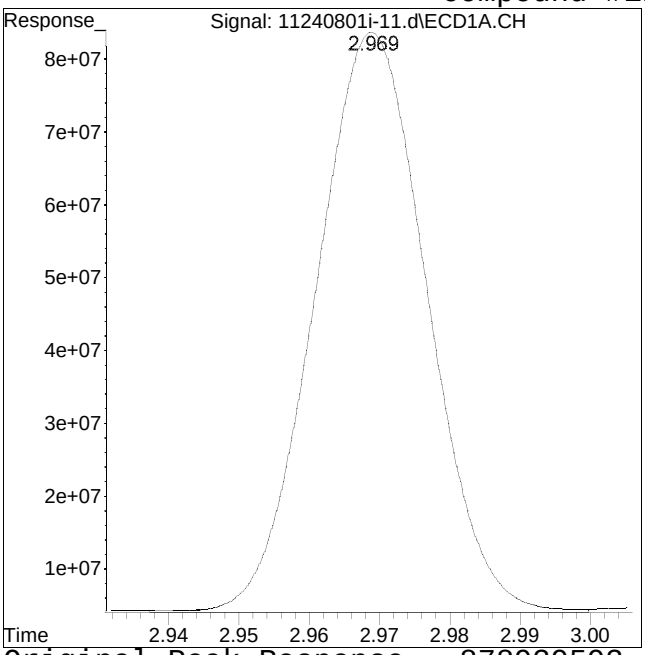
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

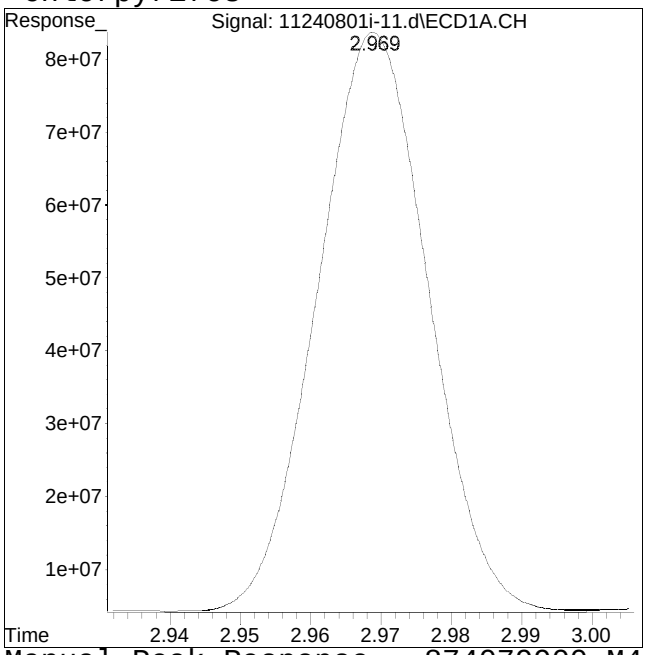
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #11: Chlorpyrifos



Original Peak Response = 878939593



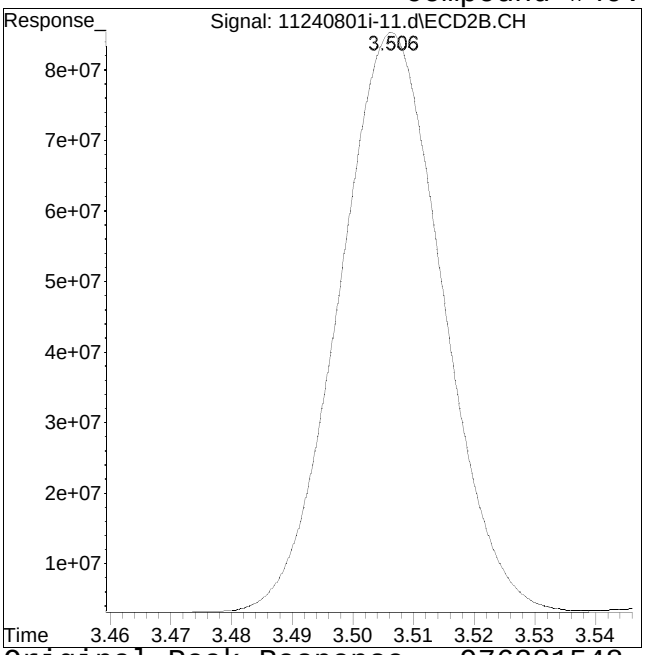
Manual Peak Response = 874079900 M4

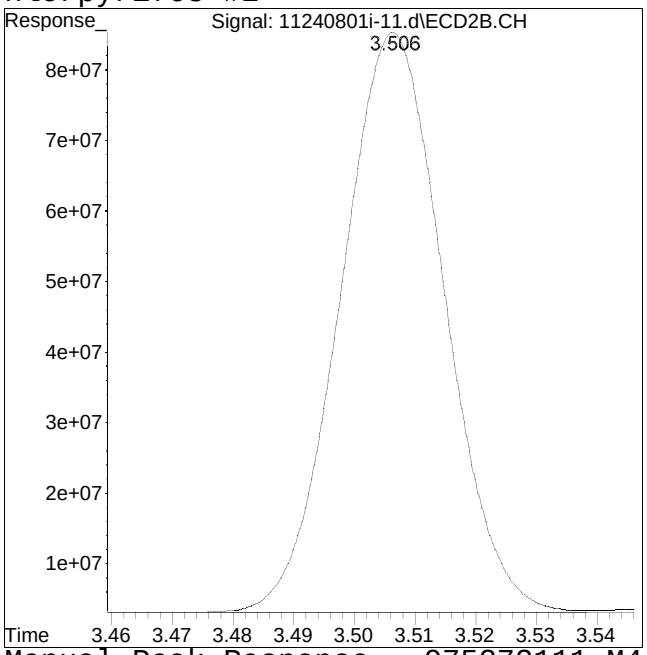
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #49: Chlorpyrifos #2





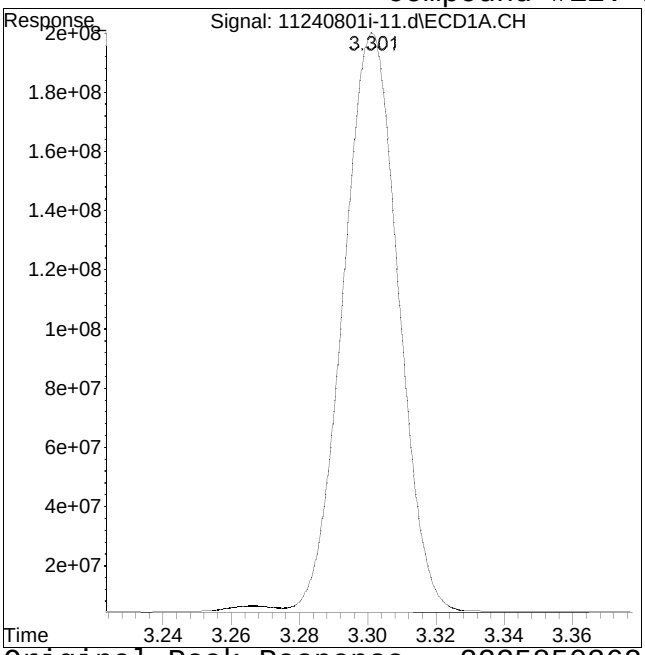
Original Peak Response = 976231548 Manual Peak Response = 975272111 M4
M4 = Poor automated baseline construction.

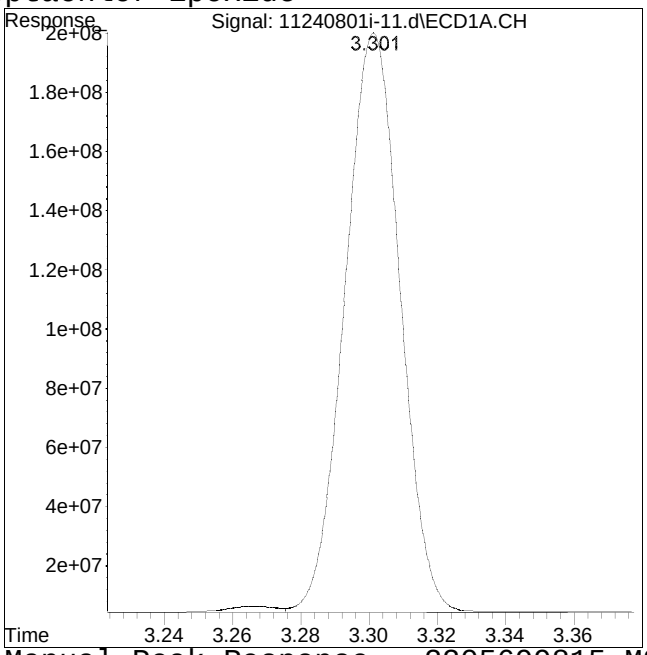
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 2235850362 Manual Peak Response = 2205699815 M3

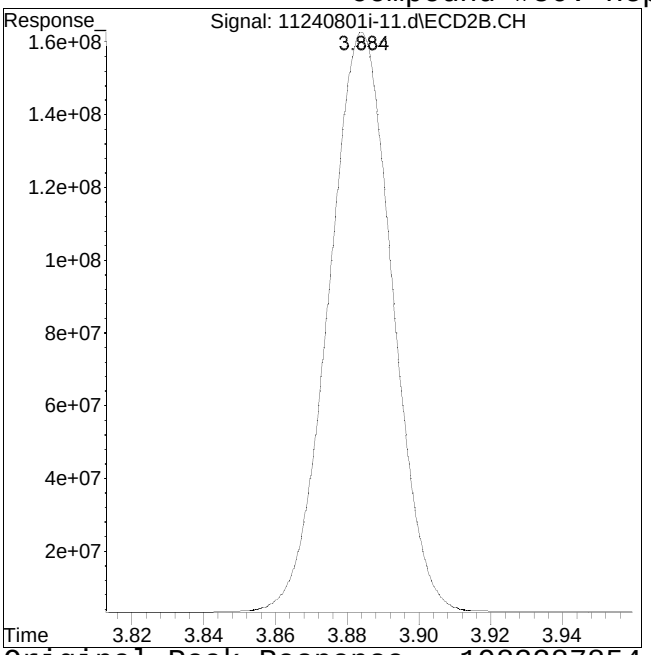
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

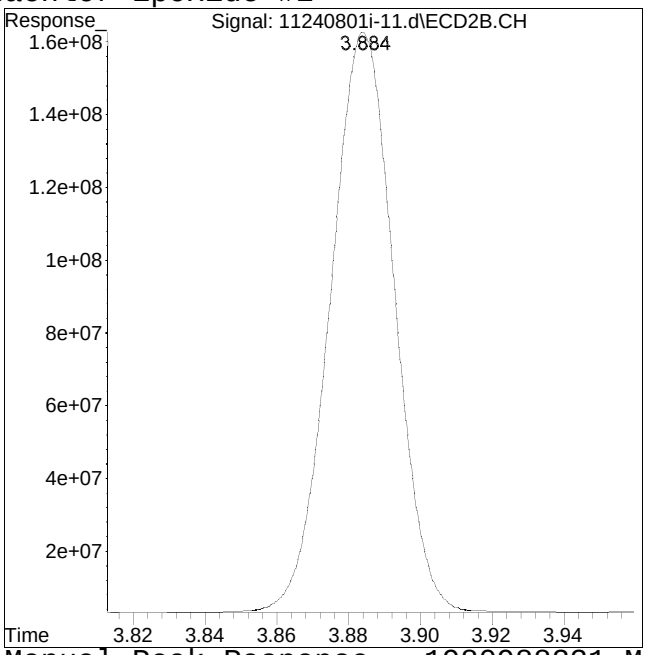
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 1983387854



Manual Peak Response = 1980988231 M4

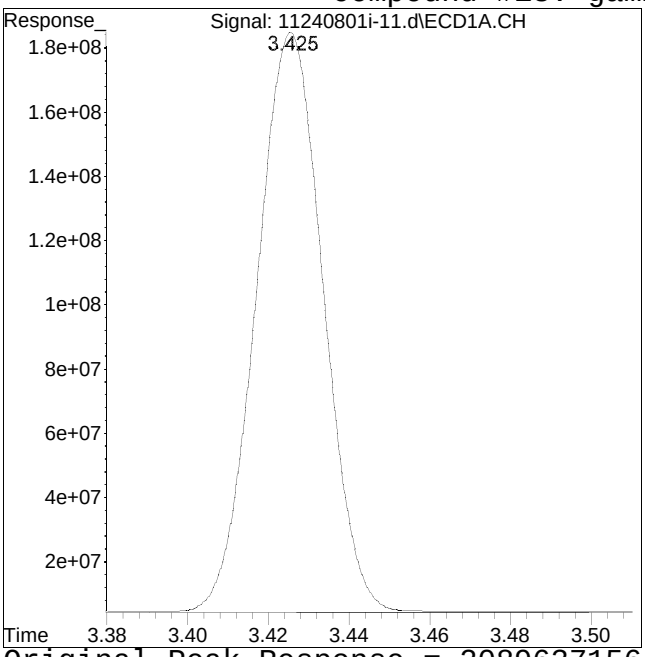
M4 = Poor automated baseline construction.

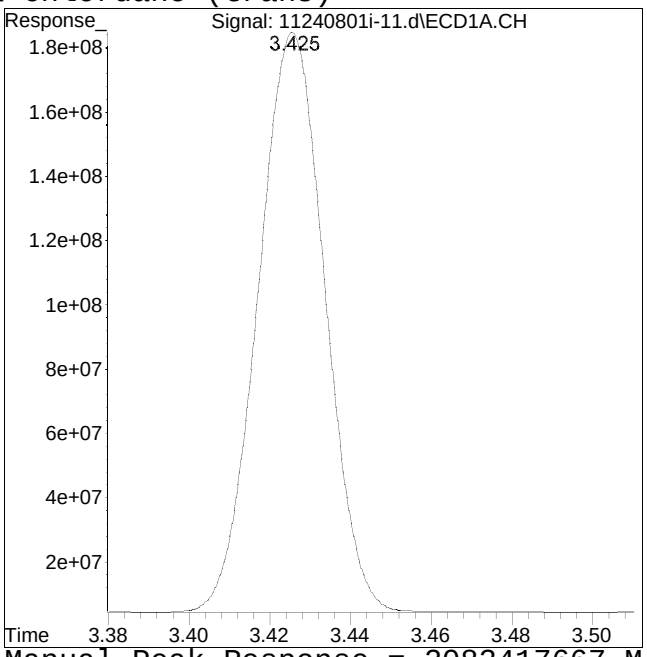
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #13: gamma-Chlordane (trans)





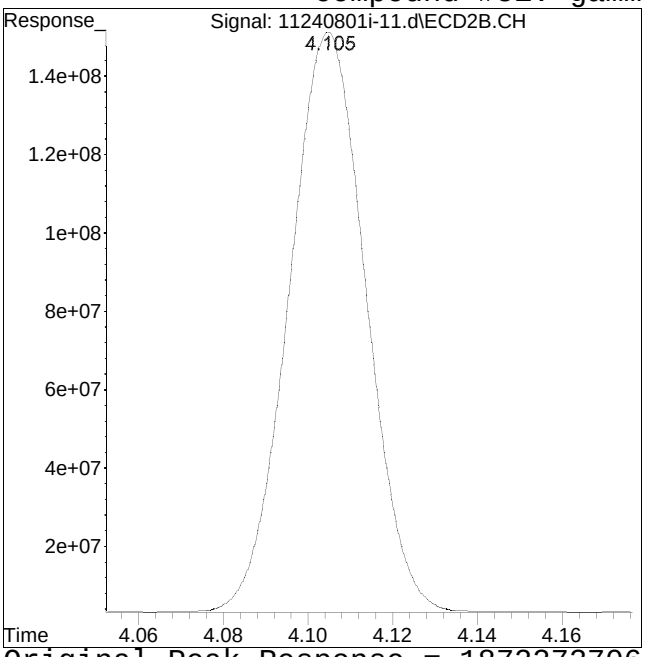
Original Peak Response = 2089637156 Manual Peak Response = 2083417667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

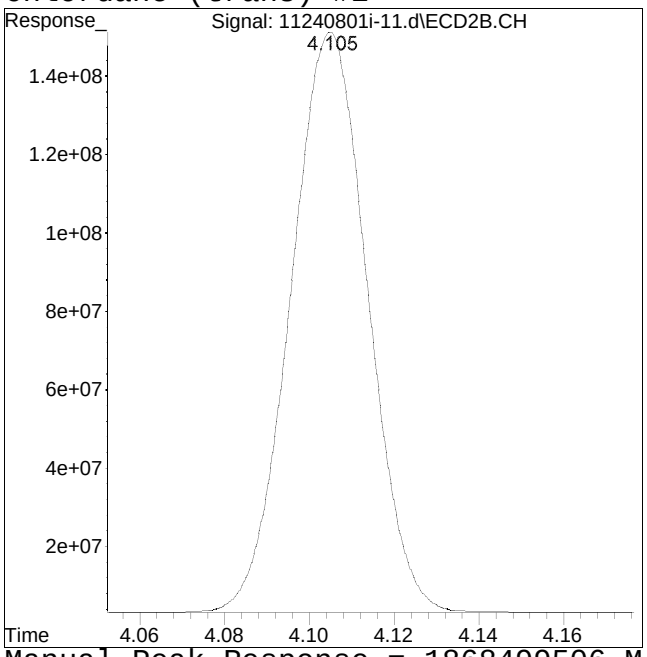
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 1872273706



Manual Peak Response = 1868499506 M4

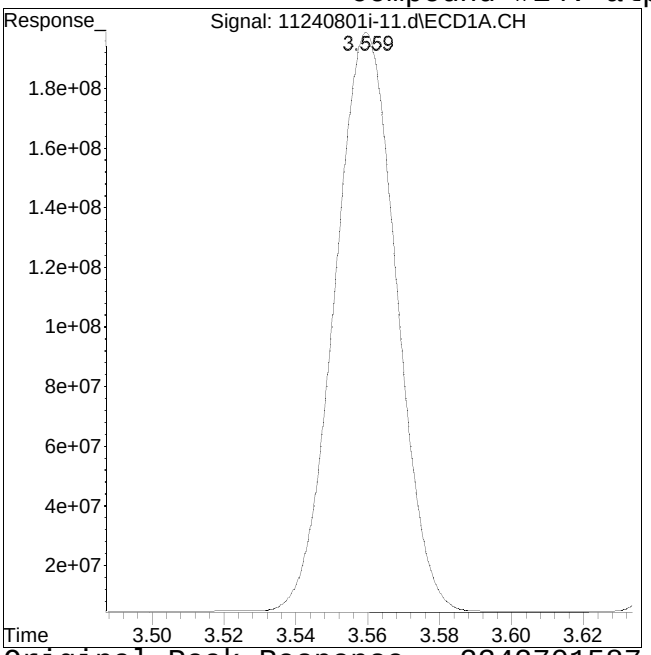
M4 = Poor automated baseline construction.

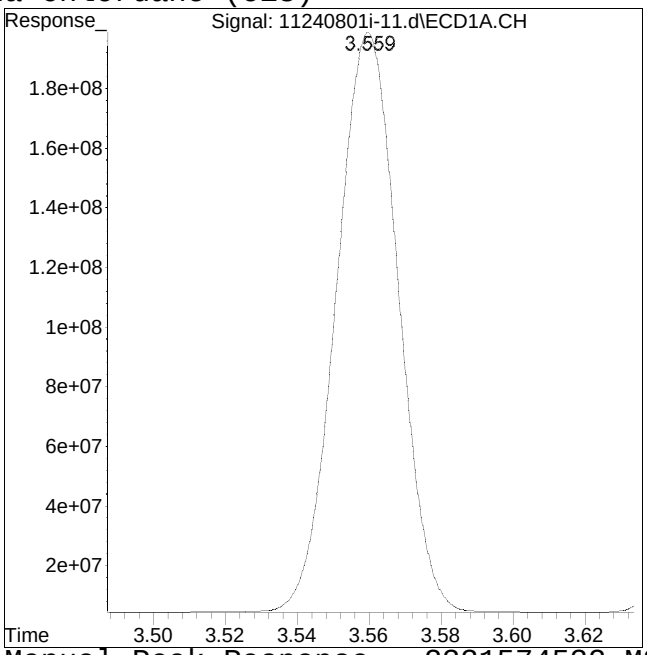
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #14: alpha-Chlordane (cis)





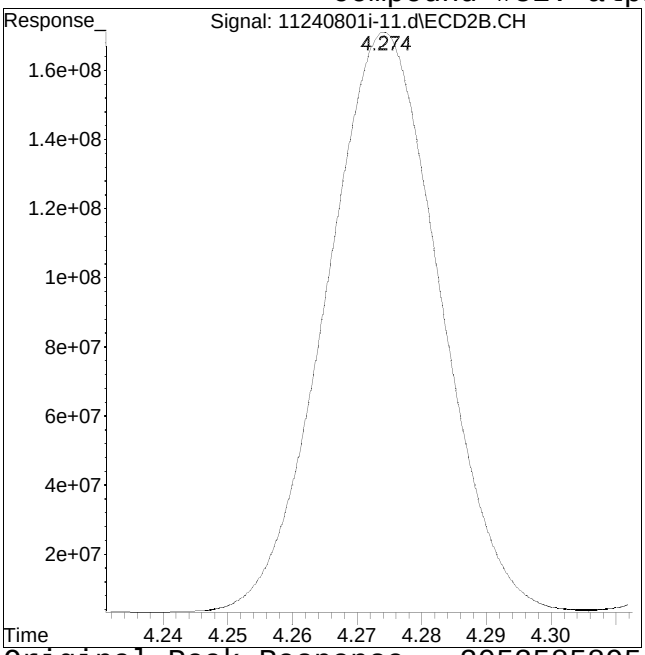
Original Peak Response = 2342701587 Manual Peak Response = 2331574532 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

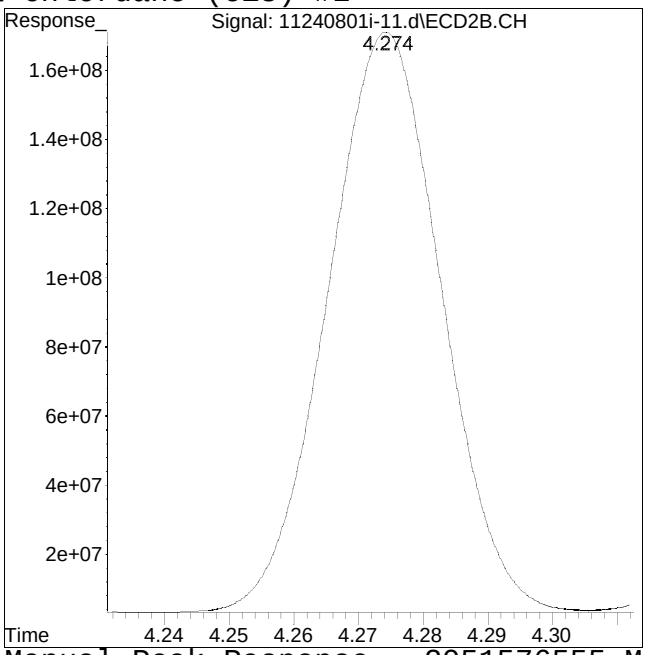
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 2053585895



Manual Peak Response = 2051576555 M4

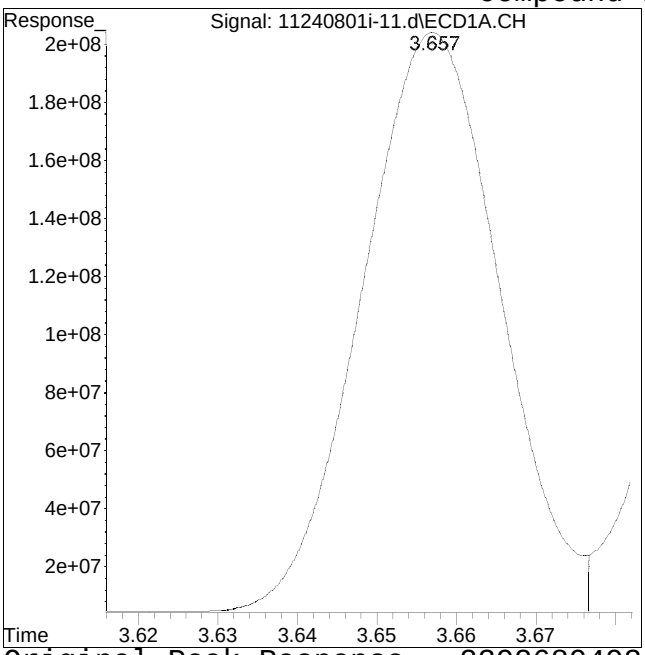
M4 = Poor automated baseline construction.

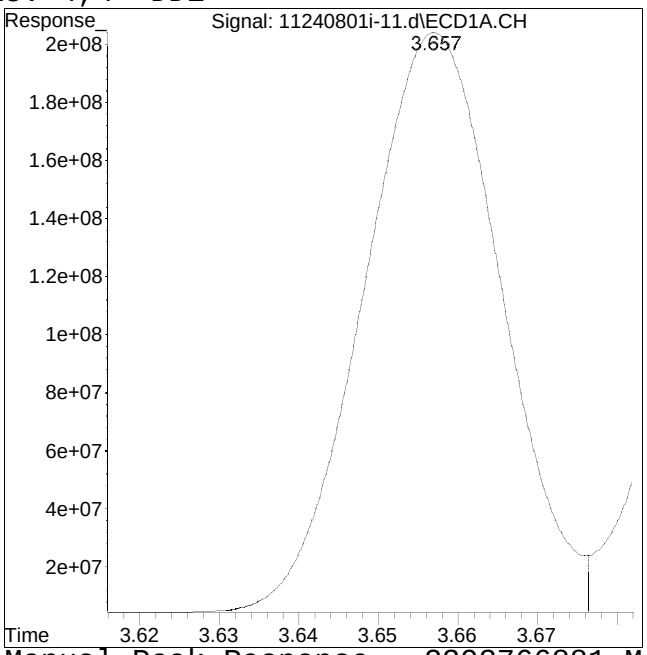
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #15: 4,4'-DDE





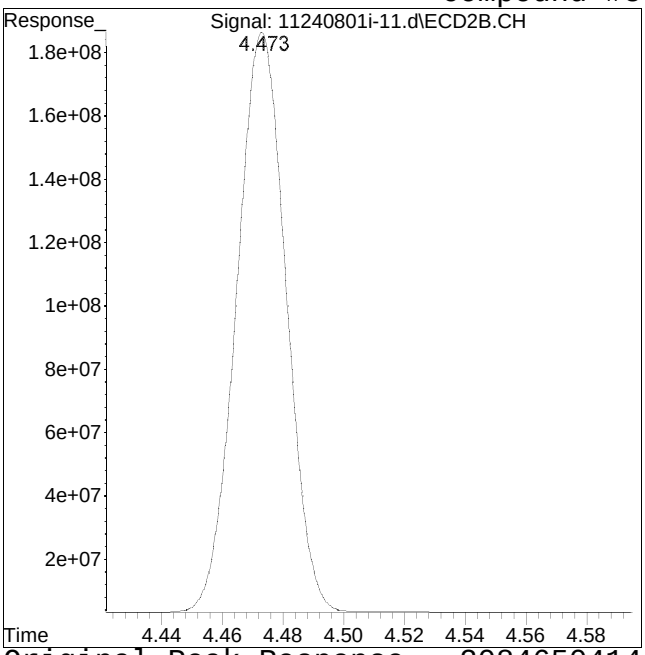
Original Peak Response = 2392689493 Manual Peak Response = 2393766881 M4
M4 = Poor automated baseline construction.

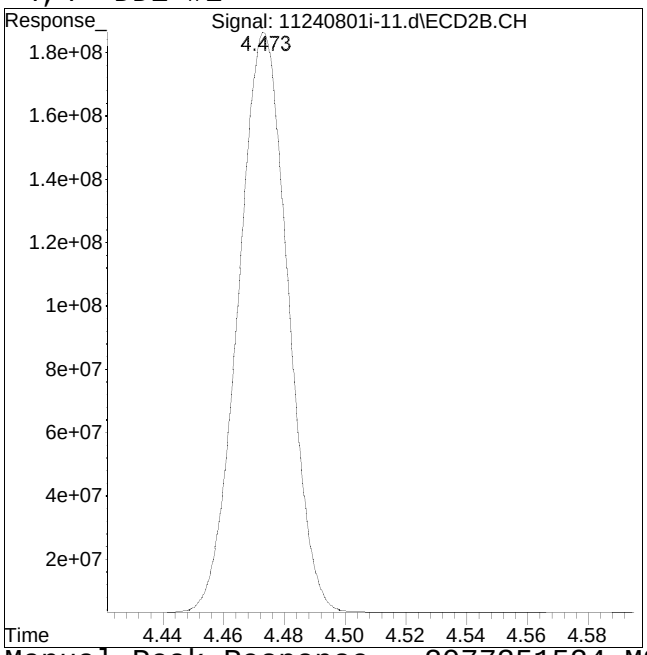
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #53: 4,4'-DDE #2





Original Peak Response = 2084650414 Manual Peak Response = 2077351524 M3

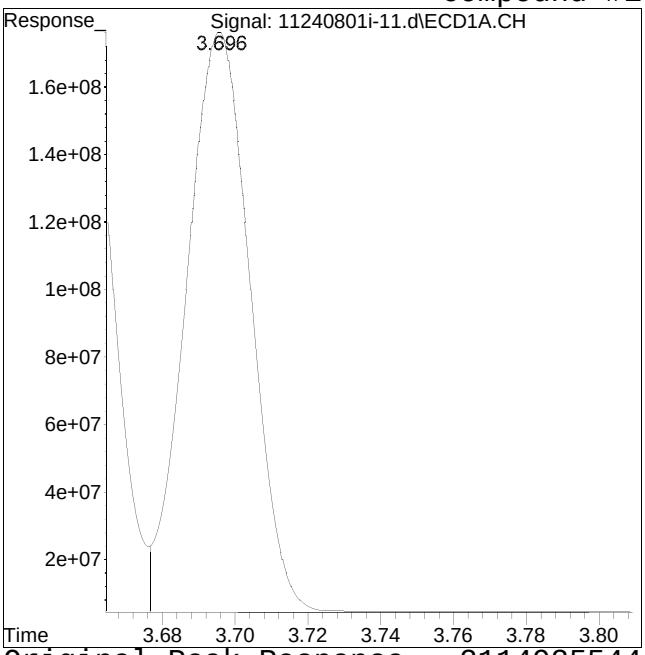
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

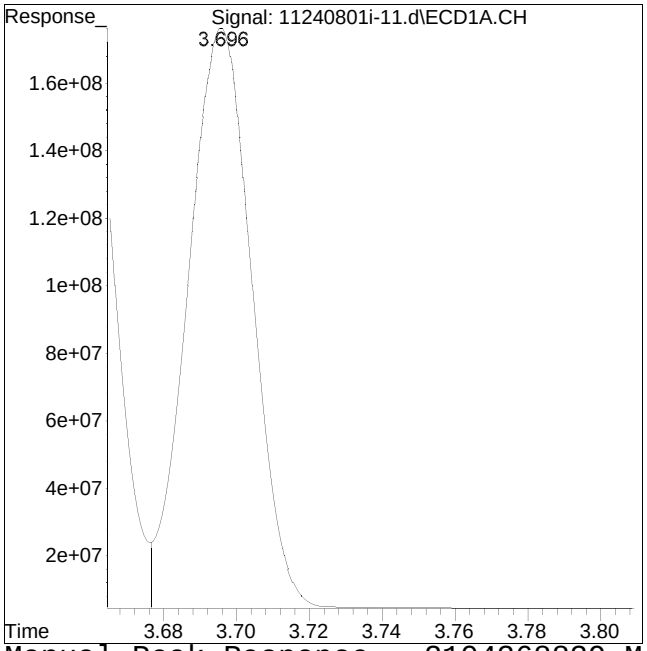
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #16: Endosulfan I



Original Peak Response = 2114925544



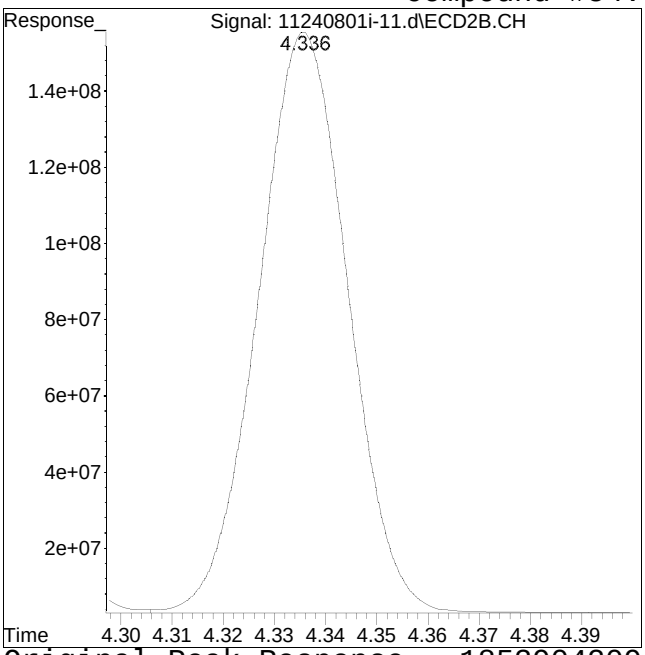
Manual Peak Response = 2104368839 M4

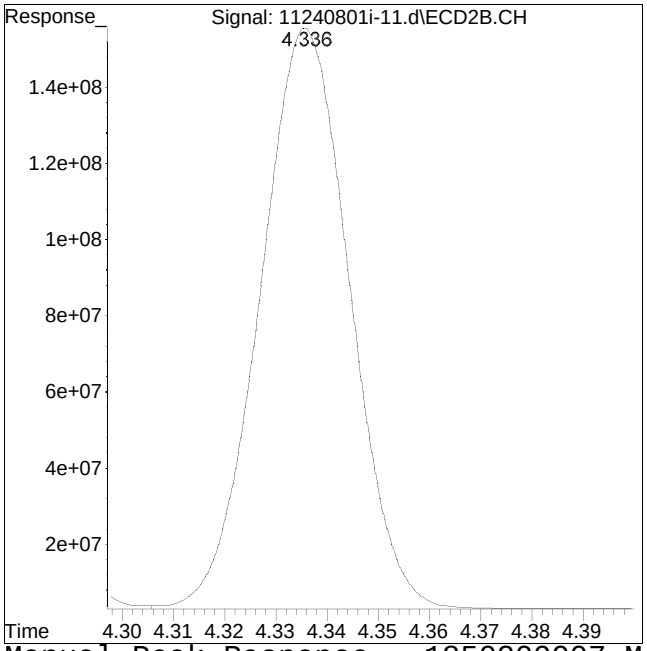
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #54: Endosulfan I #2





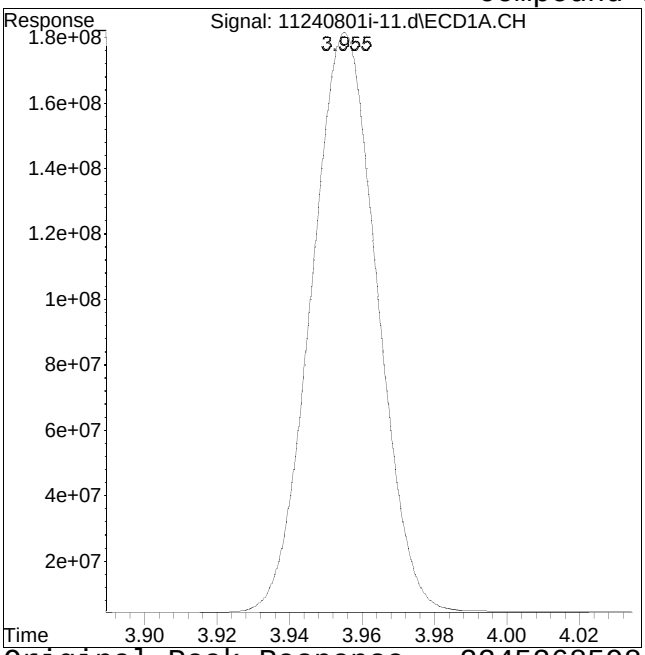
Original Peak Response = 1853904209 Manual Peak Response = 1850209907 M4
M4 = Poor automated baseline construction.

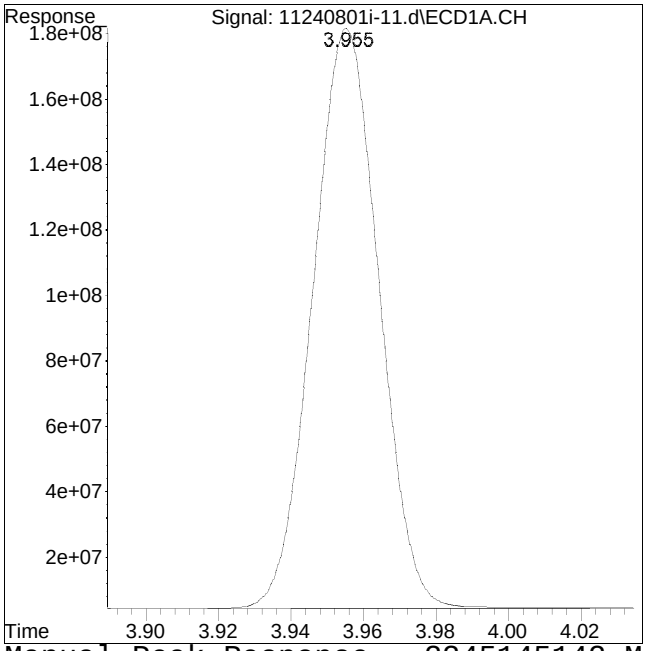
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #17: Dieldrin





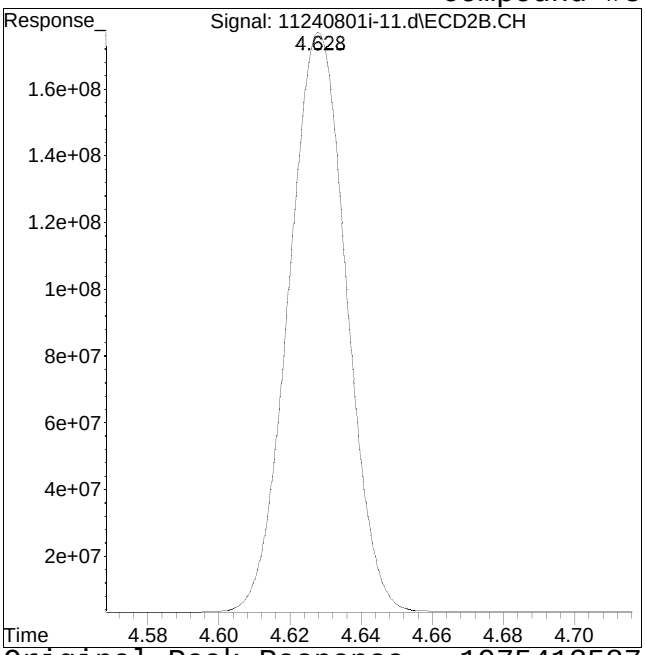
Original Peak Response = 2245268598 Manual Peak Response = 2245145142 M4
M4 = Poor automated baseline construction.

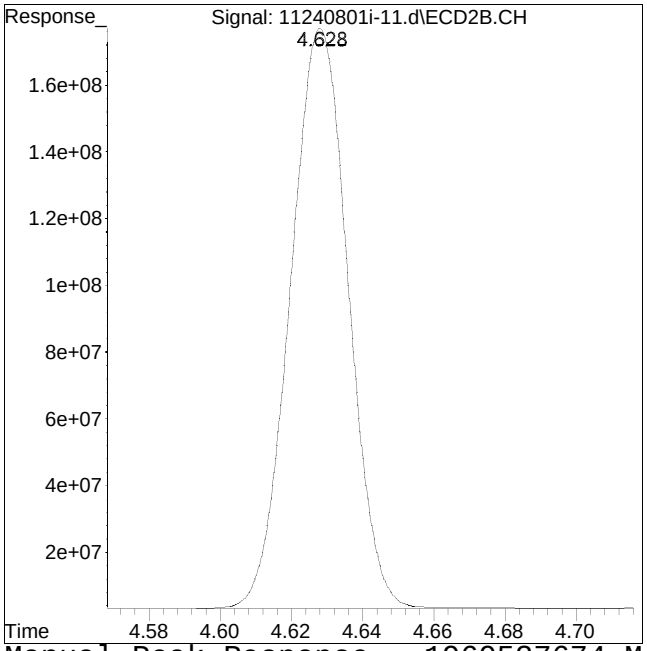
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #55: Dieldrin #2



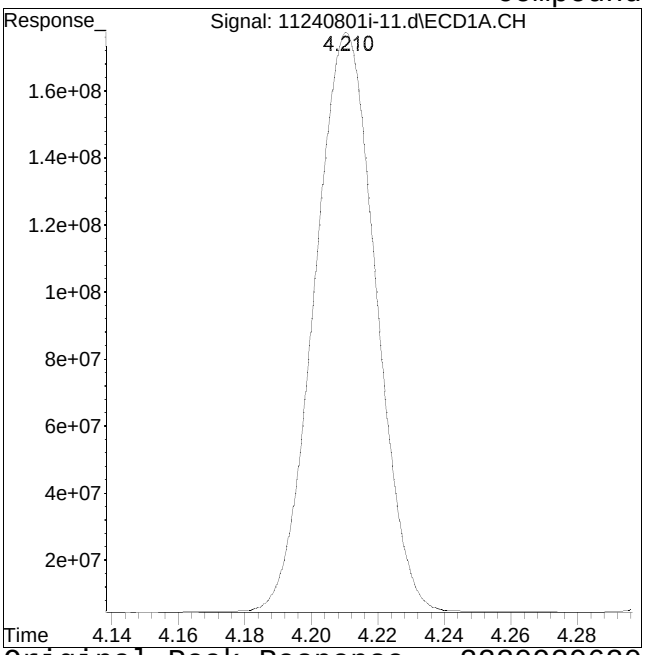


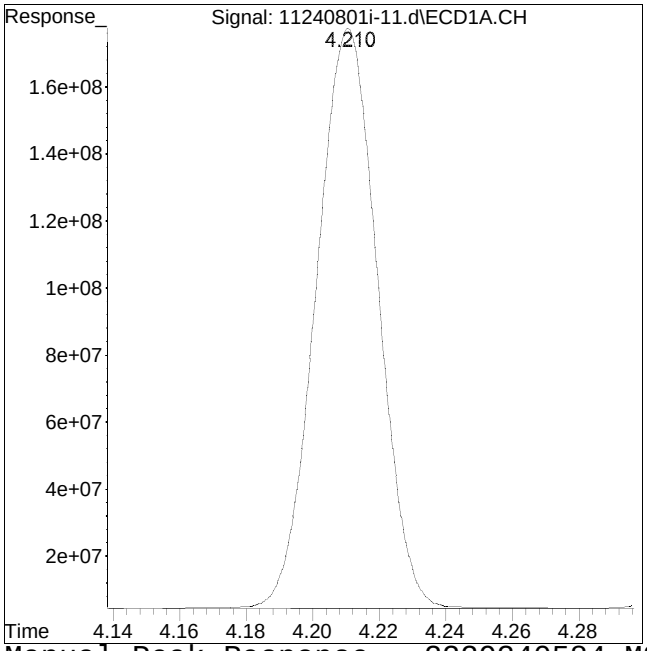
Original Peak Response = 1975413587 Manual Peak Response = 1969537674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #18: Endrin



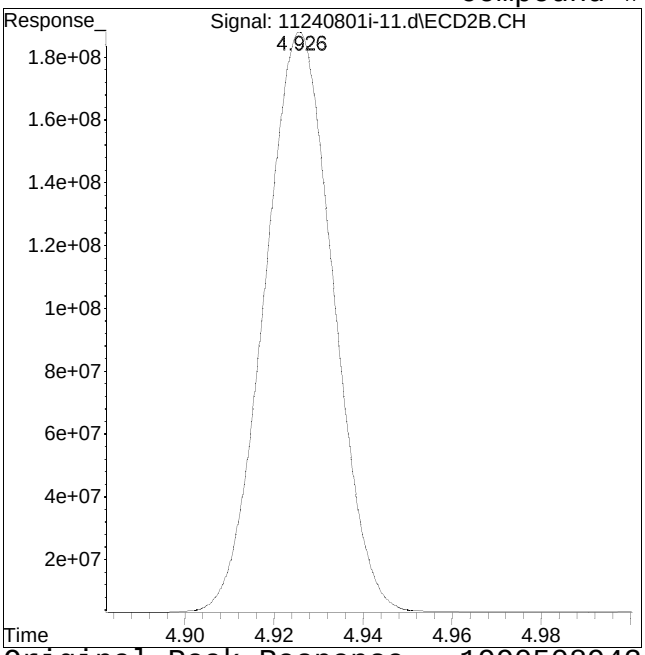


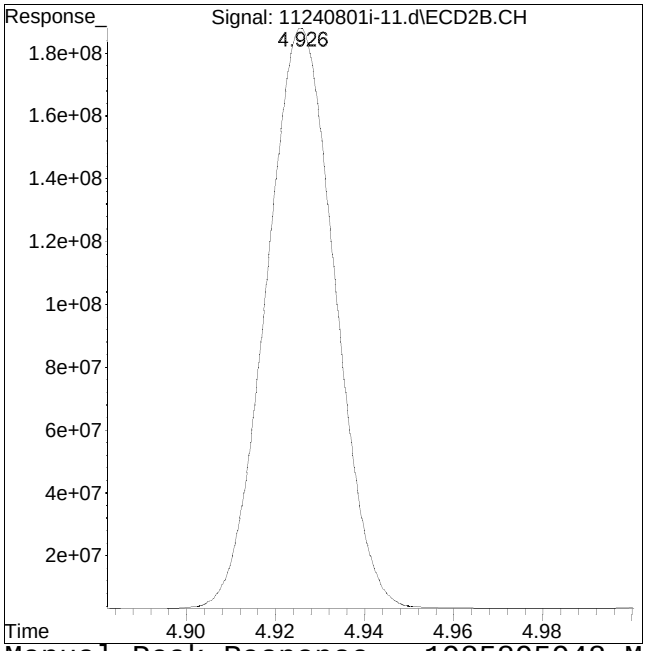
Original Peak Response = 2230939620 Manual Peak Response = 2229340584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #56: Endrin #2





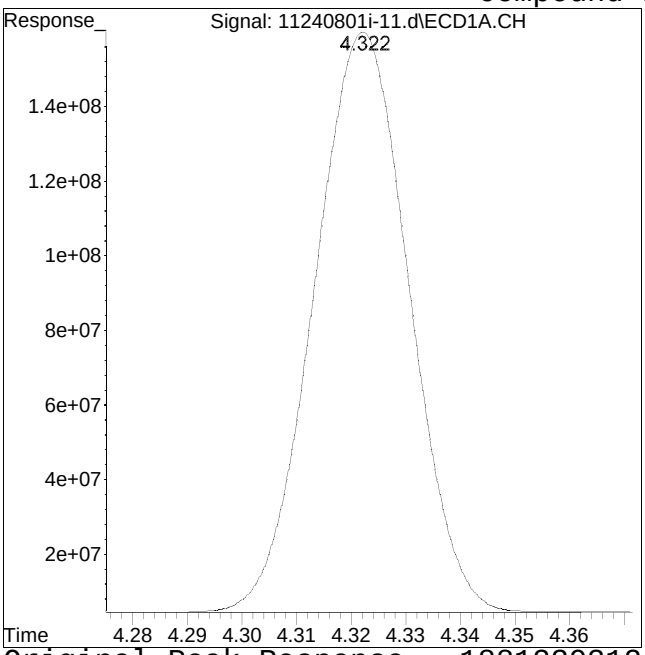
Original Peak Response = 1990508943 Manual Peak Response = 1985895948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

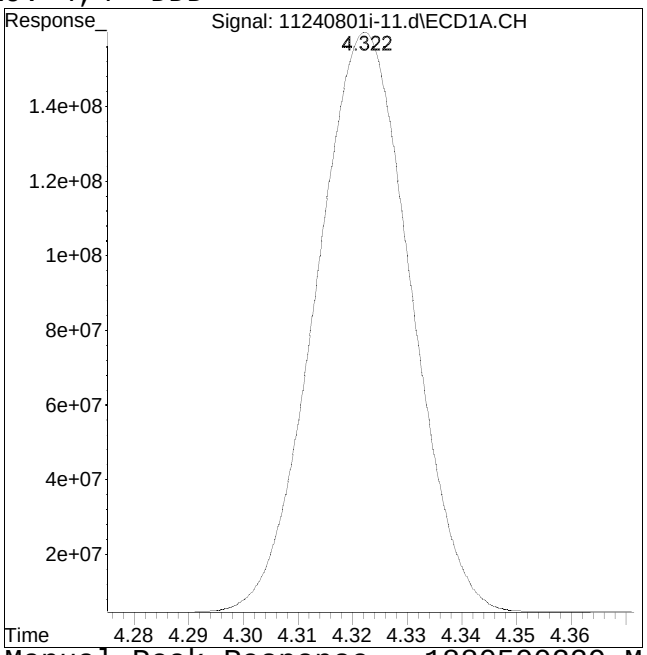
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #19: 4,4'-DDD



Original Peak Response = 1881239312



Manual Peak Response = 1880500229 M4

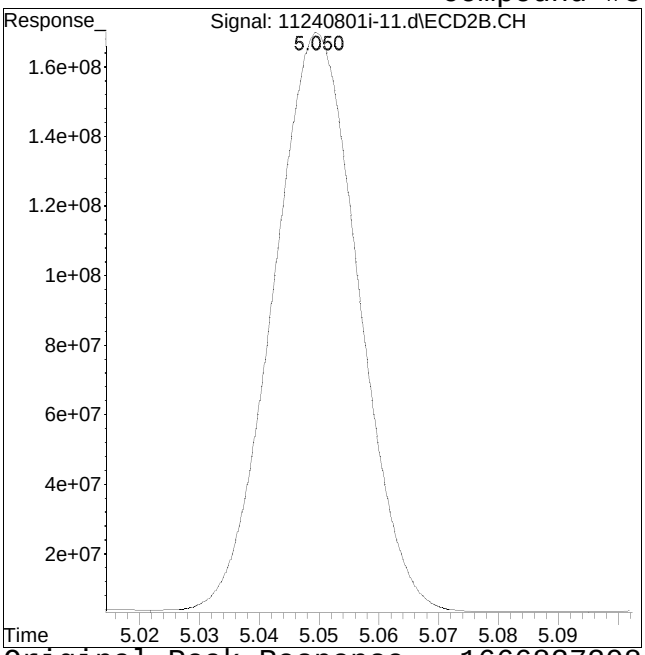
M4 = Poor automated baseline construction.

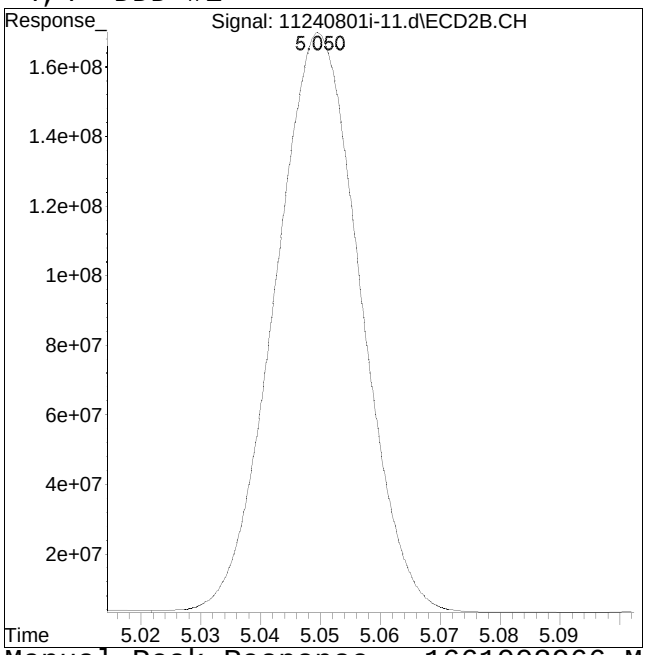
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #57: 4,4'-DDD #2





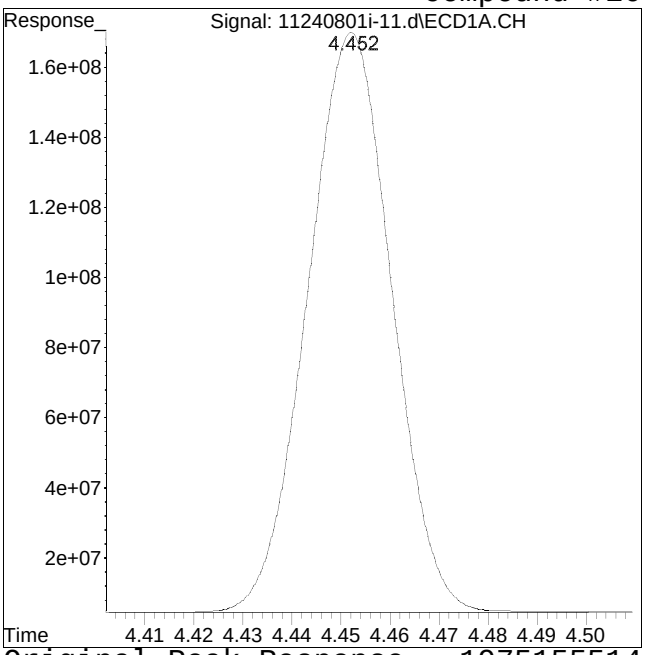
Original Peak Response = 1666827208 Manual Peak Response = 1661003966 M4
M4 = Poor automated baseline construction.

Manual Integration Report

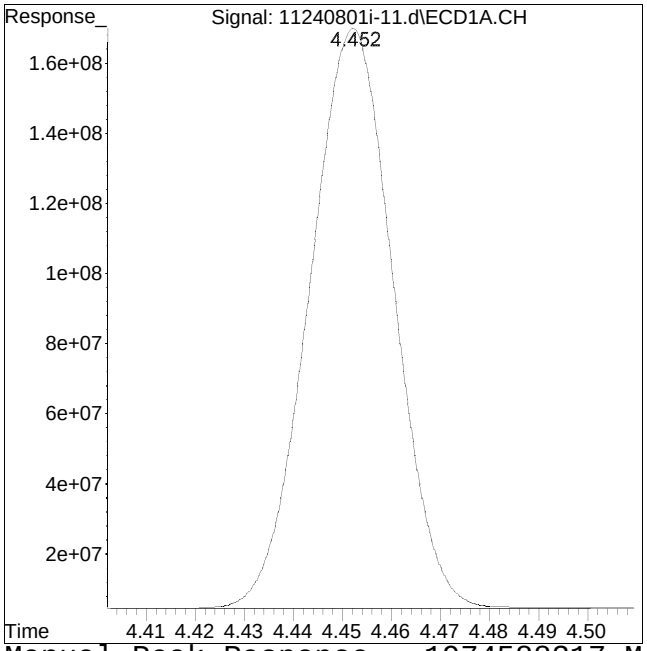
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #20: Endosulfan II



Original Peak Response = 1975155514



Manual Peak Response = 1974588317 M4

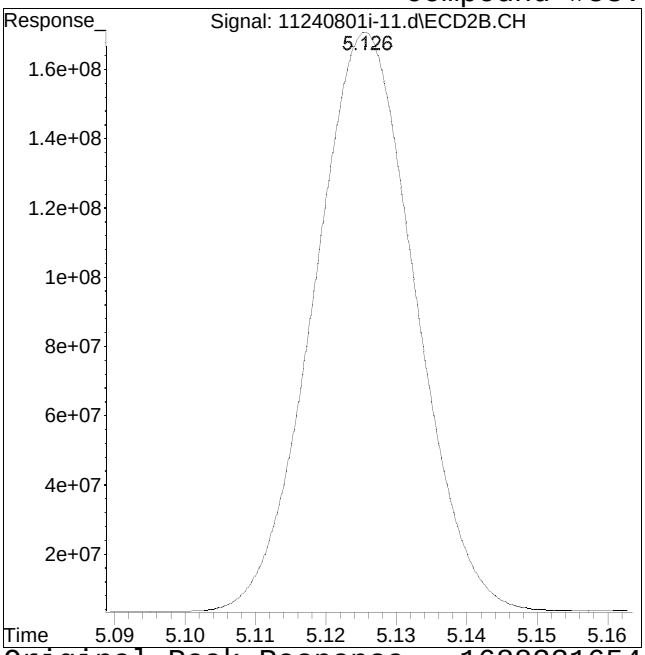
M4 = Poor automated baseline construction.

Manual Integration Report

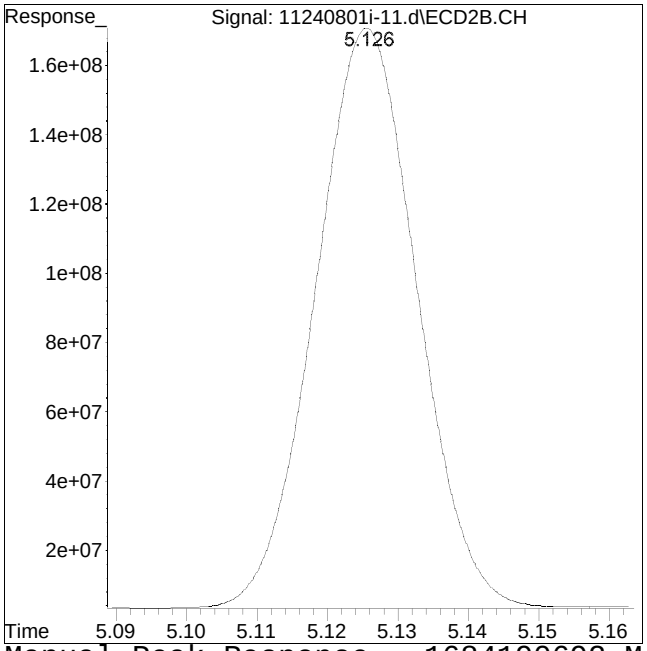
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #58: Endosulfan II #2



Original Peak Response = 1688331654



Manual Peak Response = 1684190692 M4

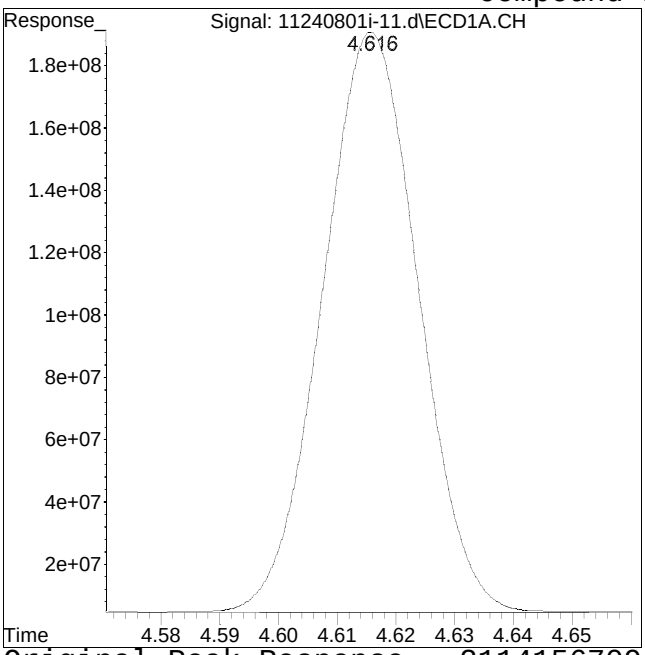
M4 = Poor automated baseline construction.

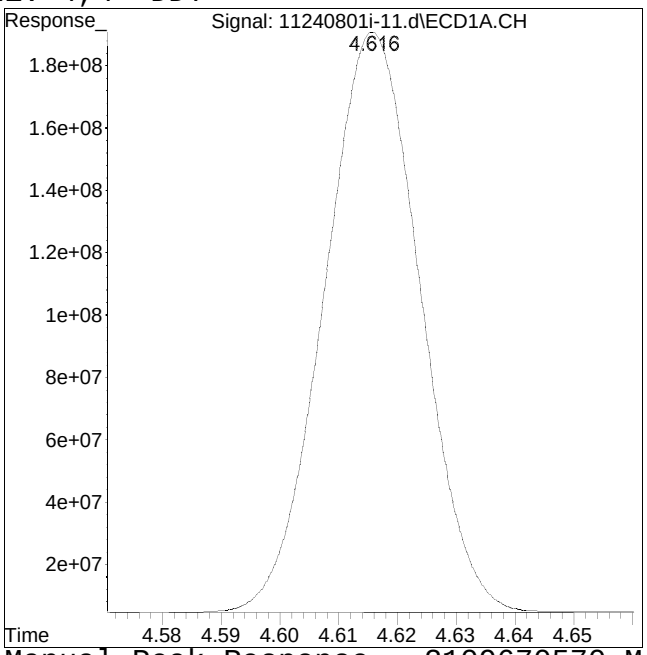
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #21: 4,4'-DDT



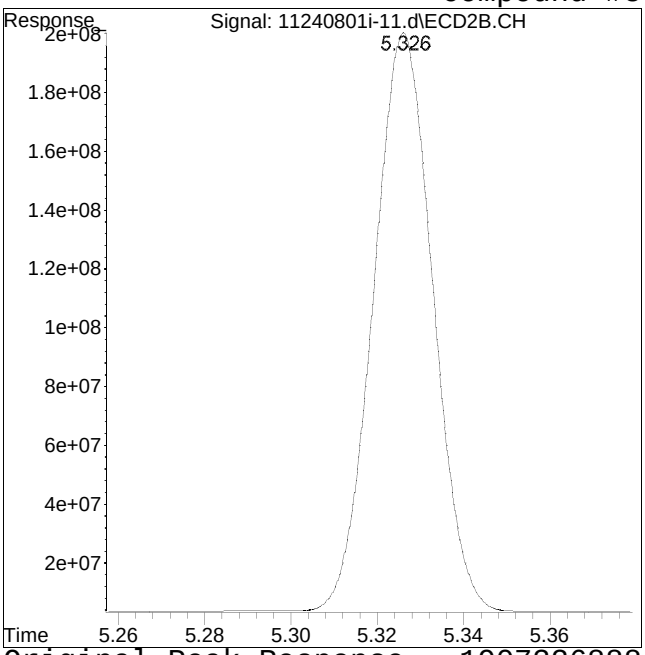


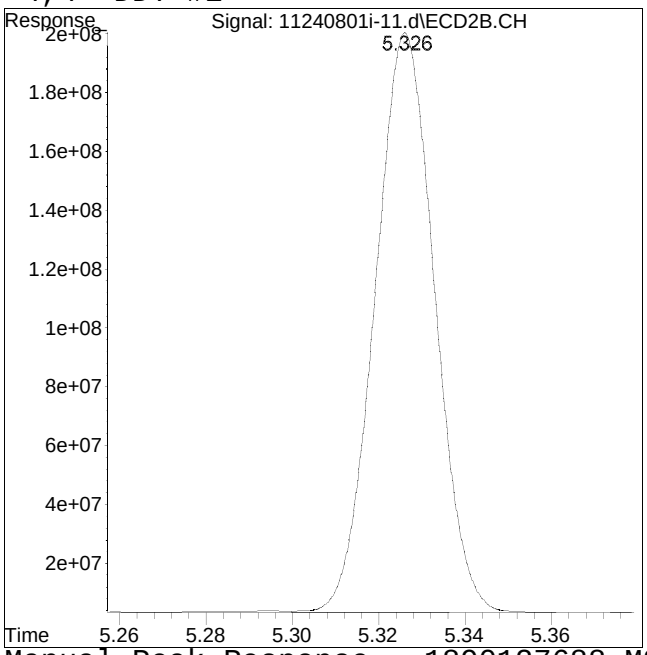
Original Peak Response = 2114156709 Manual Peak Response = 2109670570 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #59: 4,4'-DDT #2



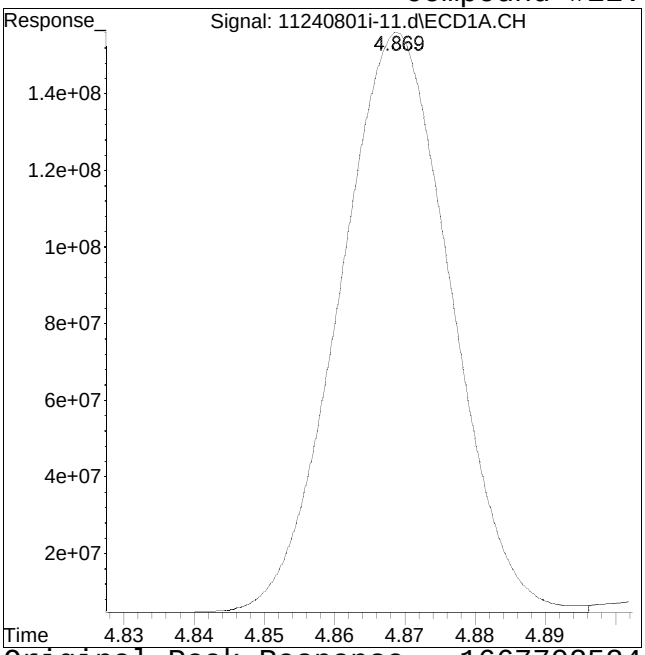


Original Peak Response = 1907326888 Manual Peak Response = 1890127688 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

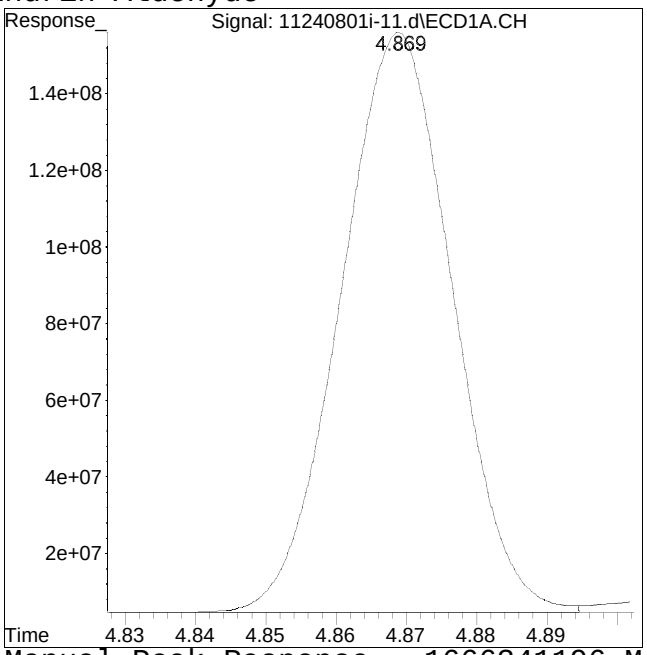
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #22: Endrin Aldehyde



Original Peak Response = 1667702524

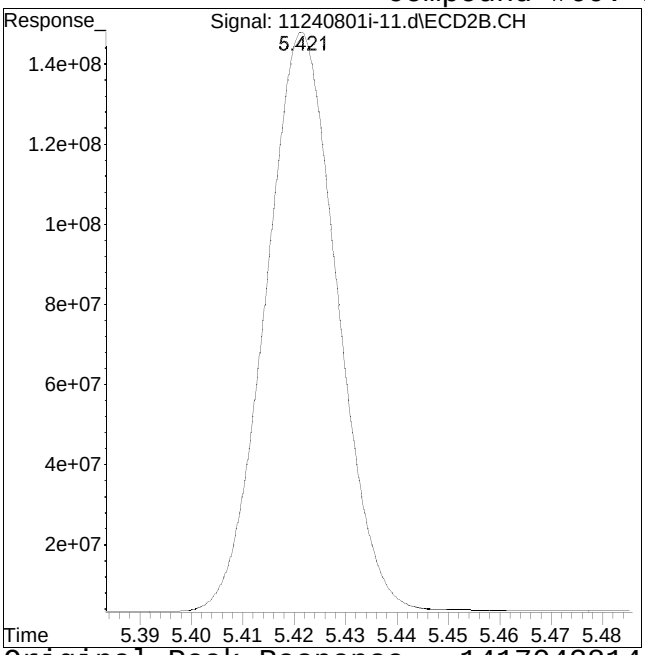


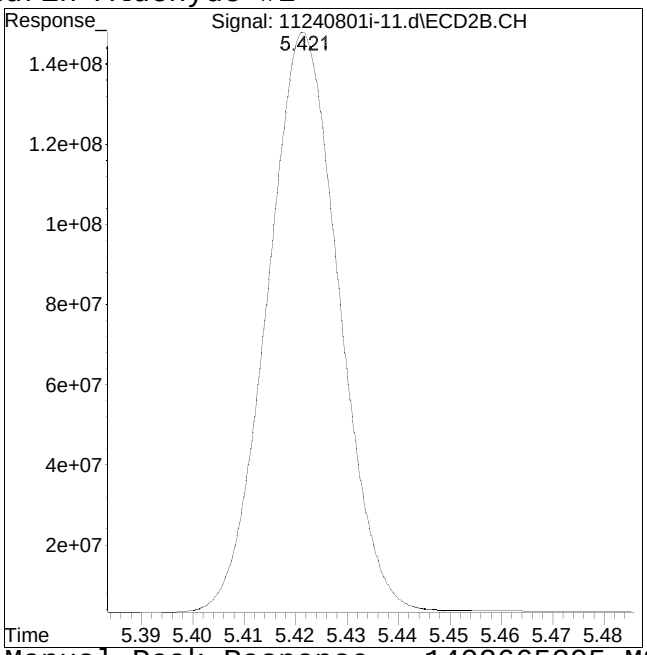
Manual Peak Response = 1666341196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #60: Endrin Aldehyde #2



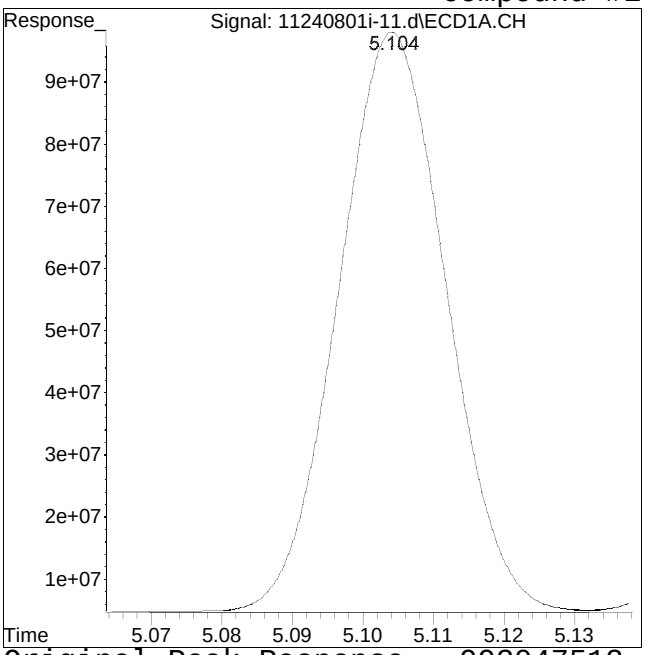


Original Peak Response = 1417043814 Manual Peak Response = 1402665305 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

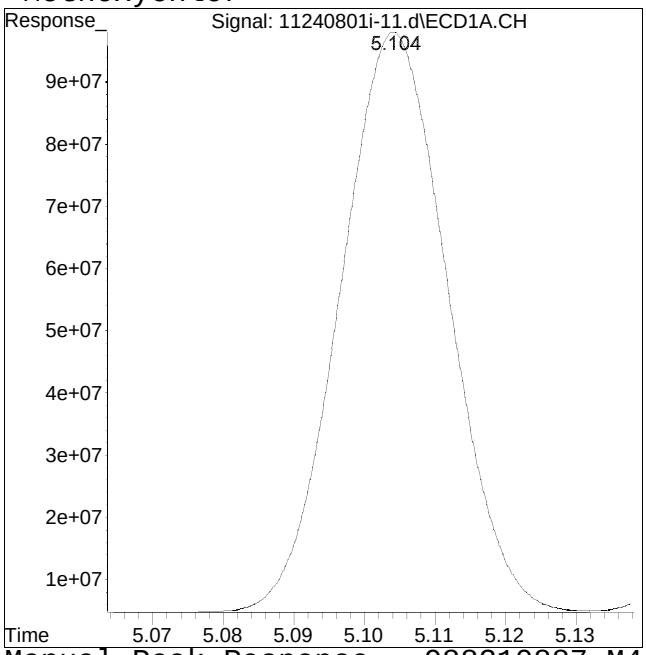
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #23: Methoxychlor



Original Peak Response = 993047512



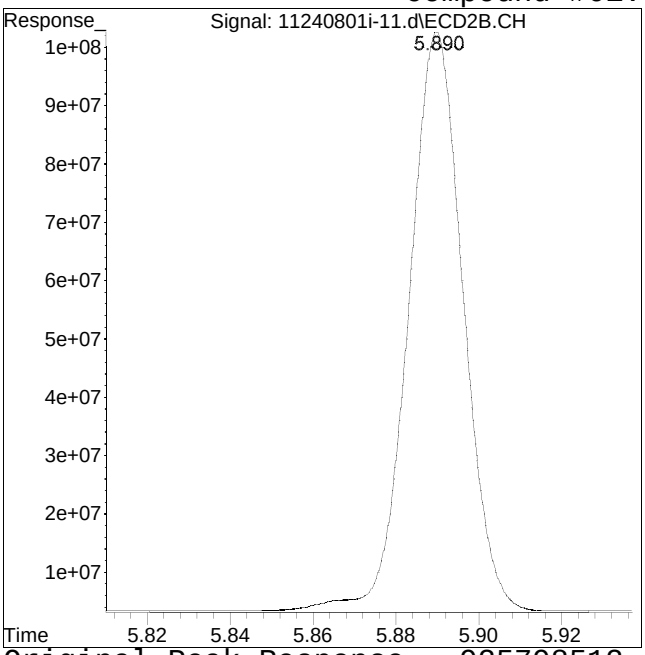
Manual Peak Response = 988310887 M4

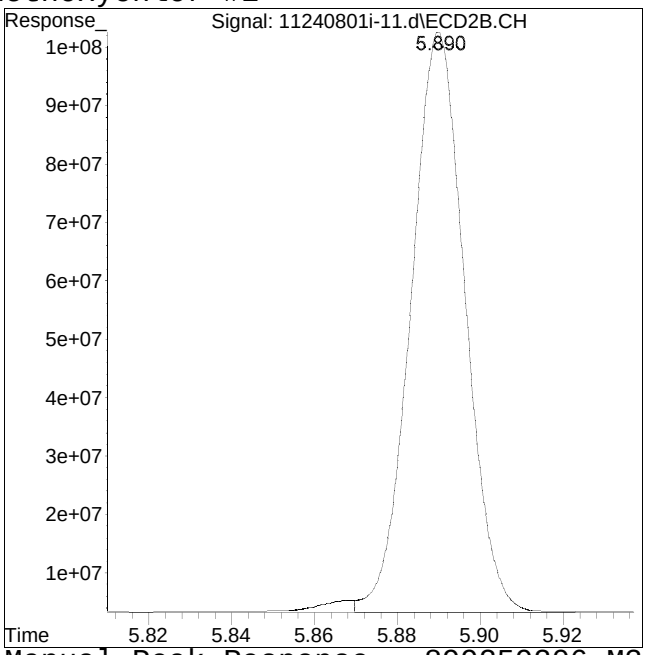
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #61: Methoxychlor #2



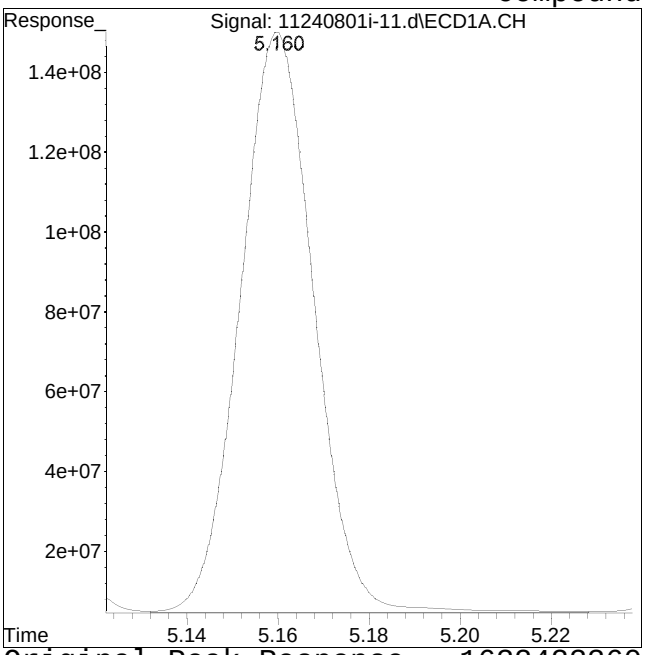


Original Peak Response = 925798512 Manual Peak Response = 899259206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

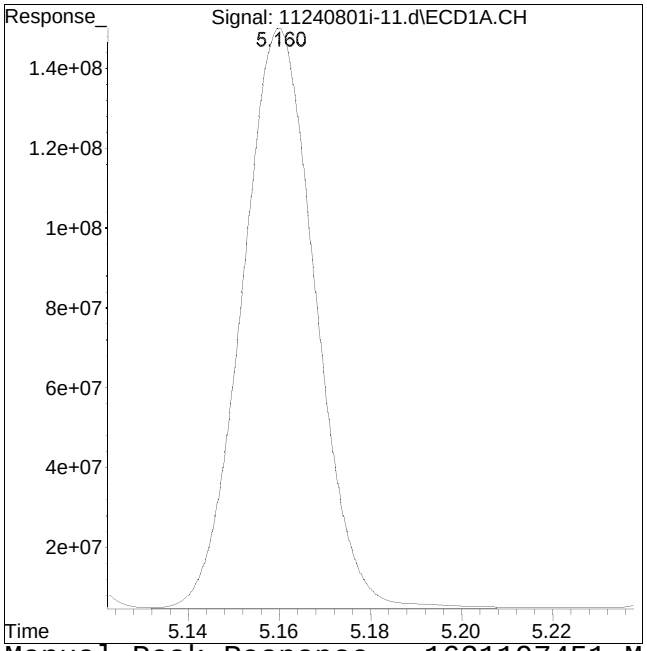
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #24: Mirex



Original Peak Response = 1632423360



Manual Peak Response = 1621197451 M4

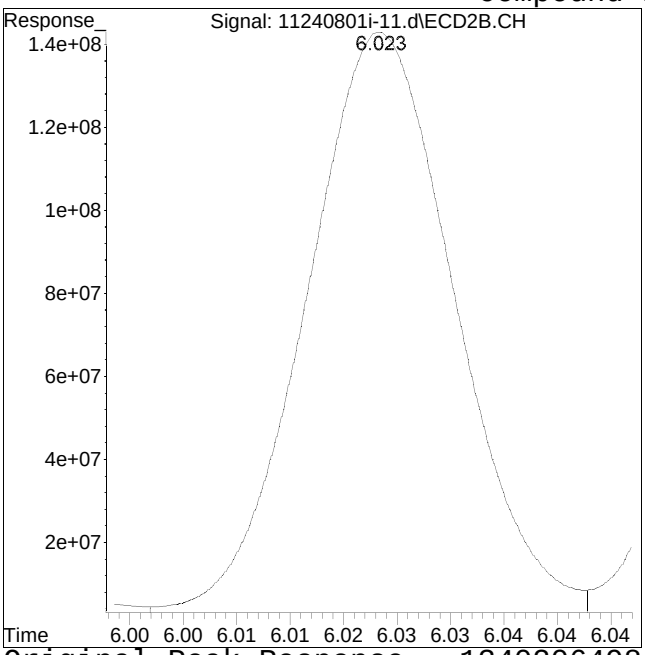
M4 = Poor automated baseline construction.

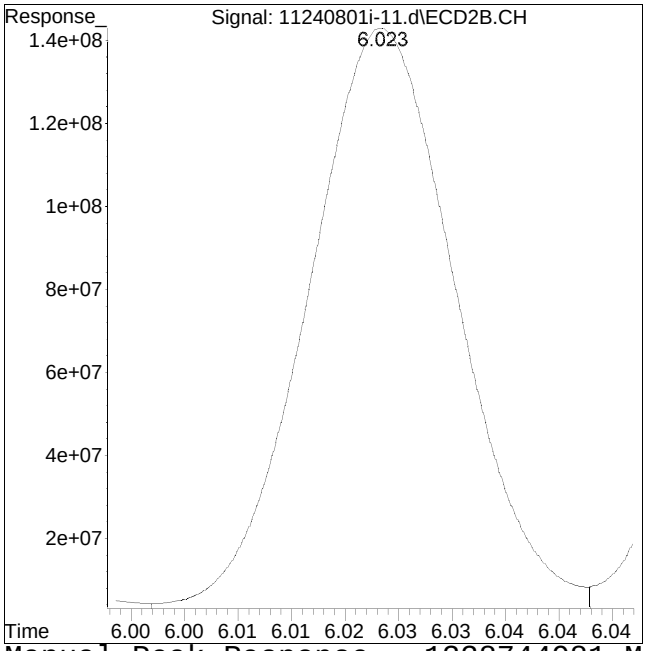
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #62: Mirex #2



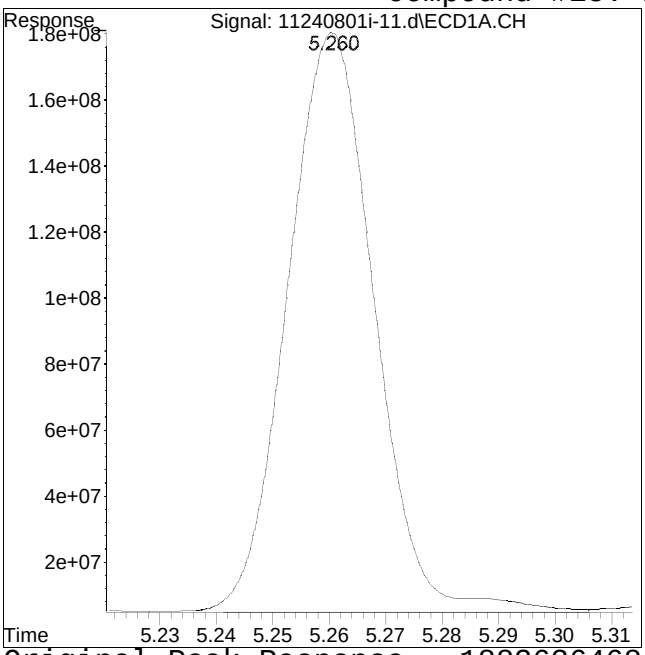


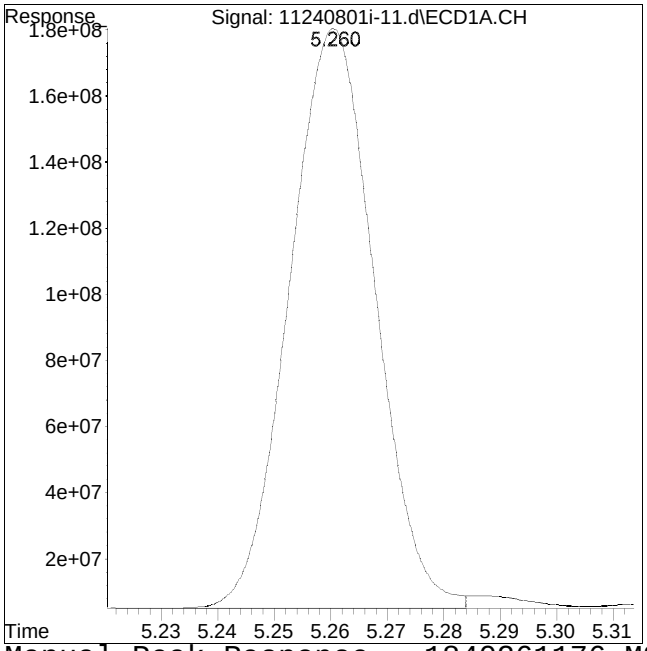
Original Peak Response = 1340206498 Manual Peak Response = 1338744981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #25: Endosulfan Sulfate





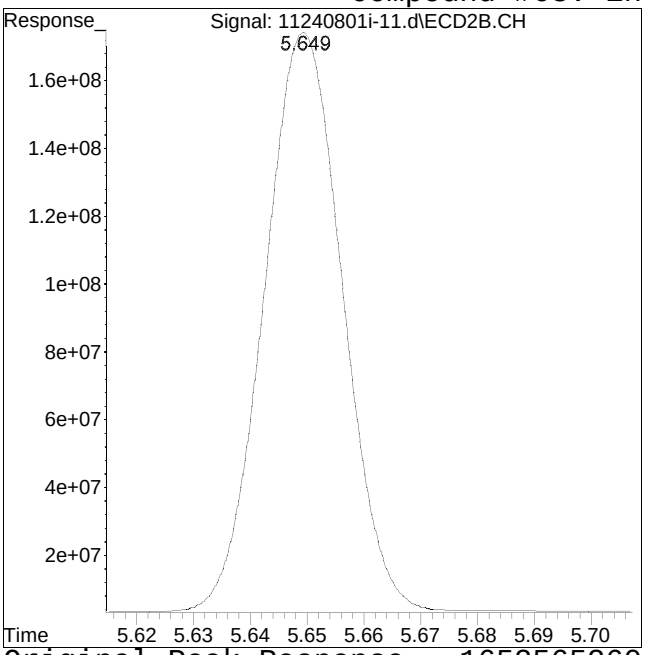
Original Peak Response = 1883636468 Manual Peak Response = 1840261176 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

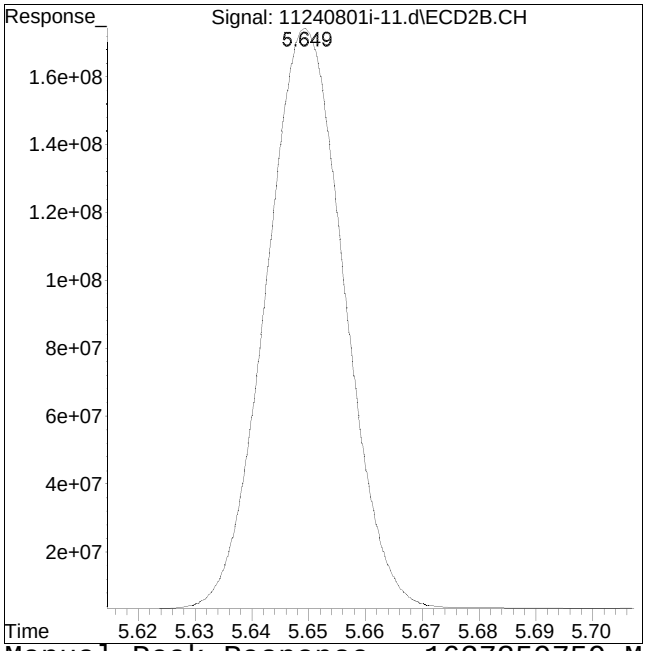
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 1652565260



Manual Peak Response = 1637359759 M4

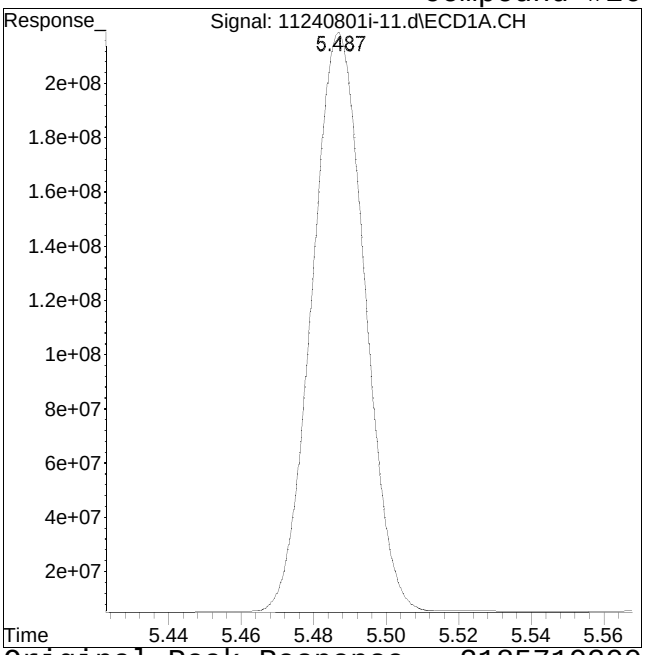
M4 = Poor automated baseline construction.

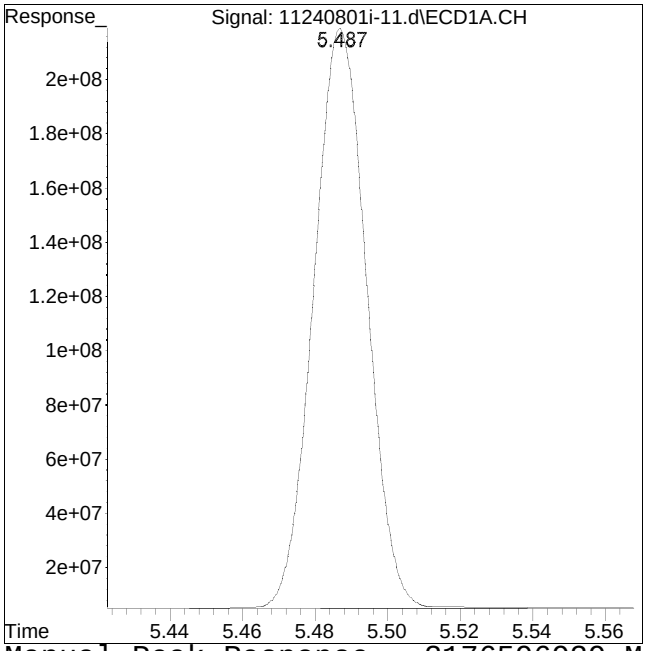
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #26: Endrin Ketone





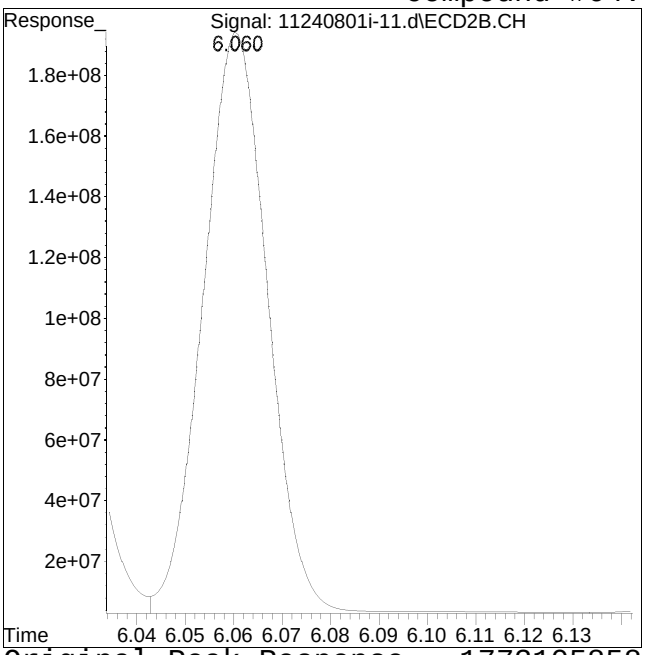
Original Peak Response = 2185719300 Manual Peak Response = 2176596939 M4
M4 = Poor automated baseline construction.

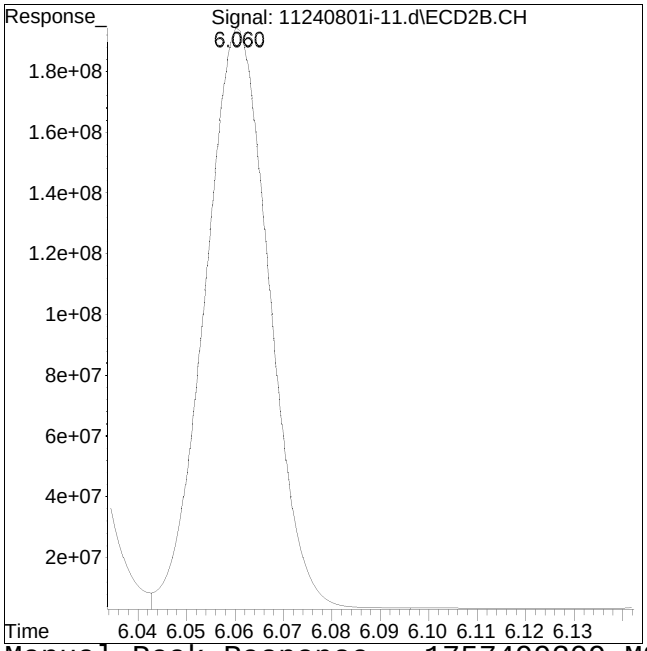
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #64: Endrin Ketone #2





Original Peak Response = 1773105858 Manual Peak Response = 1757499309 M3

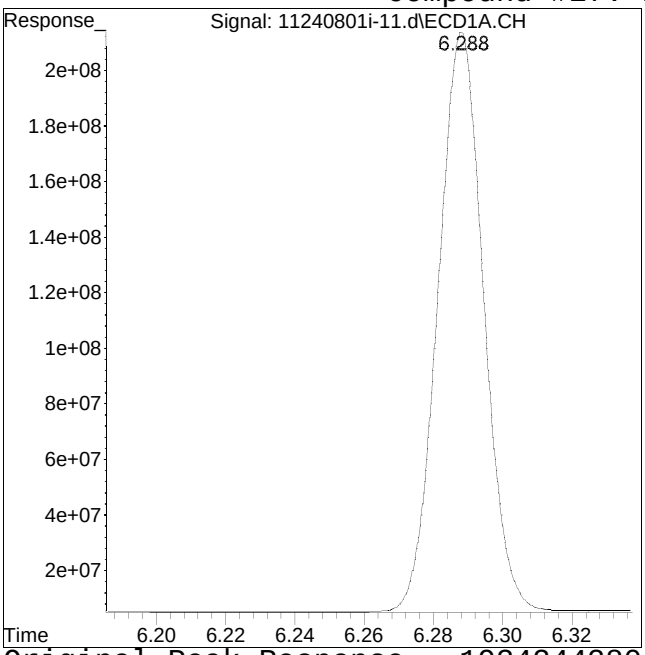
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

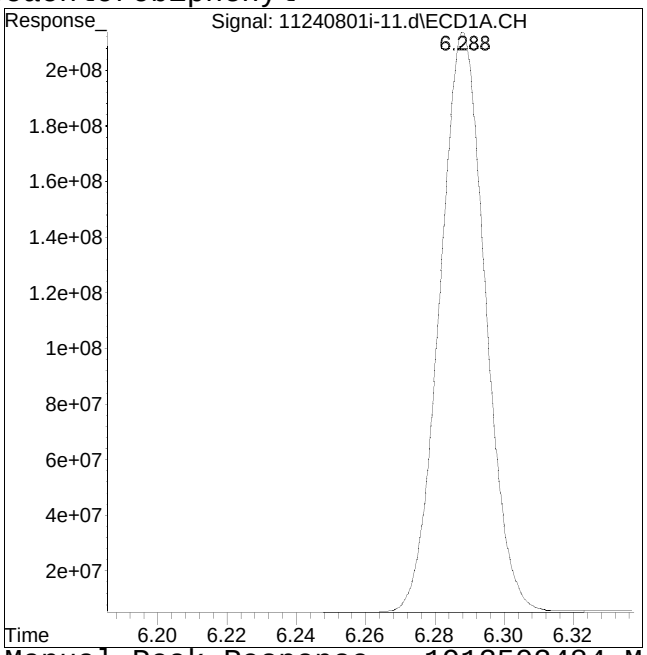
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #27: Decachlorobiphenyl





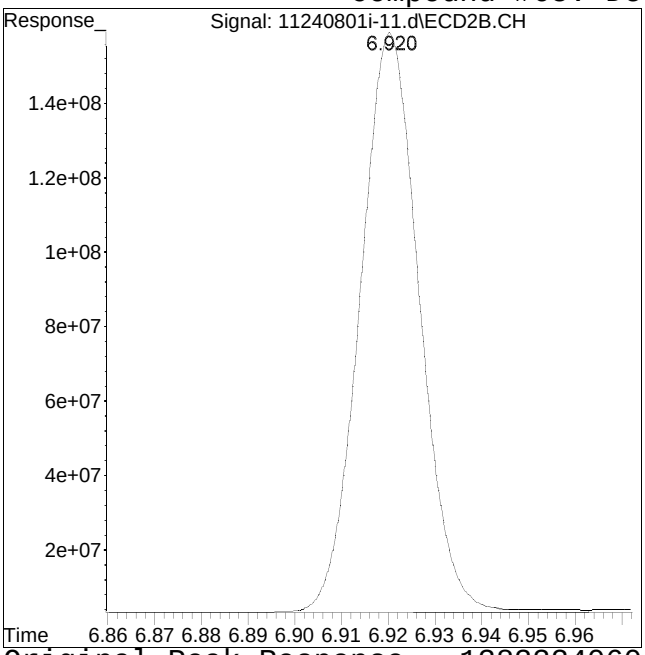
Original Peak Response = 1934244280 Manual Peak Response = 1913503484 M4
M4 = Poor automated baseline construction.

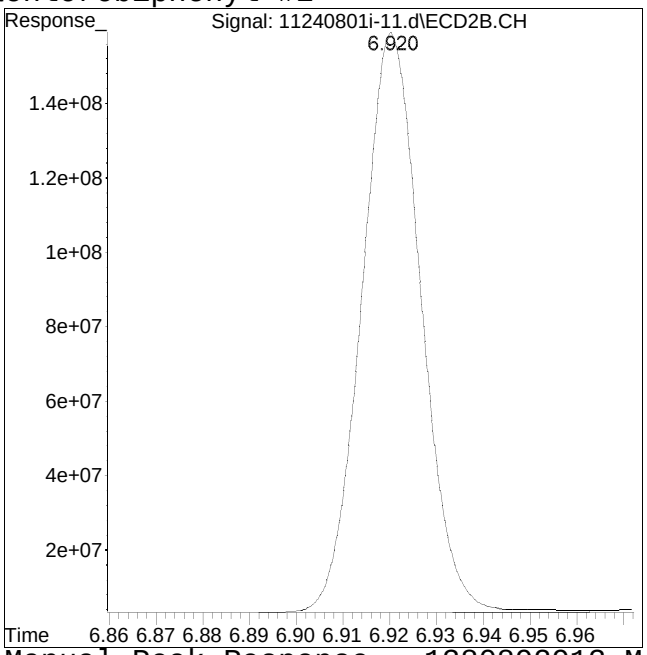
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1383324060 Manual Peak Response = 1380892913 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.310	1.386	219.1E6	172.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.653	1.859	3436.3E6	2866.4E6	375.795M3	383.994
	Spiked Amount 50.000	Range 30 - 150		Recovery =		751.59%#	767.99%#
27) s	Decachlorobi	6.288	6.919	3542.0E6	2565.1E6	389.672M4	396.514M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		779.34%#	793.03%#
	Target Compounds						
3) t	Hexachlorobe	1.866	2.179	4393.8E6	3054.6E6	374.440M3	386.397M4
4) t	alpha-BHC	1.965	2.272	5474.0E6	4748.1E6	387.113M3	397.820M3
5) t	gamma-BHC (l	2.167	2.558	5015.2E6	4254.3E6	385.346M4	395.569
6) t	beta-BHC	2.222	2.623	2035.1E6	1695.7E6	381.357M3	384.044
7) t	delta-BHC	2.351	2.890	5109.5E6	4368.4E6	387.060M4	397.603M4
8) t	Heptachlor	2.514	2.953	4267.4E6	3941.6E6	357.934M4	366.974M4
9) t	Aldrin	2.757	3.272	4276.8E6	3818.0E6	371.928M4	378.594
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.302	3.885	3795.3E6	3457.2E6	359.403M3	369.359M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.426	4.105	3704.6E6	3328.5E6	381.821M4	385.505M4
14)	t	alpha-Chlord	3.560	4.275	4129.5E6	3639.2E6	377.801M3	381.858M4
15)	t	4,4'-DDE	3.658	4.474	4233.9E6	3665.1E6	381.347M4	383.165M3
16)	t	Endosulfan I	3.696	4.336	3638.6E6	3224.0E6	363.740M3	369.311M4
17)	t	Dieldrin	3.956	4.628	3938.0E6	3471.7E6	374.014M4	378.648M4
18)	t	Endrin	4.211	4.926	3882.2E6	3492.7E6	367.059M3	376.416M4
19)	t	4,4'-DDD	4.323	5.050	3366.6E6	3005.8E6	387.600M4	394.381M4
20)	t	Endosulfan I	4.452	5.126	3381.2E6	2907.3E6	357.803M4	364.277M4
21)	t	4,4'-DDT	4.617	5.327	3755.2E6	3373.8E6	384.027M4	387.821M3
22)	t	Endrin Aldeh	4.869	5.422	2950.3E6	2501.6E6	376.997M4	381.397M3
23)	t	Methoxychlor	5.105	5.891	1699.3E6	1603.4E6	350.495M4	373.779M3
24)	t	Mirex	5.160	6.024	2881.7E6	2395.8E6	373.166M3	379.221M4
25)	t	Endosulfan S	5.261	5.650	3233.7E6	2911.3E6	369.599M3	378.677M3
26)	t	Endrin Keton	5.487	6.061	3805.9E6	3138.1E6	363.553M4	377.488M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

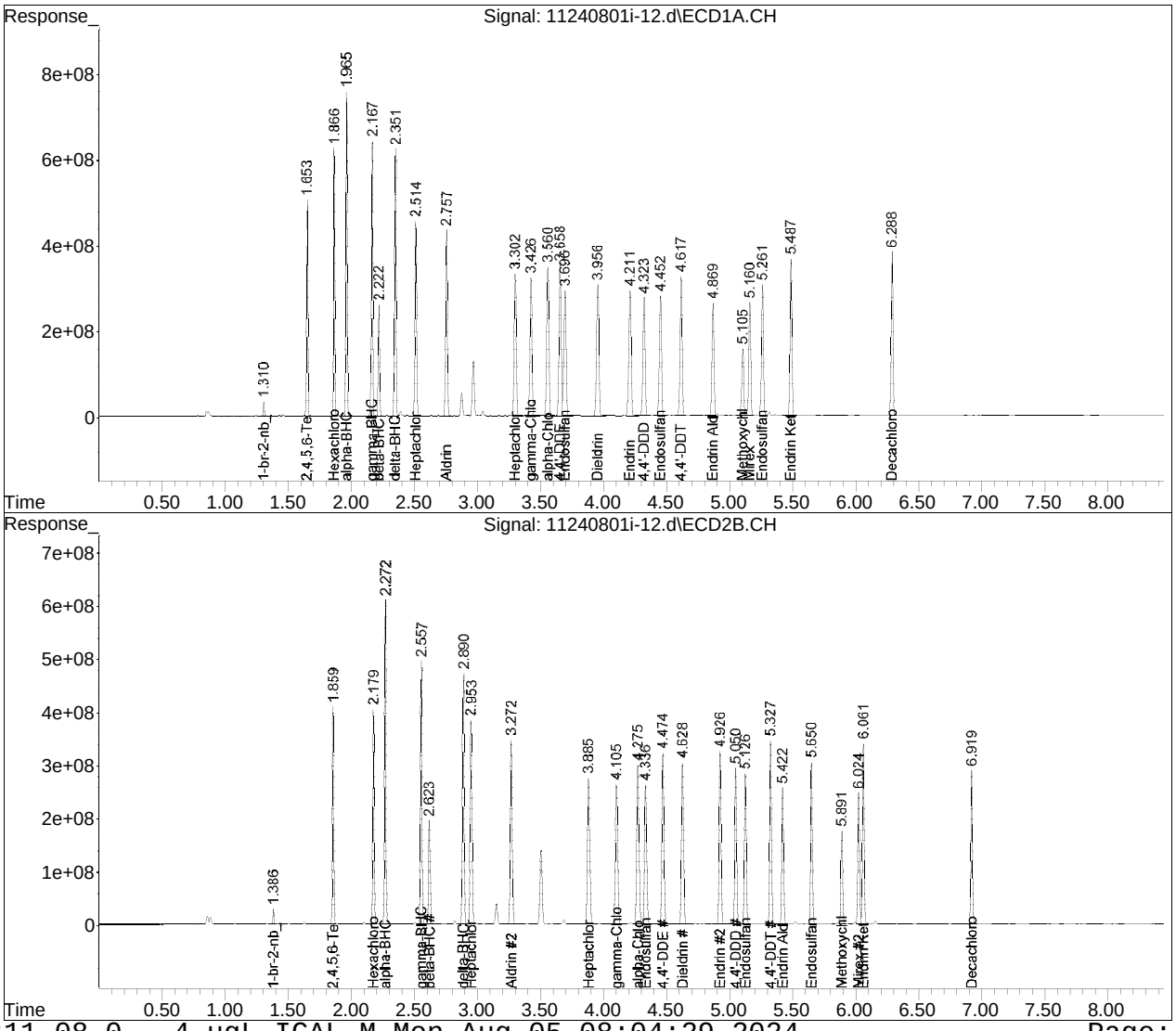
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

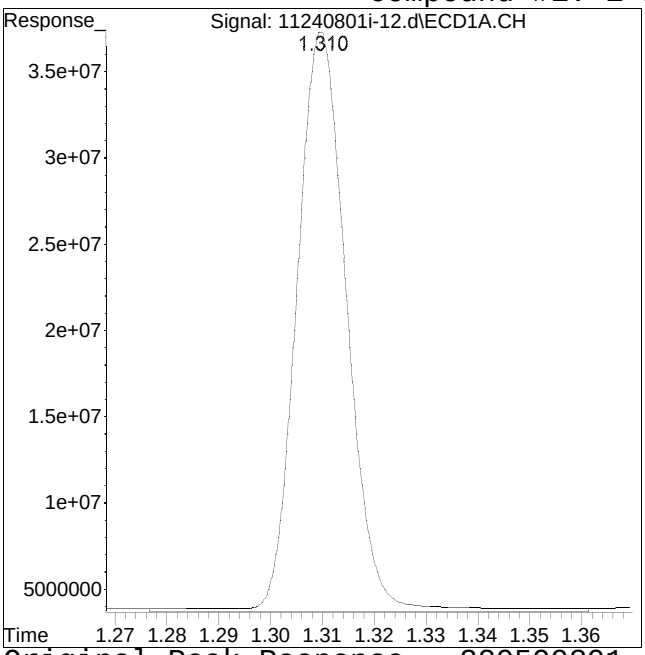
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



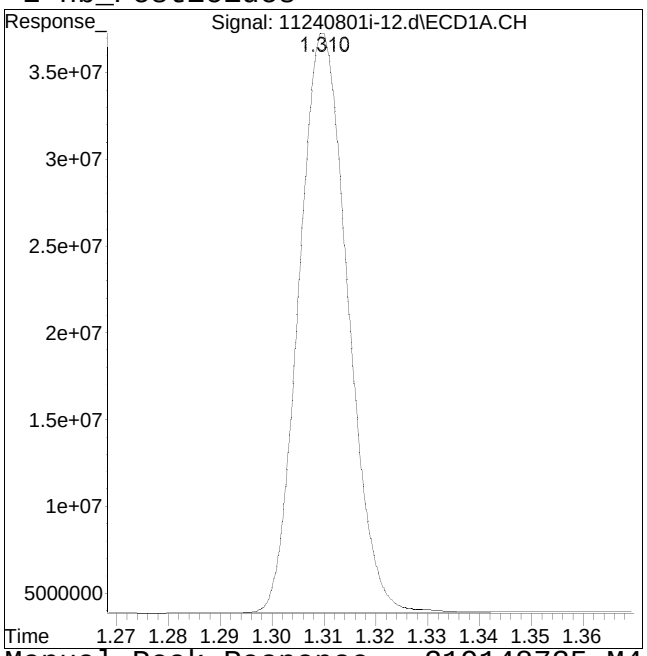
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 229599391



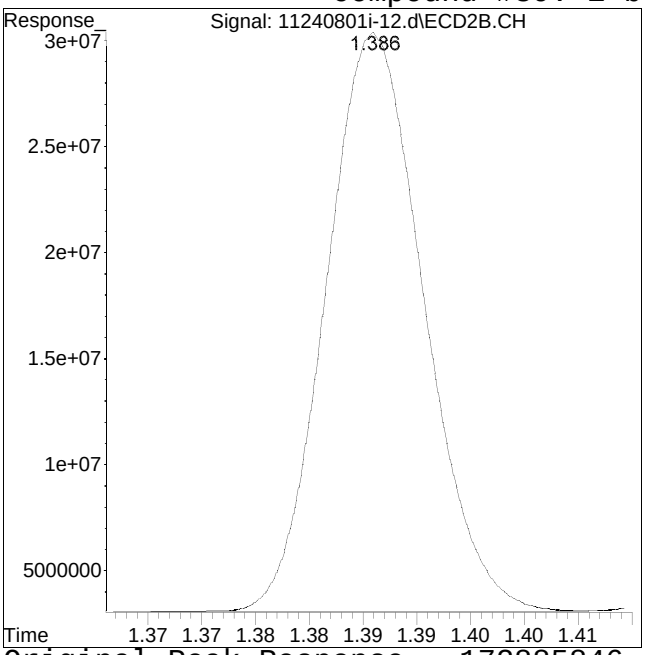
Manual Peak Response = 219148735 M4

M4 = Poor automated baseline construction.

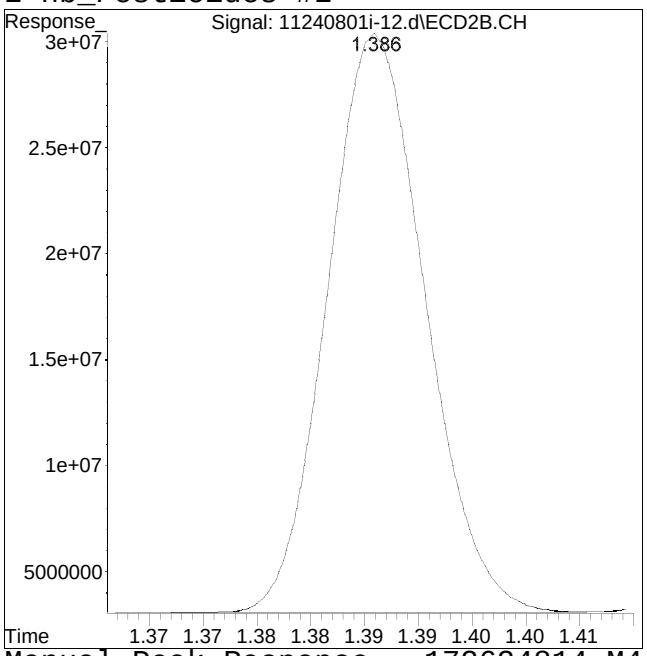
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 172885846



Manual Peak Response = 172624814 M4

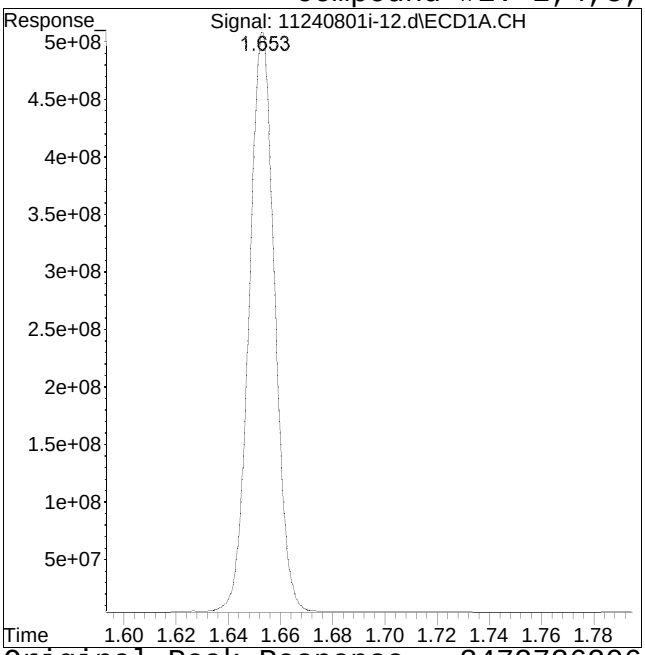
M4 = Poor automated baseline construction.

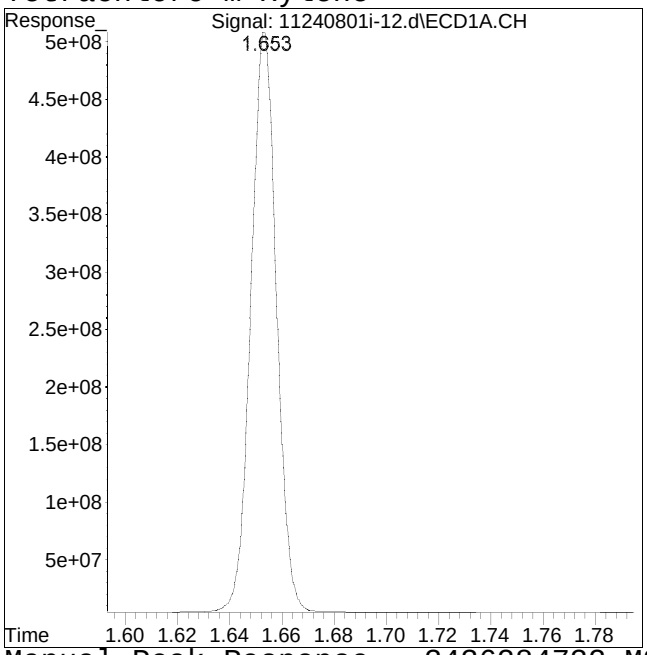
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



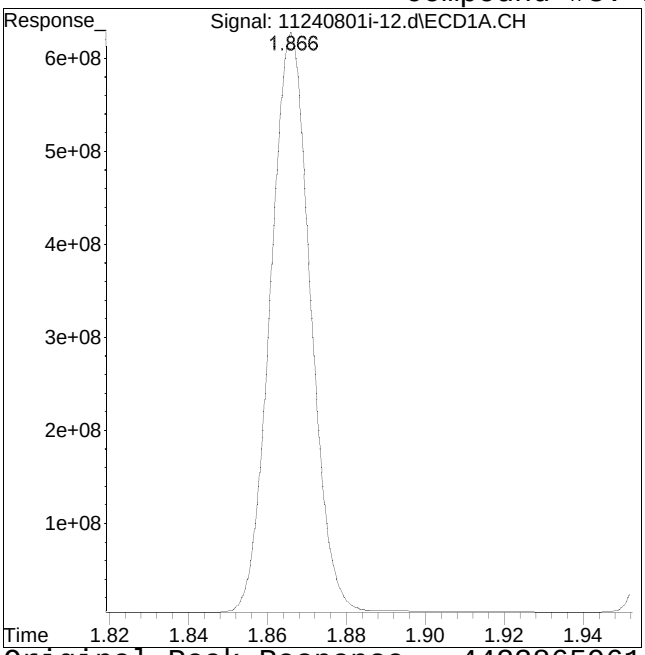


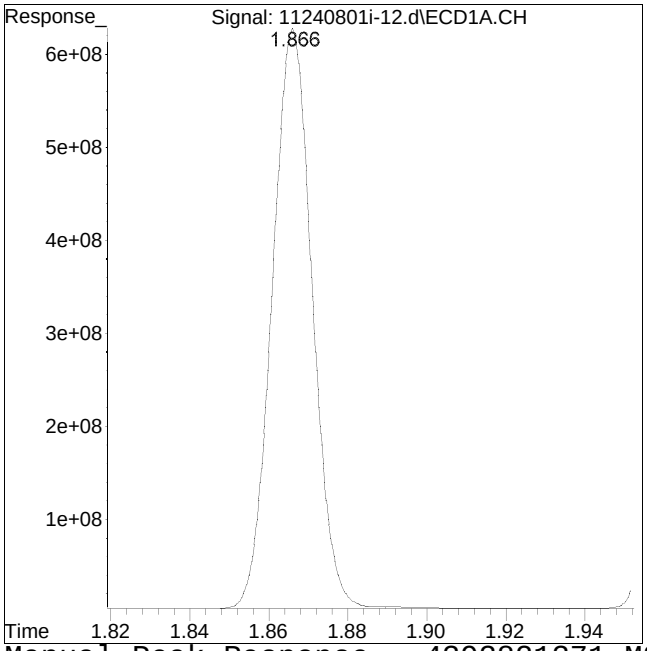
Original Peak Response = 3472736206 Manual Peak Response = 3436284732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #3: Hexachlorobenzene



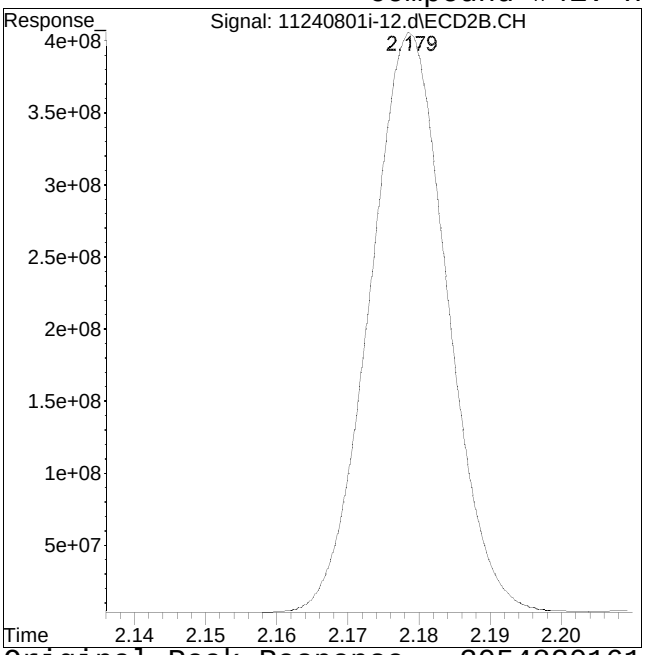


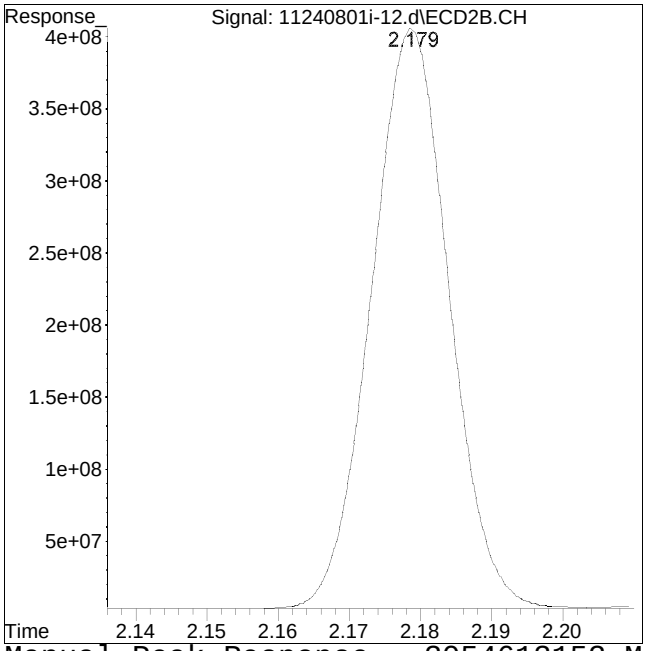
Original Peak Response = 4423865961 Manual Peak Response = 4393821371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #41: Hexachlorobenzene #2





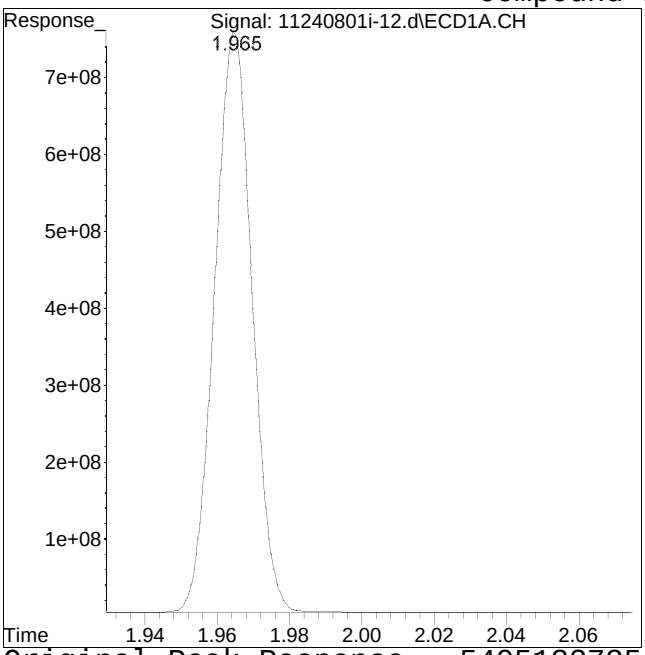
Original Peak Response = 3054820161 Manual Peak Response = 3054613153 M4
M4 = Poor automated baseline construction.

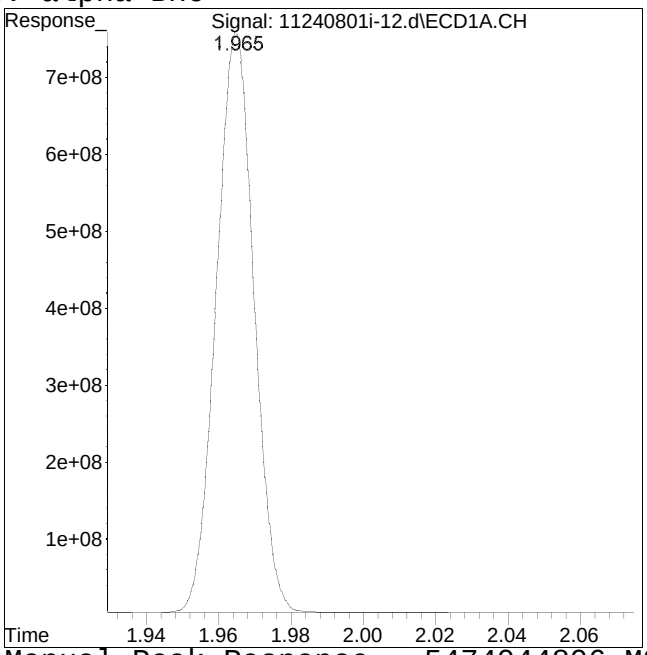
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #4: alpha-BHC



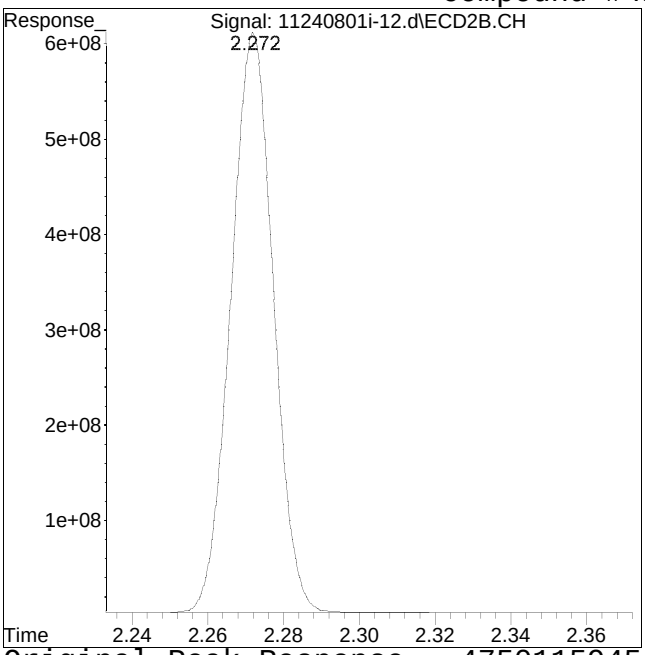


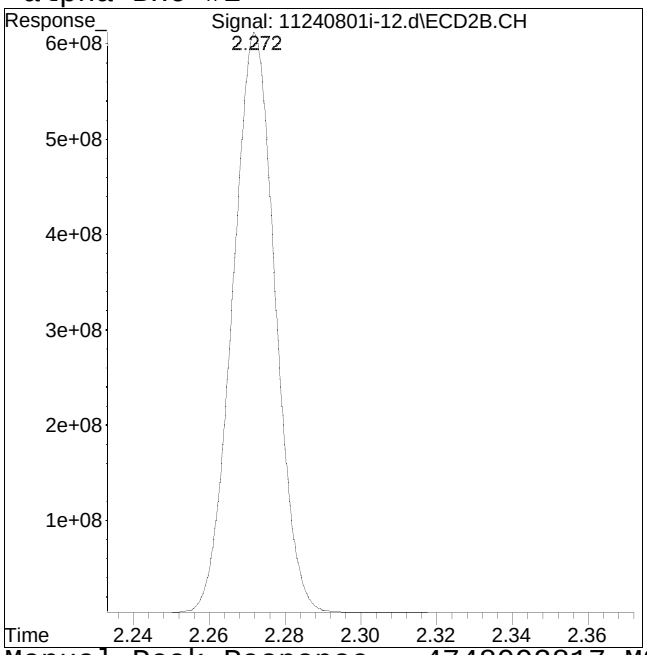
Original Peak Response = 5495133735 Manual Peak Response = 5474044806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #42: alpha-BHC #2





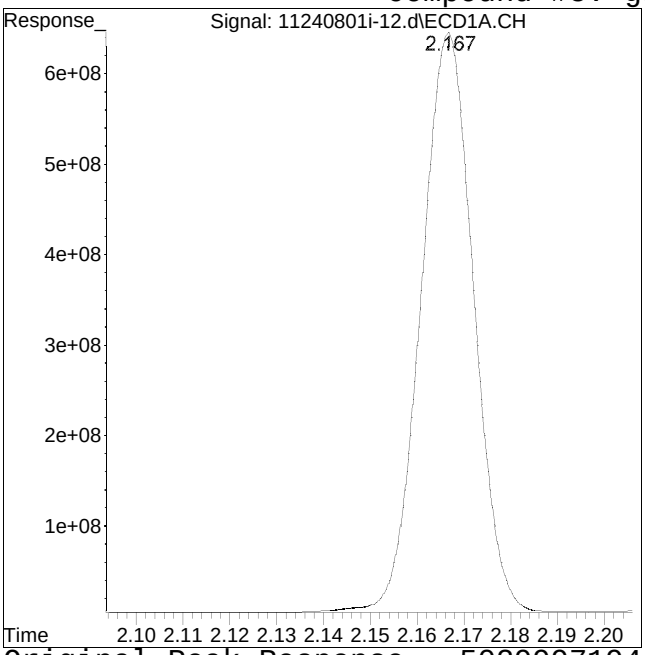
Original Peak Response = 4750115945 Manual Peak Response = 4748093817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

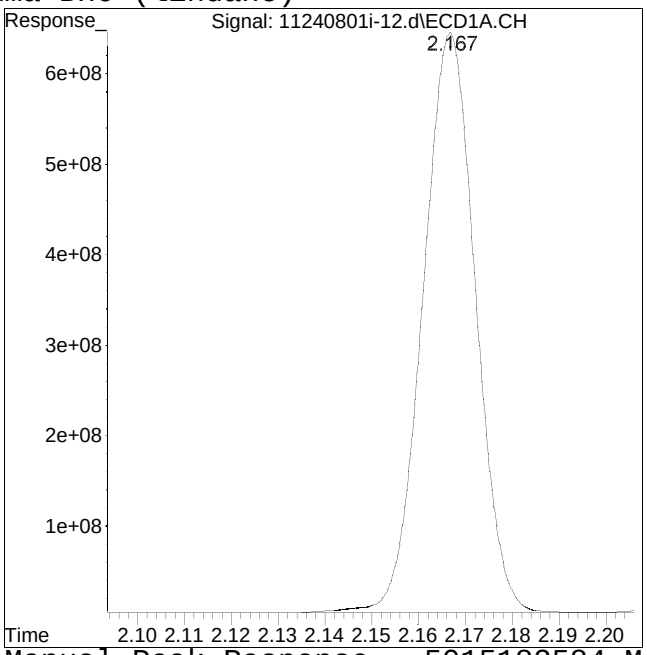
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #5: gamma-BHC (lindane)



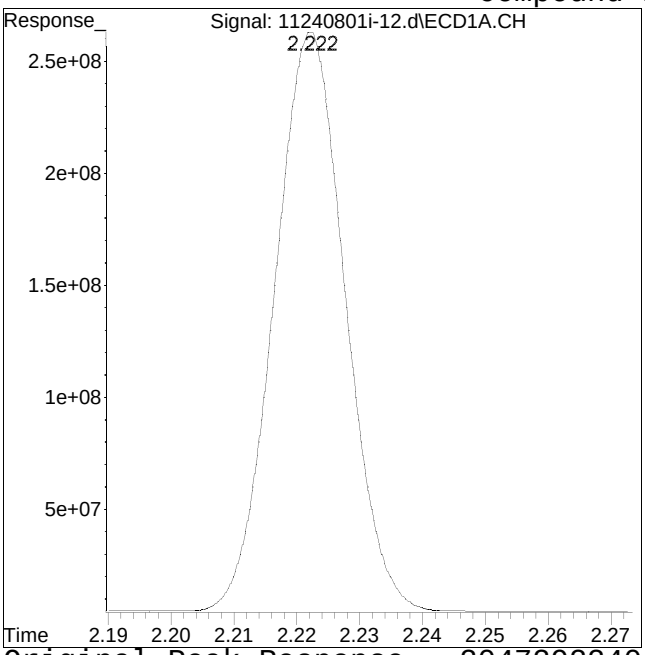


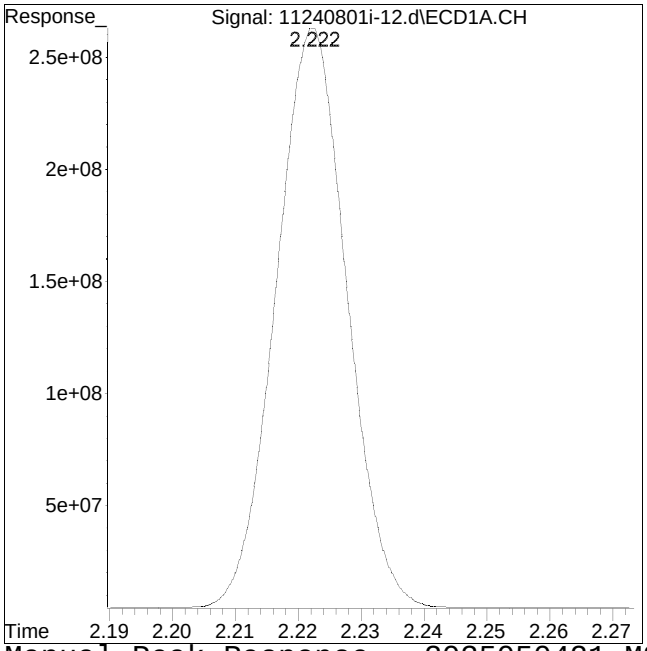
Original Peak Response = 5029997194 Manual Peak Response = 5015182584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #6: beta-BHC



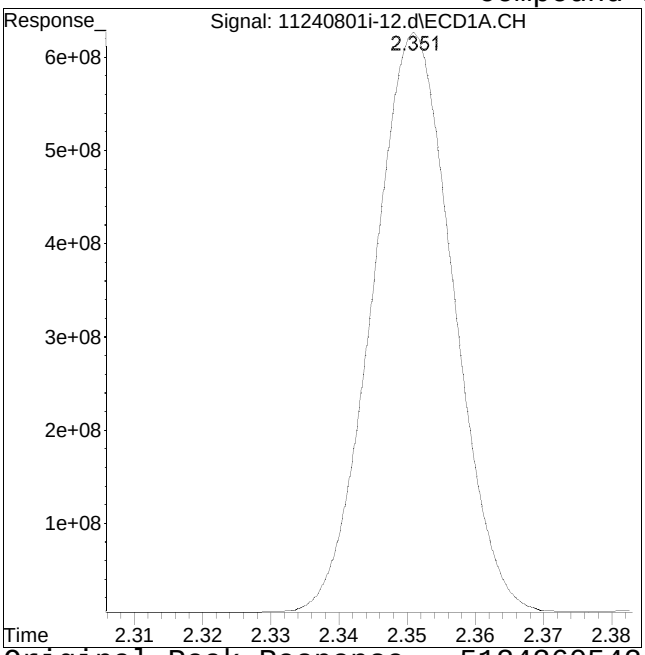


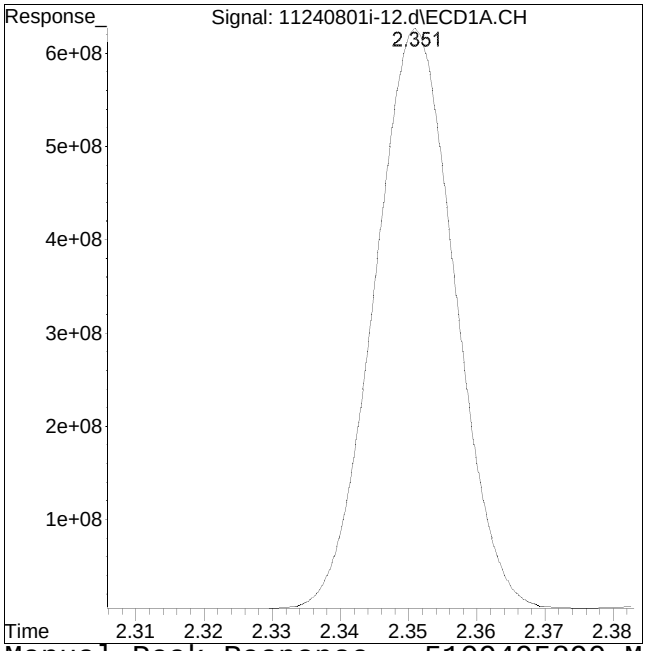
Original Peak Response = 2047292240 Manual Peak Response = 2035050421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #7: delta-BHC



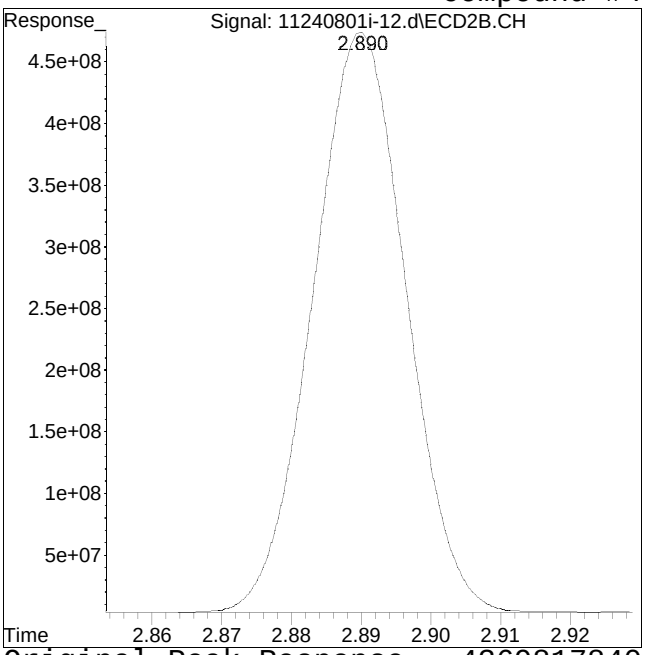


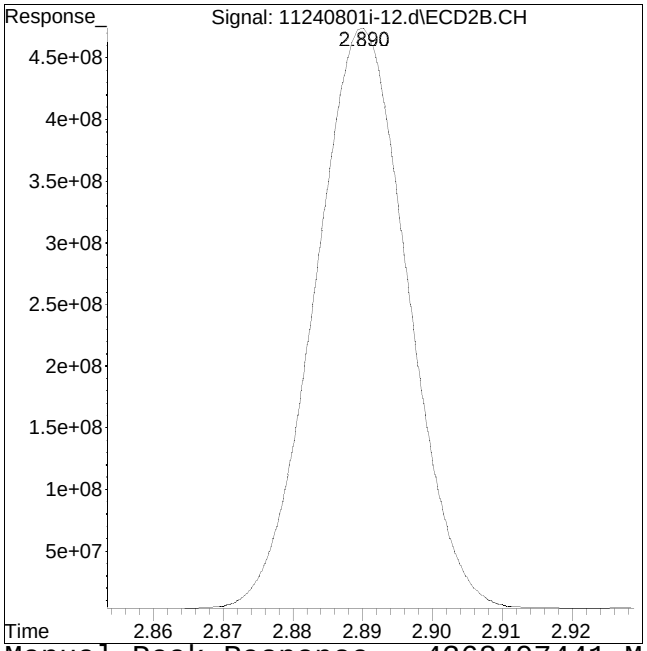
Original Peak Response = 5124360542 Manual Peak Response = 5109495890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #45: delta-BHC #2



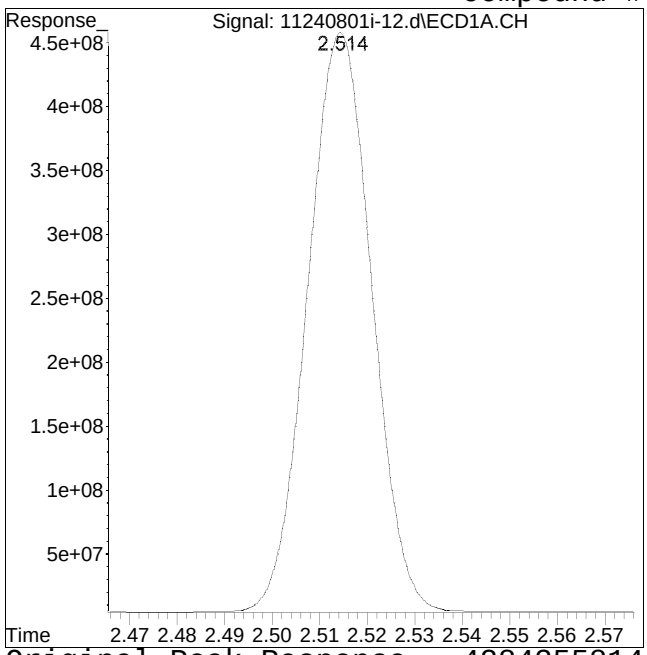


Original Peak Response = 4369817840 Manual Peak Response = 4368407441 M4
M4 = Poor automated baseline construction.

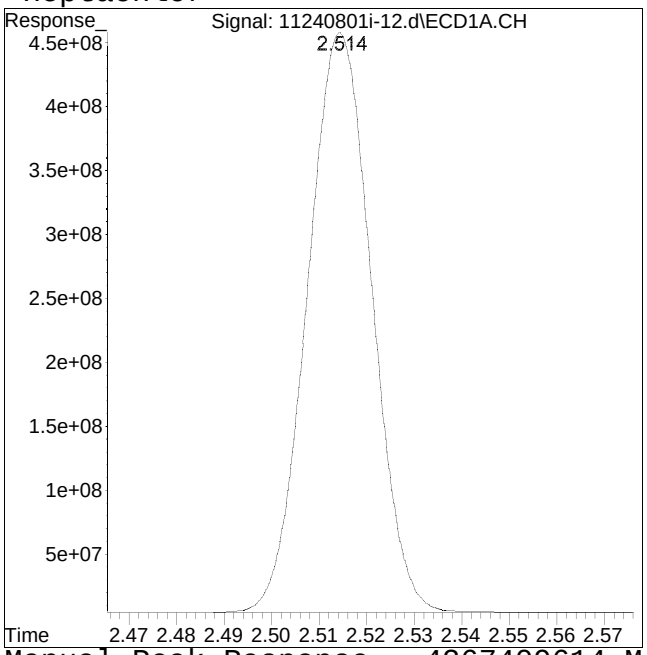
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #8: Heptachlor



Original Peak Response = 4284355814



Manual Peak Response = 4267409614 M4

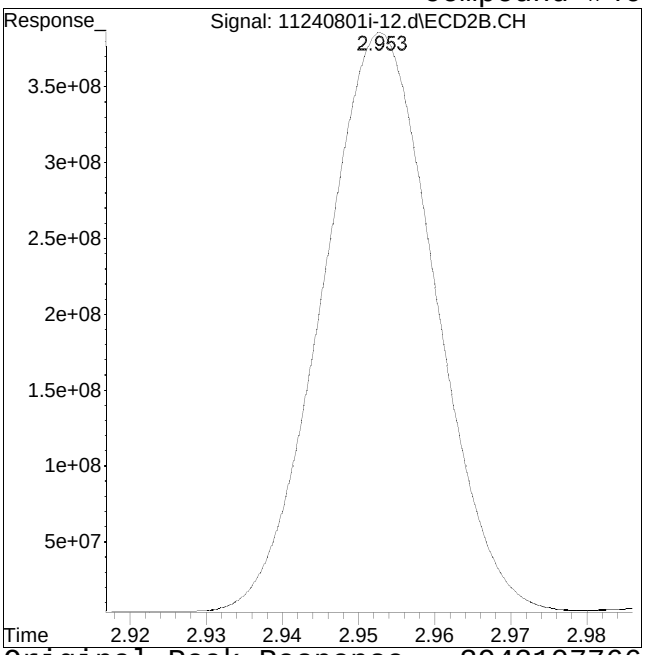
M4 = Poor automated baseline construction.

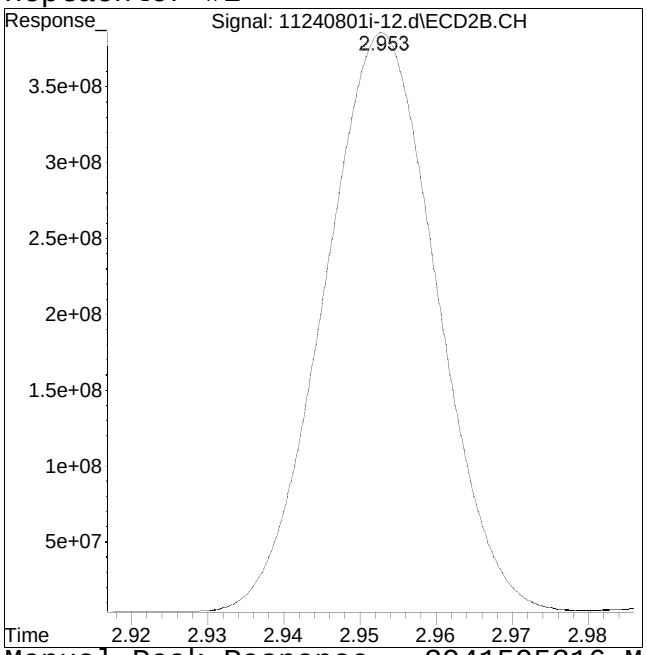
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #46: Heptachlor #2





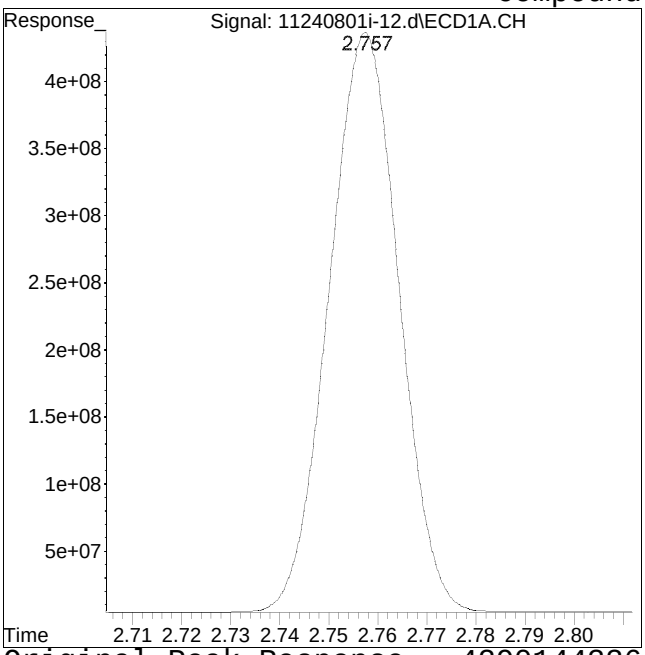
Original Peak Response = 3942107766 Manual Peak Response = 3941595316 M4
M4 = Poor automated baseline construction.

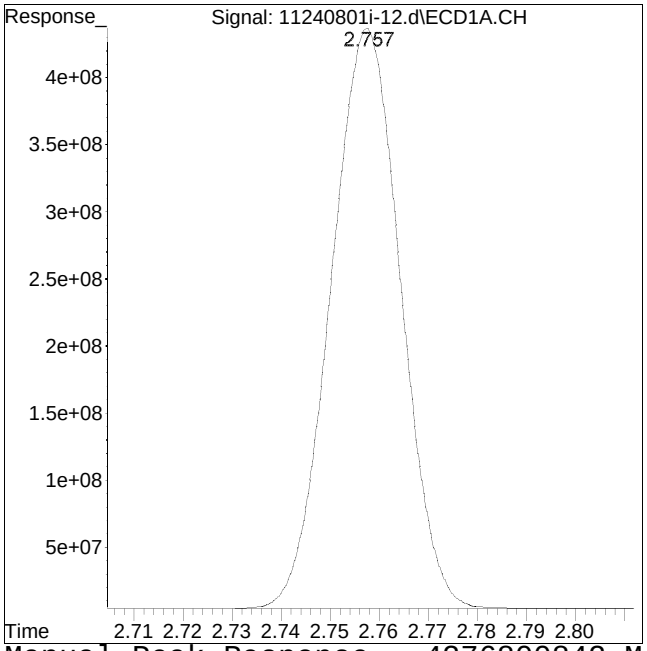
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #9: Aldrin





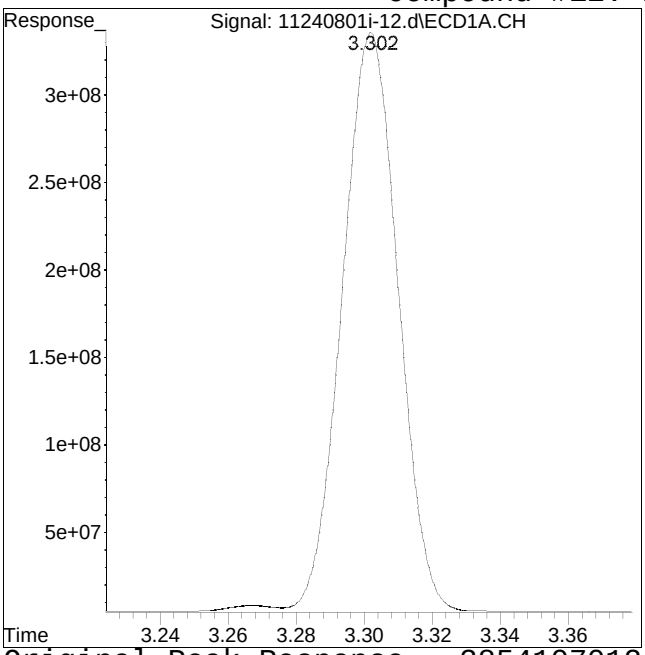
Original Peak Response = 4290144336 Manual Peak Response = 4276800842 M4
M4 = Poor automated baseline construction.

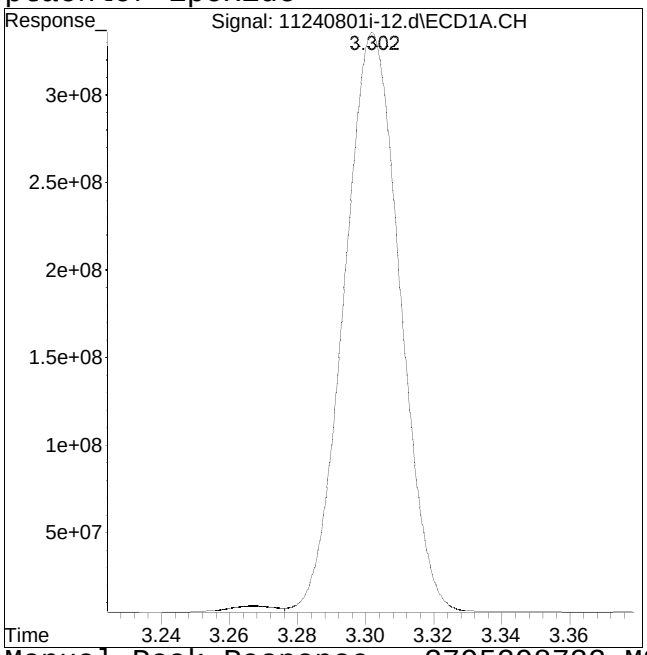
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #12: Heptachlor Epoxide





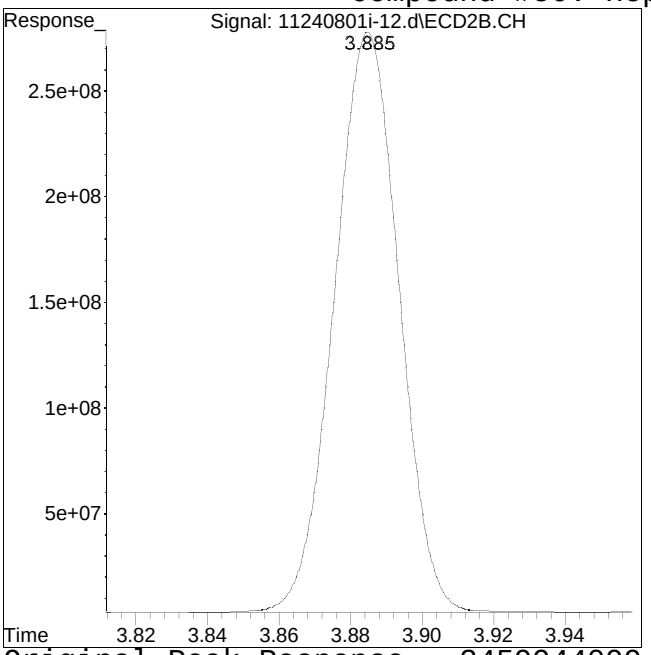
Original Peak Response = 3854107012 Manual Peak Response = 3795298732 M3

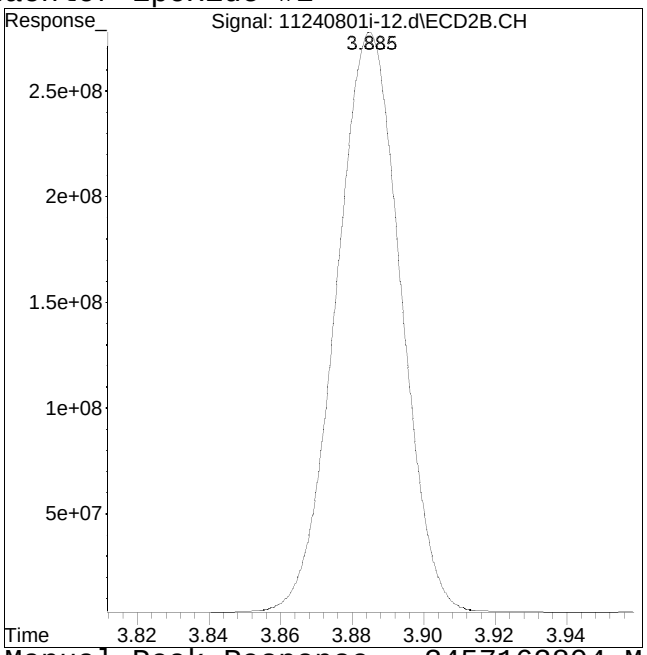
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #50: Heptachlor Epoxide #2





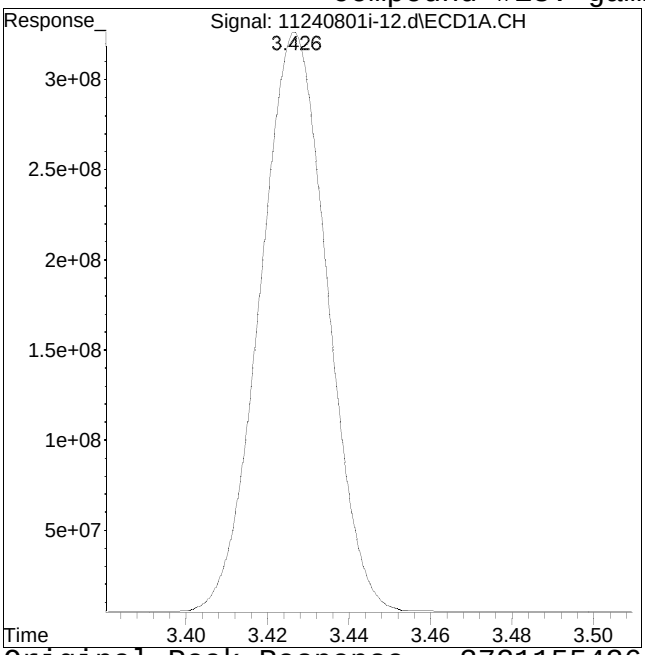
Original Peak Response = 3459944099 Manual Peak Response = 3457163804 M4
M4 = Poor automated baseline construction.

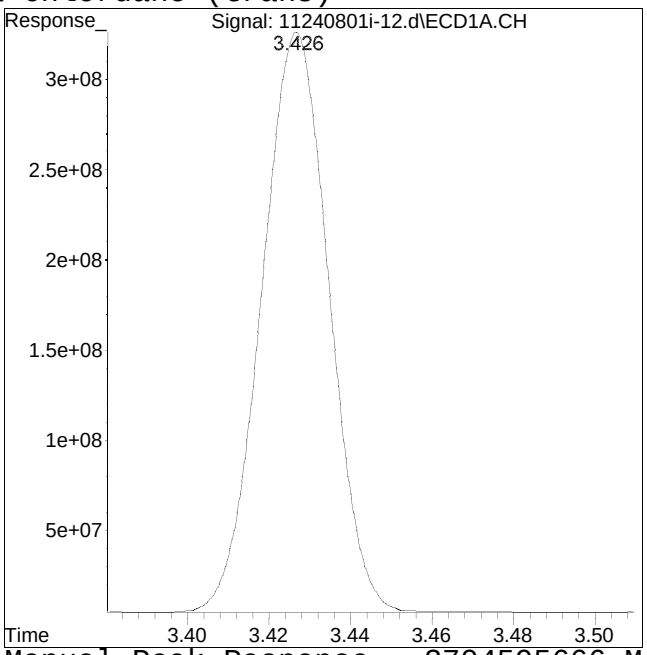
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #13: gamma-Chlordane (trans)





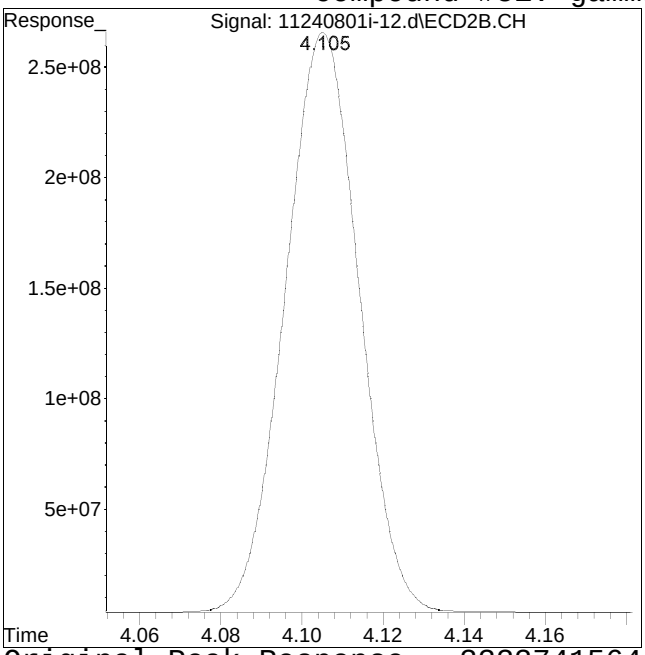
Original Peak Response = 3721155426 Manual Peak Response = 3704595666 M4
M4 = Poor automated baseline construction.

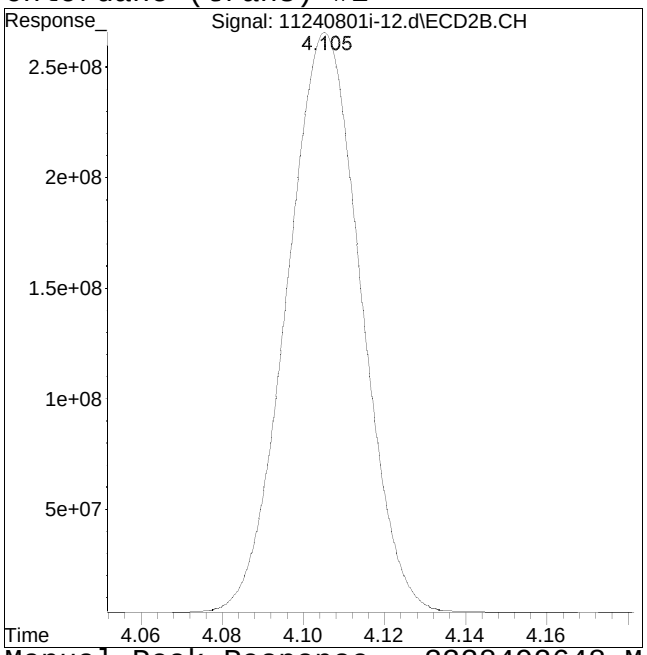
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #51: gamma-Chlordane (trans) #2



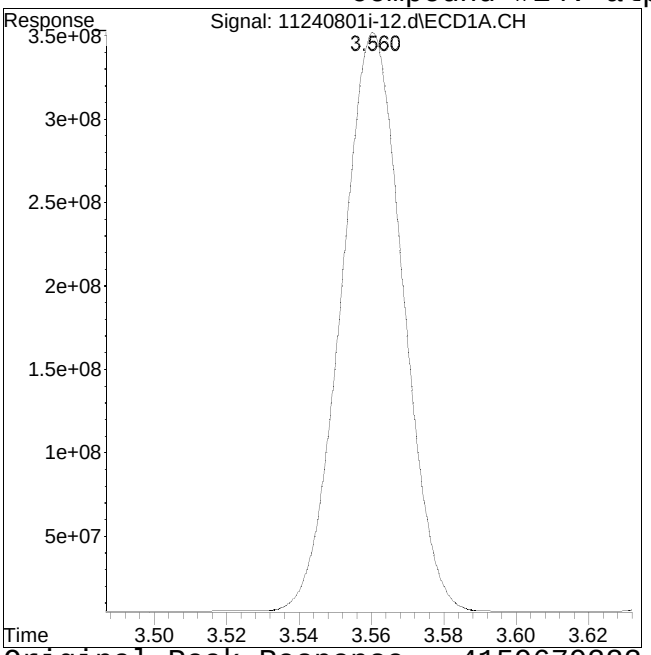


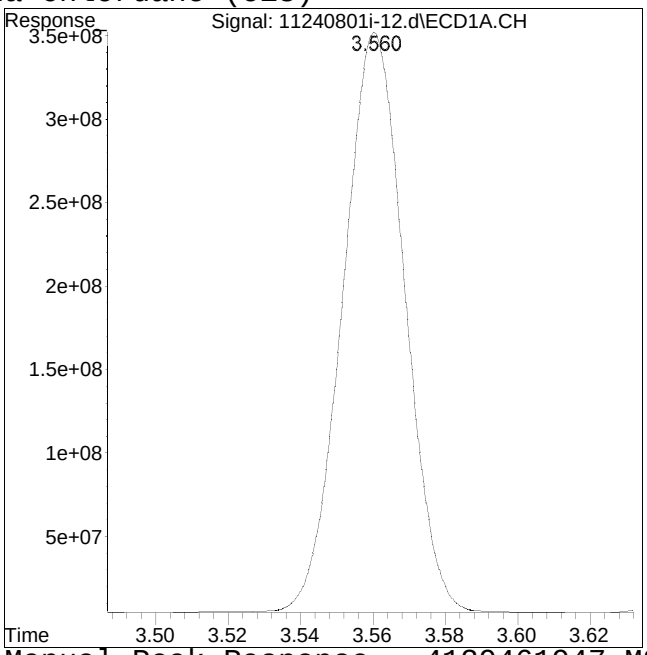
Original Peak Response = 3333741564 Manual Peak Response = 3328492648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #14: alpha-Chlordane (cis)





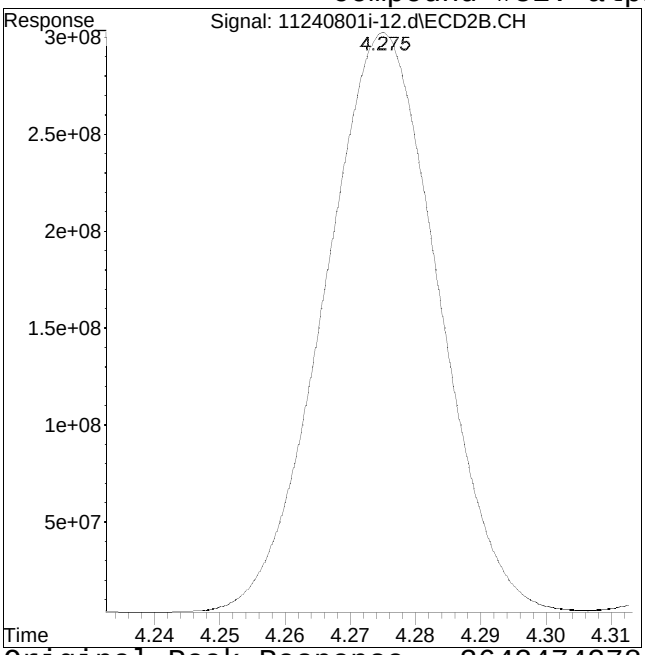
Original Peak Response = 4159679223 Manual Peak Response = 4129461947 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

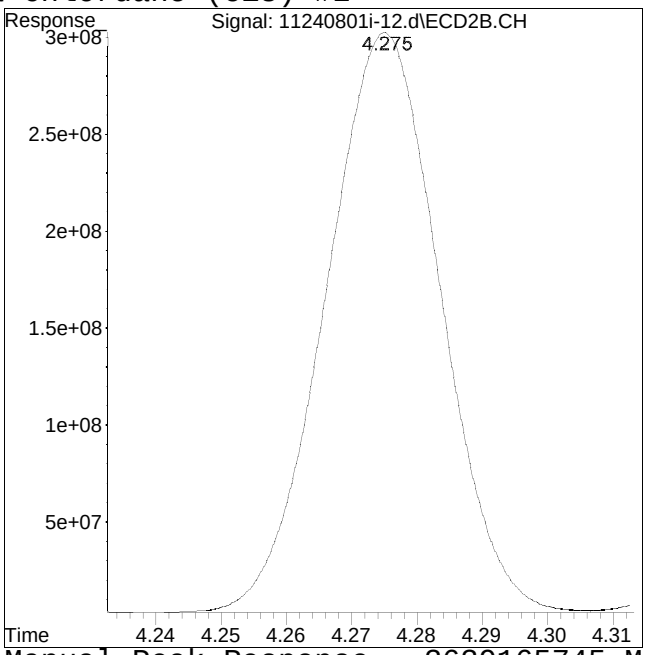
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #52: alpha-Chlordane (cis) #2





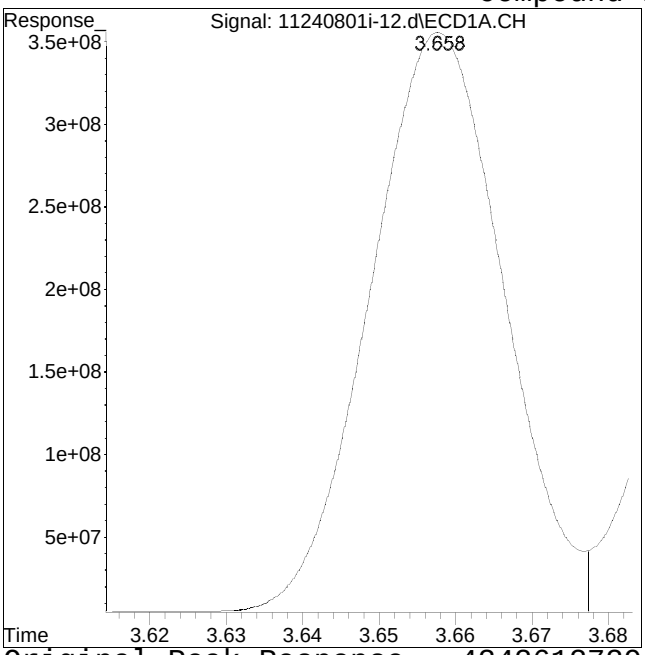
Original Peak Response = 3642474278 Manual Peak Response = 3639165745 M4
M4 = Poor automated baseline construction.

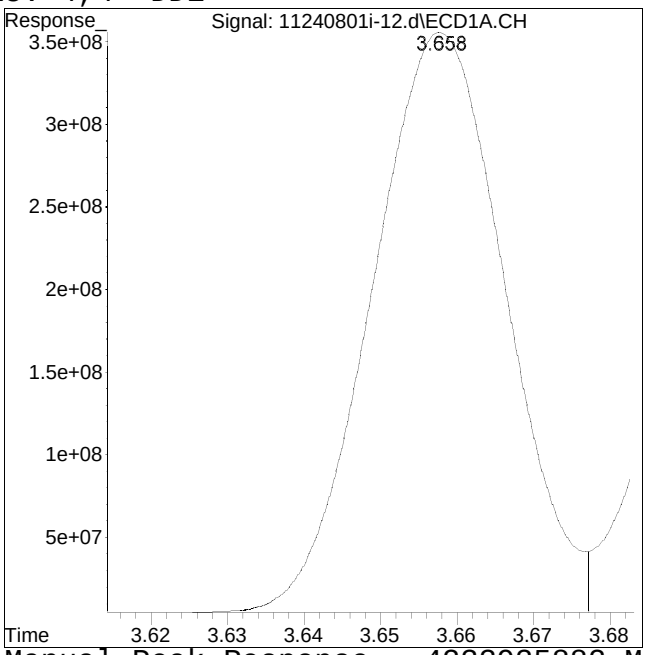
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #15: 4,4'-DDE





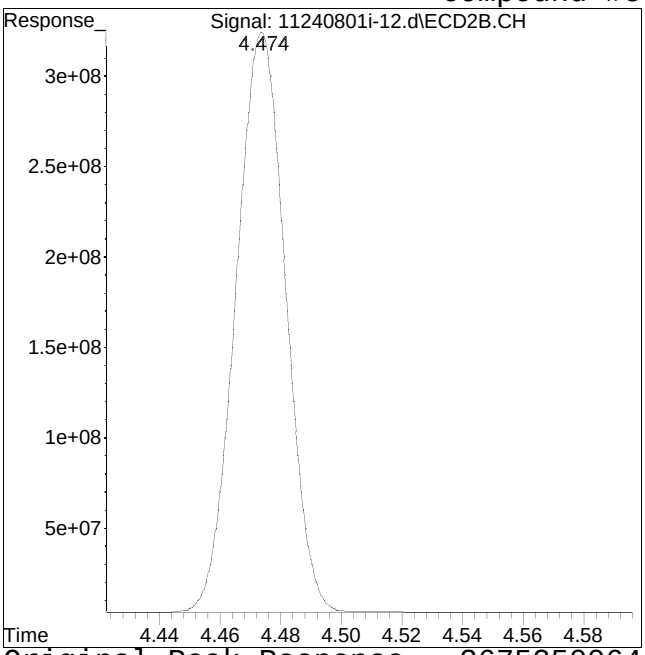
Original Peak Response = 4242612729 Manual Peak Response = 4233935882 M4
M4 = Poor automated baseline construction.

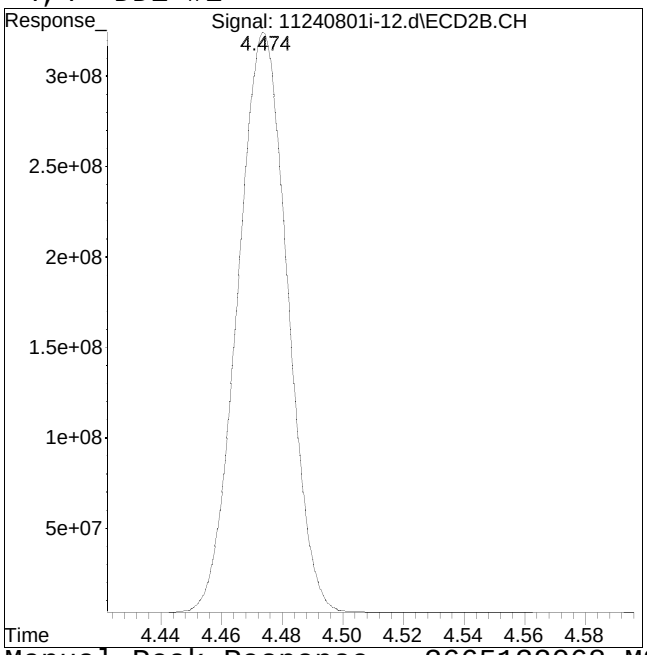
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #53: 4,4'-DDE #2





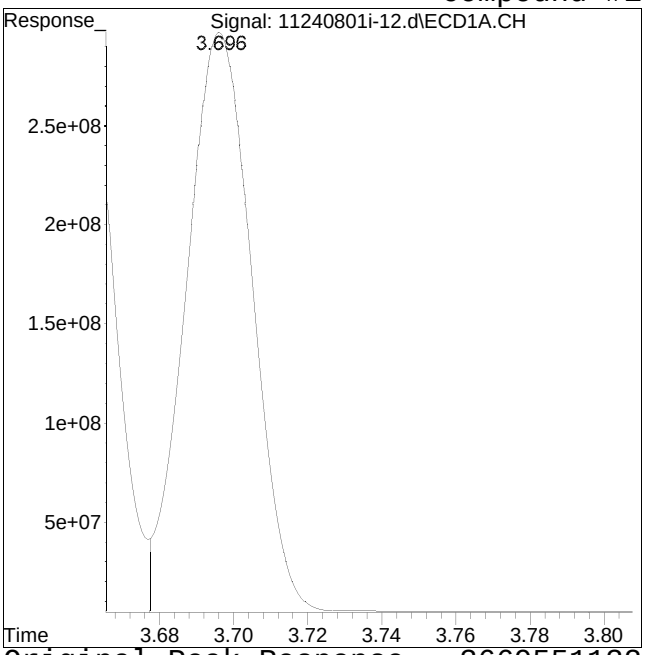
Original Peak Response = 3675250064 Manual Peak Response = 3665132068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

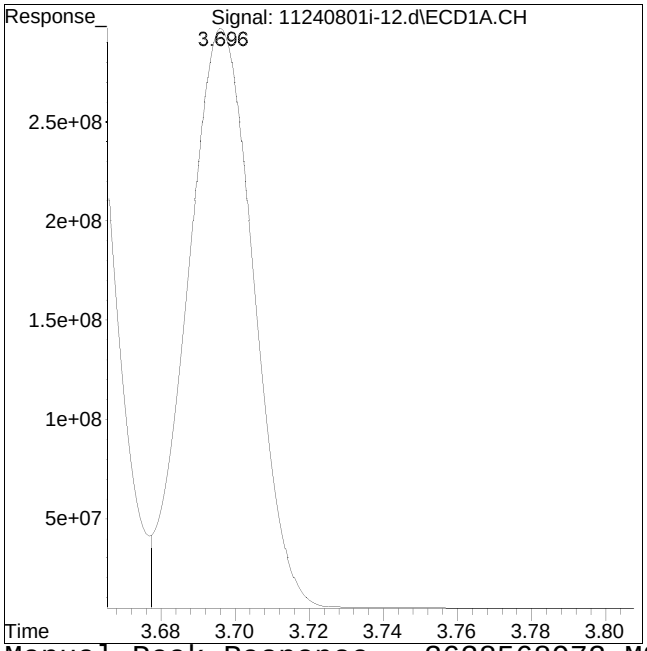
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #16: Endosulfan I



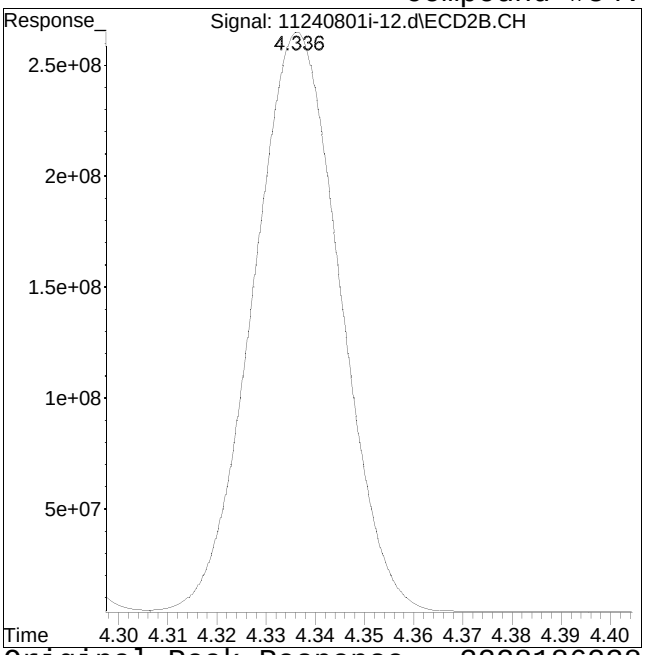


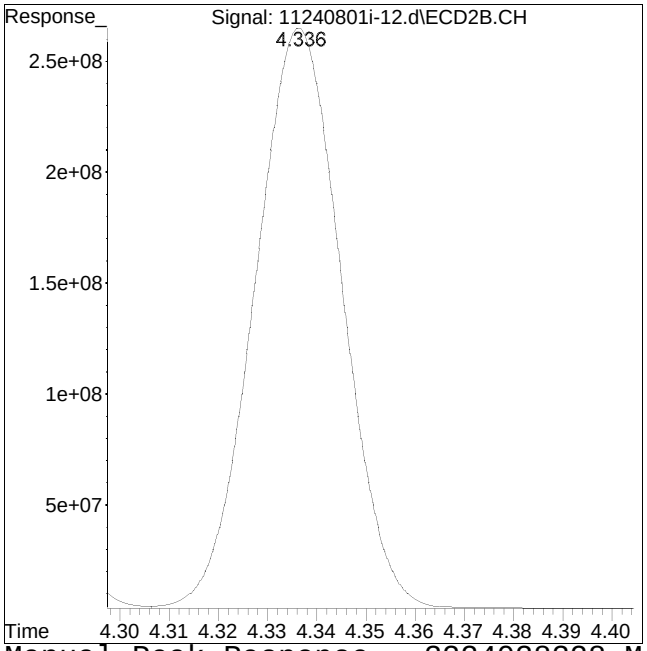
Original Peak Response = 3669551132 Manual Peak Response = 3638568973 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #54: Endosulfan I #2





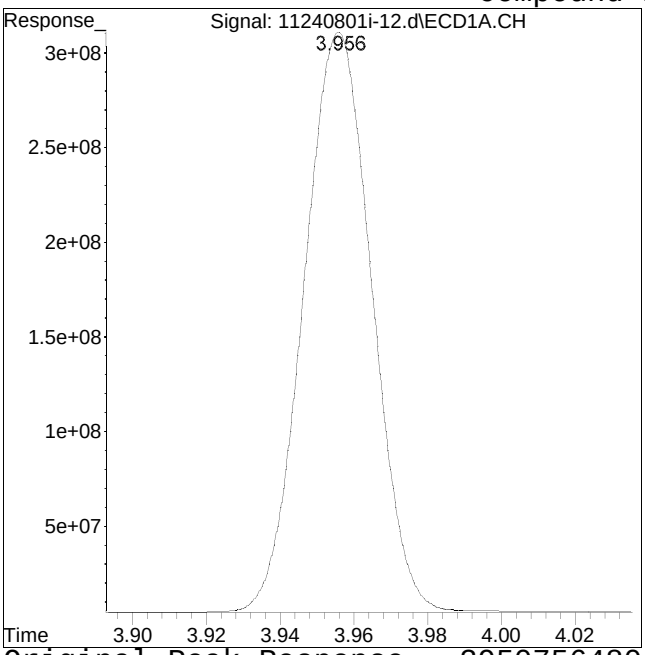
Original Peak Response = 3228186238 Manual Peak Response = 3224038328 M4
M4 = Poor automated baseline construction.

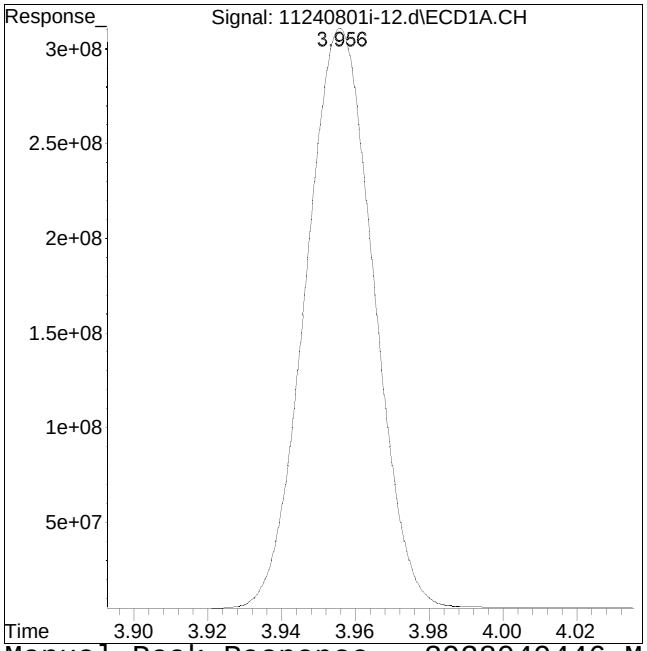
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #17: Dieldrin





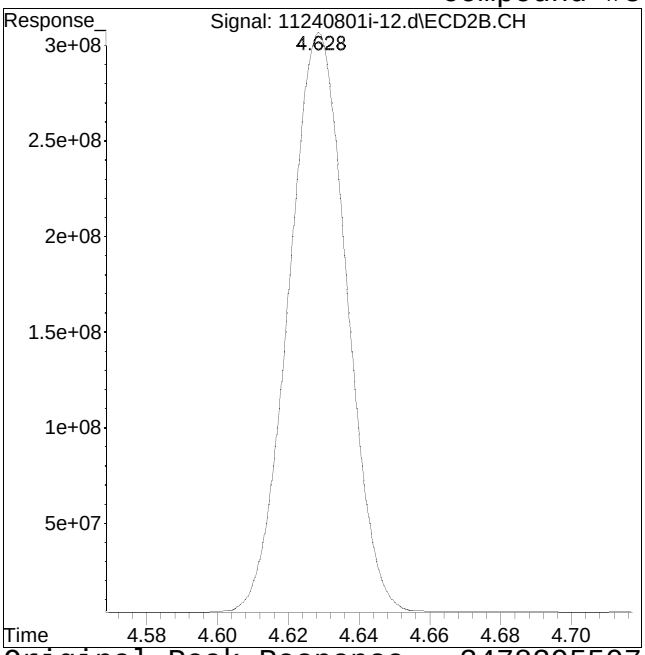
Original Peak Response = 3950756480 Manual Peak Response = 3938049446 M4
M4 = Poor automated baseline construction.

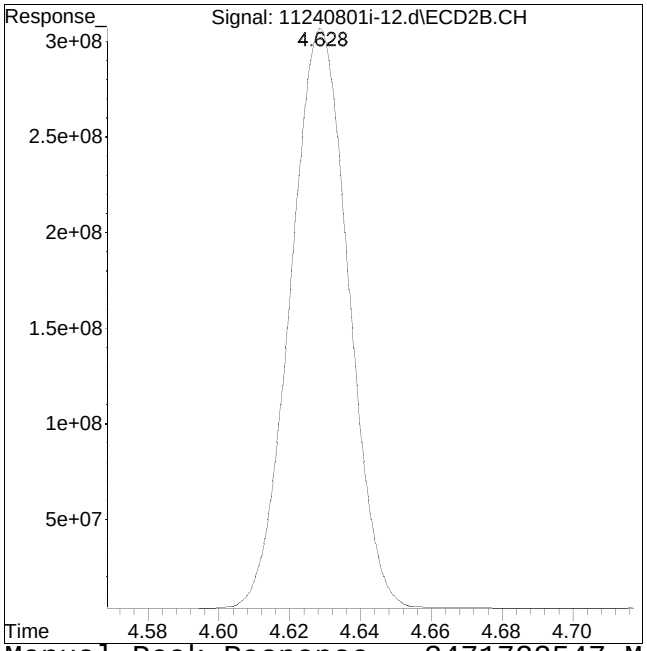
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #55: Dieldrin #2



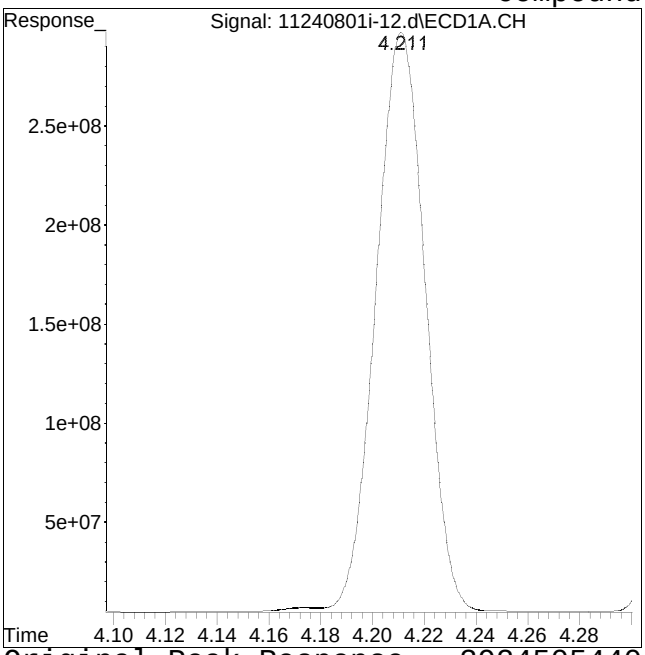


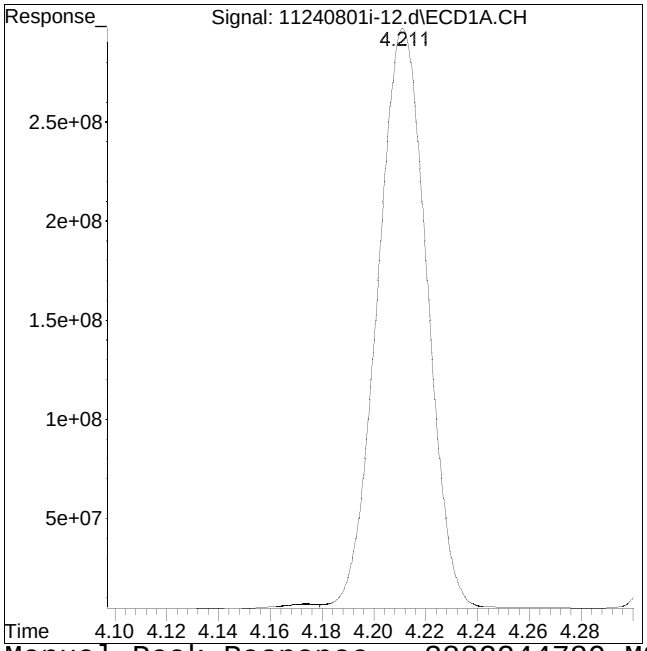
Original Peak Response = 3478395507 Manual Peak Response = 3471722547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #18: Endrin





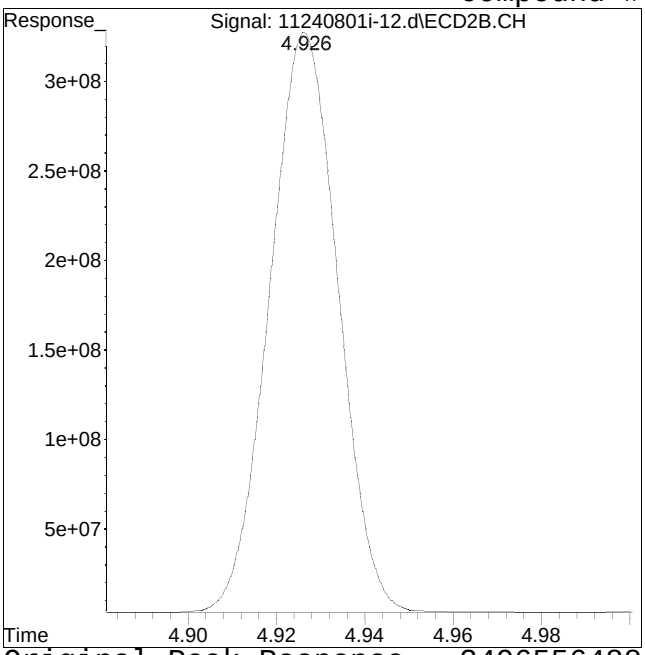
Original Peak Response = 3924505440 Manual Peak Response = 3882244789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

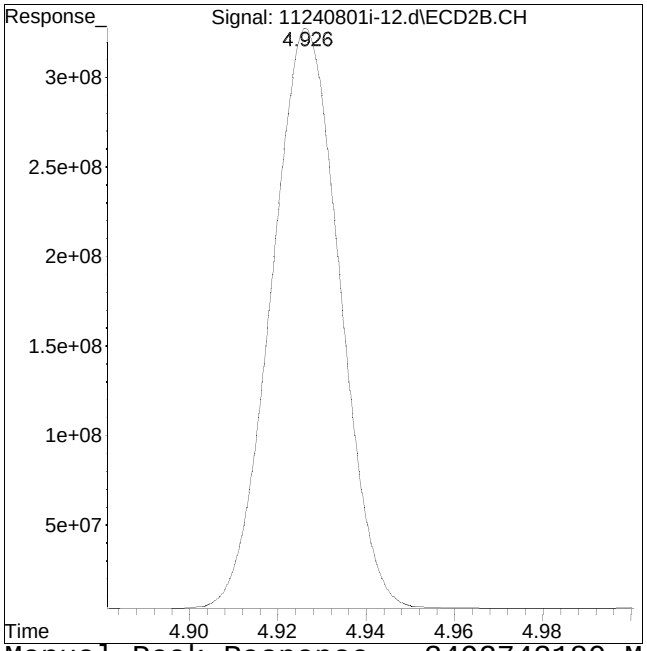
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #56: Endrin #2



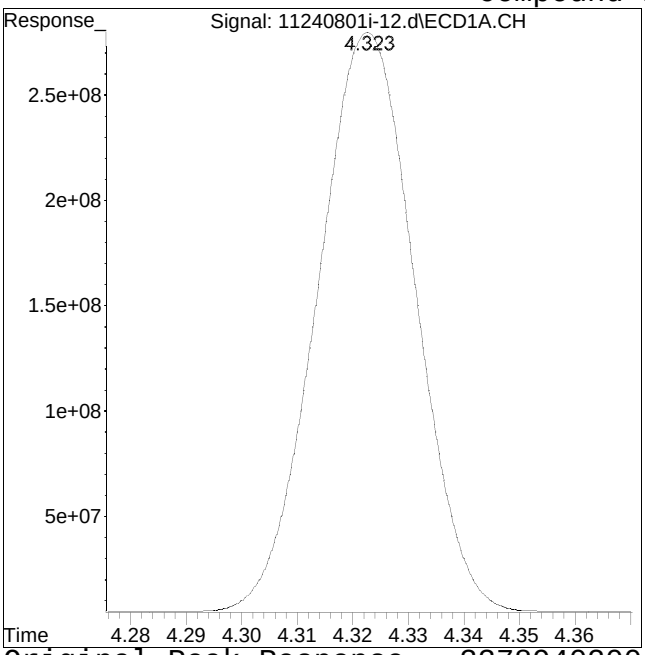


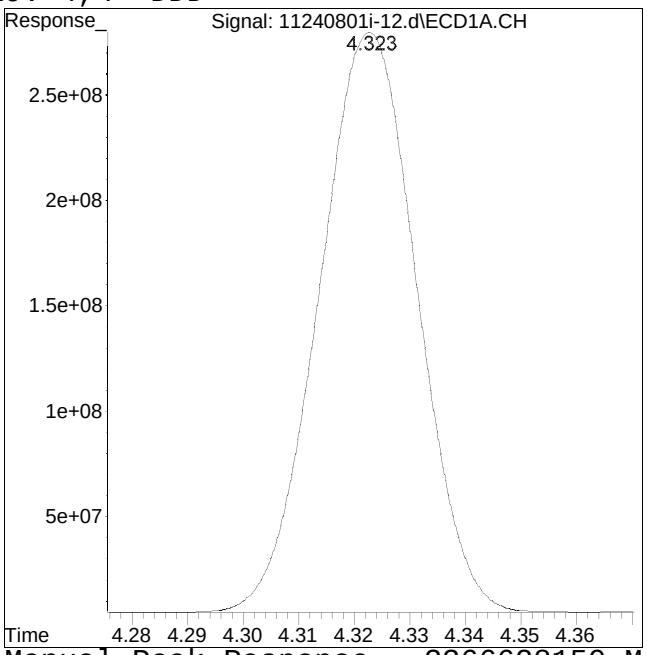
Original Peak Response = 3496556488 Manual Peak Response = 3492743180 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #19: 4,4'-DDD



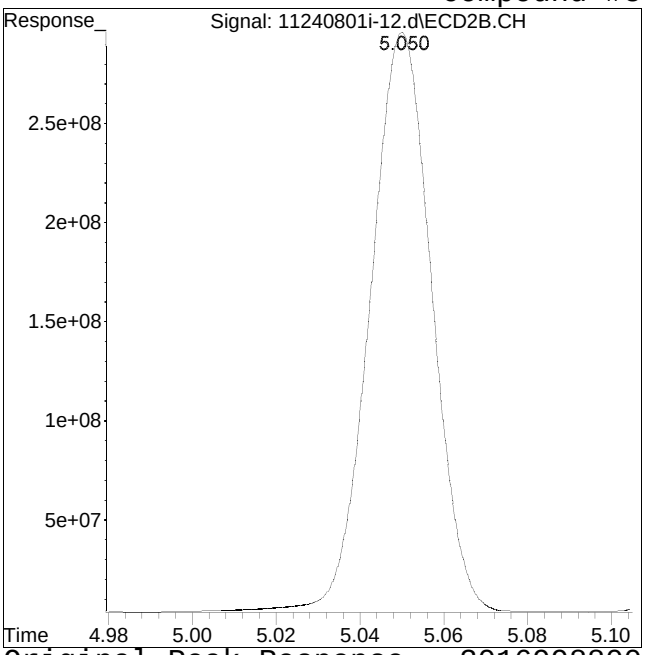


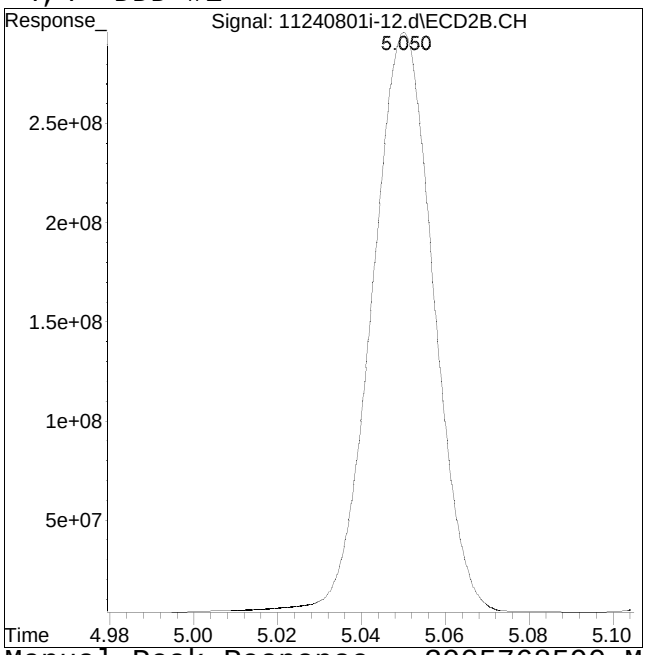
Original Peak Response = 3378940200 Manual Peak Response = 3366628150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #57: 4,4'-DDD #2



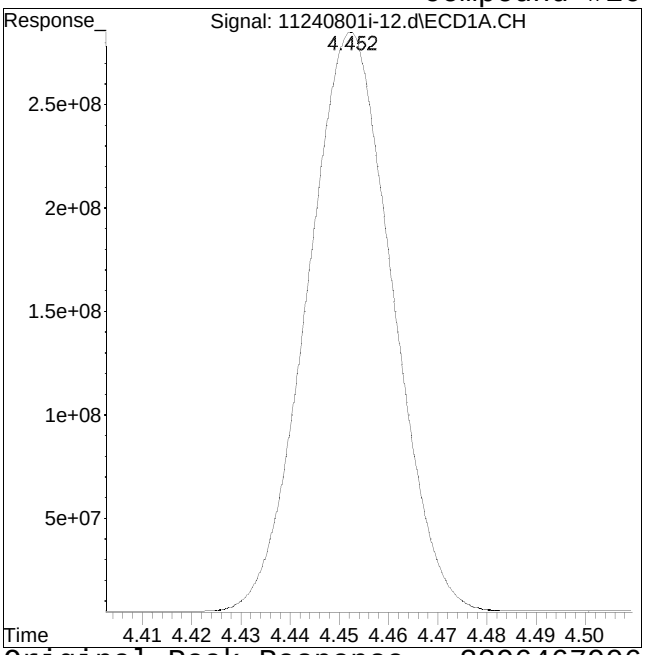


Original Peak Response = 3016998800 Manual Peak Response = 3005768590 M4
M4 = Poor automated baseline construction.

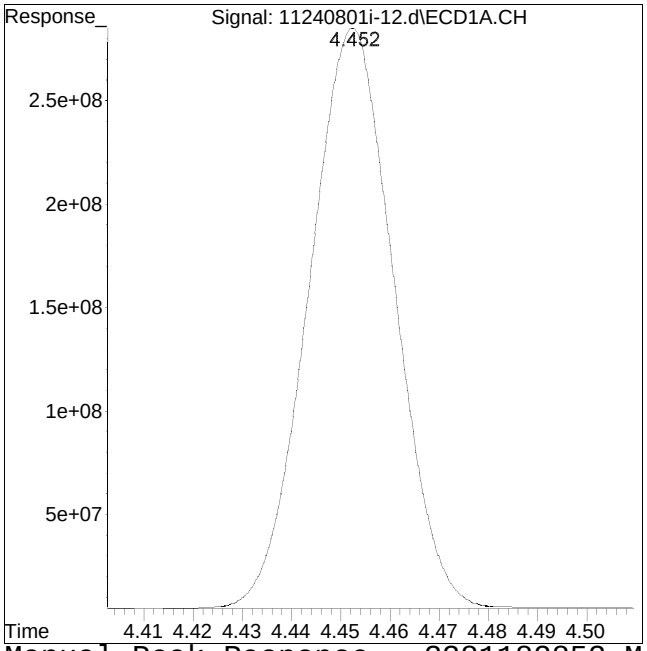
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #20: Endosulfan II



Original Peak Response = 3396467906



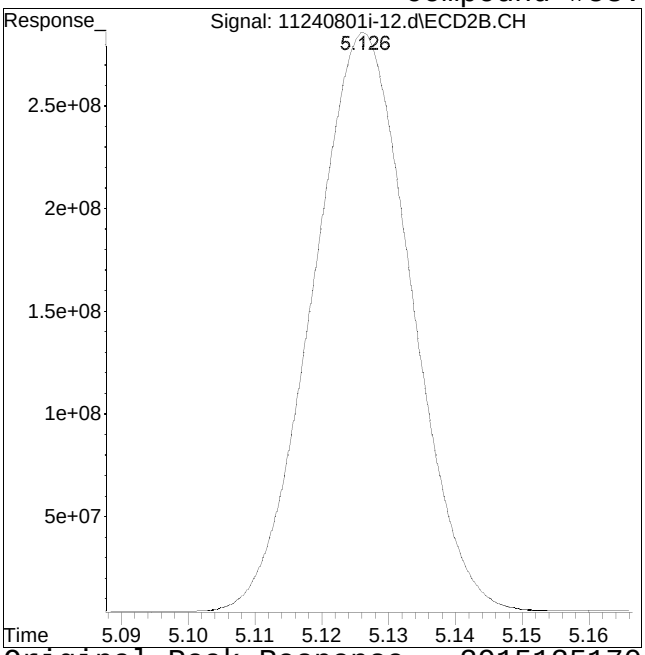
Manual Peak Response = 3381182853 M4

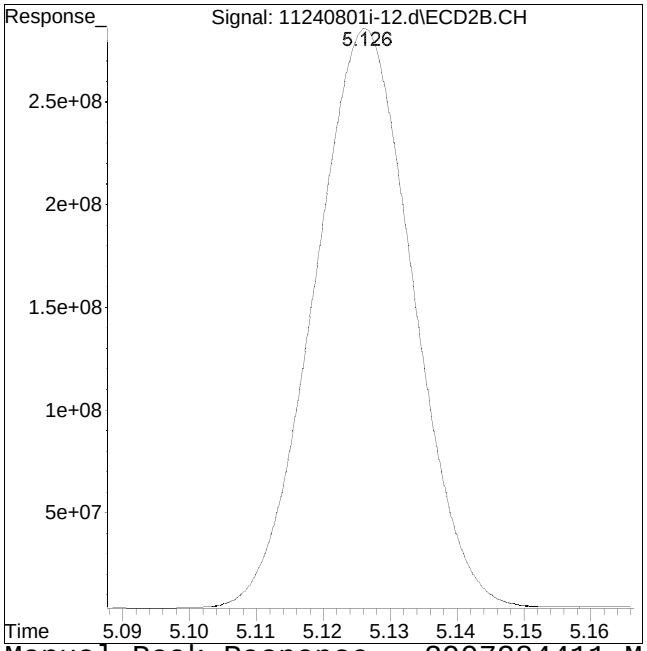
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #58: Endosulfan II #2





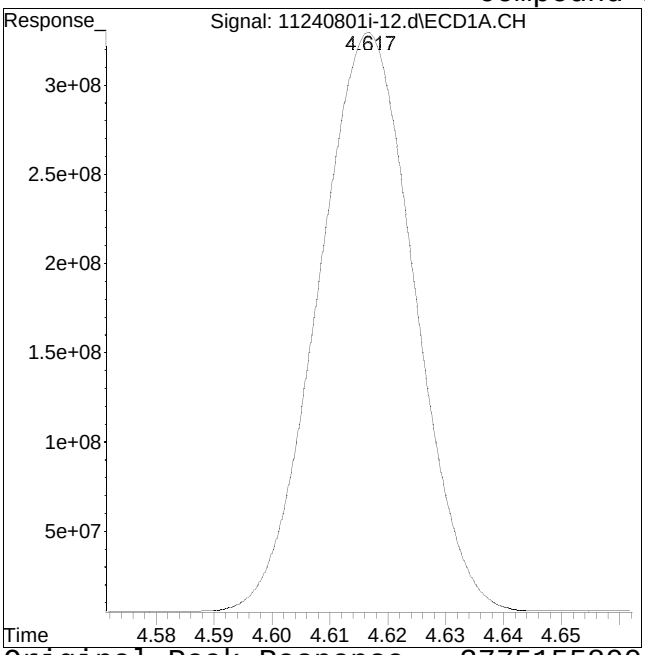
Original Peak Response = 2915125170 Manual Peak Response = 2907284411 M4
M4 = Poor automated baseline construction.

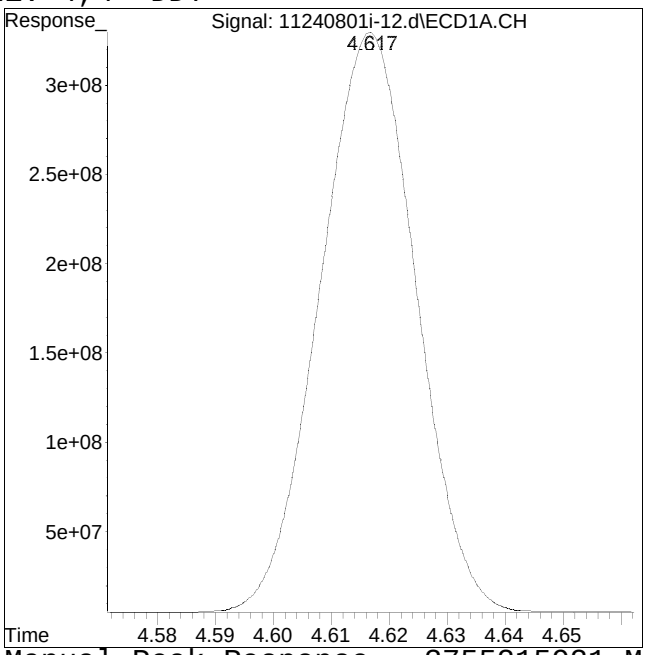
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #21: 4,4'-DDT



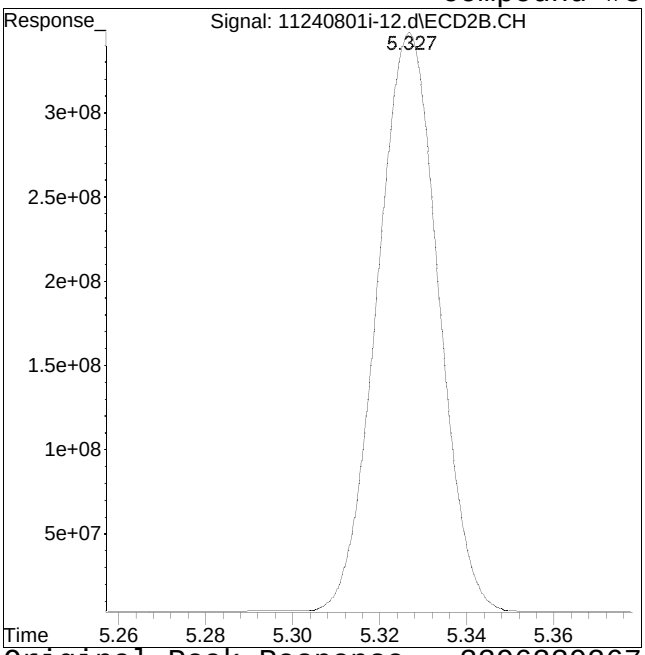


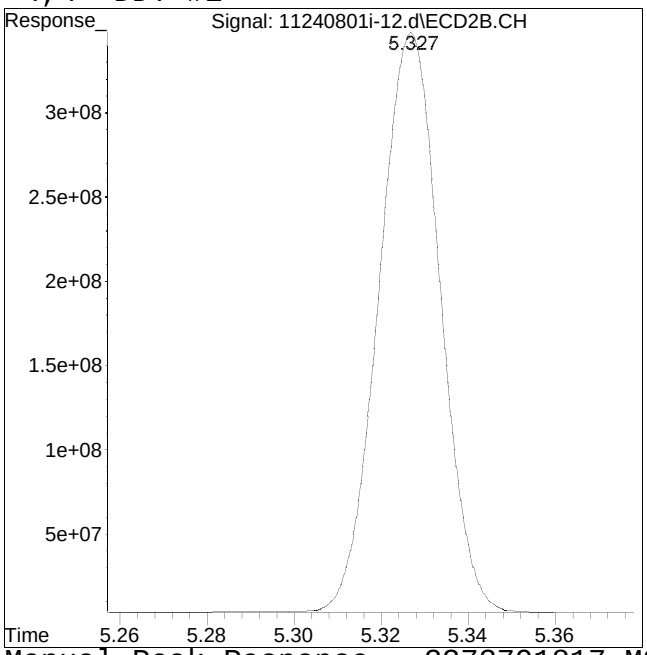
Original Peak Response = 3775155800 Manual Peak Response = 3755215921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #59: 4,4'-DDT #2





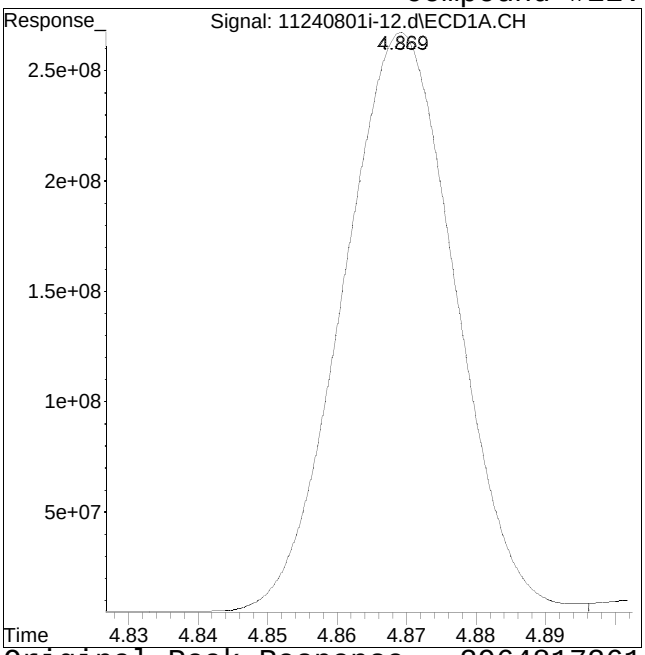
Original Peak Response = 3396339267 Manual Peak Response = 3373791817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

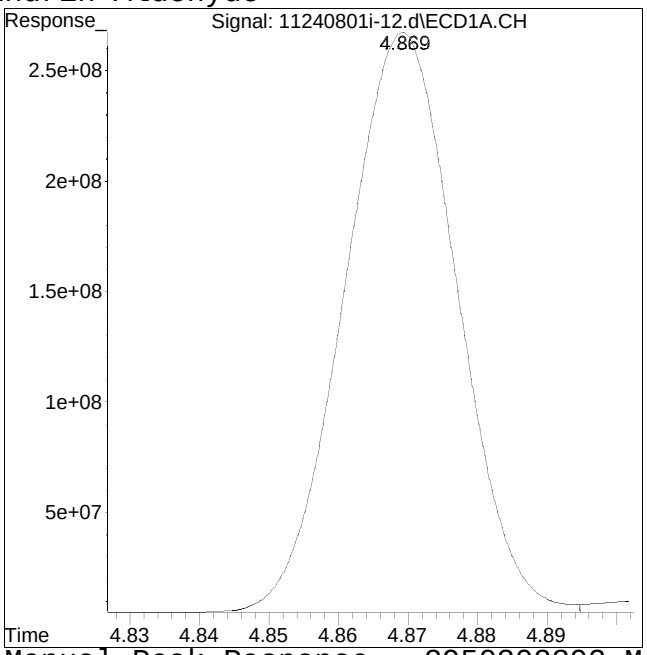
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #22: Endrin Aldehyde





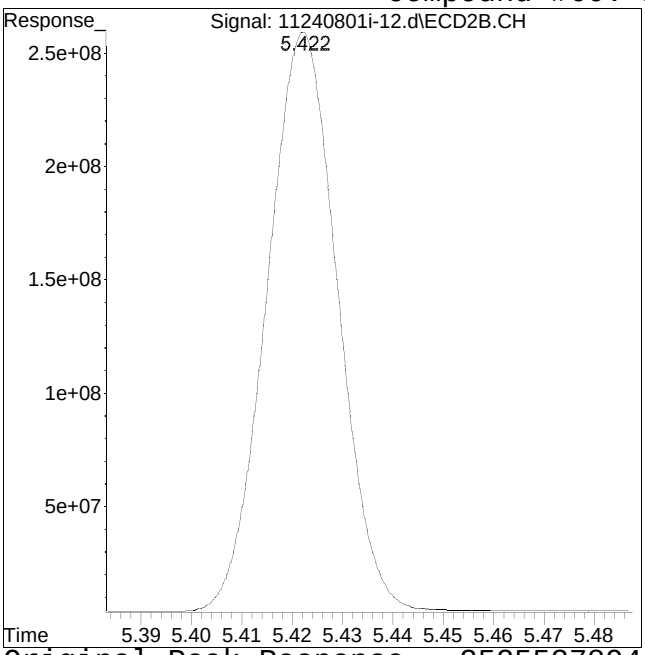
Original Peak Response = 2964817261 Manual Peak Response = 2950302392 M4
M4 = Poor automated baseline construction.

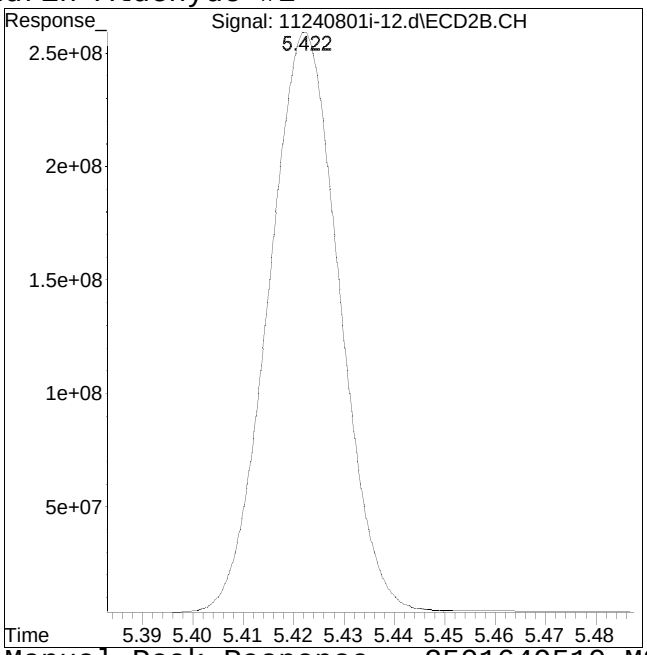
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 2525537894 Manual Peak Response = 2501649510 M3

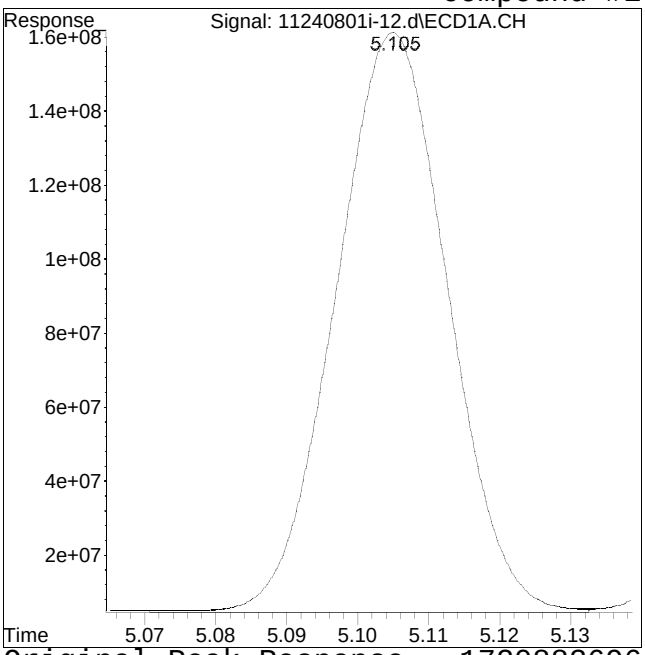
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

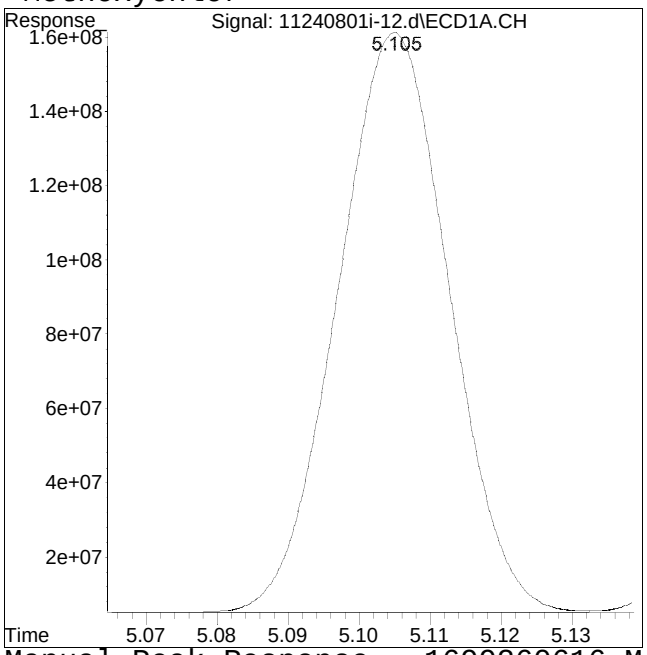
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #23: Methoxychlor



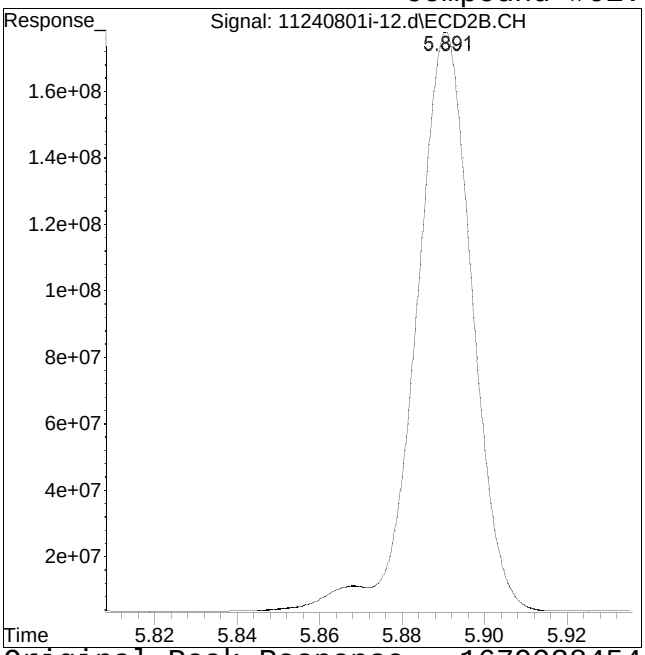


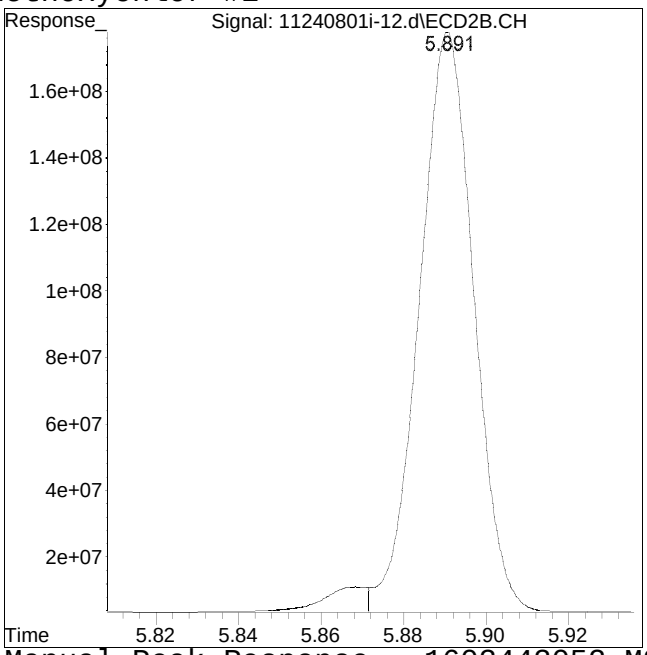
Original Peak Response = 1720883696 Manual Peak Response = 1699260616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #61: Methoxychlor #2



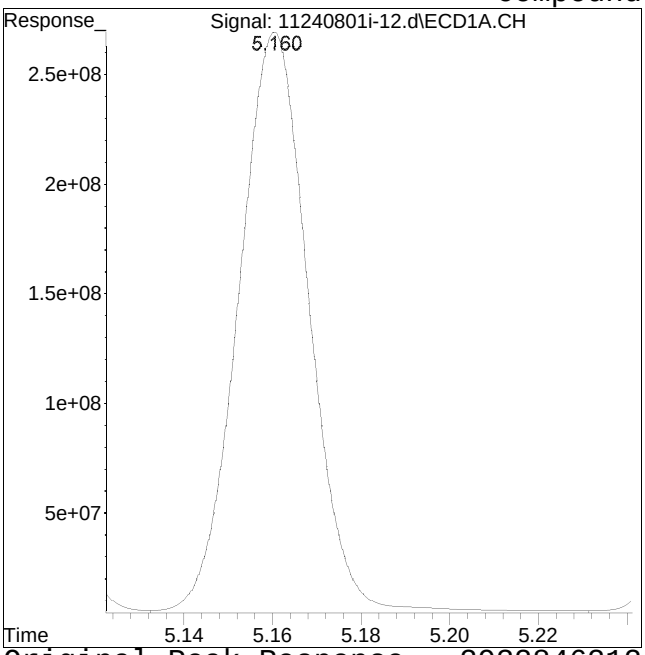


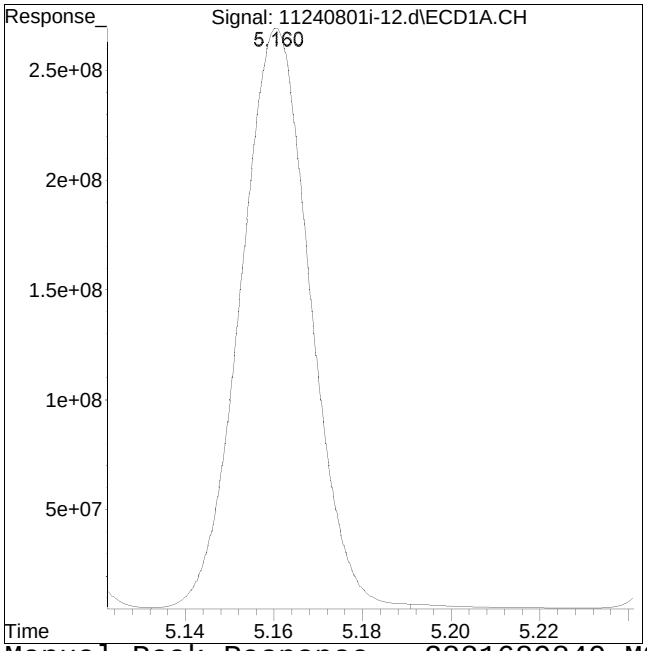
Original Peak Response = 1679938454 Manual Peak Response = 1603443052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #24: Mirex





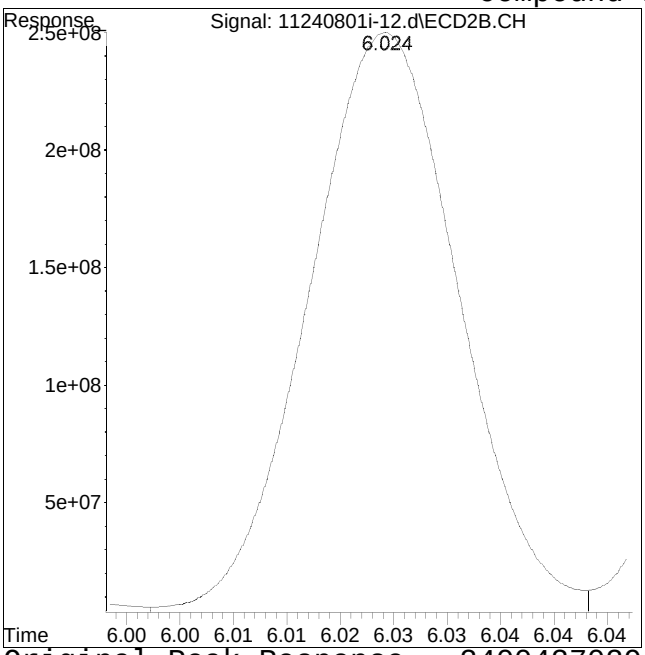
Original Peak Response = 2932846212 Manual Peak Response = 2881689840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

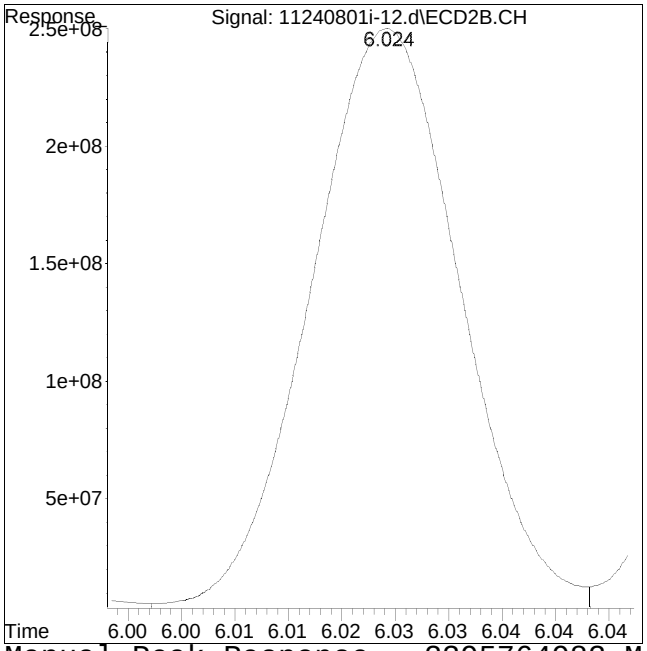
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #62: Mirex #2



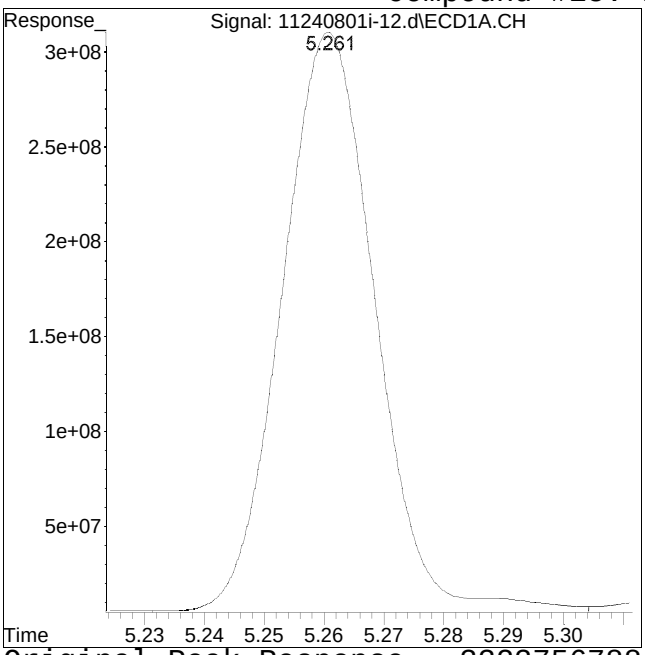


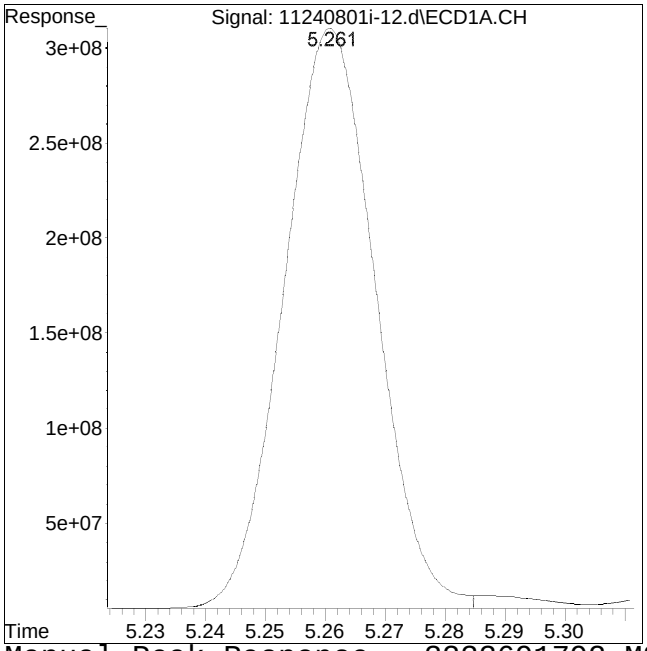
Original Peak Response = 2400427029 Manual Peak Response = 2395764983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #25: Endosulfan Sulfate





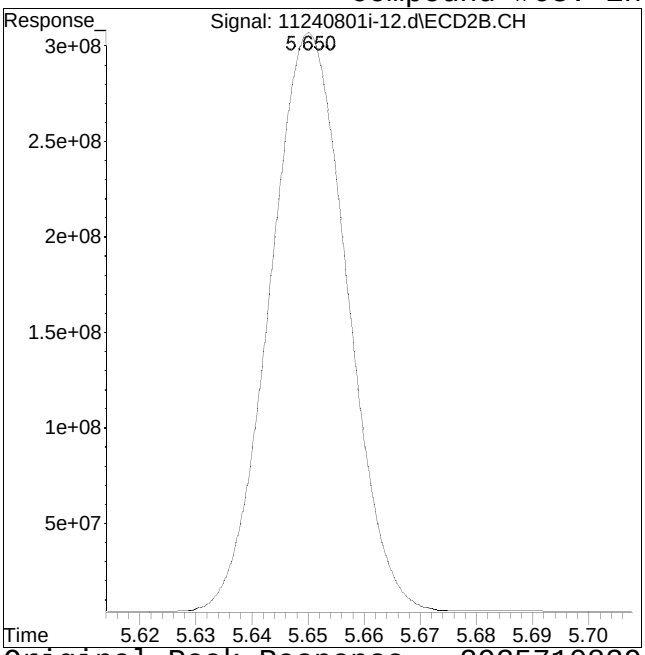
Original Peak Response = 3323756788 Manual Peak Response = 3233691792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

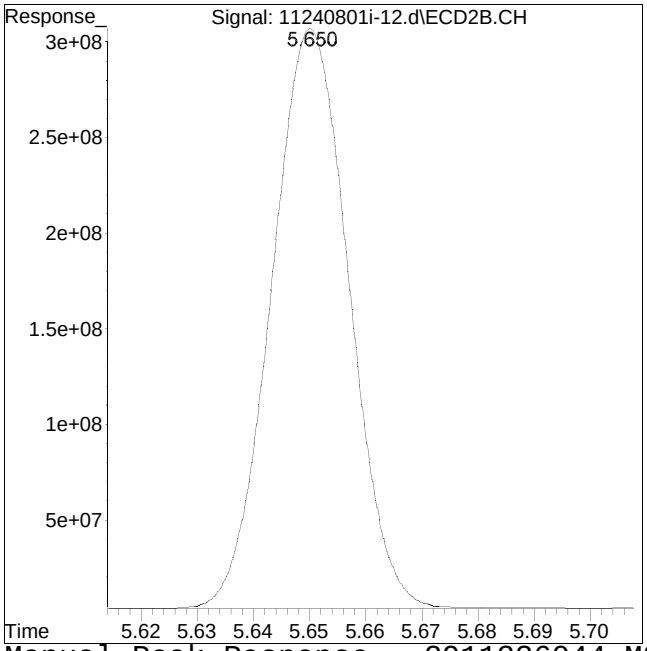
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #63: Endosulfan Sulfate #2



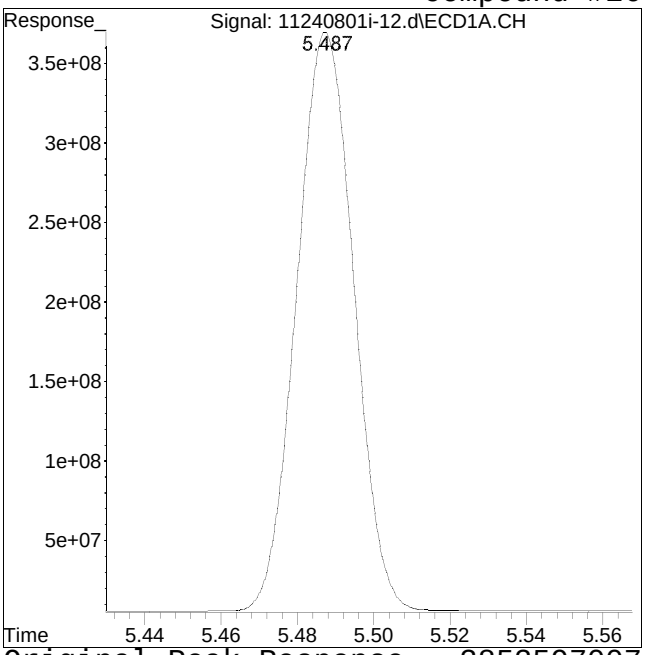


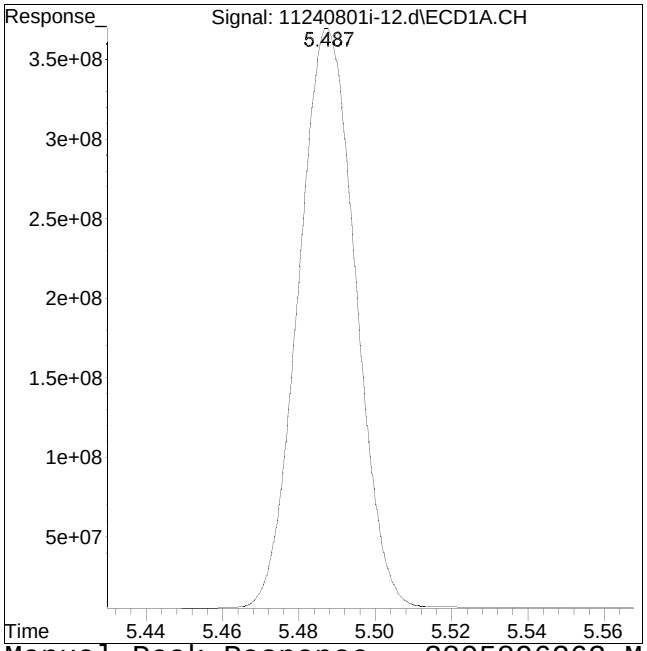
Original Peak Response = 2935710839 Manual Peak Response = 2911336044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #26: Endrin Ketone



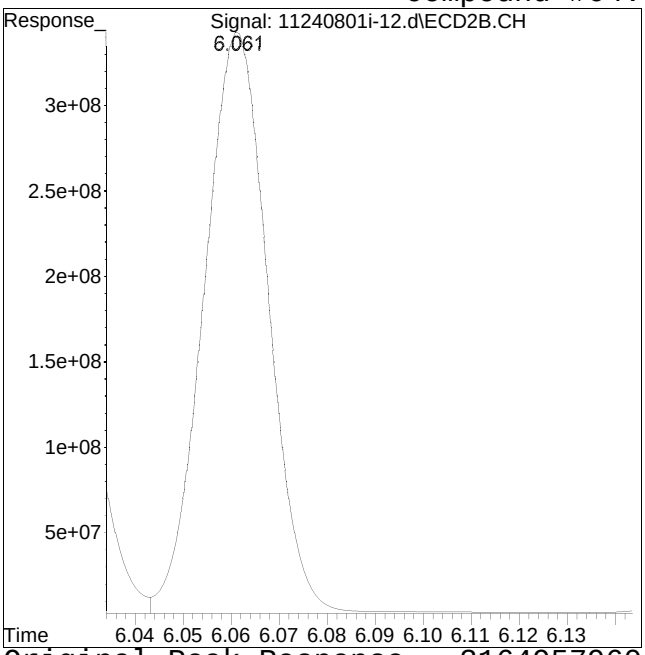


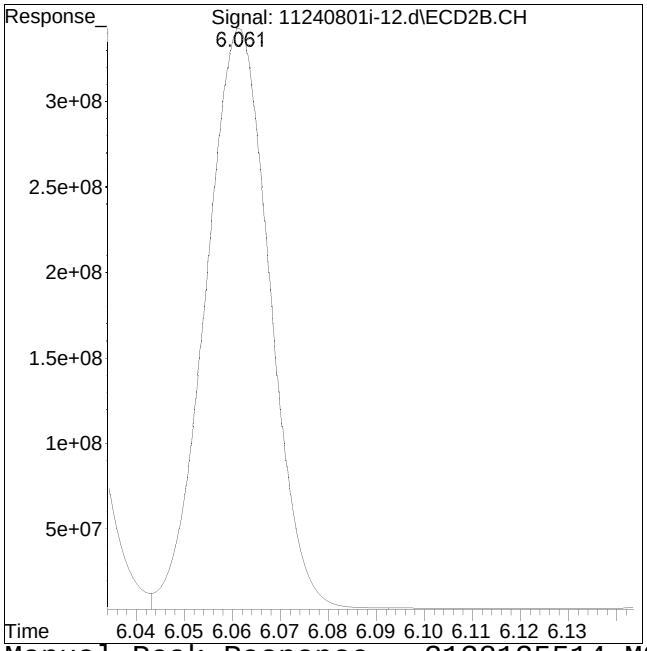
Original Peak Response = 3853597007 Manual Peak Response = 3805896263 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #64: Endrin Ketone #2





Original Peak Response = 3164957960 Manual Peak Response = 3138135514 M3

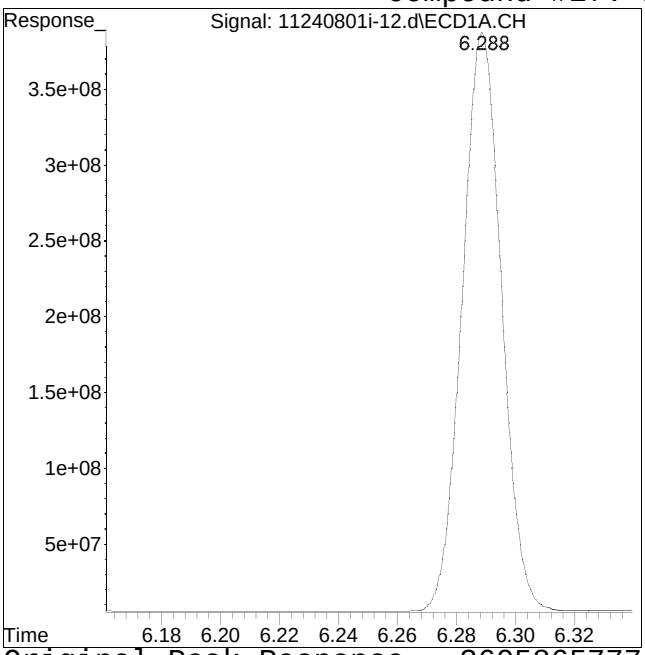
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

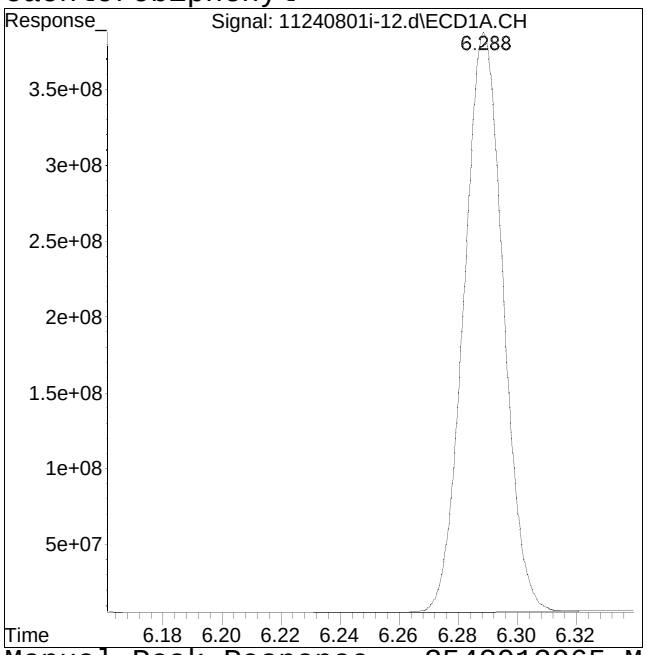
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #27: Decachlorobiphenyl



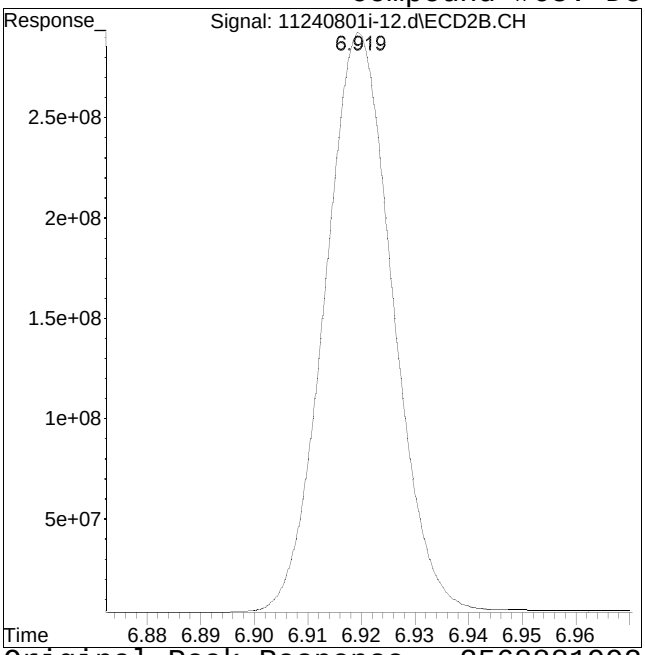


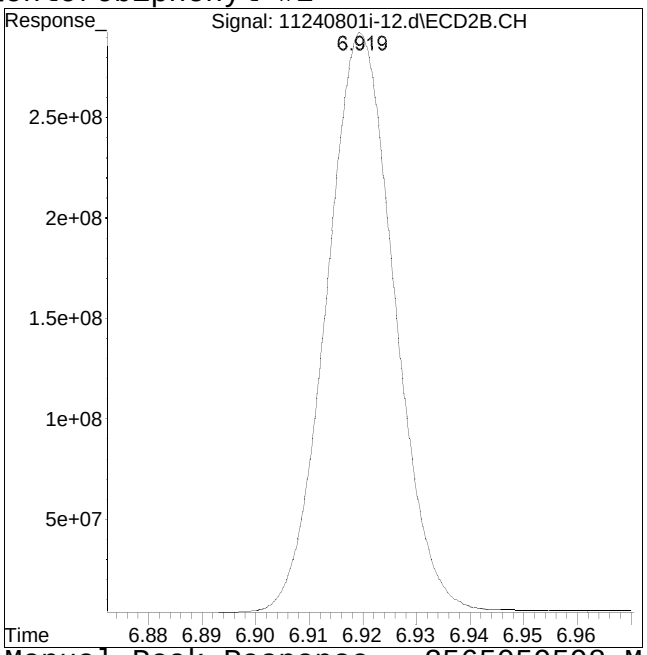
Original Peak Response = 3605865777 Manual Peak Response = 3542012965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 2568881992 Manual Peak Response = 2565059598 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.028	1.1	93	0.00
3	t	Hexachlorobenzene		1.406	1.322	6.0	93	0.00
4	t	alpha-BHC		1.461	1.501	-2.7	90	0.00
5	t	gamma-BHC (lindane)		1.395	1.357	2.7	88	0.00
6	t	beta-BHC		0.628	0.580	7.6	90	0.00
7	t	delta-BHC		1.374	1.334	2.9	85	0.00
8	t	Heptachlor		1.321	1.281	3.0	89	0.00
9	t	Aldrin		1.233	1.226	0.6	90	0.00
10	t	Alachlor		0.230	0.221	3.9	92	0.00
11	t	Chlorpyrifos		0.590	0.520	11.9	91	0.00
12	t	Heptachlor Epoxide		1.185	1.133	4.4	89	0.00
13	t	gamma-Chlordane (trans)		1.077	1.158	-7.5	101	0.00
14	t	alpha-Chlordane (cis)		1.216	1.146	5.8	88	0.00
15	t	4,4'-DDE		1.192	1.168	2.0	90	0.00
16	t	Endosulfan I		1.116	1.064	4.7	89	0.00
17	t	Dieldrin		1.135	1.204	-6.1	97	0.00
18	t	Endrin		1.153	1.120	2.9	88	0.00
19	t	4,4'-DDD		0.927	0.970	-4.6	96	0.00
20	t	Endosulfan II		1.052	1.055	-0.3	93	0.00
21	t	4,4'-DDT		1.058	1.044	1.3	91	0.00
22	t	Endrin Aldehyde		0.886	0.798	9.9	86	0.00
23	t	Methoxychlor		0.592	0.578	2.4	96	0.00
24	t	Mirex		0.938	0.888	5.3	95	0.00
25	t	Endosulfan Sulfate		1.010	0.981	2.9	93	0.00
26	t	Endrin Ketone		1.183	1.257	-6.3	99	0.00
27	s	Decachlorobiphenyl		1.163	1.085	6.7	99	0.00

Signal #2

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF   : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.042	6.5	91	0.00
3	t	Hexachlorobenzene		1.239	1.113	10.2	92	0.00
4	t	alpha-BHC		1.620	1.576	2.7	88	0.00
5	t	gamma-BHC (lindane)		1.539	1.407	8.6	87	0.00
6	t	beta-BHC	*	50.000	47.735	4.5	89	0.00
7	t	delta-BHC		1.523	1.383	9.2	85	0.00
8	t	Heptachlor		1.598	1.441	9.8	88	0.00
9	t	Aldrin		1.435	1.344	6.3	89	0.00
10	t	Alachlor	*	50.000	52.133	-4.3	92	0.00
11	t	Chlorpyrifos	*	50.000	49.655	0.7	89	0.00
12	t	Heptachlor Epoxide		1.425	1.243	12.8	87	0.00
13	t	gamma-Chlordane (trans)		1.312	1.296	1.2	100	0.00
14	t	alpha-Chlordane (cis)		1.446	1.265	12.5	88	0.00
15	t	4,4'-DDE		1.343	1.252	6.8	88	0.00
16	t	Endosulfan I		1.332	1.167	12.4	88	0.00
17	t	Dieldrin		1.327	1.319	0.6	96	0.00
18	t	Endrin		1.347	1.231	8.6	88	0.00
19	t	4,4'-DDD		1.084	1.070	1.3	94	0.00
20	t	Endosulfan II		1.214	1.119	7.8	92	0.00
21	t	4,4'-DDT		1.250	1.163	7.0	90	0.00
22	t	Endrin Aldehyde	*	50.000	45.377	9.2	85	0.00
23	t	Methoxychlor		0.704	0.626	11.1	94	0.00
24	t	Mirex	*	50.000	50.644	-1.3	94	0.00
25	t	Endosulfan Sulfate		1.199	1.078	10.1	92	0.00
26	t	Endrin Ketone		1.261	1.242	1.5	98	0.00
27	s	Decachlorobiphenyl		1.060	0.941	11.2	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1	*	0.037	0.000	100.0#	0#	-2.45#
30	l1	chlordane-3	*	0.047	0.000	100.0#	0#	-2.87#
31	l1	chlordane-4	*	0.159	0.000	100.0#	0#	-3.42#
32	l1	chlordane-5	*	0.245	0.000	100.0#	0#	-3.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	0.043	0.000	100.0#	0#	-2.82#
30	l1	chlordane-3	*	0.052	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4	*	0.173	0.000	100.0#	0#	-4.10#
32	l1	chlordane-5	*	0.134	0.000	100.0#	0#	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	222.3E6	177.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	456.9E6	370.0E6	49.453M3	46.772M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.91%	93.54%
27) s	Decachlorobi	6.288	6.918	482.5E6	334.3E6	46.657M3	44.401M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.31%	88.80%
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	587.8E6	395.1E6	47.014M3	44.899M3
4) t	alpha-BHC	1.963	2.271	667.2E6	559.8E6	51.377M4	48.662M4
5) t	gamma-BHC (l	2.165	2.557	603.3E6	499.8E6	48.621M4	45.722M4
6) t	beta-BHC	2.221	2.623	257.8E6	214.1E6	46.189M4	47.735M3
7) t	delta-BHC	2.349	2.890	593.1E6	491.2E6	48.542M4	45.411
8) t	Heptachlor	2.513	2.953	569.5E6	511.7E6	48.485M4	45.092
9) t	Aldrin	2.756	3.272	545.1E6	477.4E6	49.714M3	46.842
10) t	Alachlor	2.876	3.153	98339329	67754072	48.033M4	52.133M4
11) t	Chlorpyrifos	2.968	3.506	231.0E6	247.0E6	44.053M3	49.655M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	503.7E6	441.6E6	47.784M3	43.617M3
13)	t	gamma-Chlord	3.425	4.105	514.8E6	460.2E6	53.753M4	49.404M4
14)	t	alpha-Chlord	3.559	4.274	509.4E6	449.4E6	47.103M4	43.758
15)	t	4,4'-DDE	3.656	4.473	519.3E6	444.5E6	49.014M4	46.608M4
16)	t	Endosulfan I	3.695	4.336	473.1E6	414.6E6	47.669M3	43.821M4
17)	t	Dieldrin	3.954	4.627	535.4E6	468.3E6	53.047M4	49.677M3
18)	t	Endrin	4.210	4.926	497.7E6	437.0E6	48.558	45.687
19)	t	4,4'-DDD	4.322	5.049	431.2E6	379.8E6	52.297	49.344M4
20)	t	Endosulfan I	4.451	5.125	468.9E6	397.6E6	50.128	46.124M4
21)	t	4,4'-DDT	4.616	5.326	464.0E6	412.9E6	49.301	46.497M4
22)	t	Endrin Aldeh	4.868	5.421	355.0E6	301.1E6	45.037M4	45.377M3
23)	t	Methoxychlor	5.104	5.890	256.9E6	222.3E6	48.807M4	44.431M3
24)	t	Mirex	5.160	6.023	394.7E6	325.6E6	47.337M3	50.644M4
25)	t	Endosulfan S	5.260	5.649	436.2E6	382.7E6	48.586M3	44.940M4
26)	t	Endrin Keton	5.486	6.060	558.9E6	441.2E6	53.123M4	49.265M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

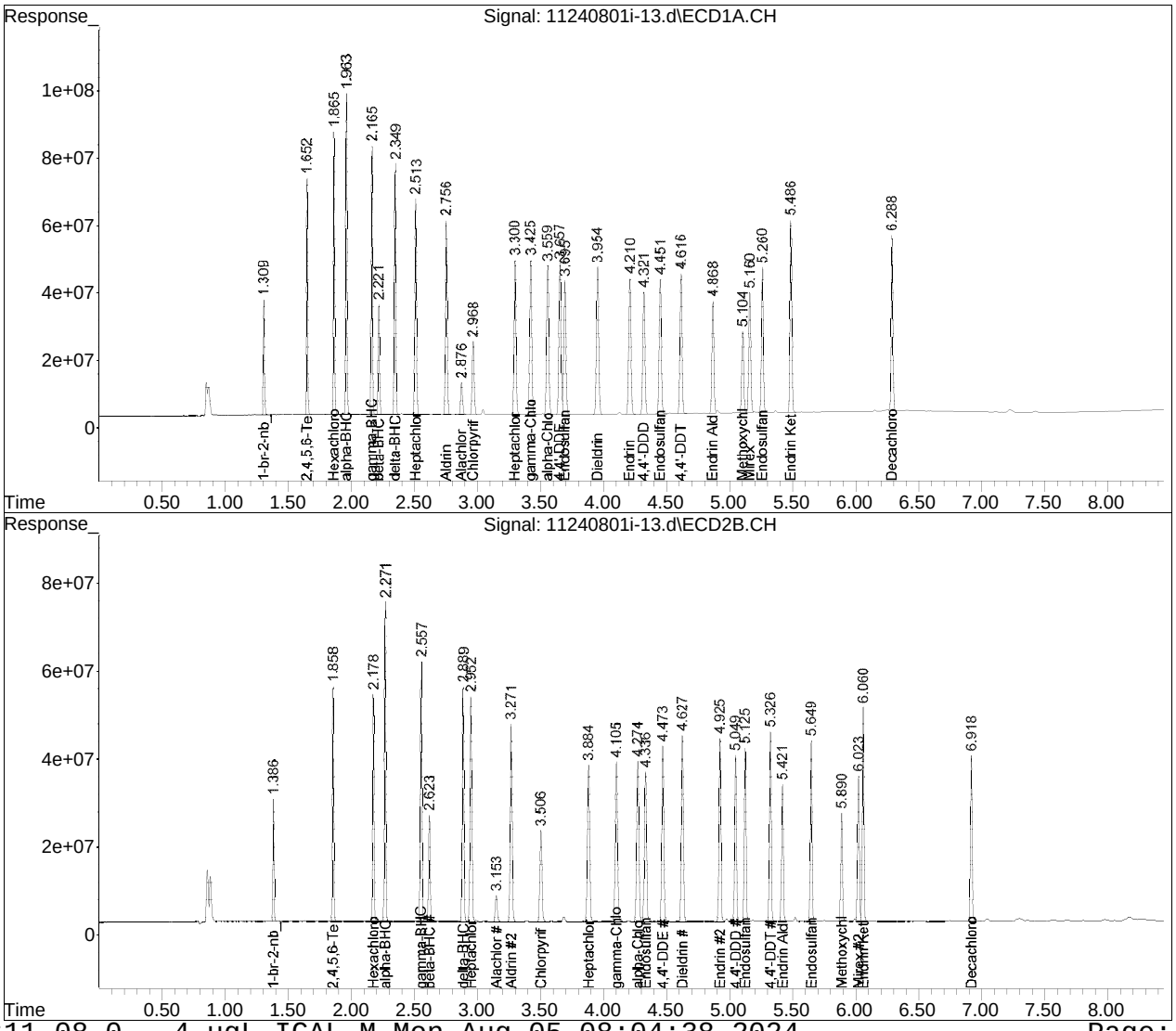
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

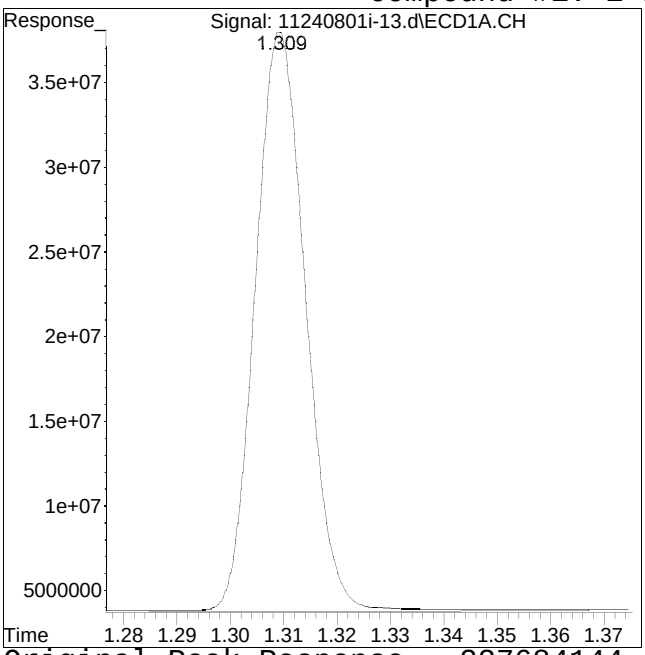


Manual Integration Report

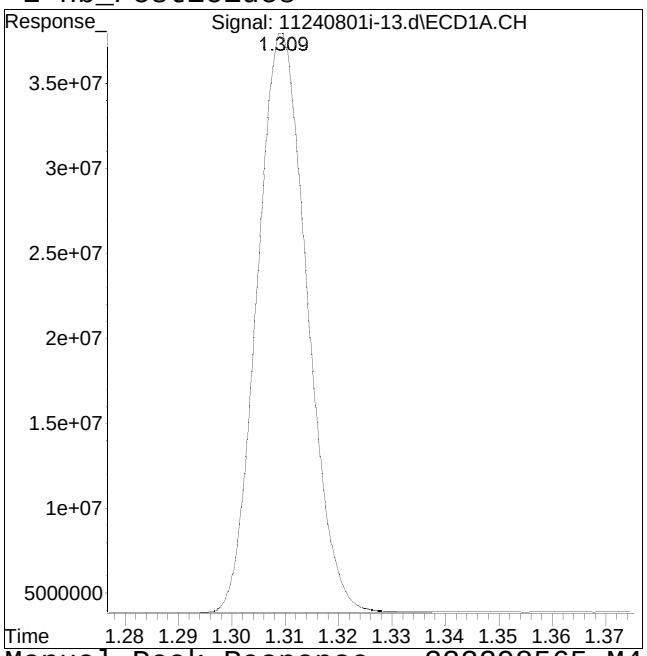
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 227684144



Manual Peak Response = 222298565 M4

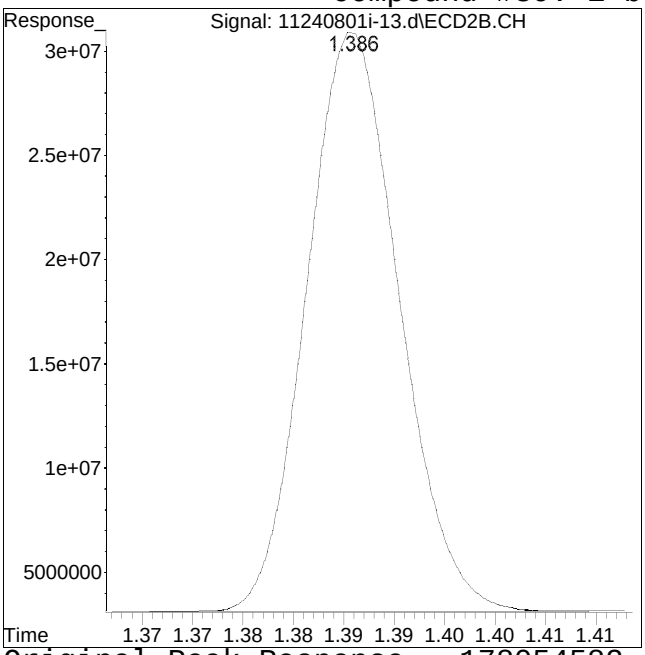
M4 = Poor automated baseline construction.

Manual Integration Report

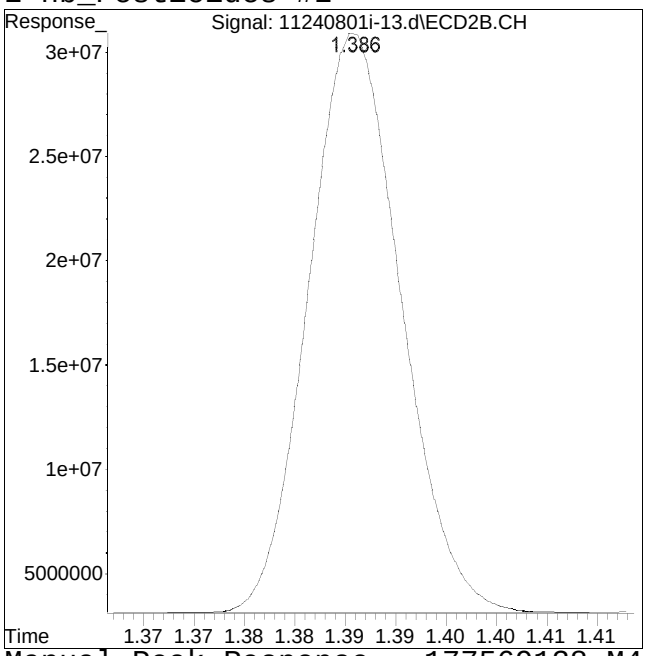
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 178054582



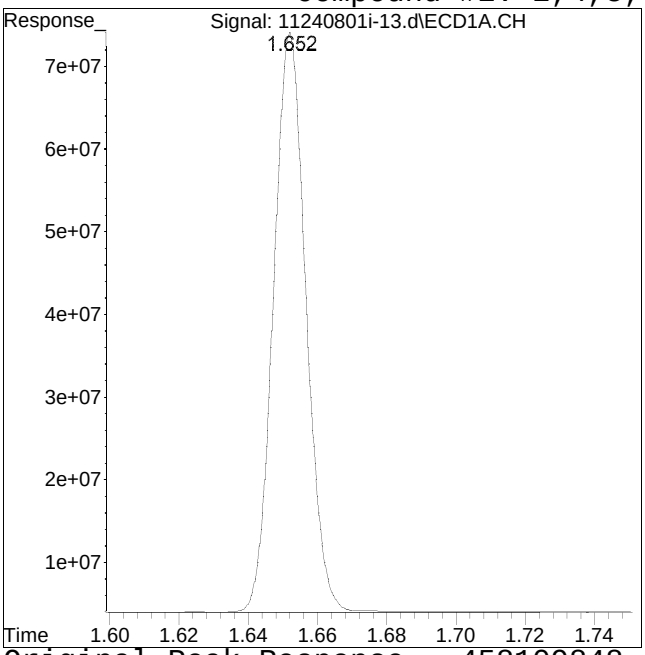
Manual Peak Response = 177569138 M4

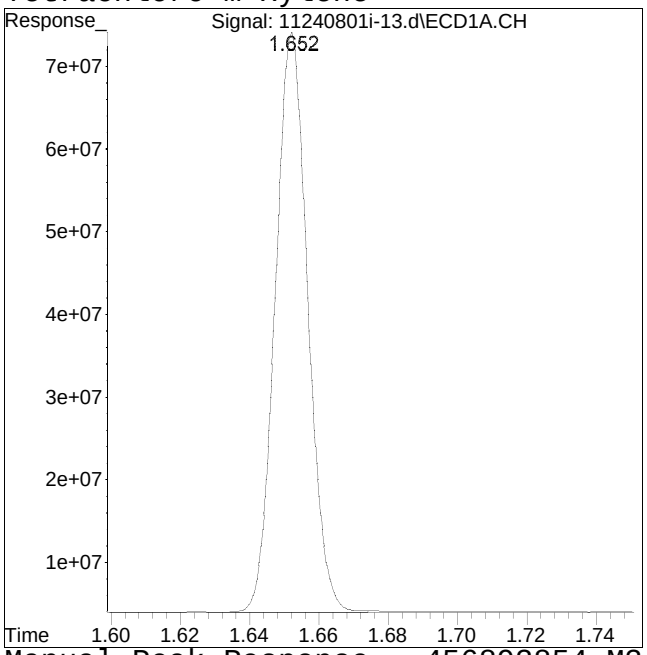
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





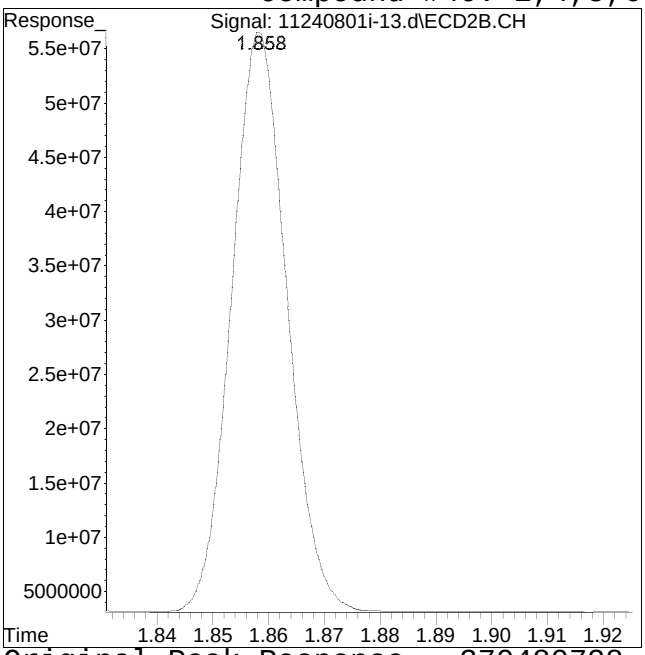
Original Peak Response = 458109848 Manual Peak Response = 456893854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

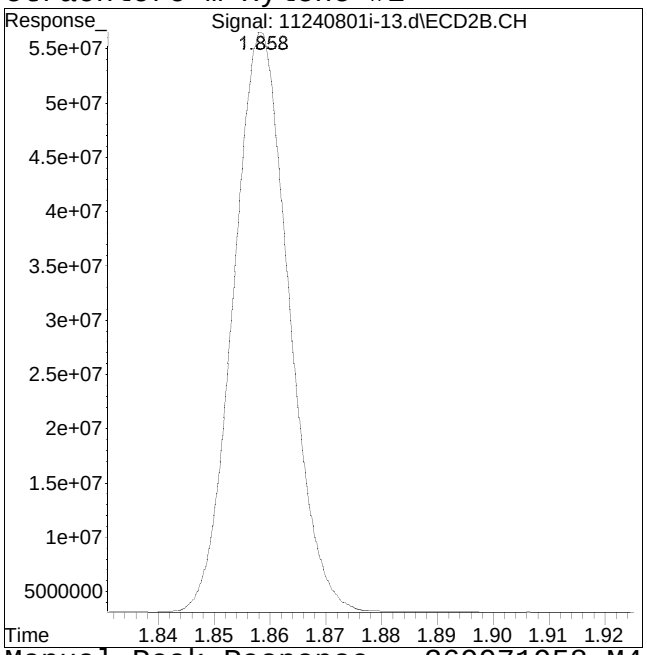
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 370480728



Manual Peak Response = 369971958 M4

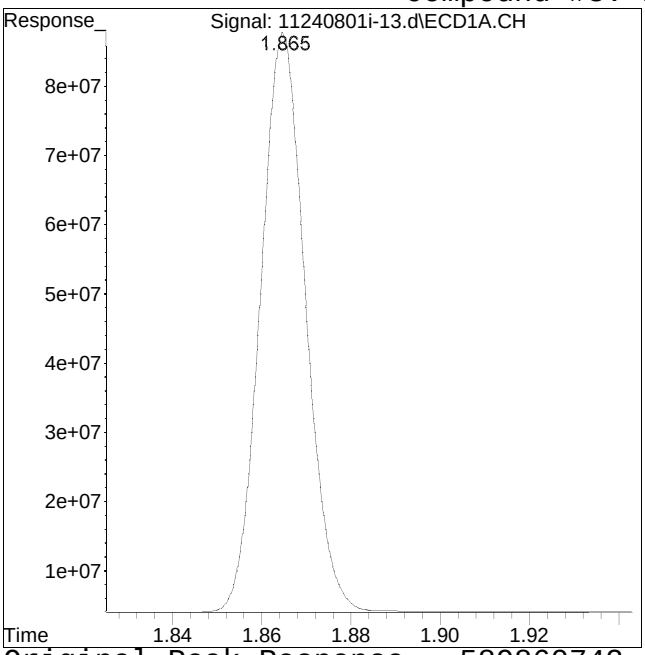
M4 = Poor automated baseline construction.

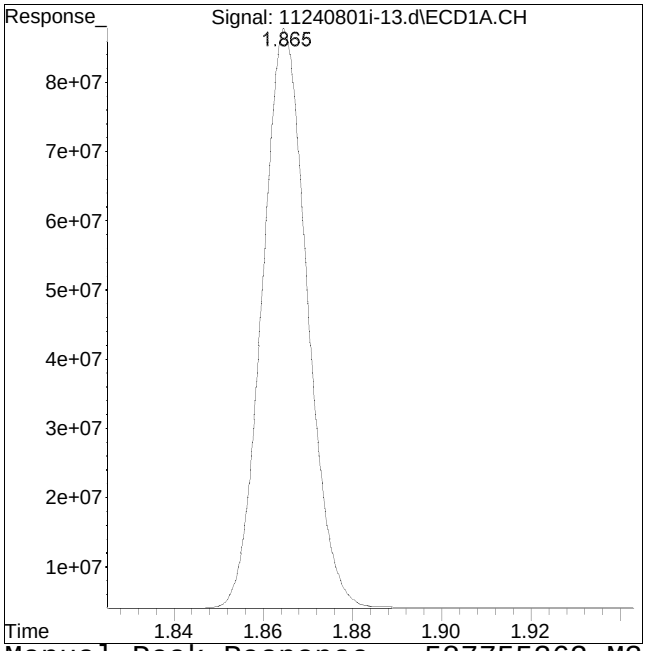
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #3: Hexachlorobenzene





Original Peak Response = 589860742 Manual Peak Response = 587755363 M3

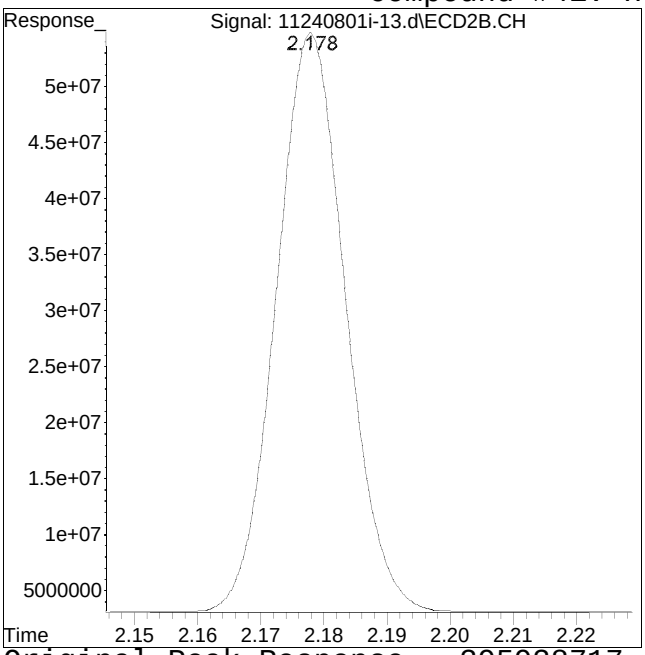
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

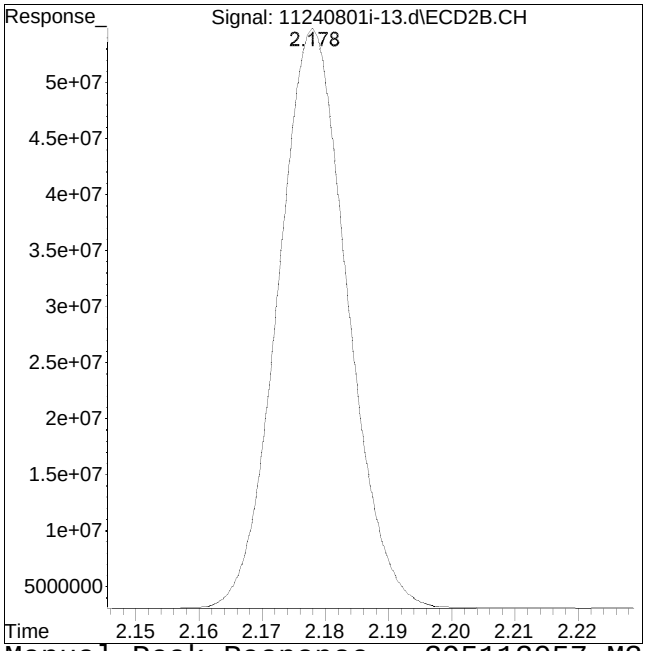
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #41: Hexachlorobenzene #2





Original Peak Response = 395938717 Manual Peak Response = 395113057 M3

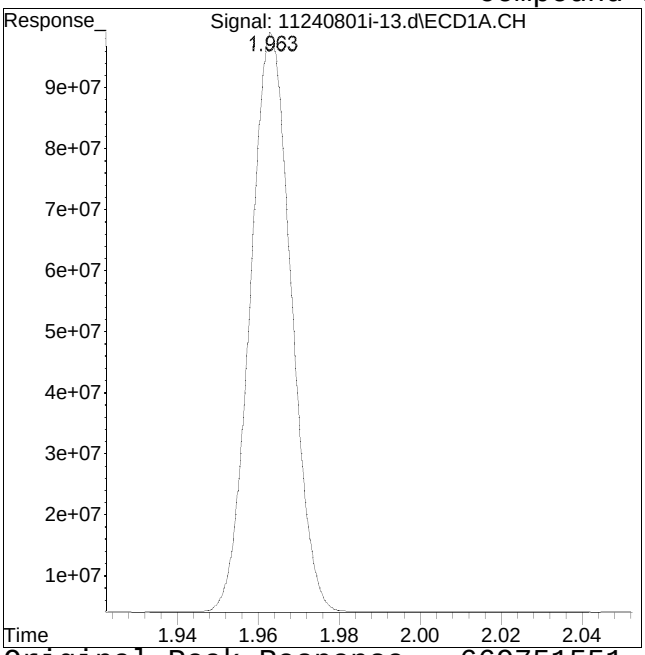
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

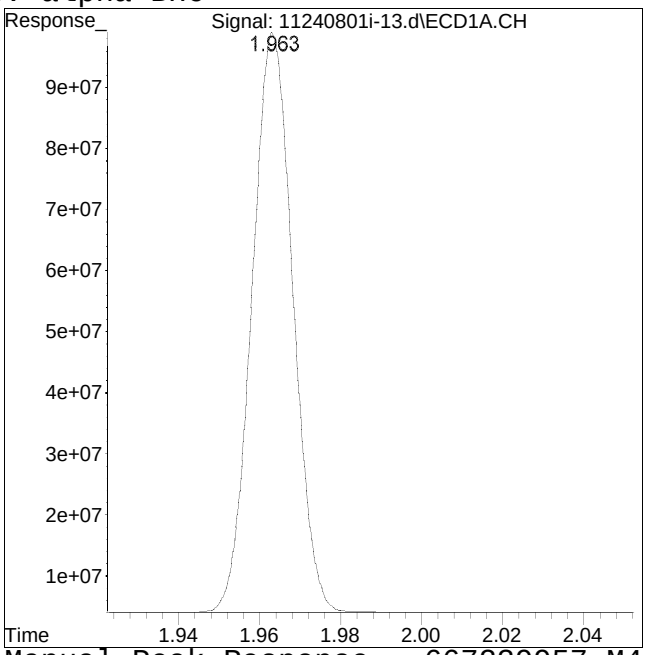
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #4: alpha-BHC



Original Peak Response = 669751551



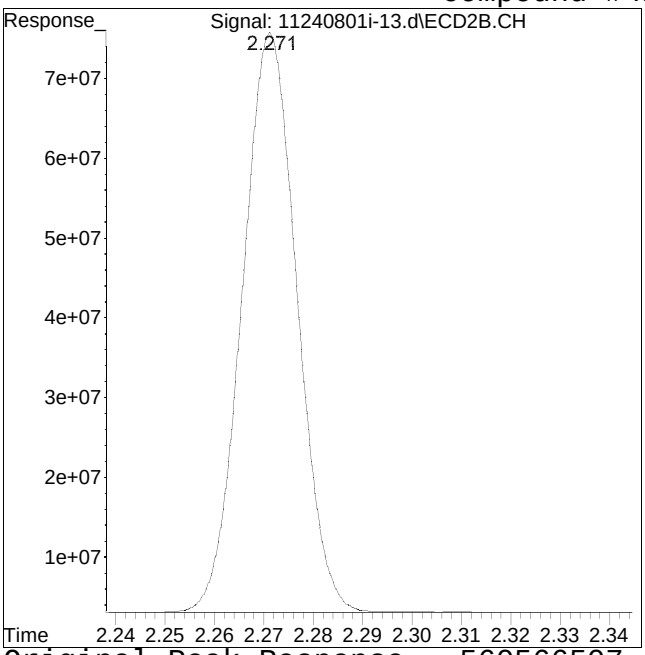
Manual Peak Response = 667239957 M4

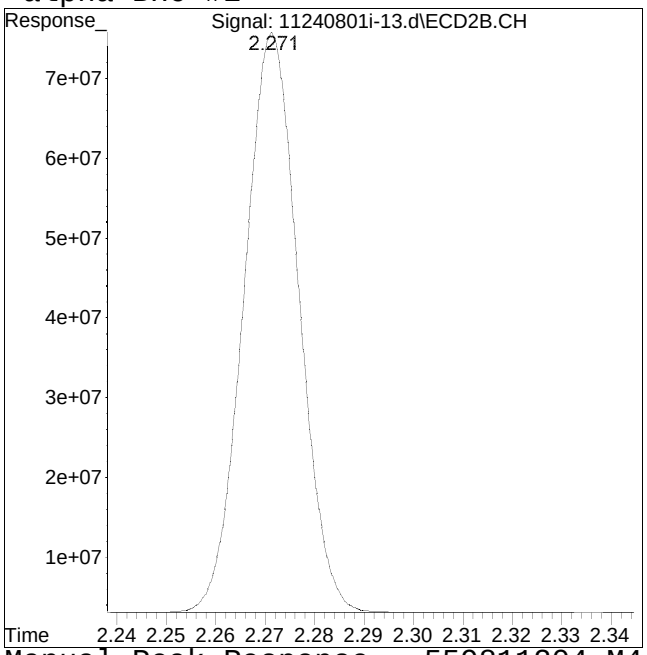
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #42: alpha-BHC #2





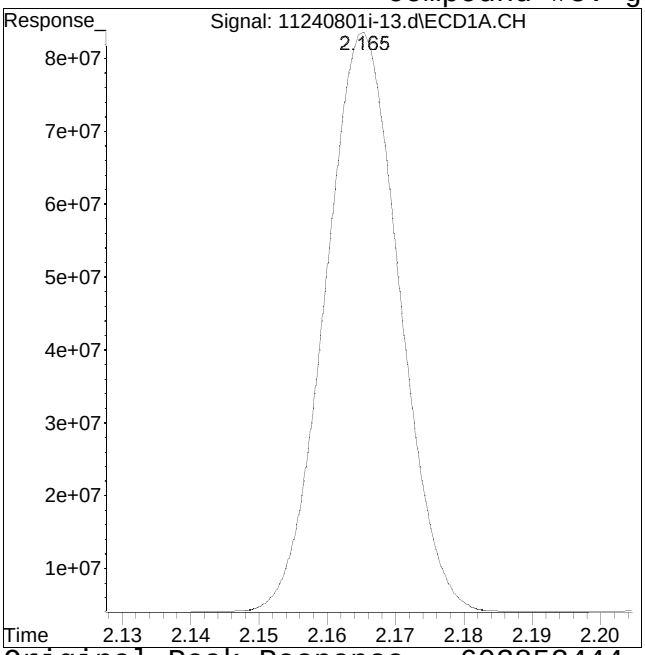
Original Peak Response = 560566507 Manual Peak Response = 559811204 M4
M4 = Poor automated baseline construction.

Manual Integration Report

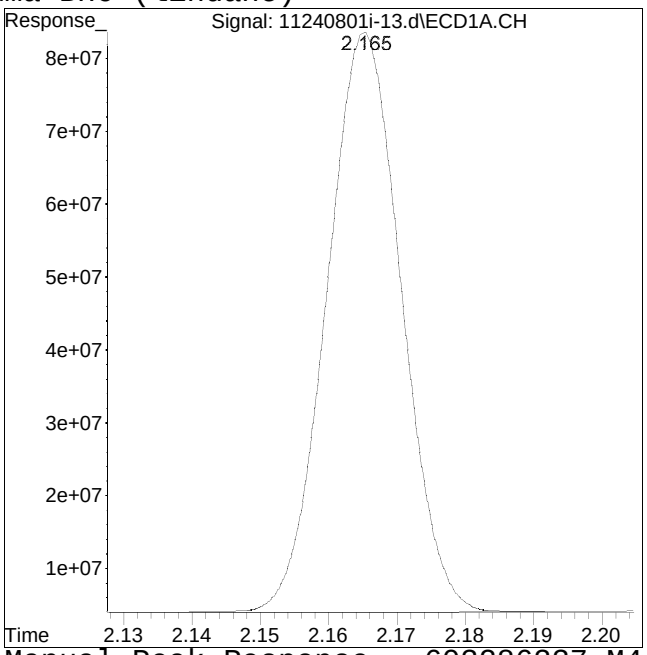
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 603852444



Manual Peak Response = 603286337 M4

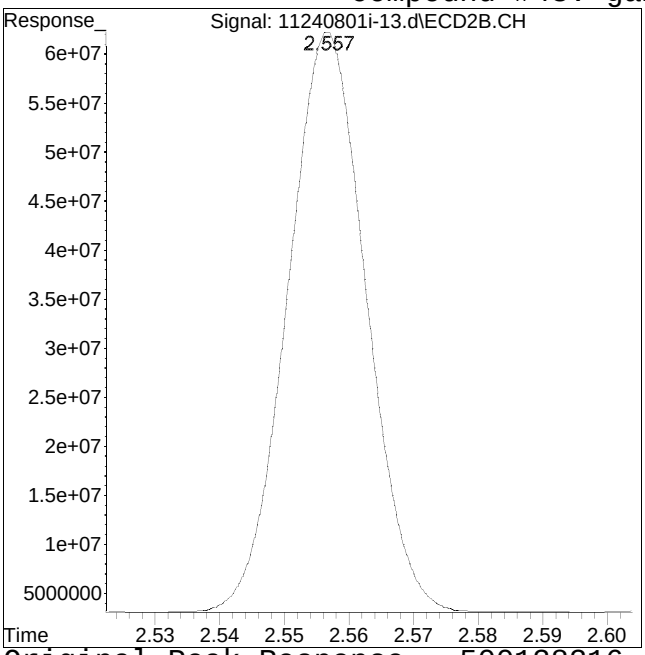
M4 = Poor automated baseline construction.

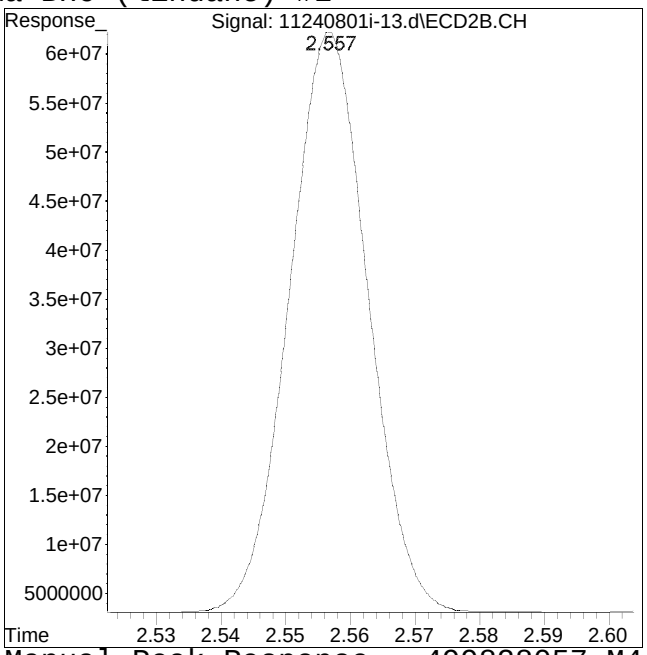
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #43: gamma-BHC (lindane) #2



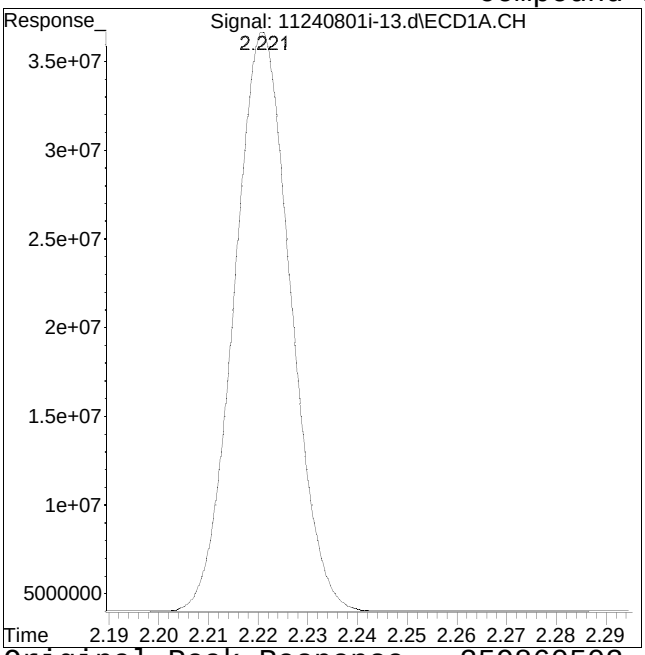


Original Peak Response = 500138316 Manual Peak Response = 499828057 M4
M4 = Poor automated baseline construction.

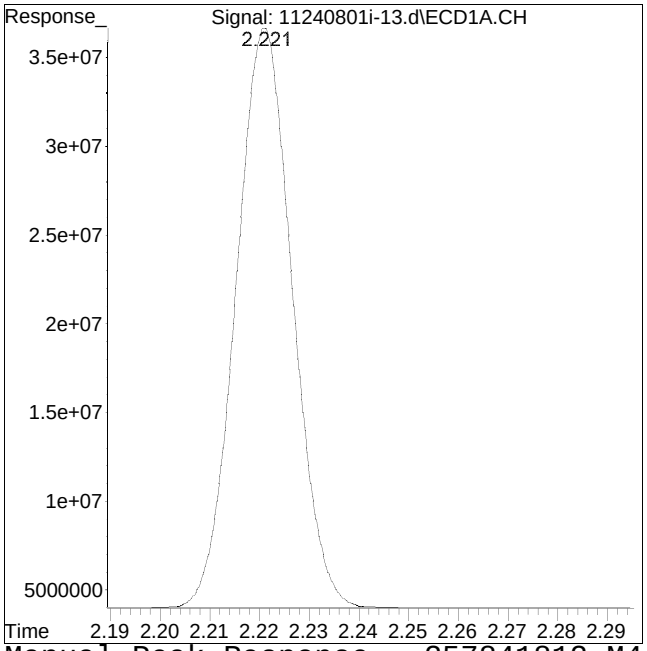
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #6: beta-BHC



Original Peak Response = 259860503



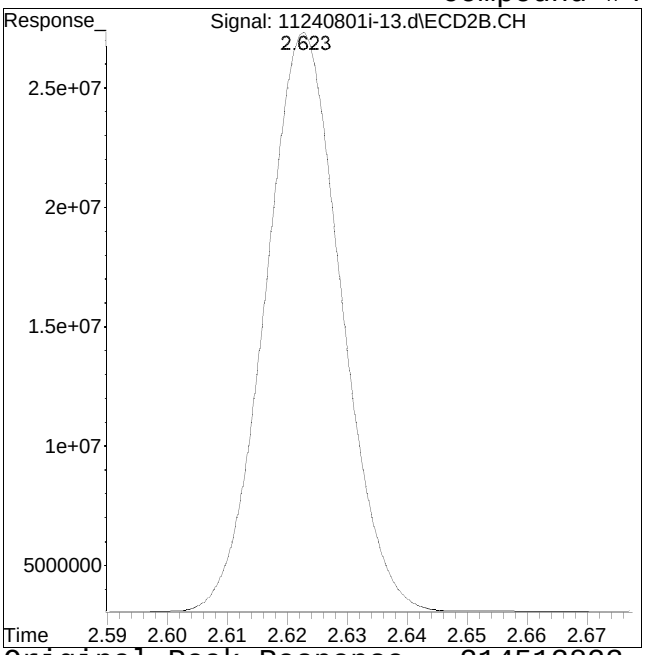
Manual Peak Response = 257841812 M4

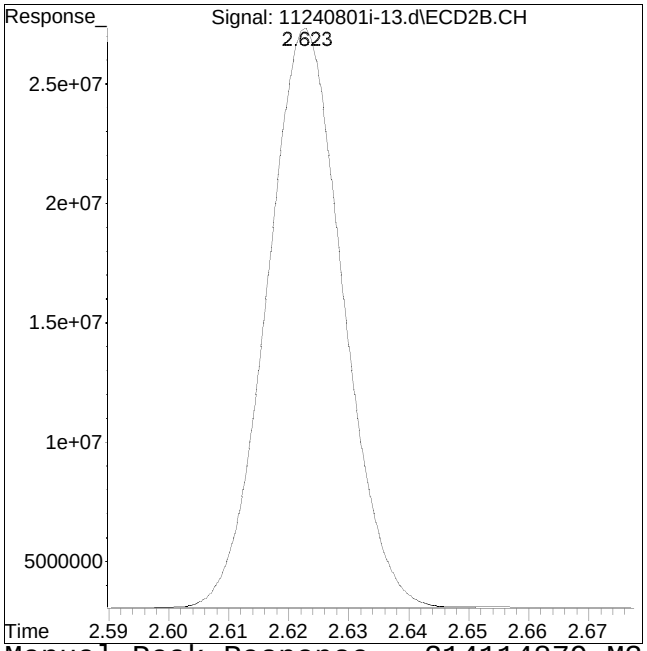
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #44: beta-BHC #2



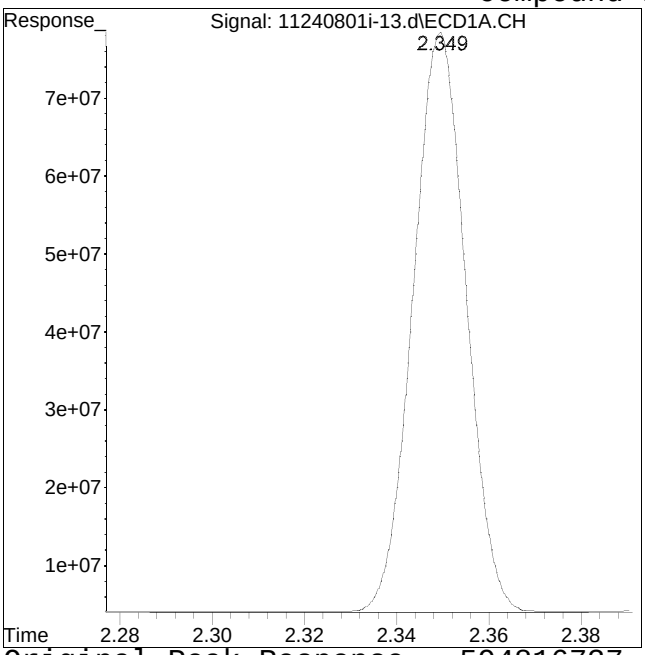


Original Peak Response = 214512823 Manual Peak Response = 214114879 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

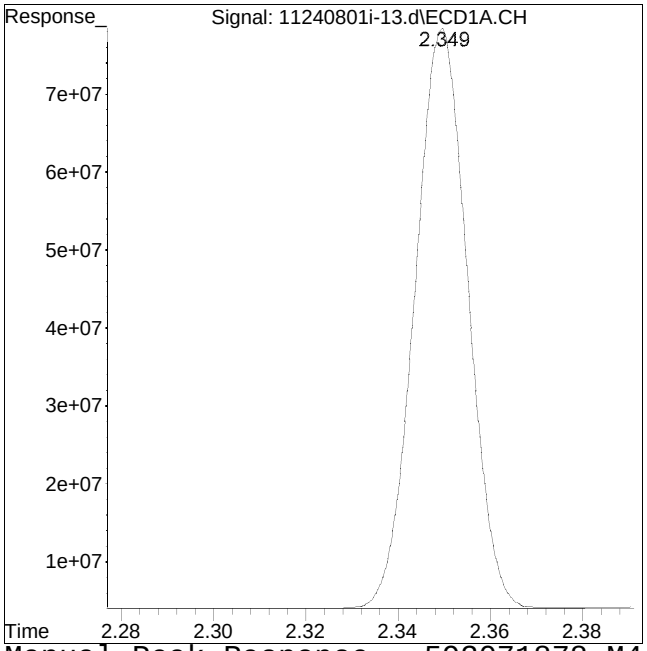
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #7: delta-BHC



Original Peak Response = 594816737



Manual Peak Response = 593071878 M4

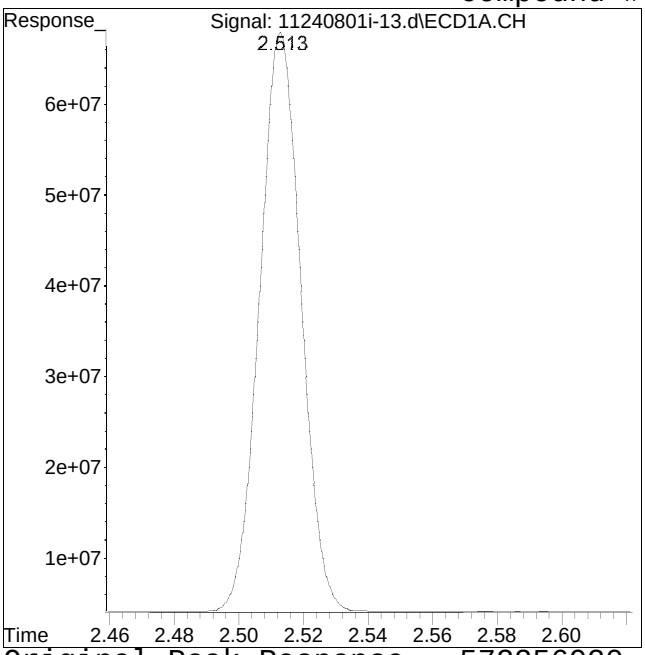
M4 = Poor automated baseline construction.

Manual Integration Report

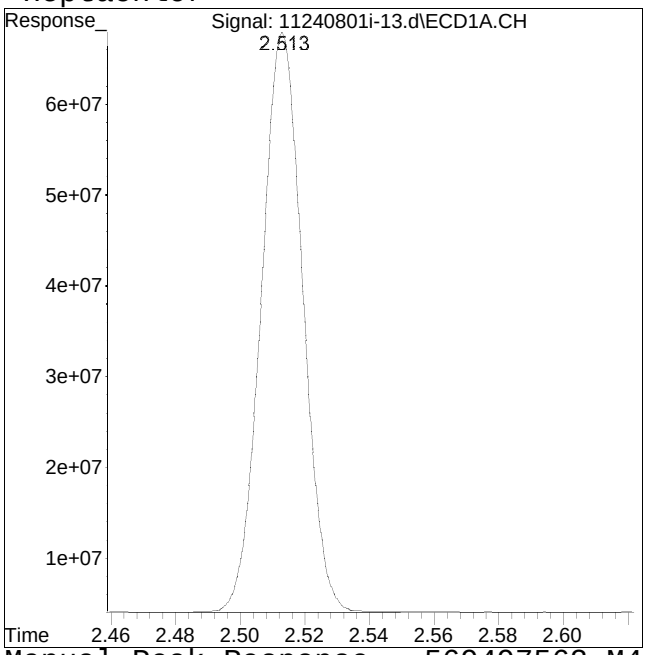
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #8: Heptachlor



Original Peak Response = 572256920



Manual Peak Response = 569497562 M4

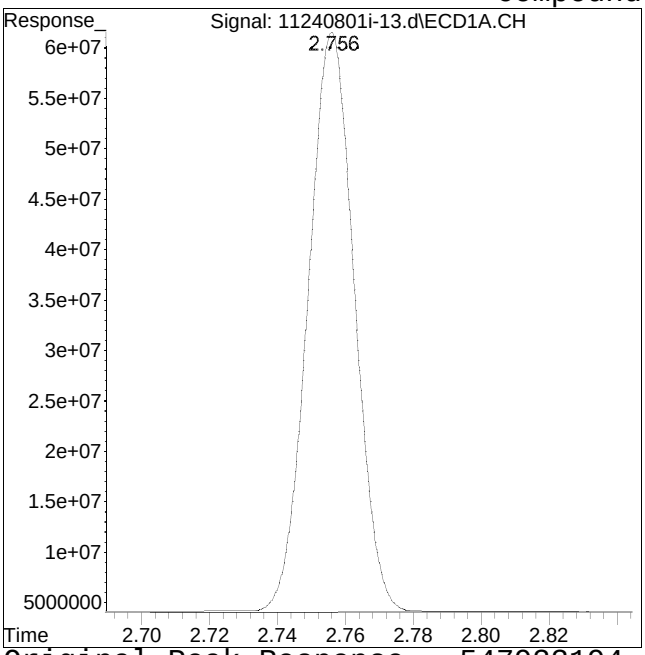
M4 = Poor automated baseline construction.

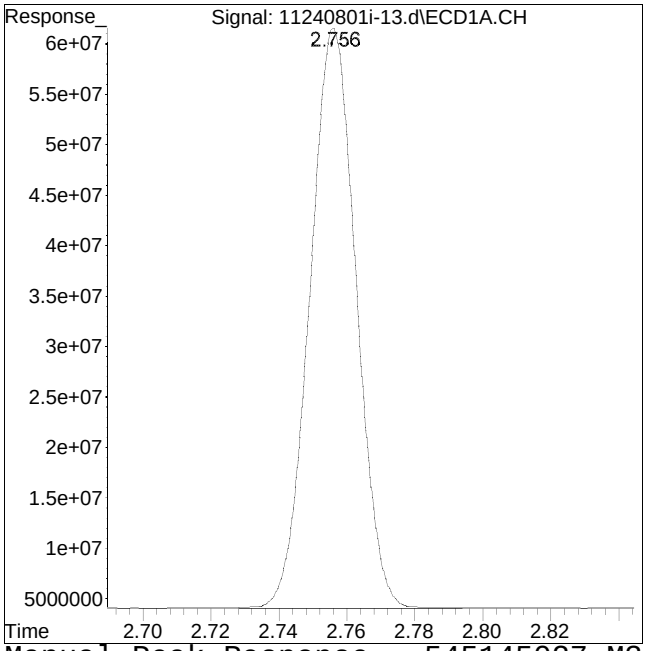
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #9: Aldrin





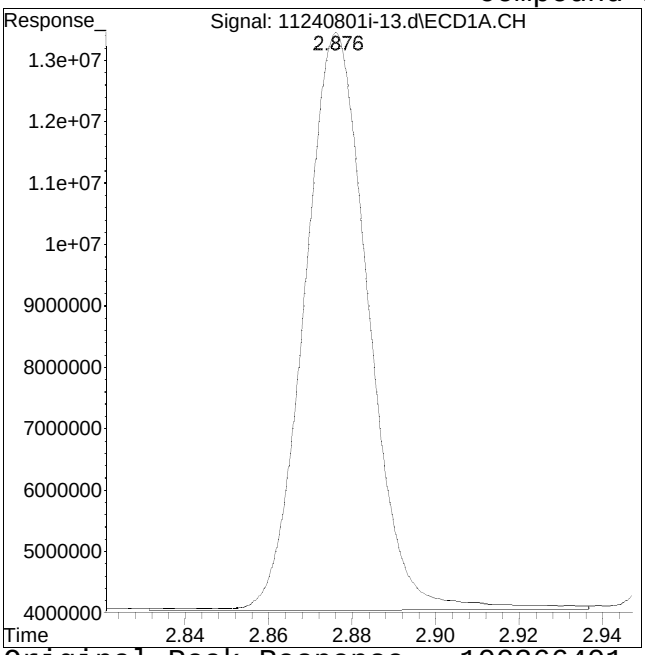
Original Peak Response = 547933194 Manual Peak Response = 545145027 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

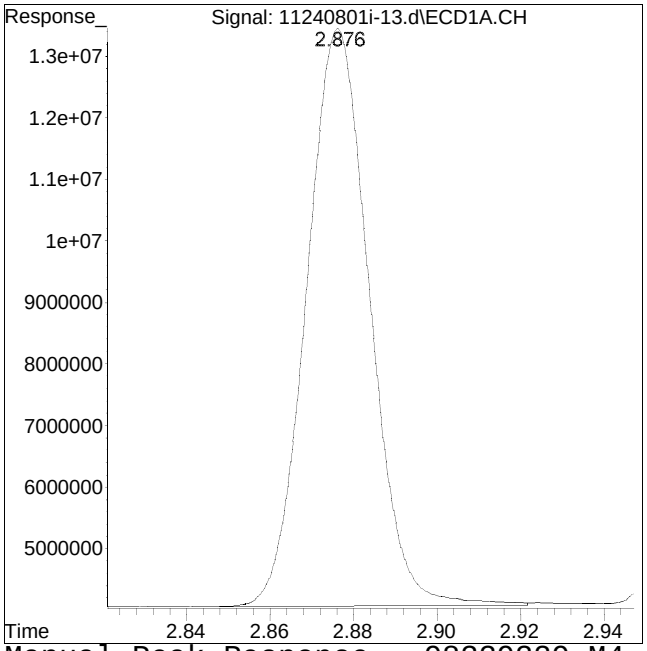
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #10: Alachlor



Original Peak Response = 100366401



Manual Peak Response = 98339329 M4

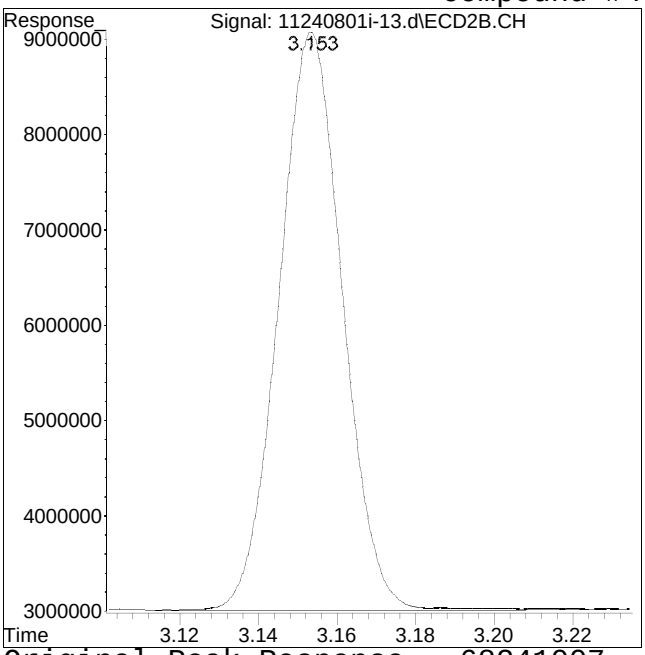
M4 = Poor automated baseline construction.

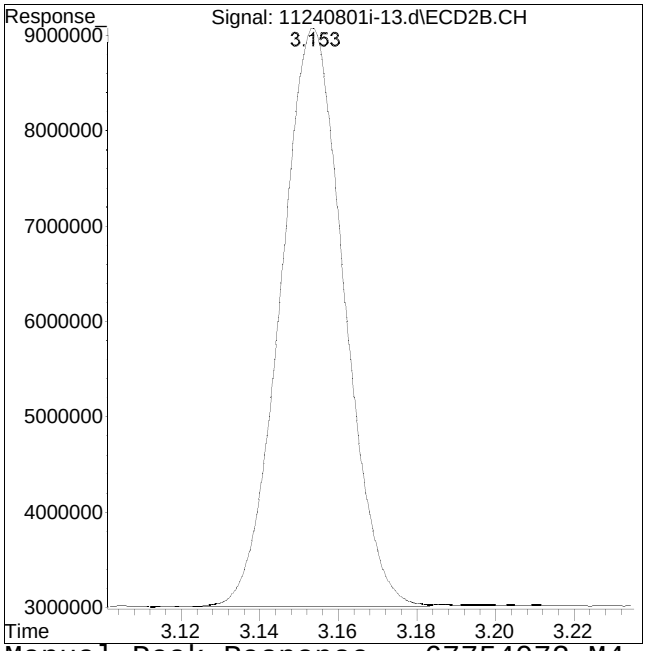
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #48: Alachlor #2



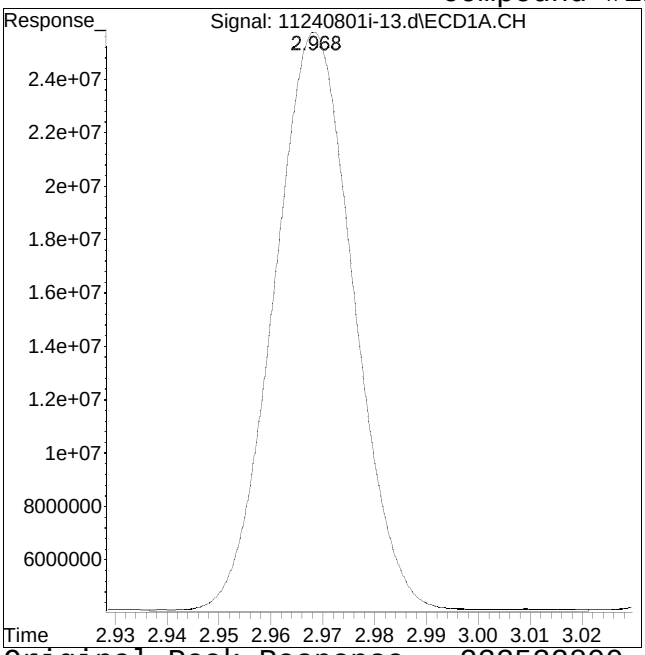


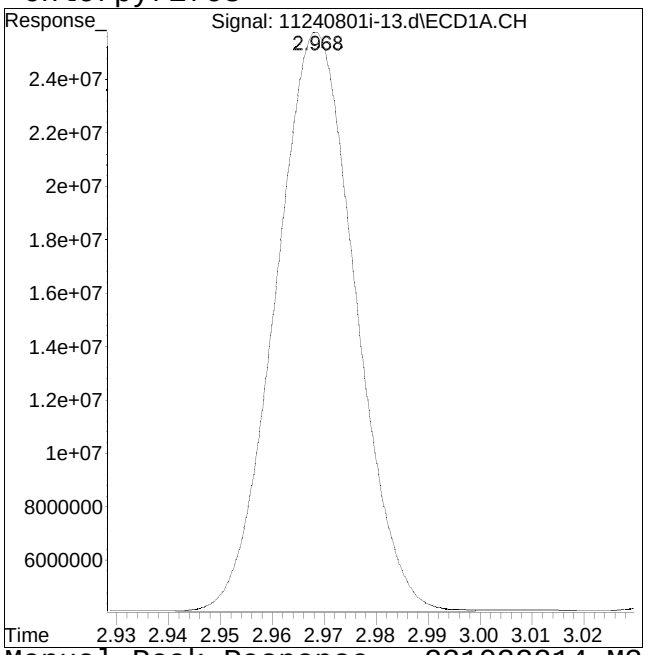
Original Peak Response = 68241007 Manual Peak Response = 67754072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #11: Chlorpyrifos





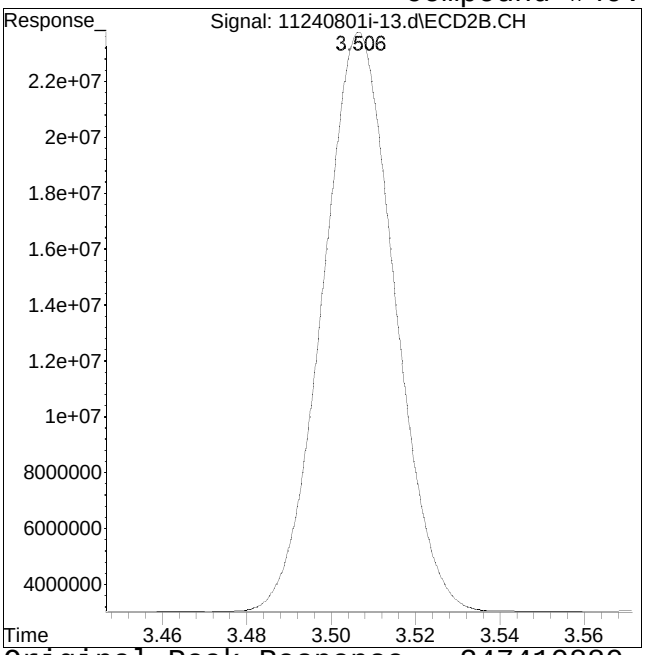
Original Peak Response = 233532800 Manual Peak Response = 231032214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

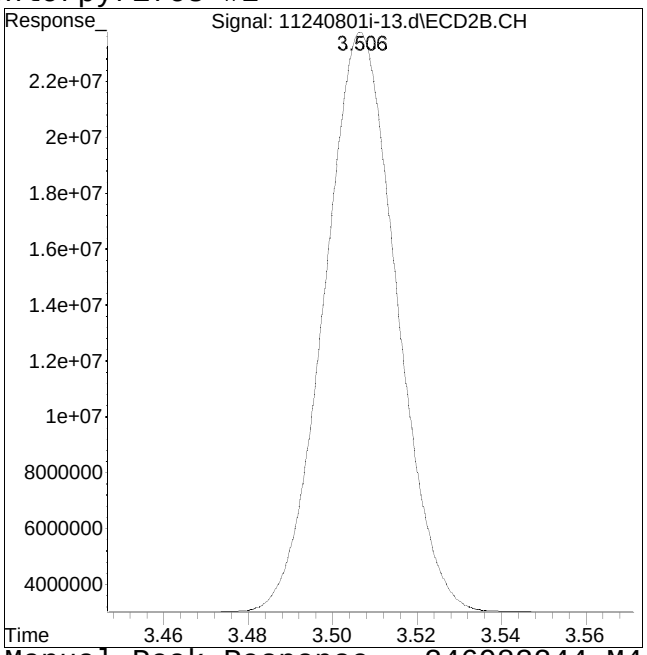
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 247410880



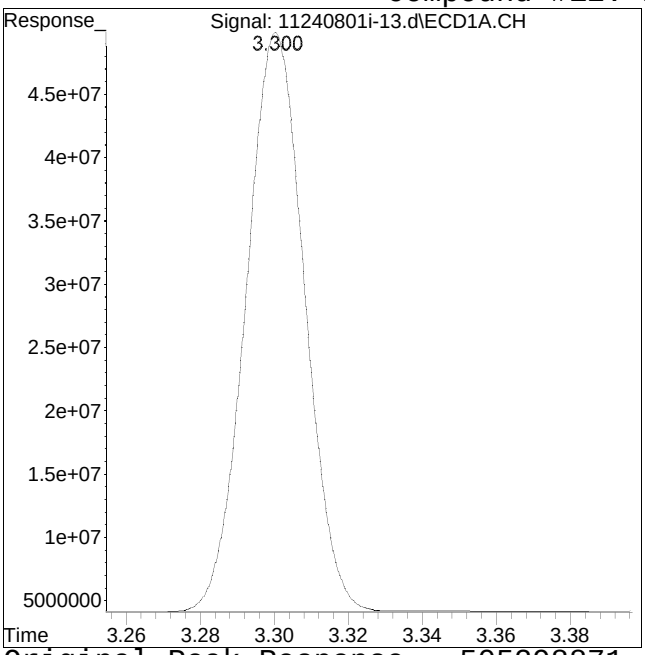
Manual Peak Response = 246983244 M4

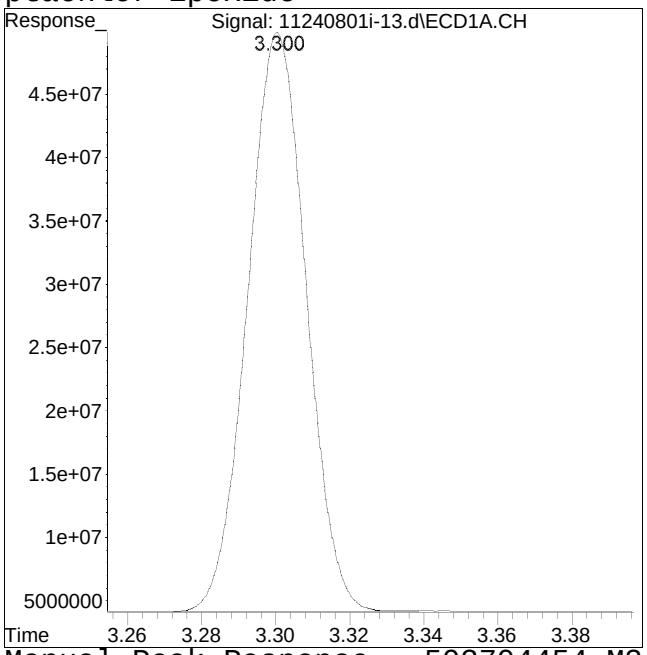
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #12: Heptachlor Epoxide





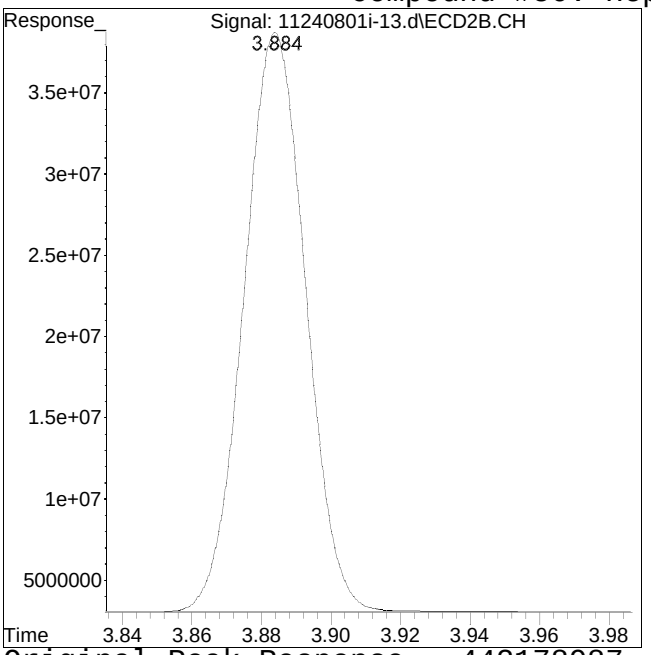
Original Peak Response = 505298871 Manual Peak Response = 503704454 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

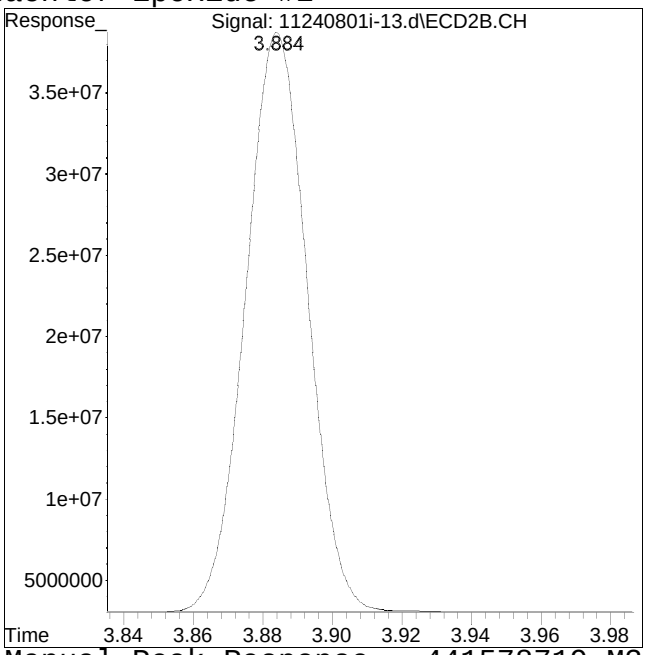
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #50: Heptachlor Epoxide #2





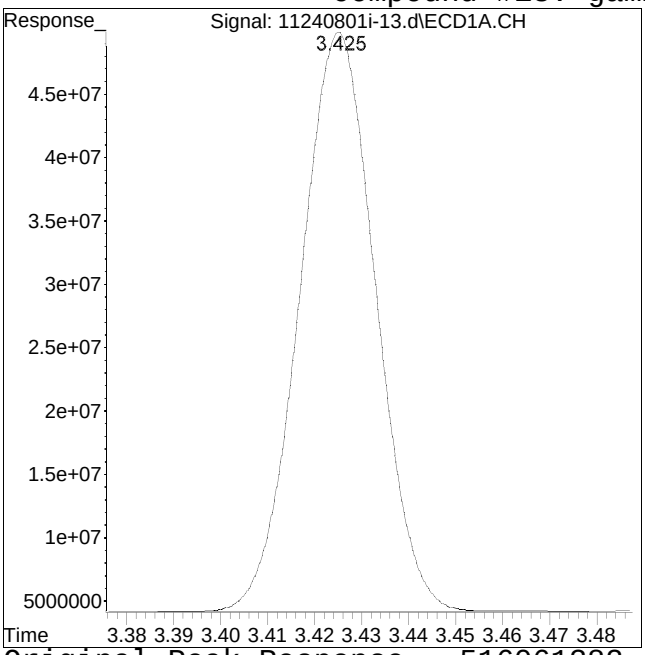
Original Peak Response = 442178987 Manual Peak Response = 441578719 M3

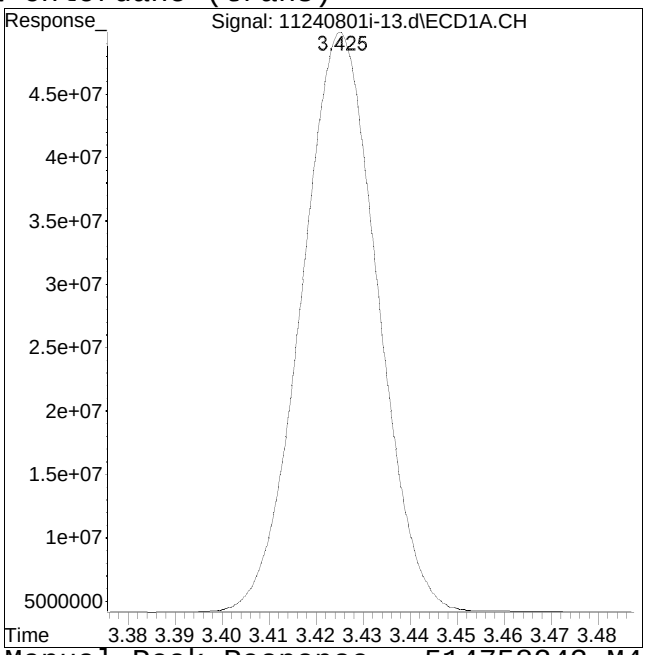
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #13: gamma-Chlordane (trans)





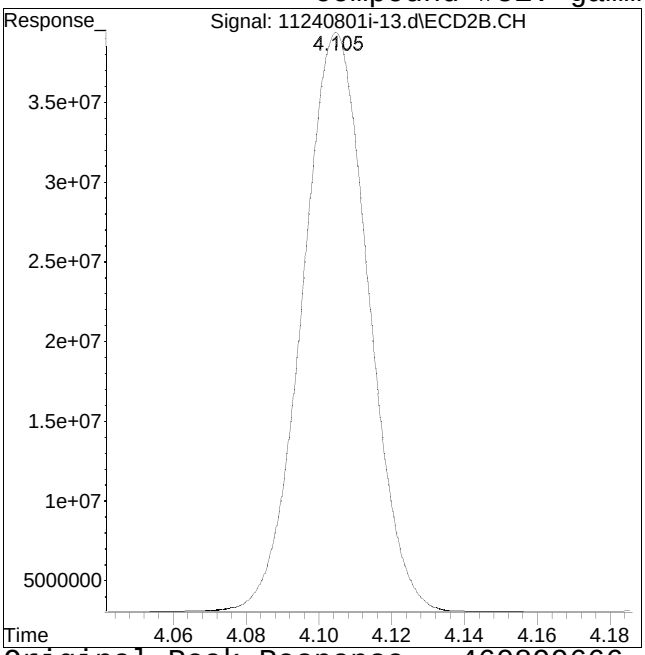
Original Peak Response = 516061382 Manual Peak Response = 514758243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

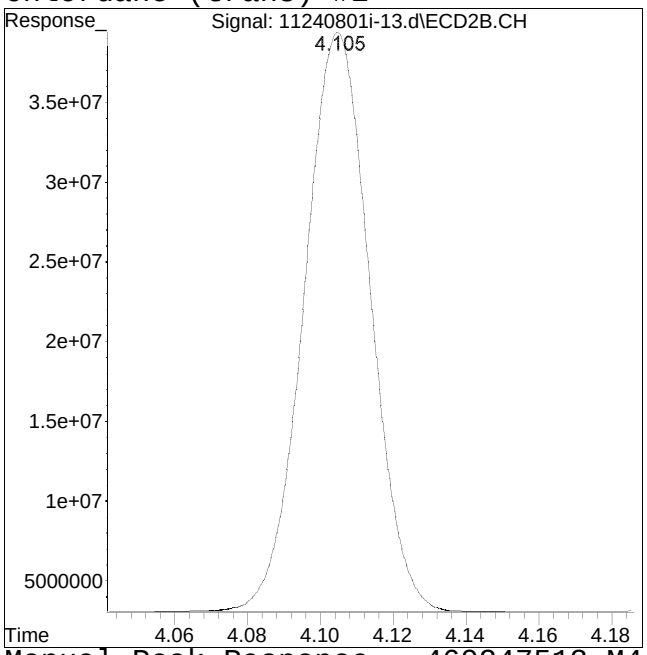
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 460899666



Manual Peak Response = 460247513 M4

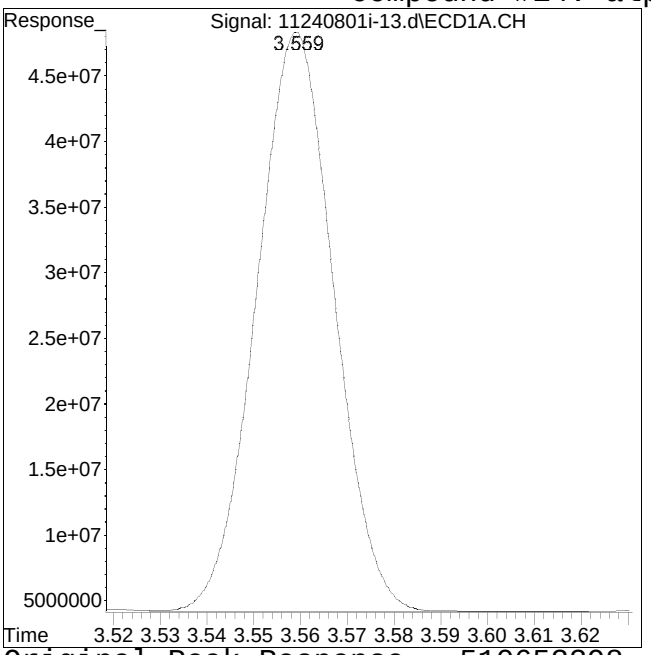
M4 = Poor automated baseline construction.

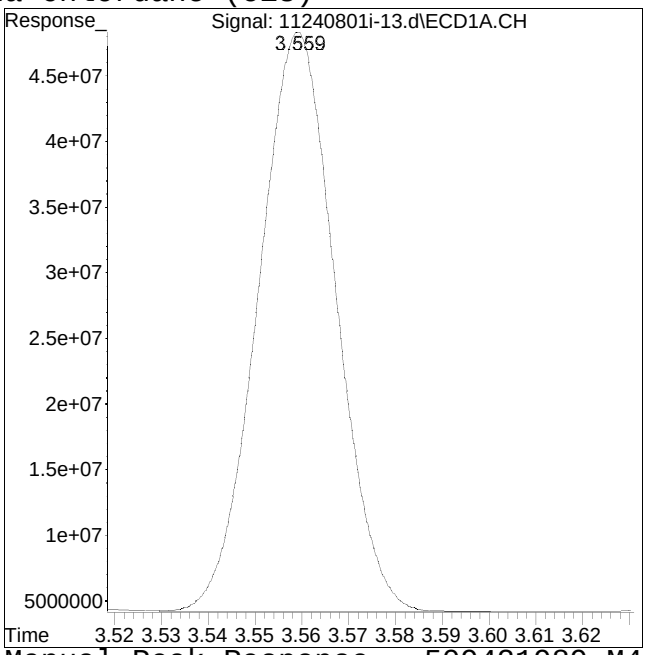
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #14: alpha-Chlordane (cis)



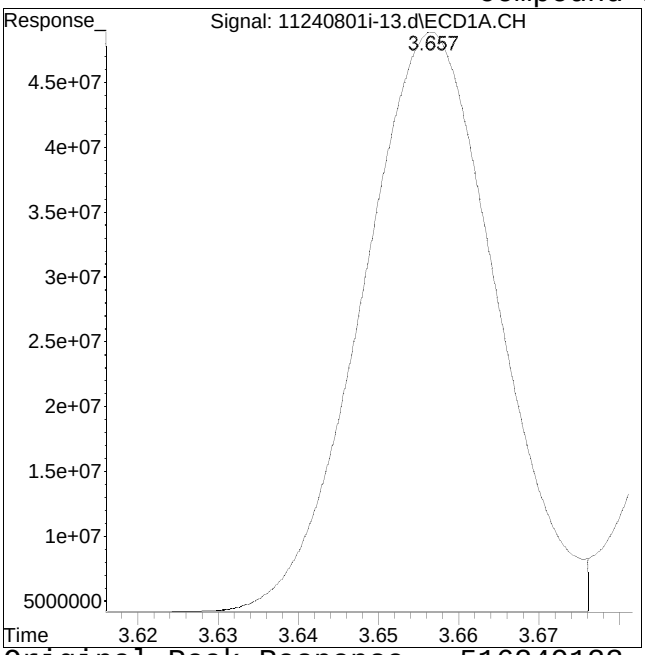


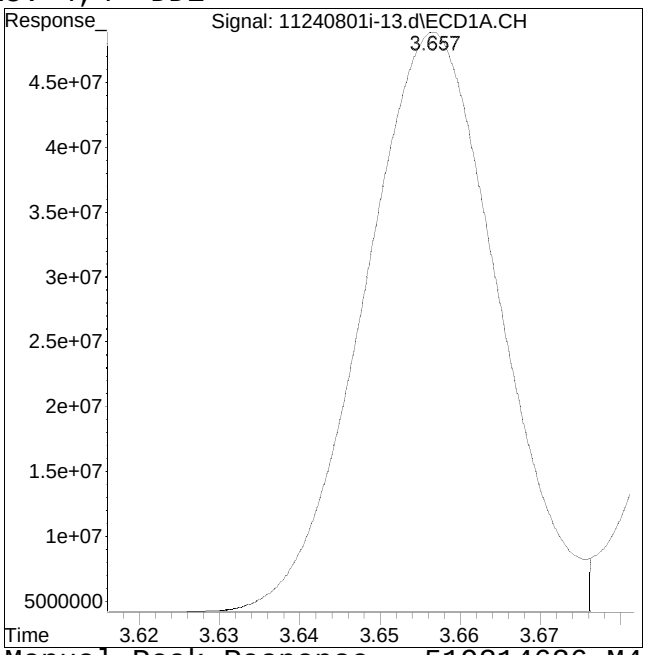
Original Peak Response = 510653398 Manual Peak Response = 509421989 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #15: 4,4'-DDE



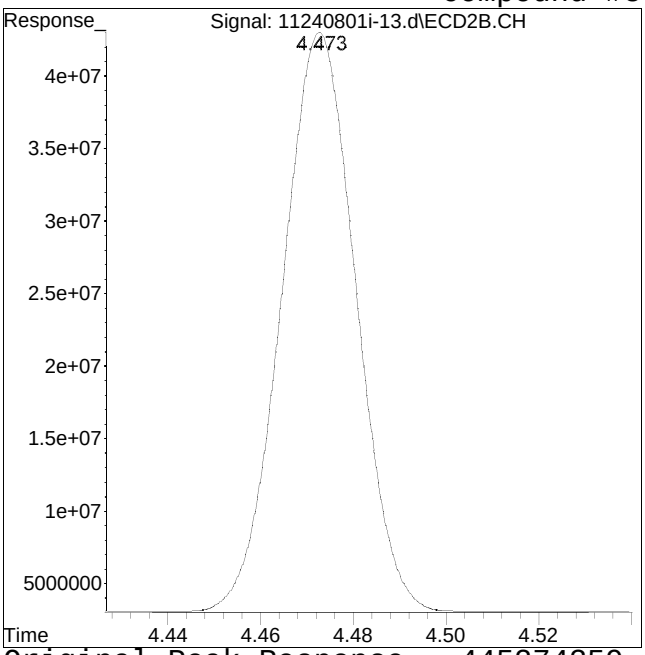


Original Peak Response = 516249123 Manual Peak Response = 519314626 M4
M4 = Poor automated baseline construction.

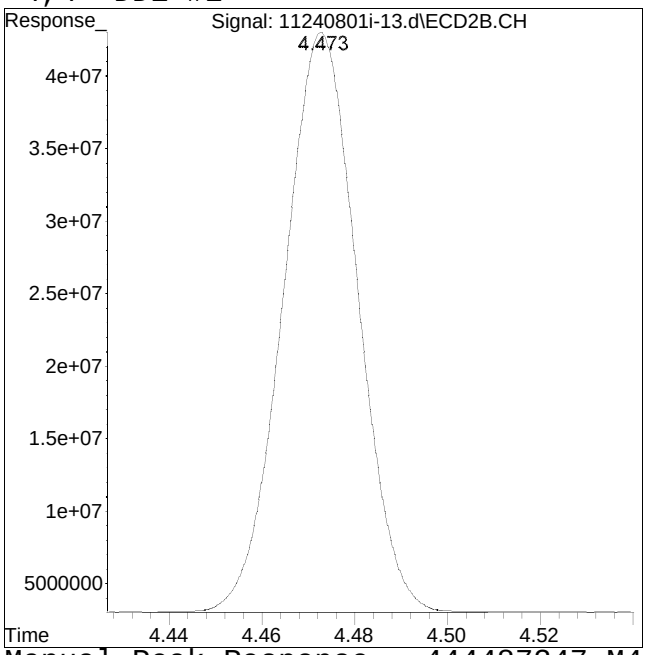
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 445274359



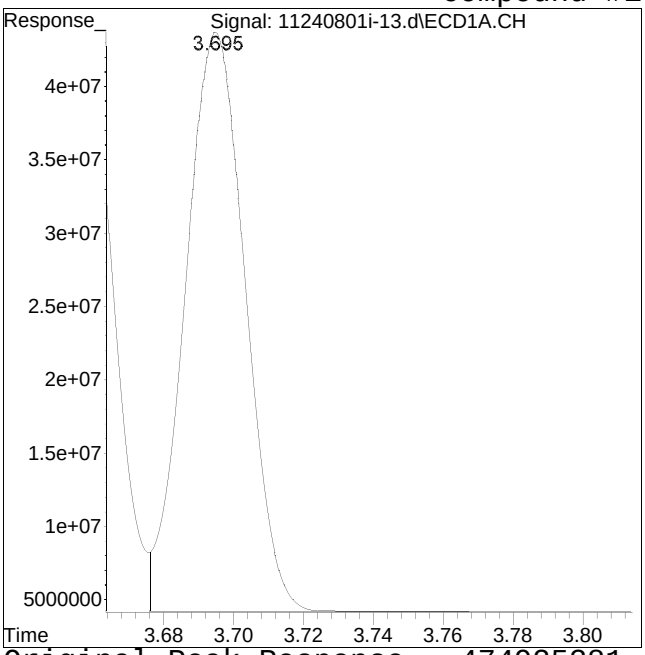
Manual Peak Response = 444487347 M4

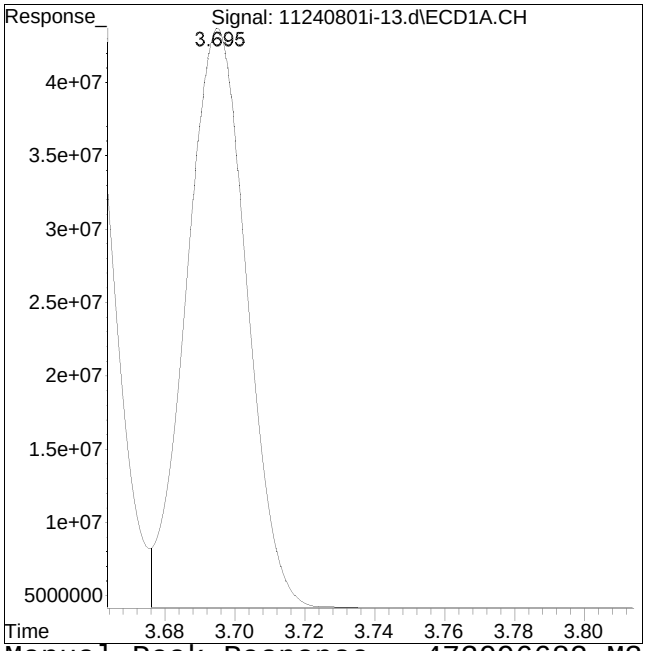
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #16: Endosulfan I





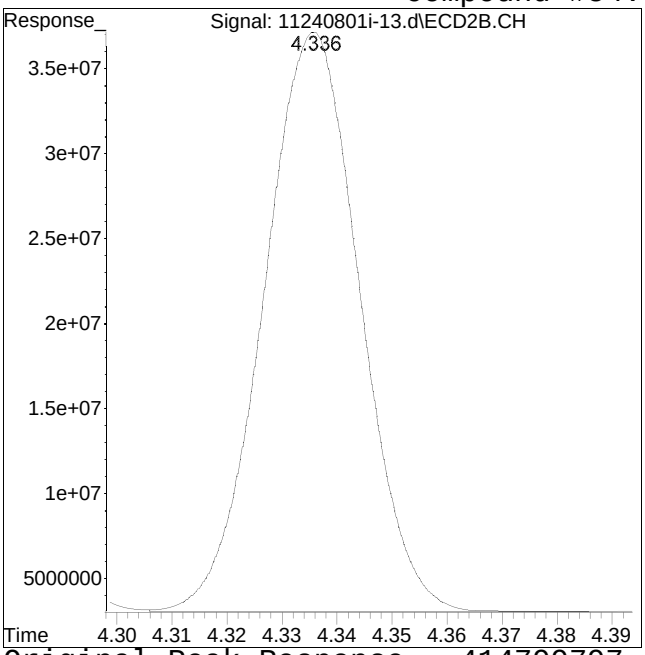
Original Peak Response = 474925381 Manual Peak Response = 473096682 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

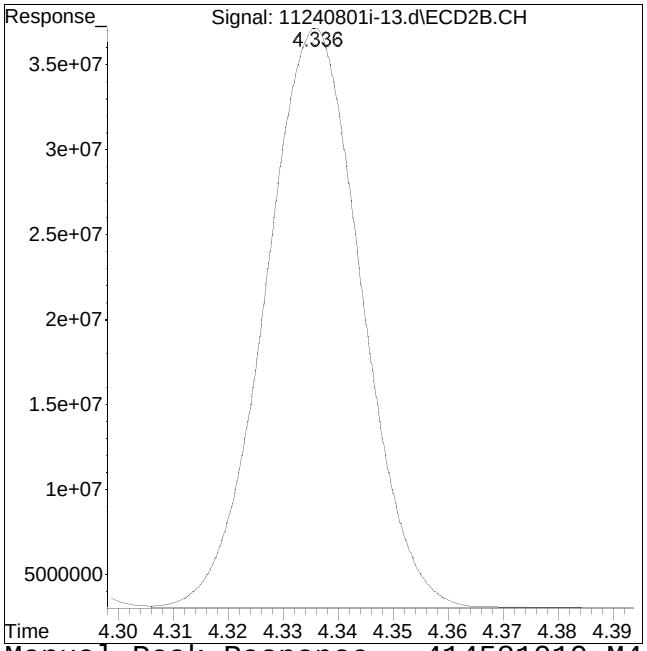
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #54: Endosulfan I #2



Original Peak Response = 414799797



Manual Peak Response = 414581010 M4

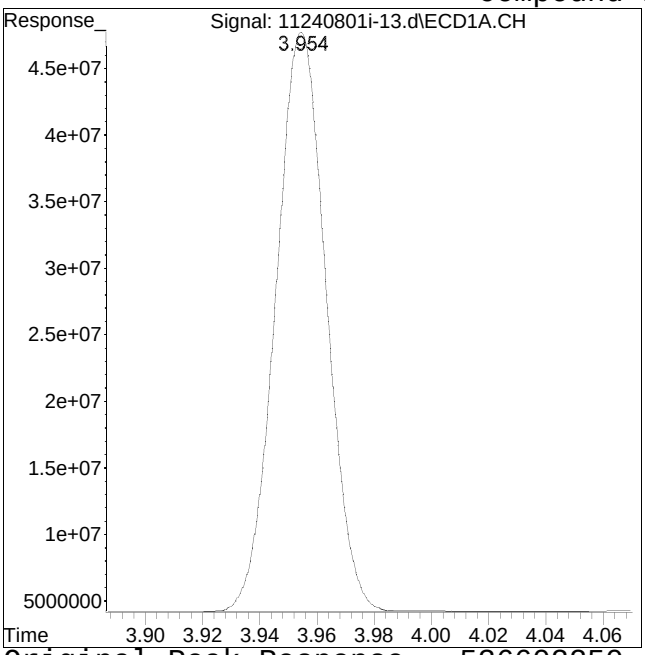
M4 = Poor automated baseline construction.

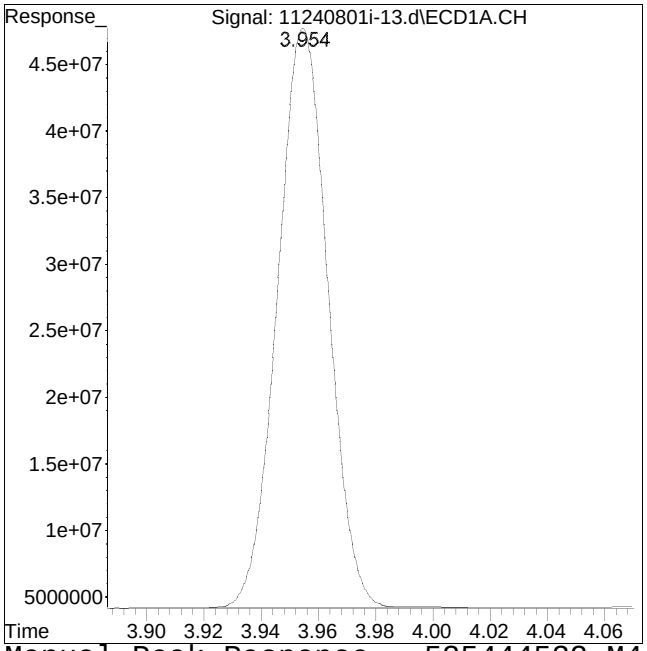
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #17: Dieldrin





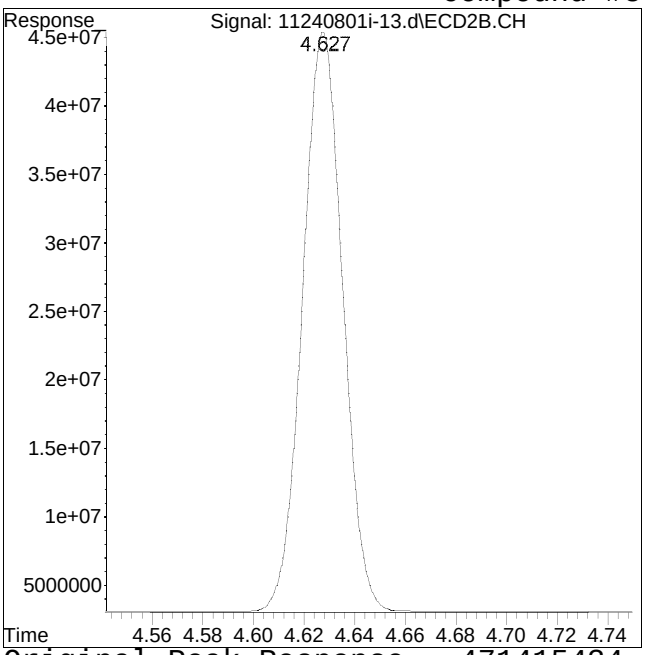
Original Peak Response = 536602250 Manual Peak Response = 535444532 M4
M4 = Poor automated baseline construction.

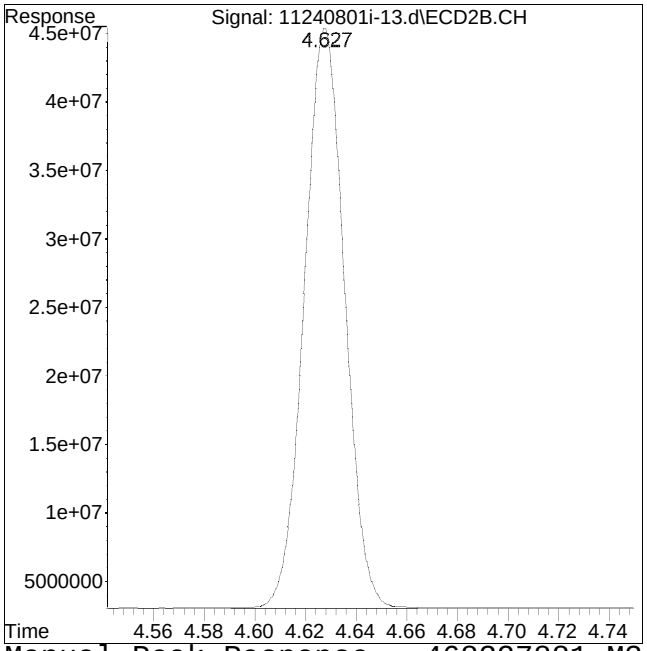
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #55: Dieldrin #2





Original Peak Response = 471415434 Manual Peak Response = 468327881 M3

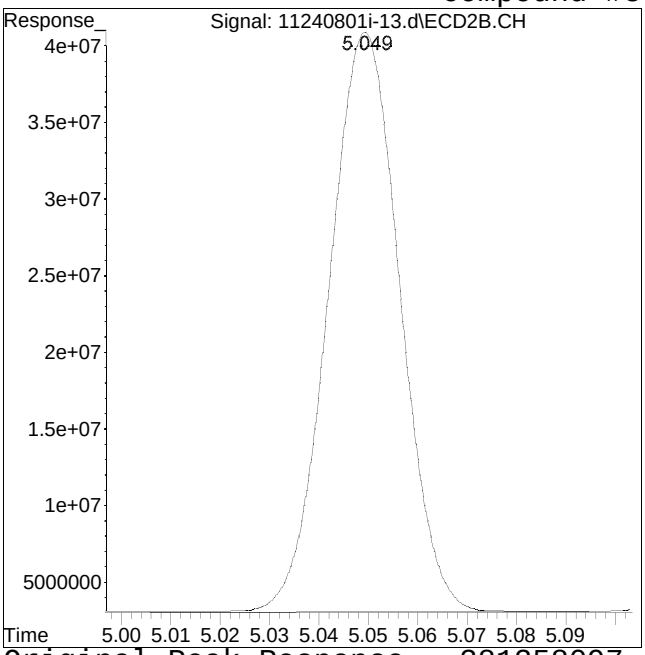
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

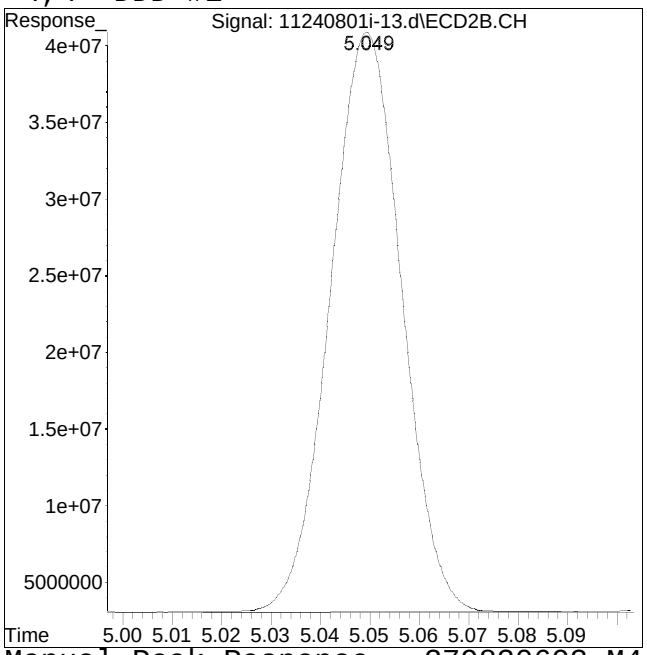
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 381358097



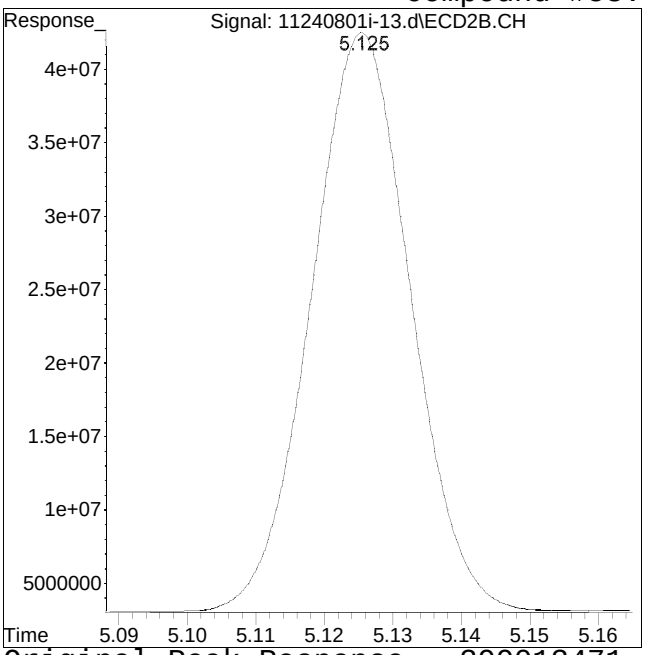
Manual Peak Response = 379830693 M4

M4 = Poor automated baseline construction.

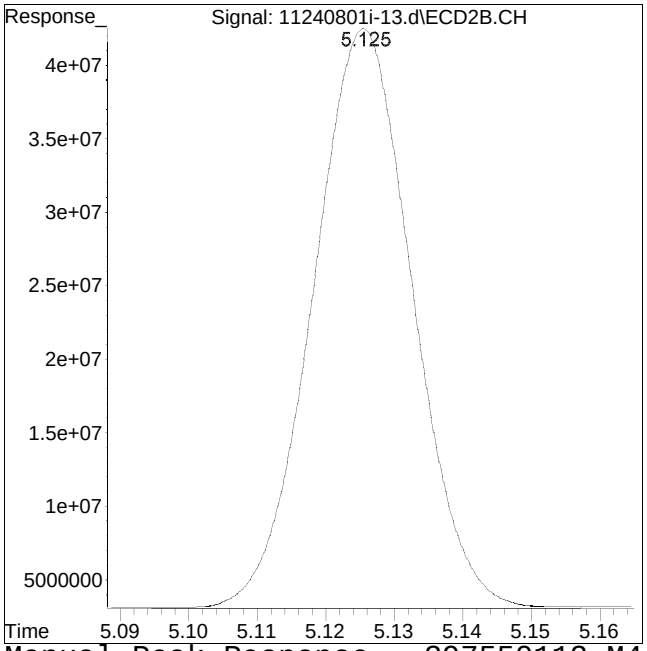
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #58: Endosulfan II #2



Original Peak Response = 399013471



Manual Peak Response = 397550112 M4

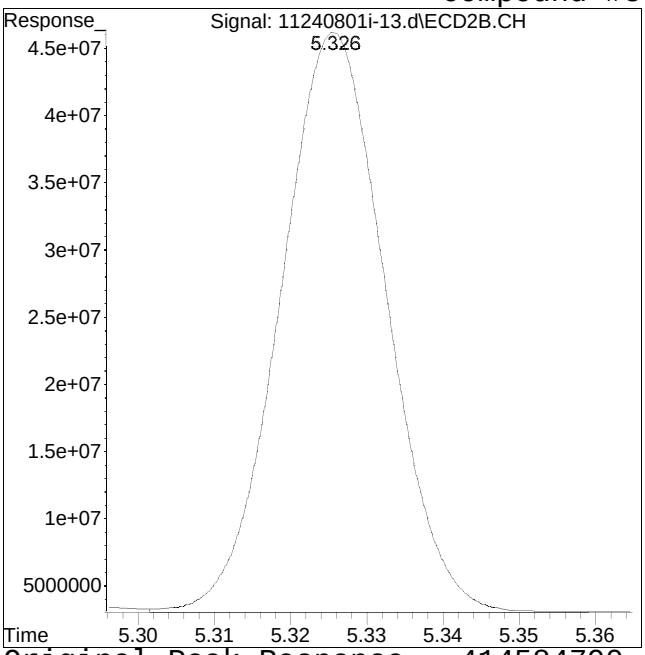
M4 = Poor automated baseline construction.

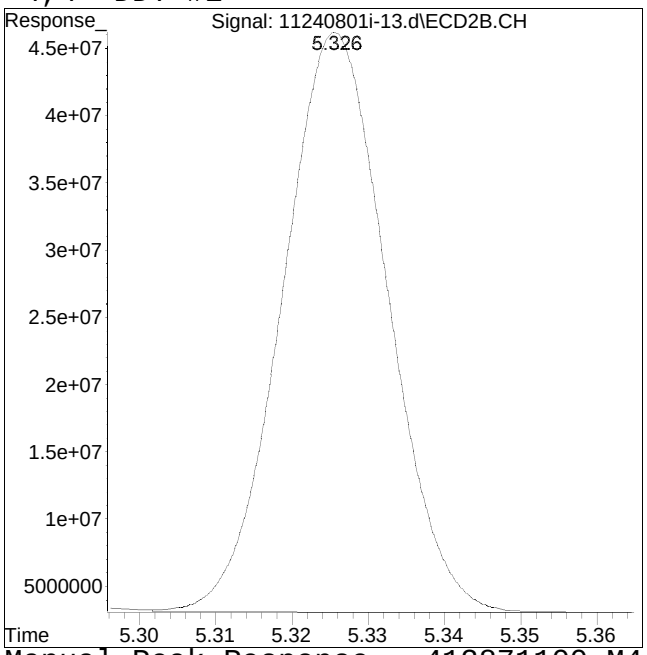
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #59: 4,4'-DDT #2





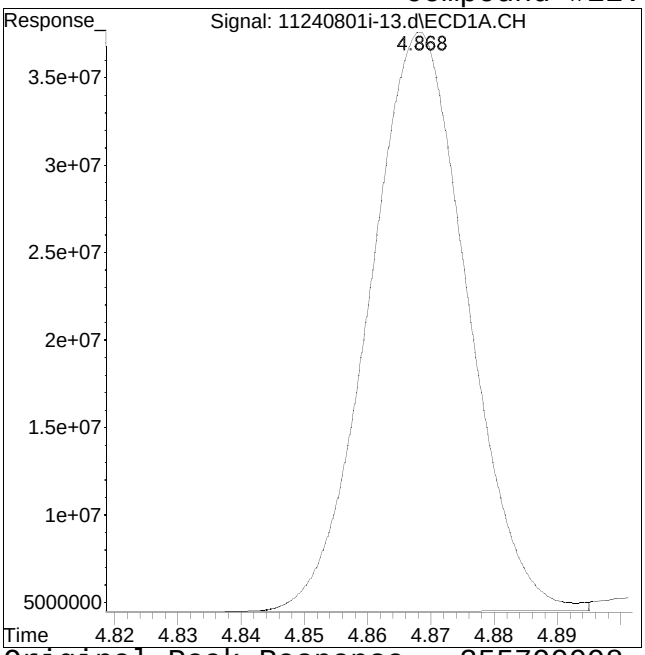
Original Peak Response = 414584790 Manual Peak Response = 412871100 M4
M4 = Poor automated baseline construction.

Manual Integration Report

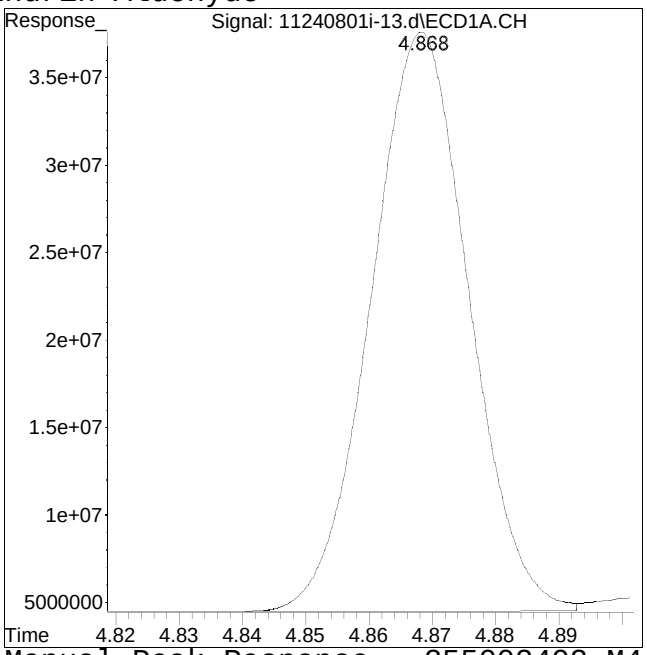
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #22: Endrin Aldehyde



Original Peak Response = 355799998



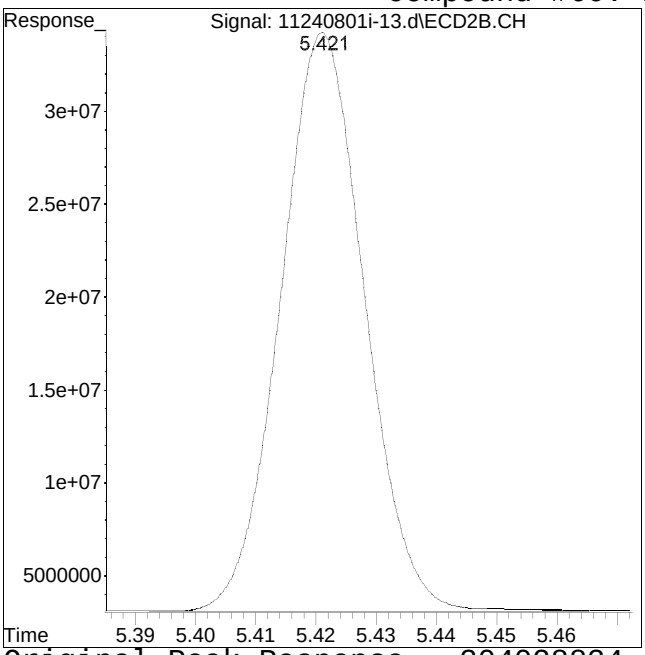
Manual Peak Response = 355002492 M4

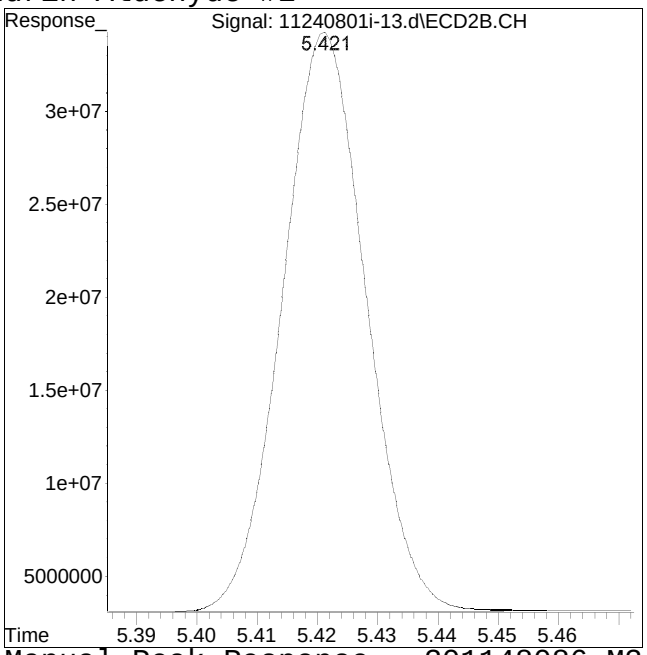
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 304028834 Manual Peak Response = 301148086 M3

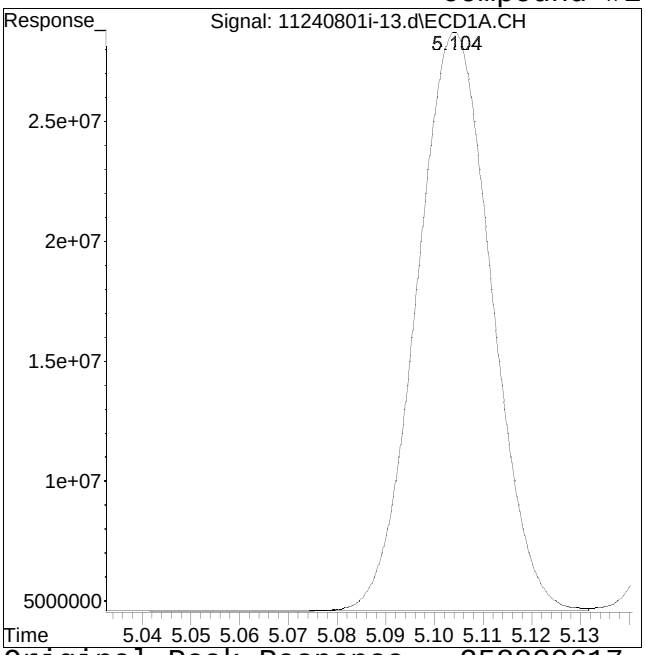
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

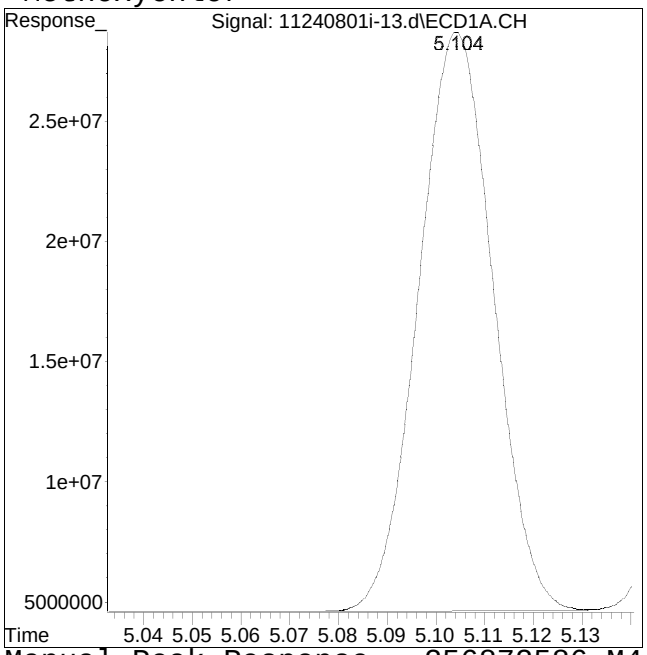
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #23: Methoxychlor



Original Peak Response = 258839617



Manual Peak Response = 256872586 M4

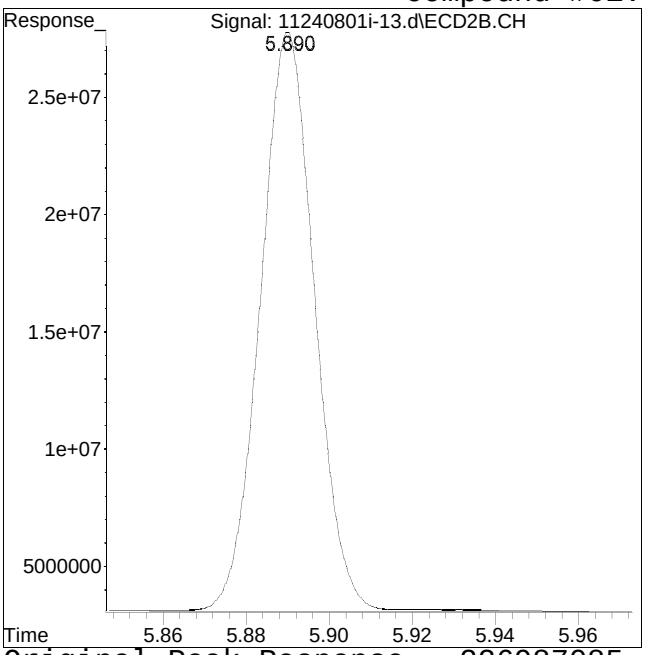
M4 = Poor automated baseline construction.

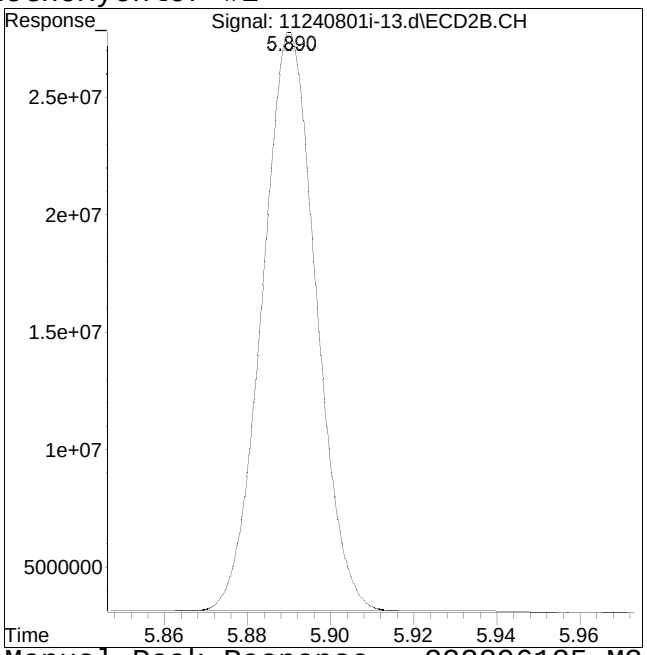
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #61: Methoxychlor #2





Original Peak Response = 226987085 Manual Peak Response = 222296125 M3

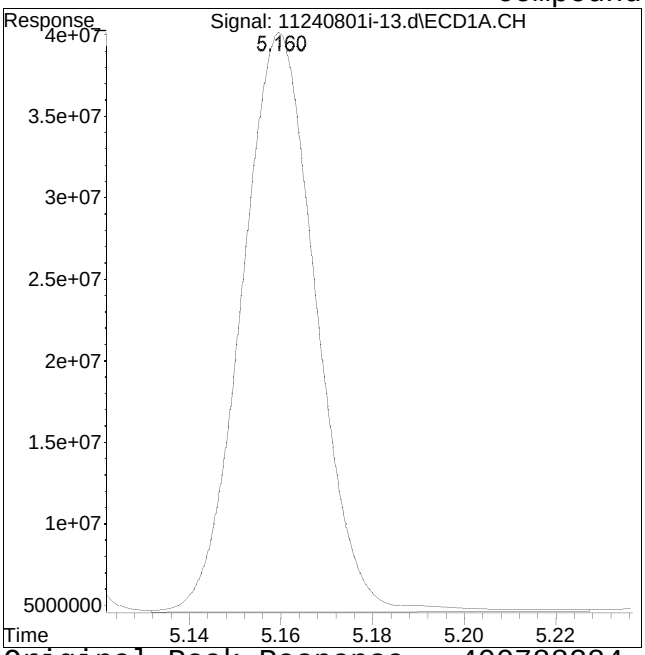
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

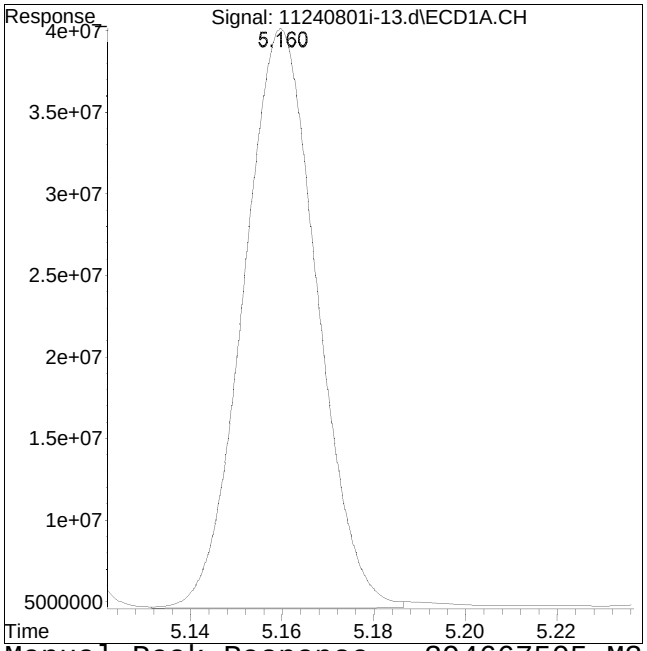
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #24: Mirex





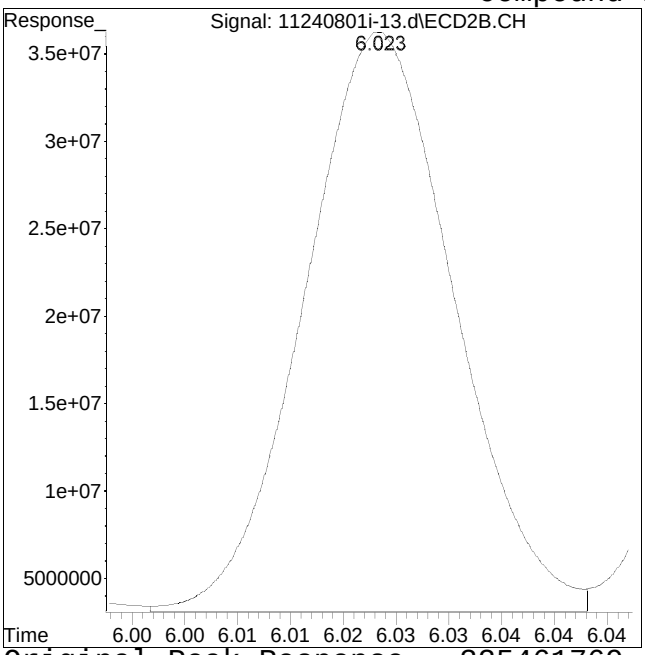
Original Peak Response = 400788384 Manual Peak Response = 394667505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

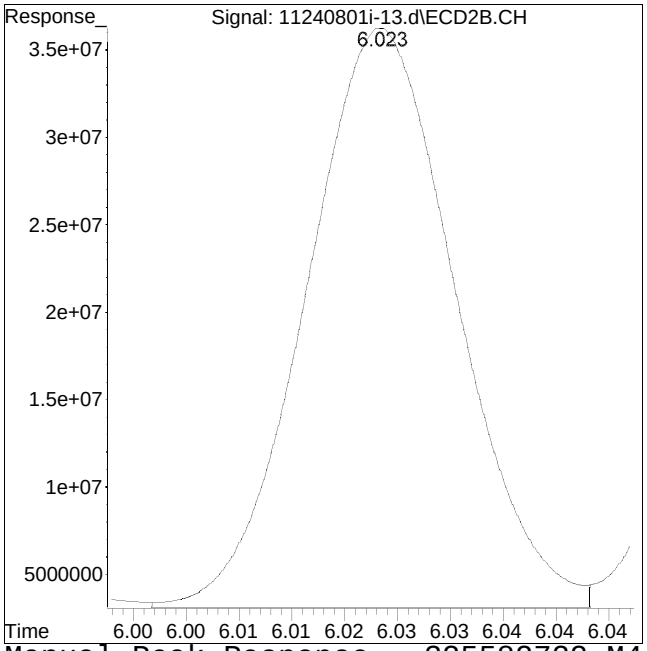
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #62: Mirex #2



Original Peak Response = 325461769



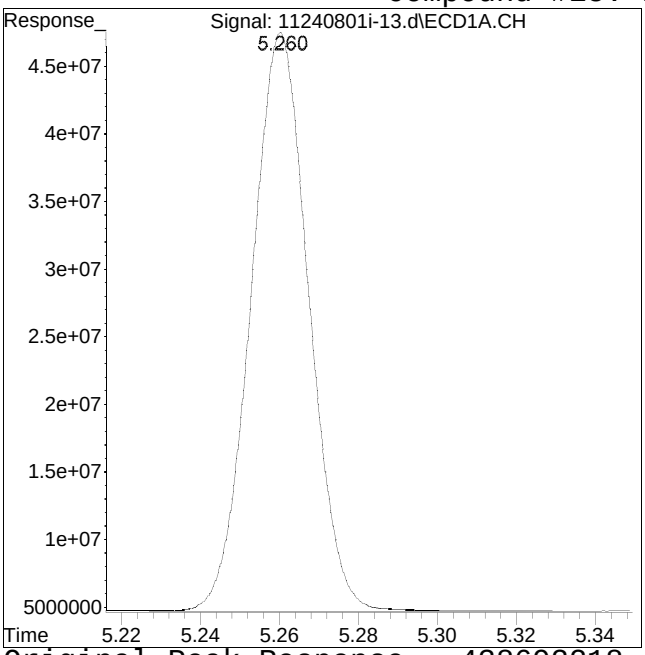
Manual Peak Response = 325582722 M4

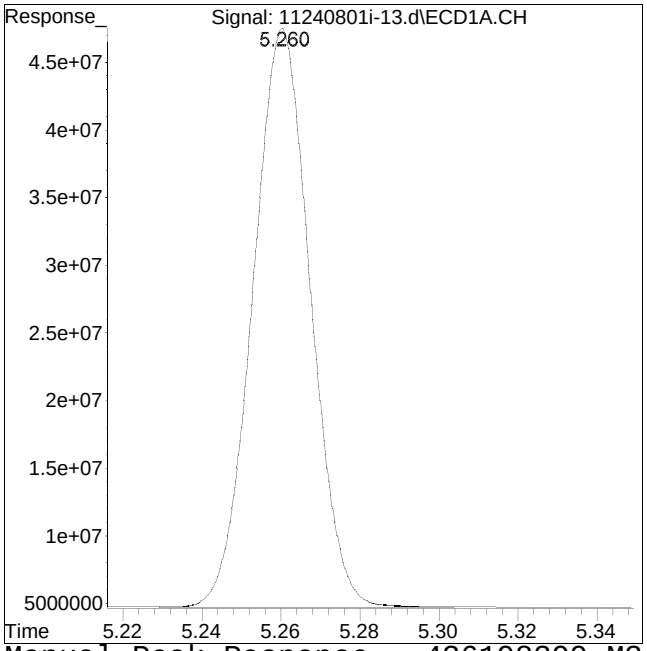
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #25: Endosulfan Sulfate





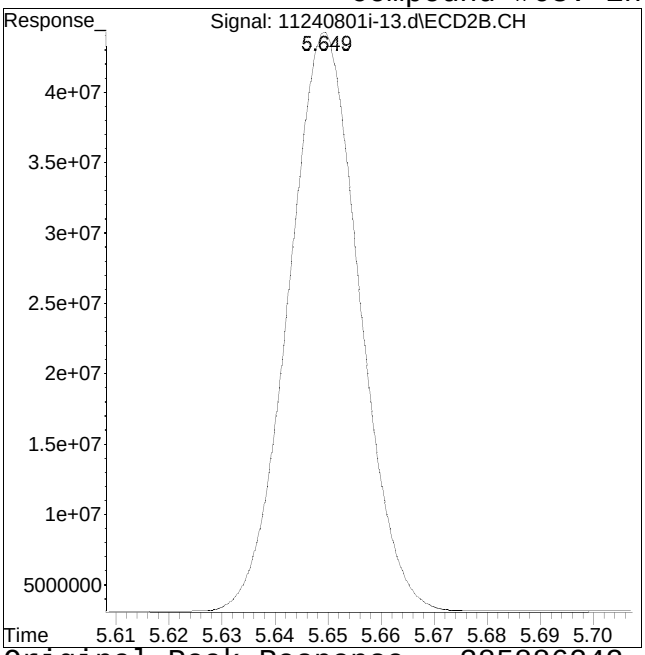
Original Peak Response = 438692218 Manual Peak Response = 436198399 M3

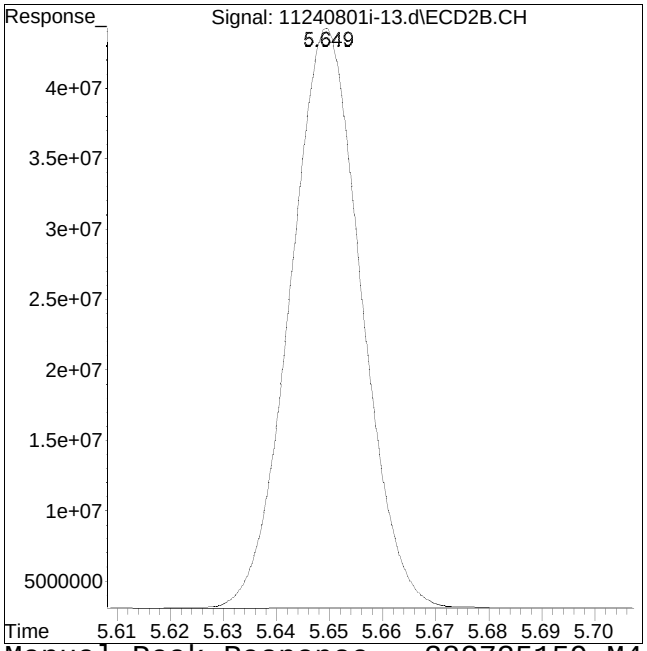
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #63: Endosulfan Sulfate #2



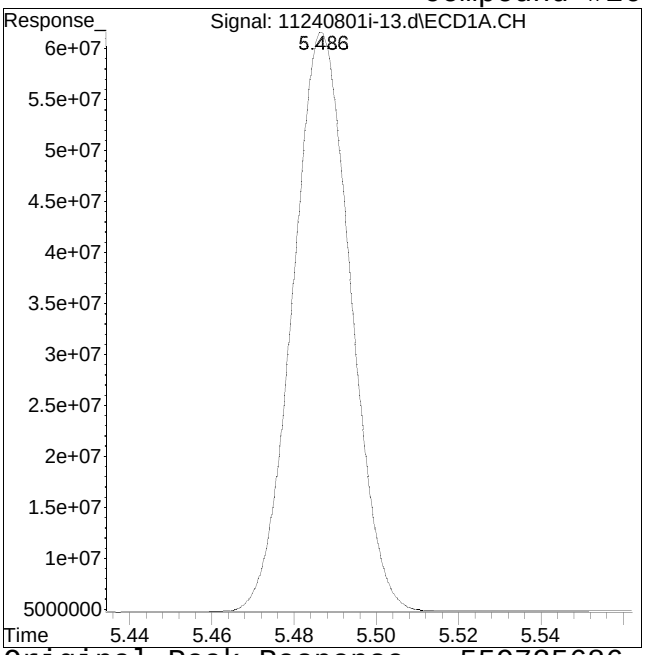


Original Peak Response = 385886242 Manual Peak Response = 382735159 M4
M4 = Poor automated baseline construction.

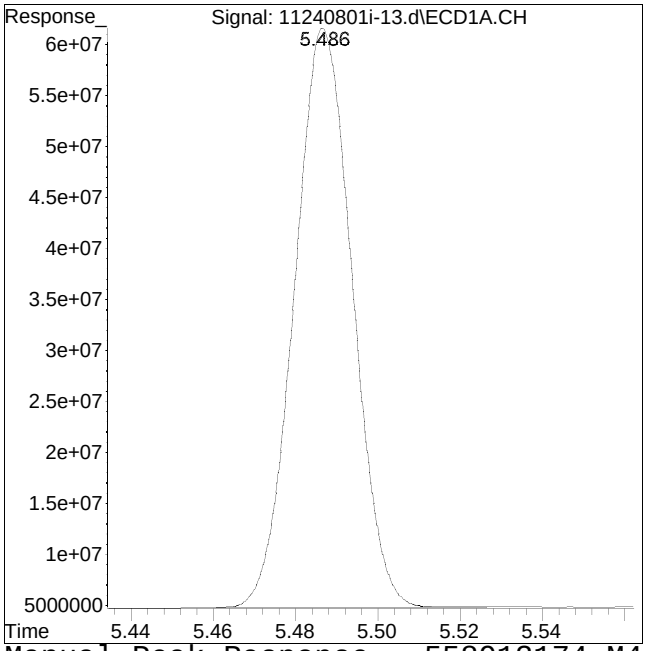
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #26: Endrin Ketone



Original Peak Response = 559735686



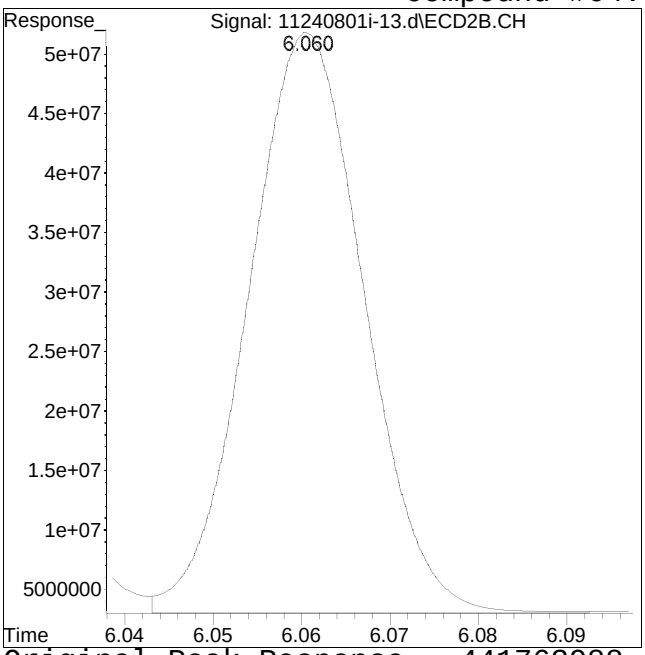
Manual Peak Response = 558913174 M4

M4 = Poor automated baseline construction.

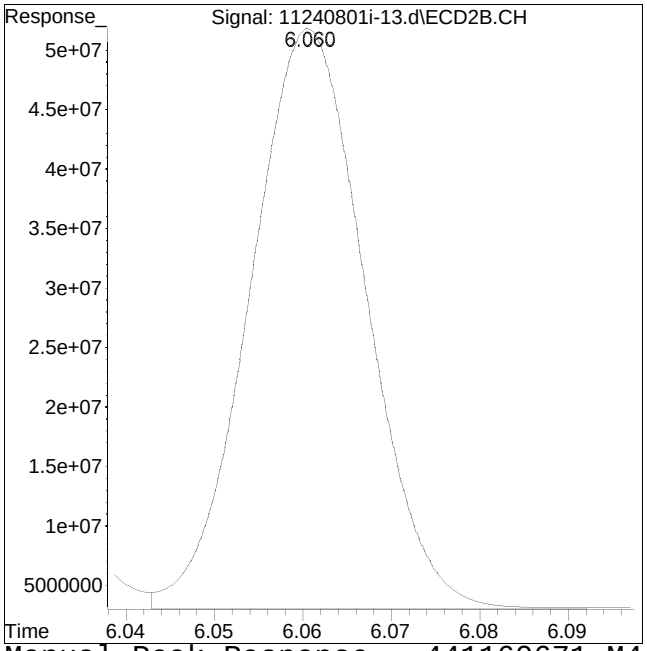
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #64: Endrin Ketone #2



Original Peak Response = 441763988



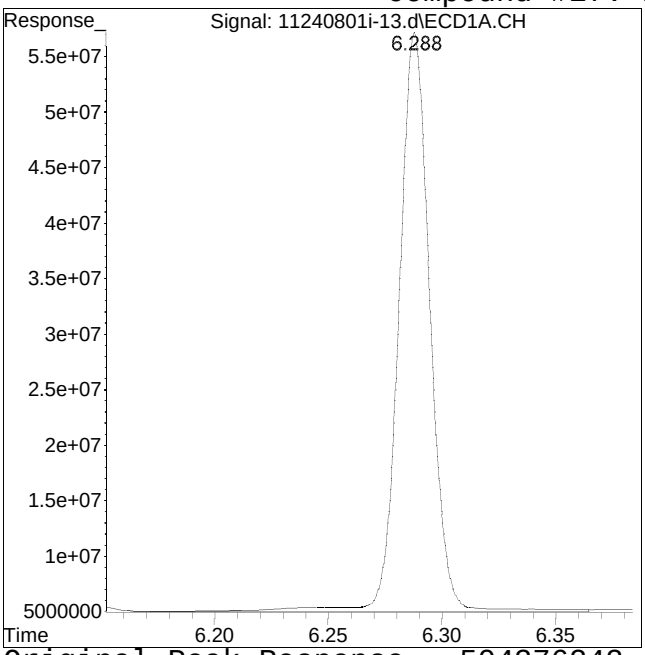
Manual Peak Response = 441160671 M4

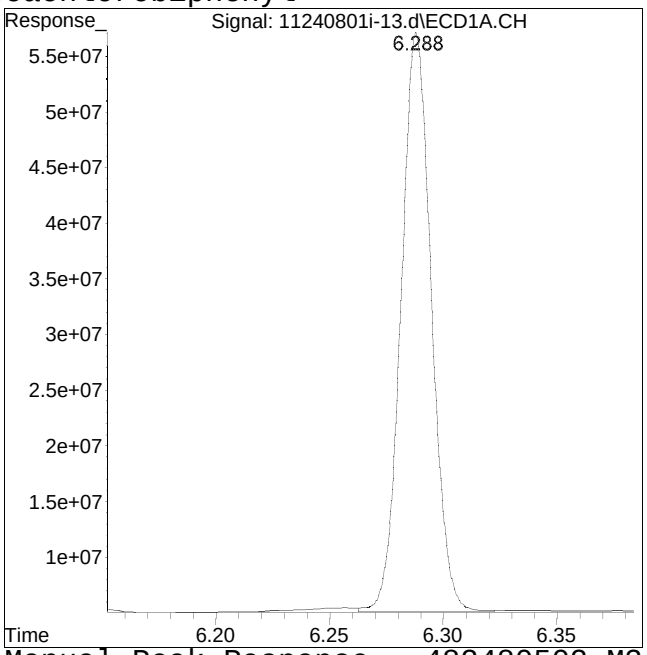
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #27: Decachlorobiphenyl



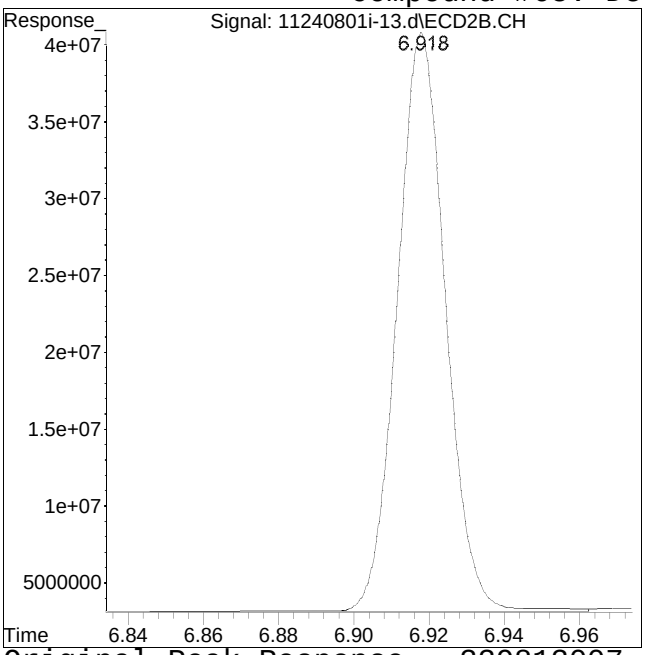


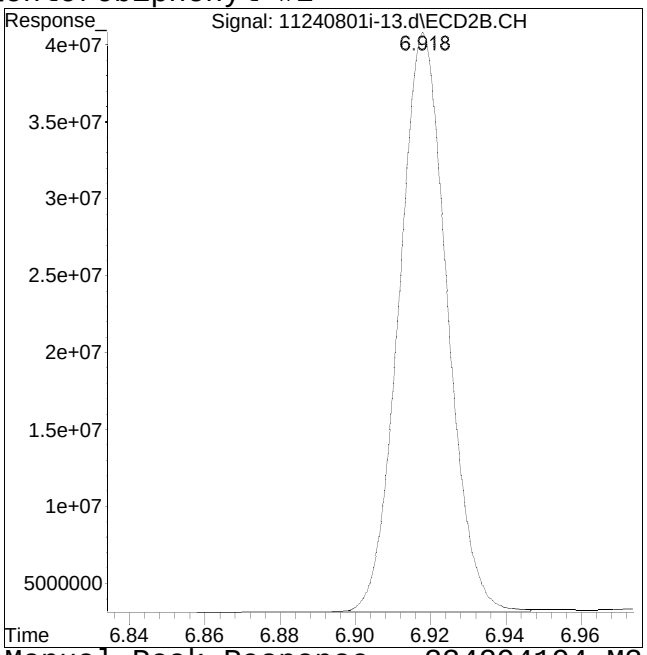
Original Peak Response = 504376242 Manual Peak Response = 482480502 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 339813007 Manual Peak Response = 334294194 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	221.9E6	176.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	3348778	3797653	10.230	12.954
30) l1	chlordane-3	2.868	3.423	4387652	4962525	10.696M4	14.420
31) l1	chlordane-4	3.425	4.104	14578311	14683745	10.355	12.473
32) l1	chlordane-5	3.553	4.275	21582458	11409156	9.913	12.528
Sum	chlordane-1			43897199	34853078	NoCal	NoCal D
Average	chlordane-1					10.299	13.094
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

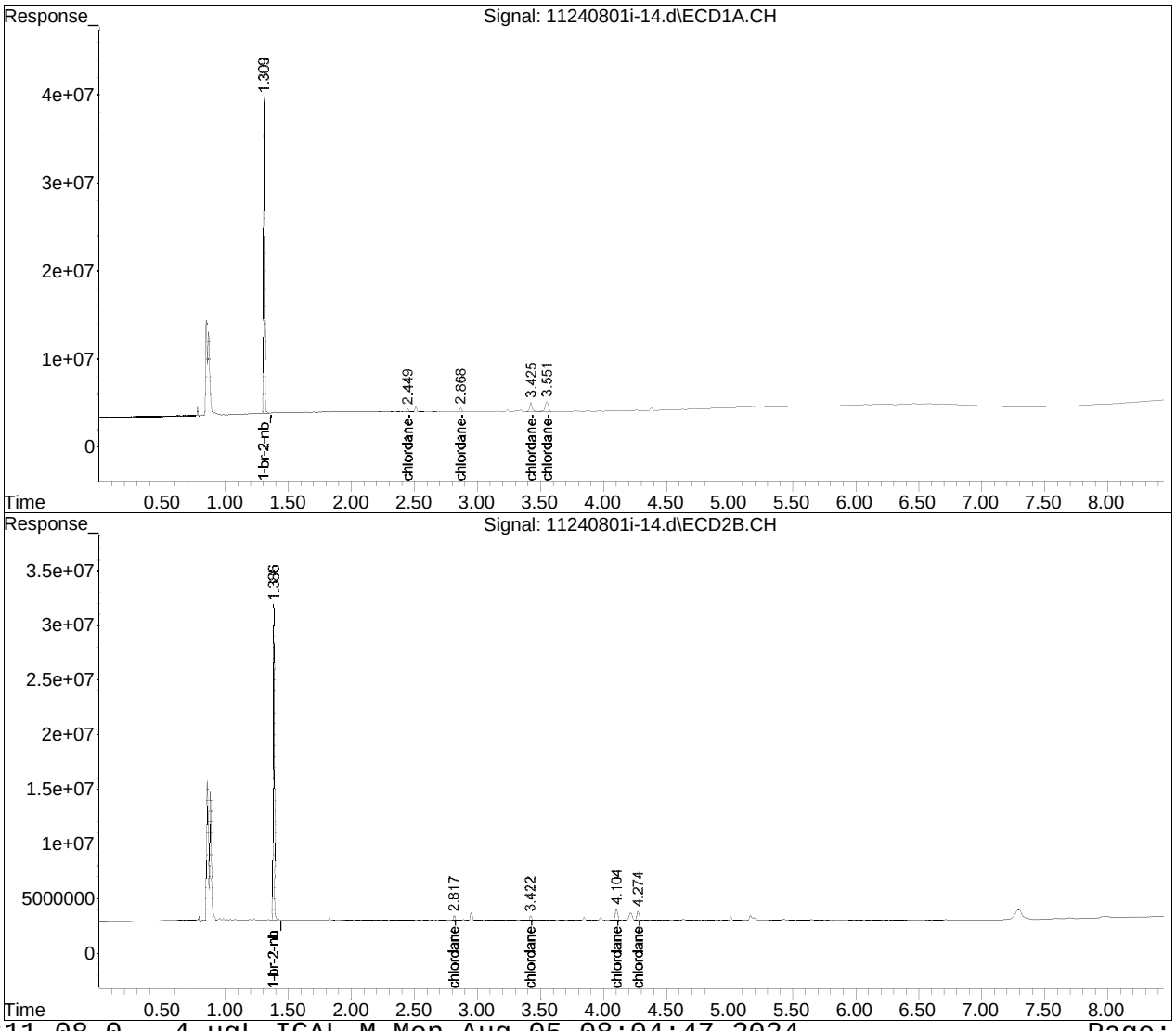
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

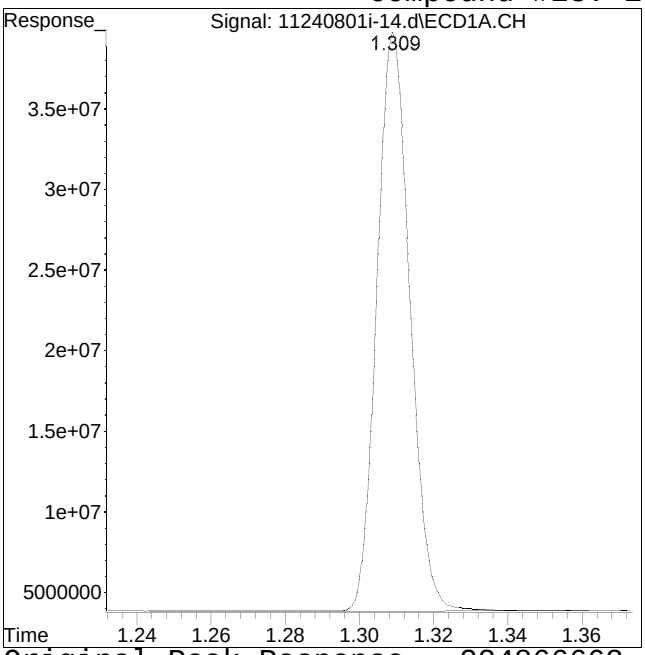


Manual Integration Report

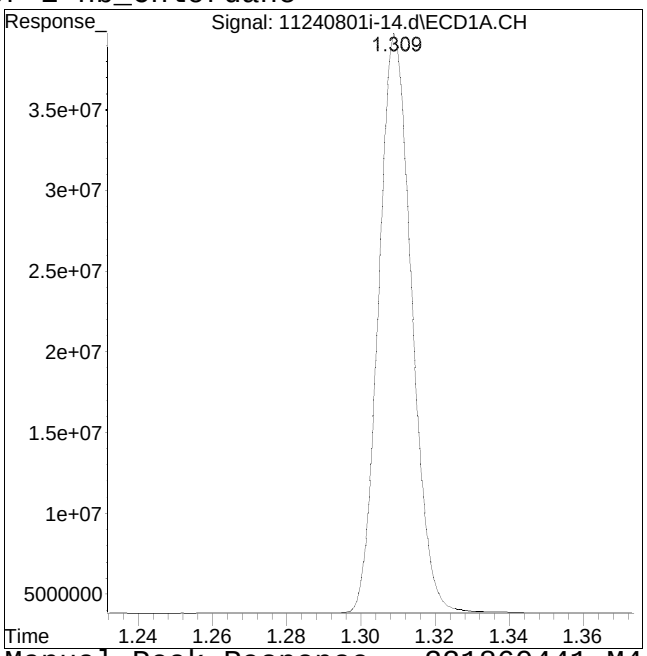
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 224866662



Manual Peak Response = 221860441 M4

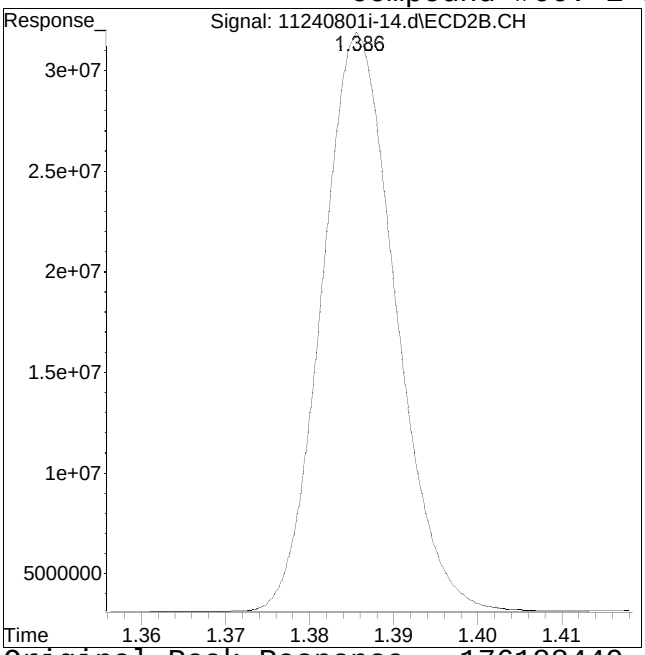
M4 = Poor automated baseline construction.

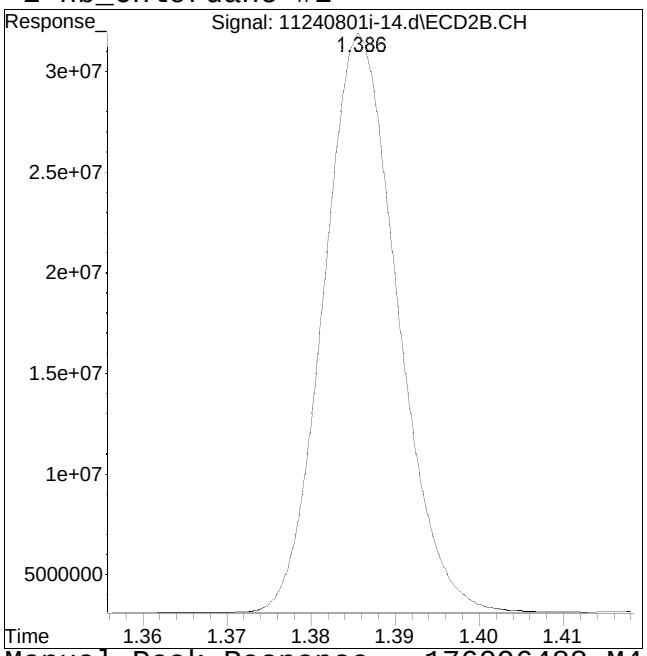
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2





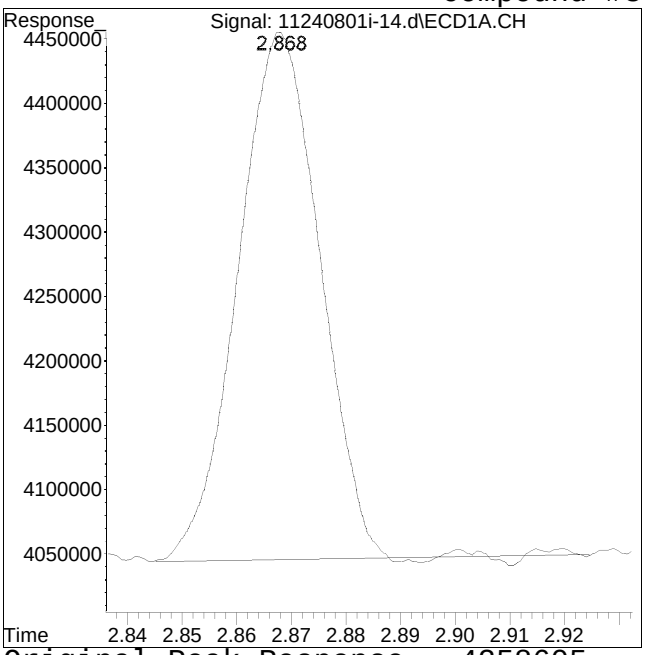
Original Peak Response = 176188440 Manual Peak Response = 176096488 M4
M4 = Poor automated baseline construction.

Manual Integration Report

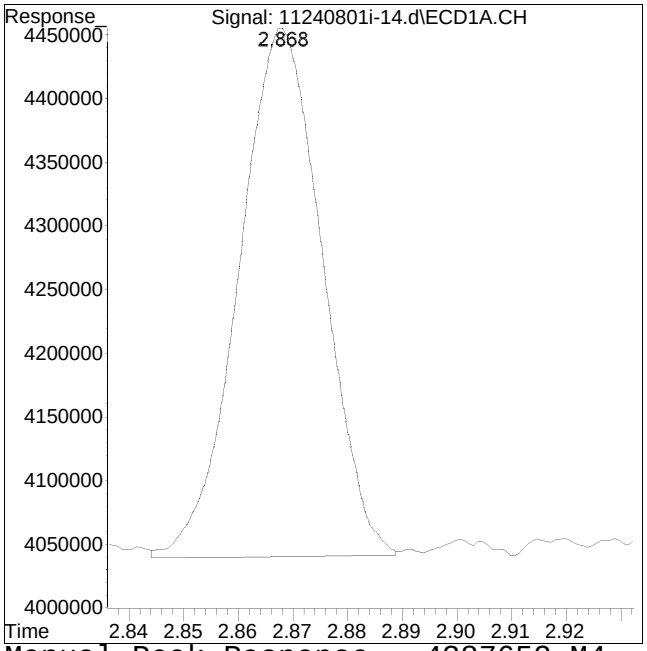
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #30: chlordane-3



Original Peak Response = 4258605



Manual Peak Response = 4387652 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	215.7E6	175.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	6270200	7260829	19.646	26.129
30) l1	chlordane-3	2.869	3.422	9042606	9017445	23.300	28.067M4
31) l1	chlordane-4	3.426	4.105	27276142	26803162	19.917	23.521
32) l1	chlordane-5	3.552	4.275	42068468	20966520	19.853	23.849
Sum	chlordane-1			84657416	64047956	NoCal	NoCal D
Average	chlordane-1					20.679	25.392
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

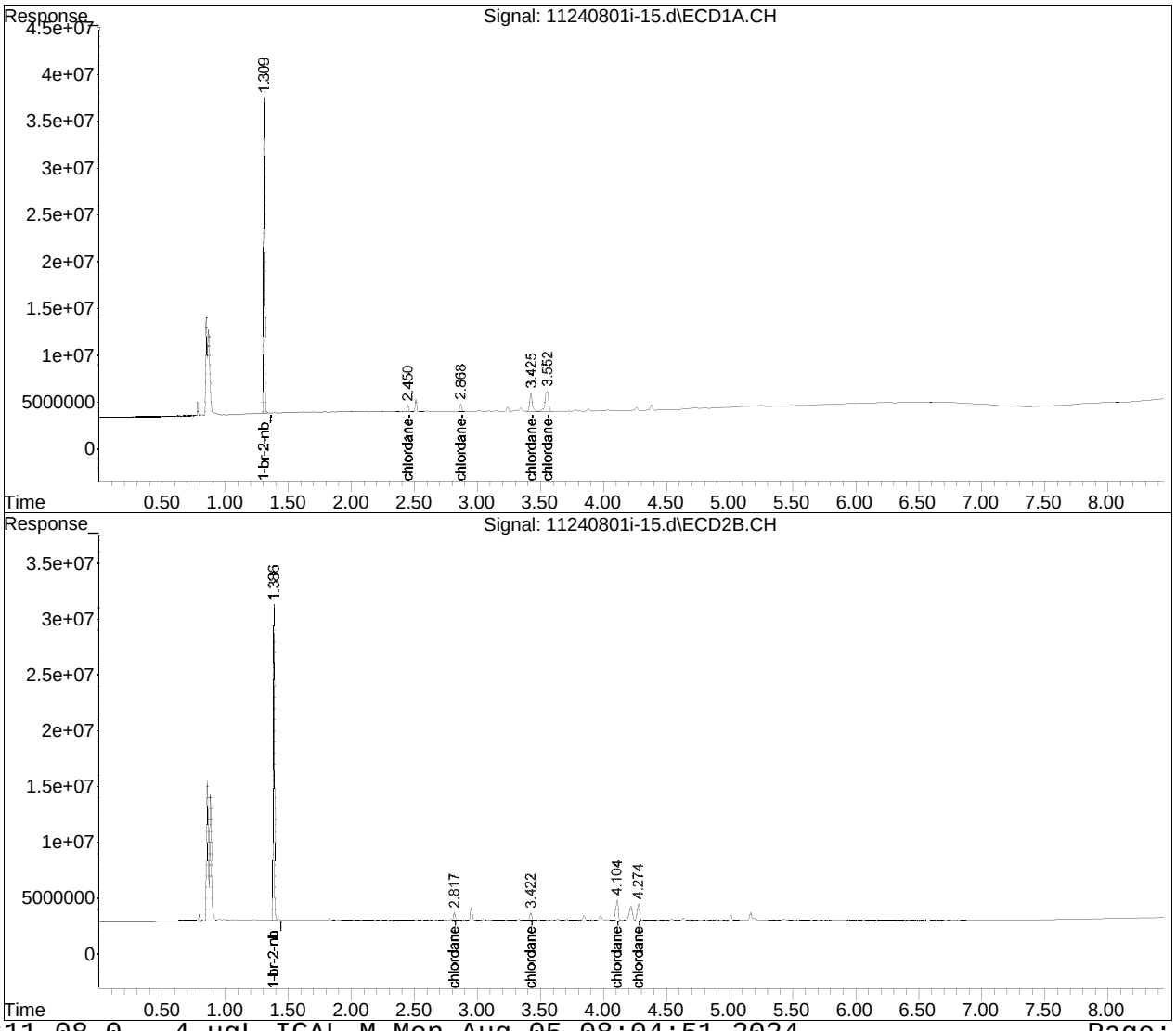
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

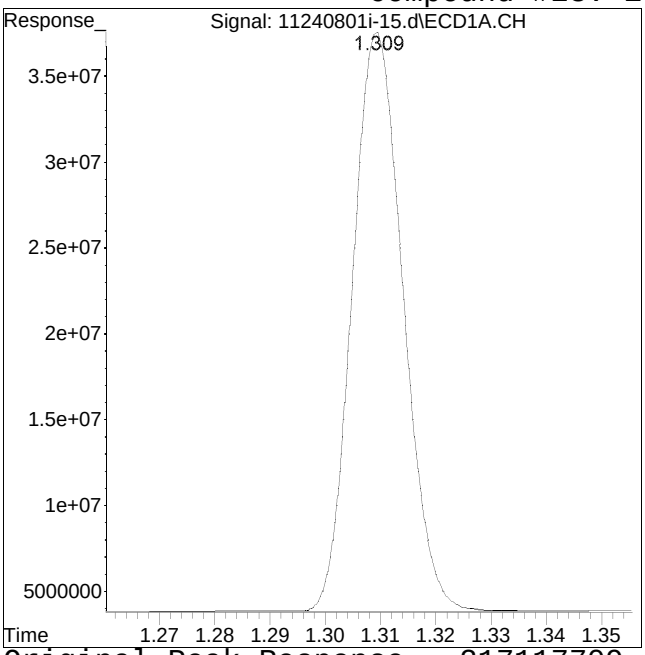
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



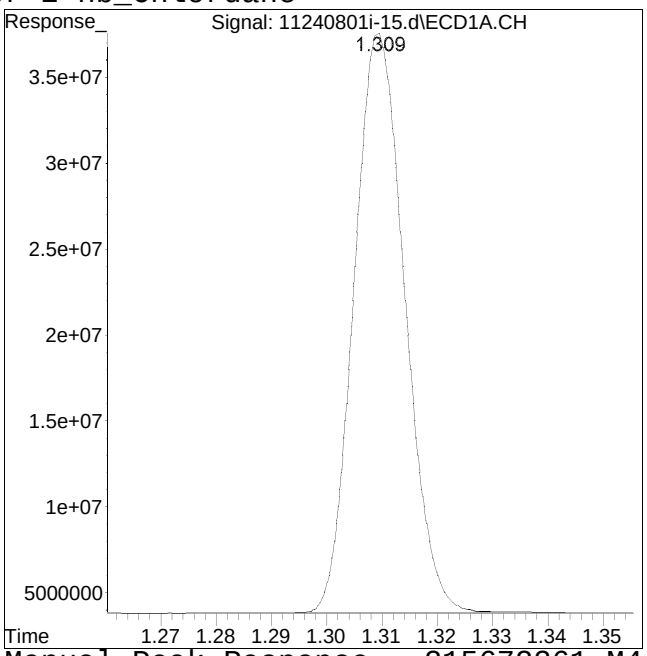
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 217117709



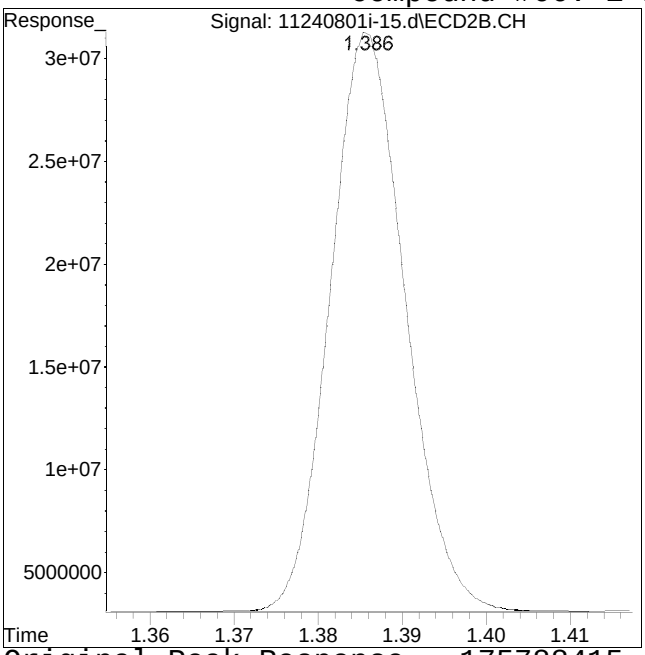
Manual Peak Response = 215672261 M4

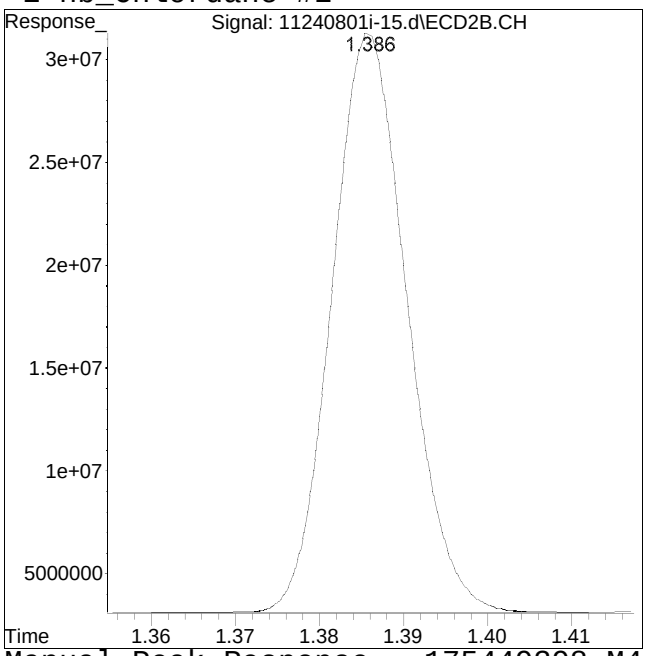
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #66: 1-br-2-nb_Chlordane #2



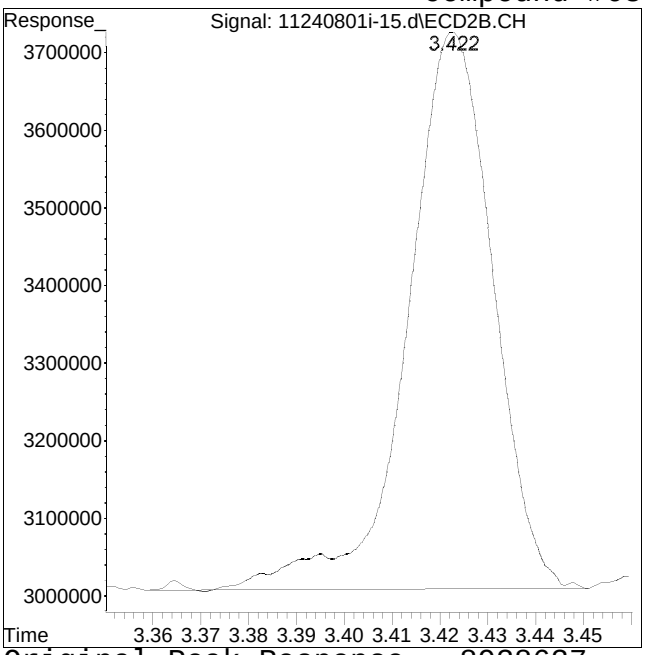


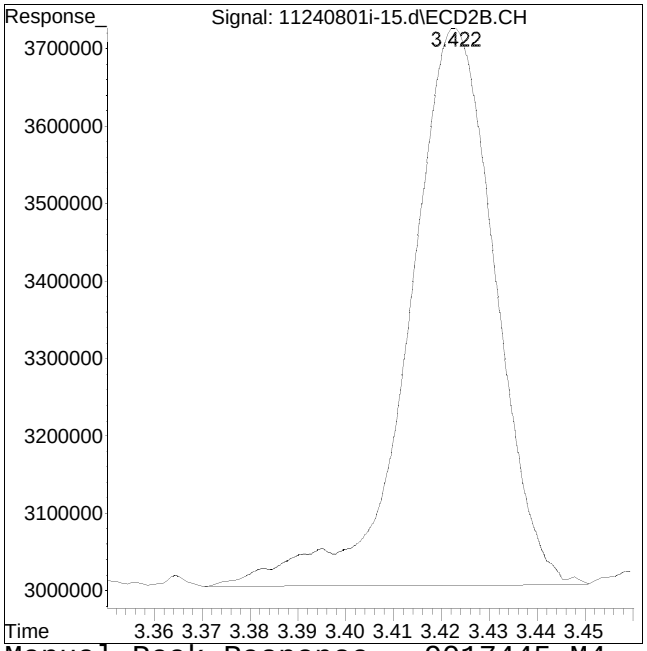
Original Peak Response = 175788415 Manual Peak Response = 175449398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #68: chlordane-3 #2





Original Peak Response = 8938637 Manual Peak Response = 9017445 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.310	1.386	213.1E6	177.4E6	25.000M3	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	31747496	31529401	100.863	115.730
30) l1	chlordane-3	2.868	3.423	42064633	39044033	112.438M3	126.559
31) l1	chlordane-4	3.426	4.105	133.2E6	117.6E6	98.086	102.618
32) l1	chlordane-5	3.553	4.275	208.7E6	92314998	99.611	104.846
Sum	chlordane-1			415.7E6	280.5E6	NoCal	NoCal D
Average	chlordane-1					102.749	112.438
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

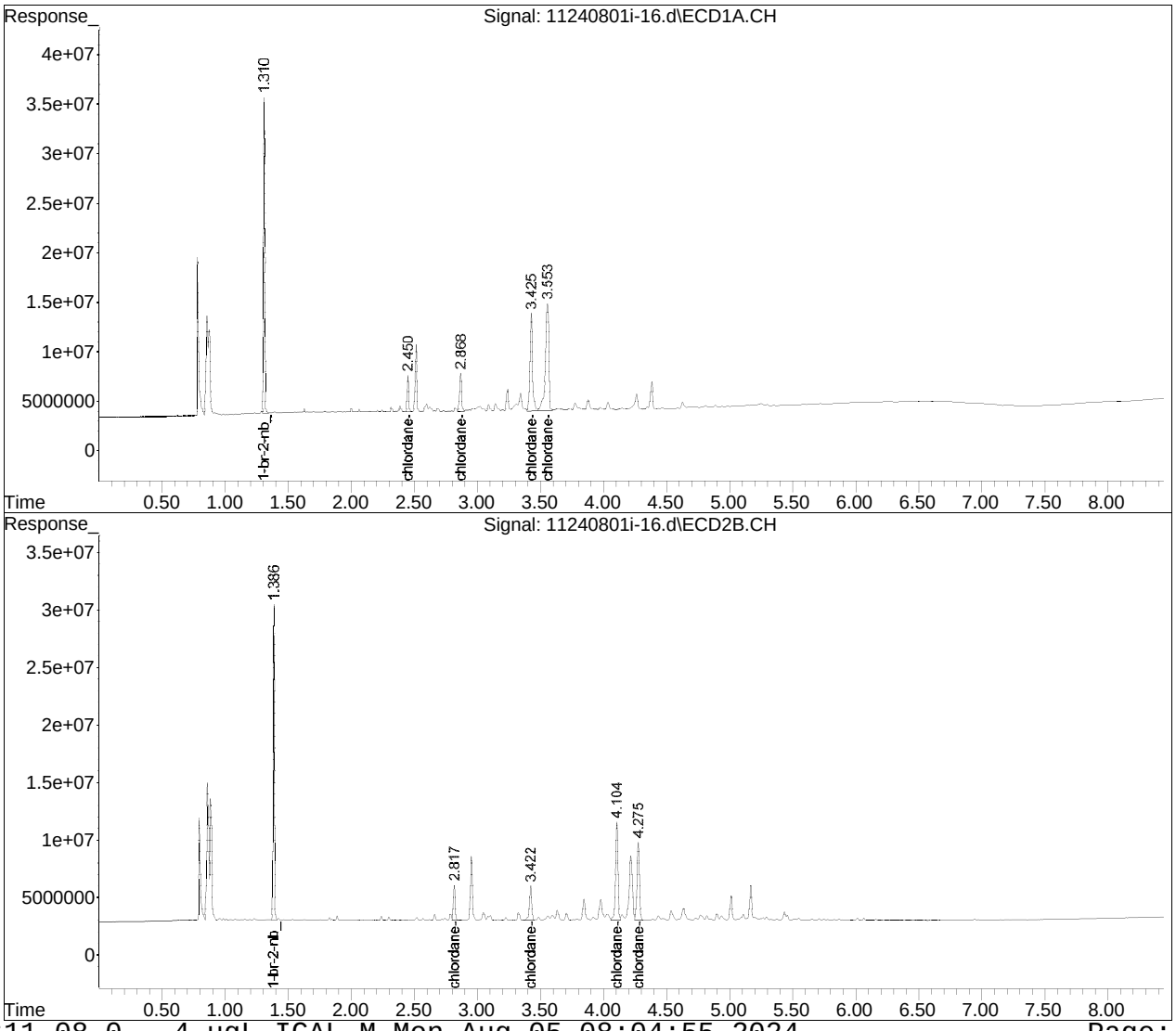
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

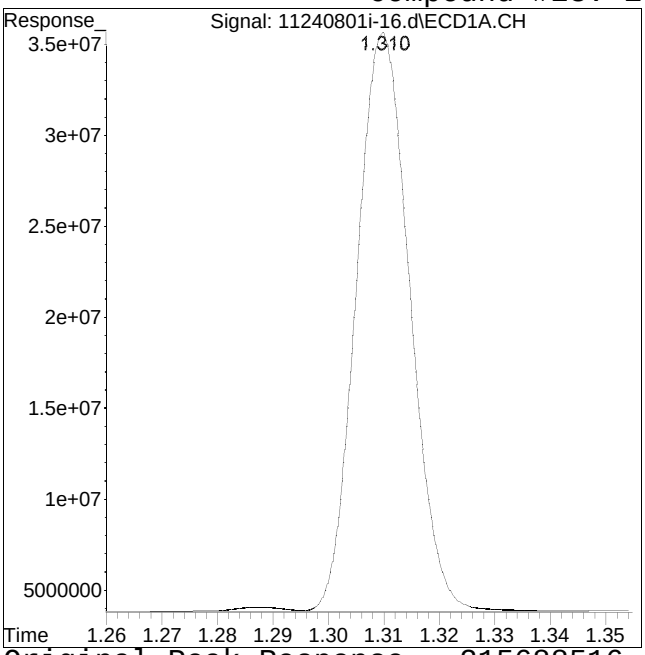


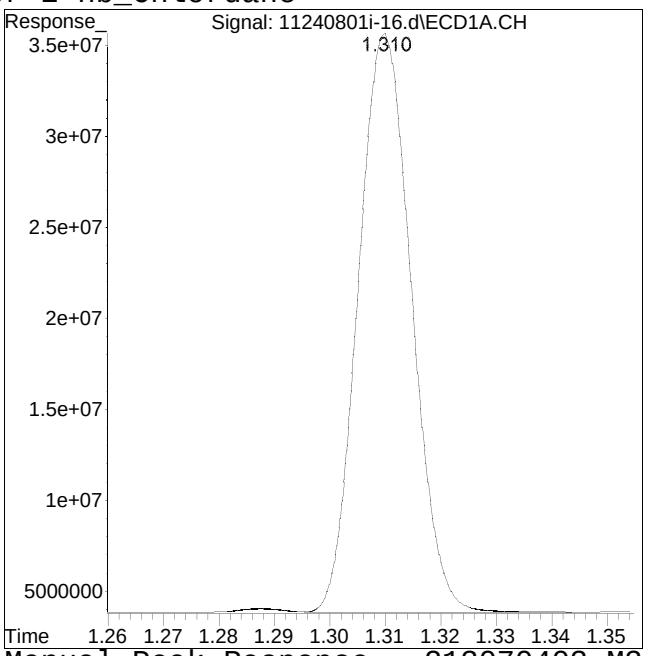
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #28: 1-br-2-nb_Chlordane





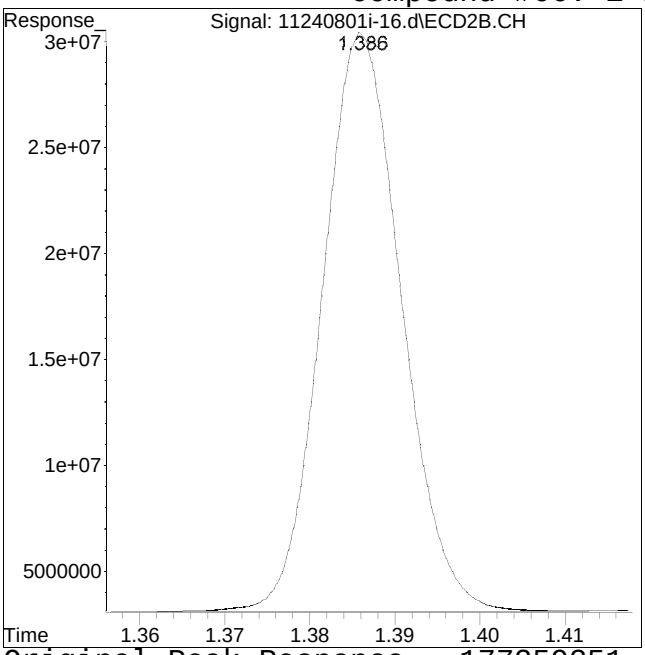
Original Peak Response = 215688516 Manual Peak Response = 213070403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

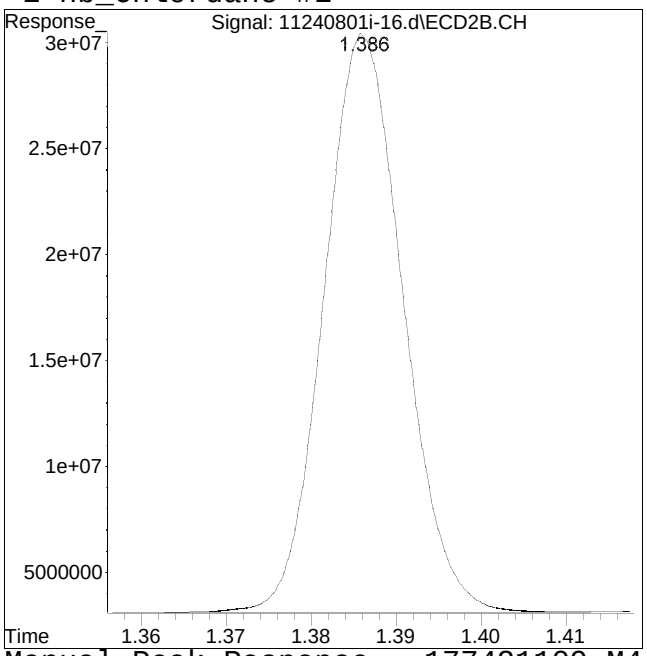
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 177259251



Manual Peak Response = 177421109 M4

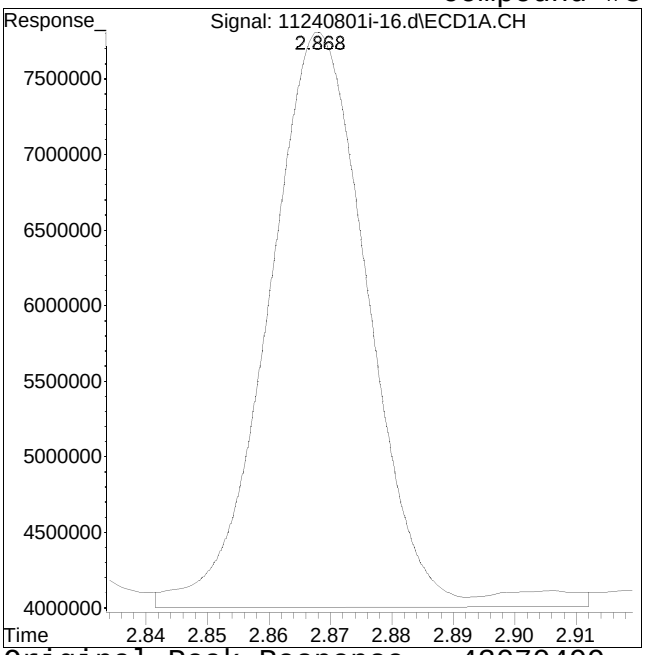
M4 = Poor automated baseline construction.

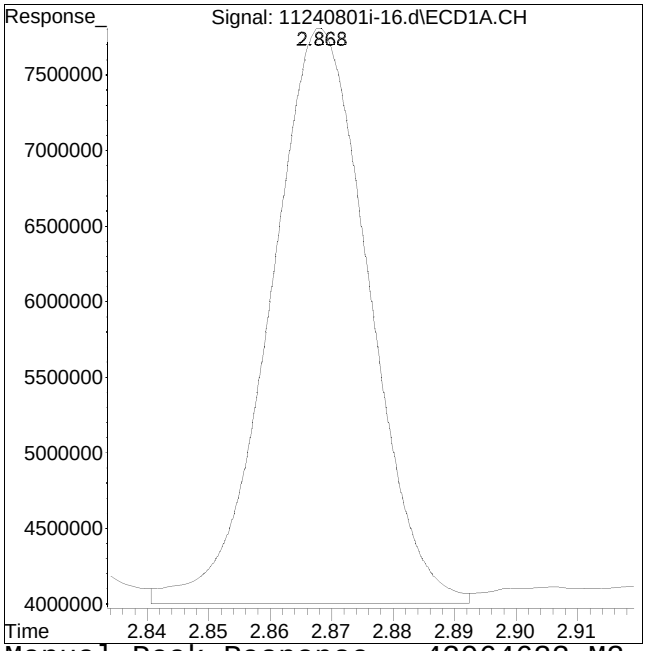
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #30: chlordane-3





Original Peak Response = 43070499 Manual Peak Response = 42064633 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	218.4E6	184.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	161.0E6	143.9E6	498.684	511.438
30) l1	chlordane-3	2.868	3.423	200.4E6	172.2E6	530.433	551.110
31) l1	chlordane-4	3.425	4.105	700.4E6	600.2E6	504.213	505.425
32) l1	chlordane-5	3.551	4.275	1089.8E6	462.7E6	510.023M3	507.838
Sum	chlordane-1			2151.6E6	1379.0E6	NoCal	NoCal D
Average	chlordane-1					510.838	518.953
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

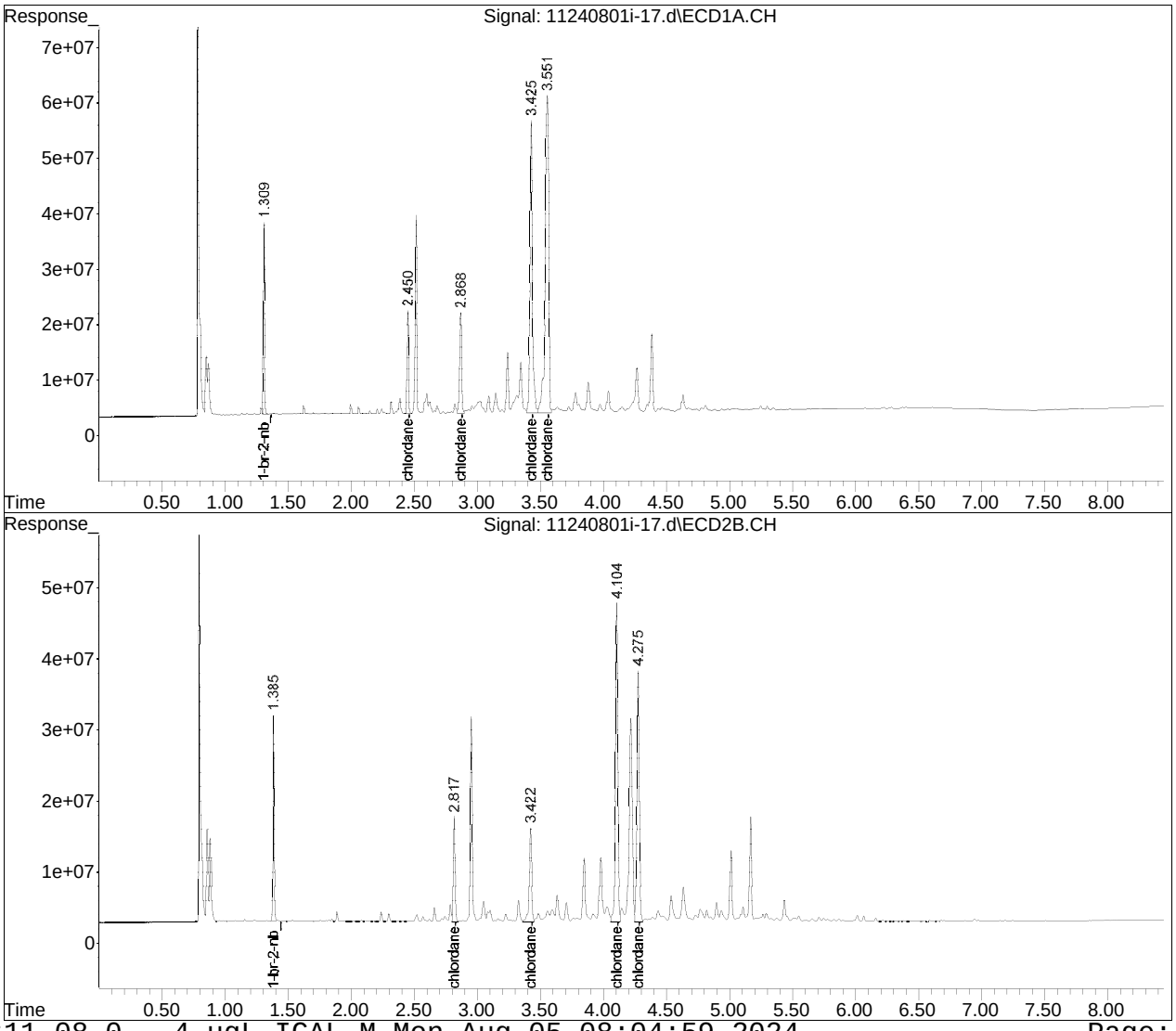
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

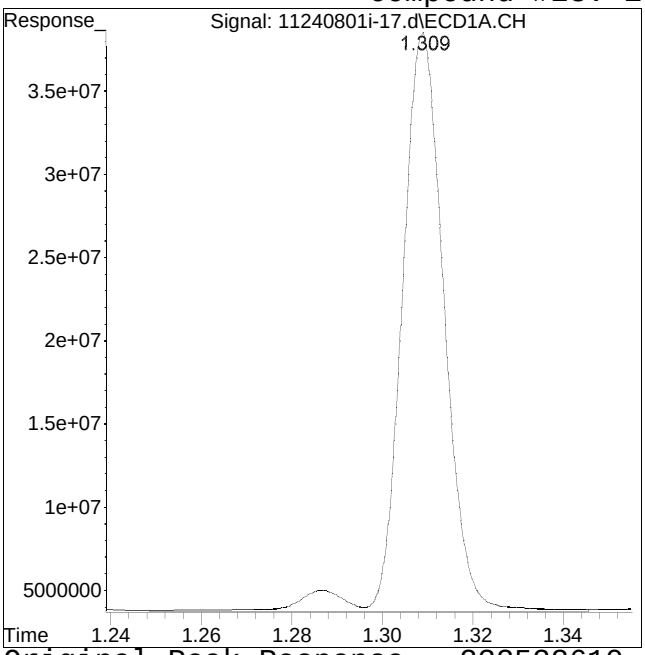


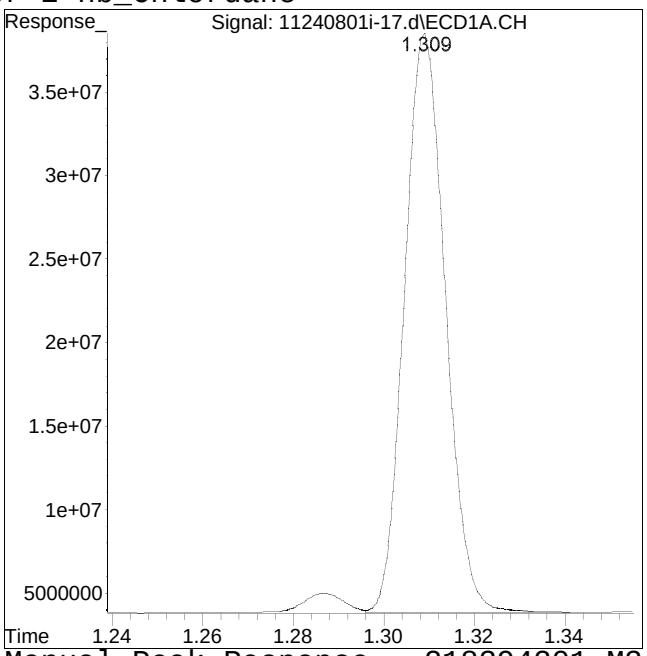
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 232522610 Manual Peak Response = 218394201 M3

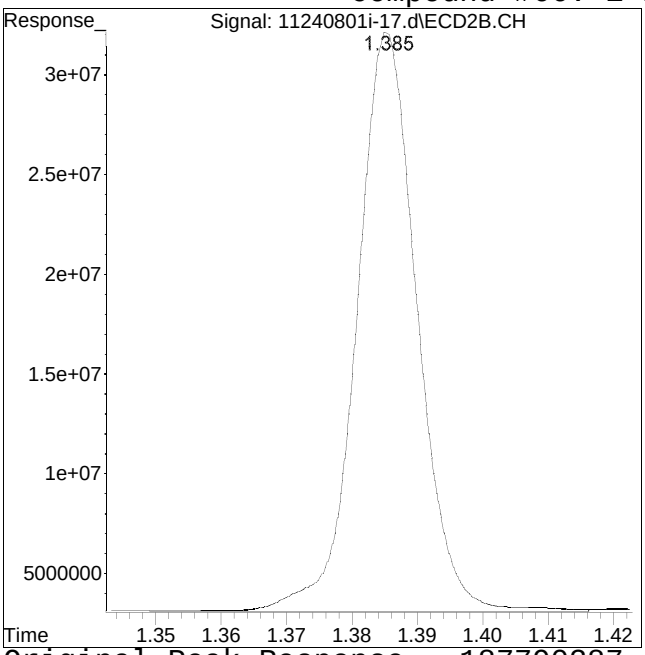
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

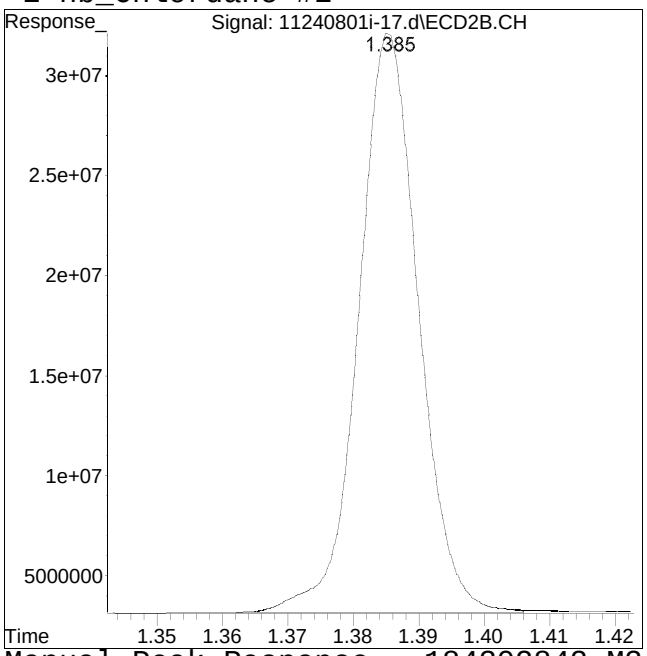
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #66: 1-br-2-nb_Chlordane #2





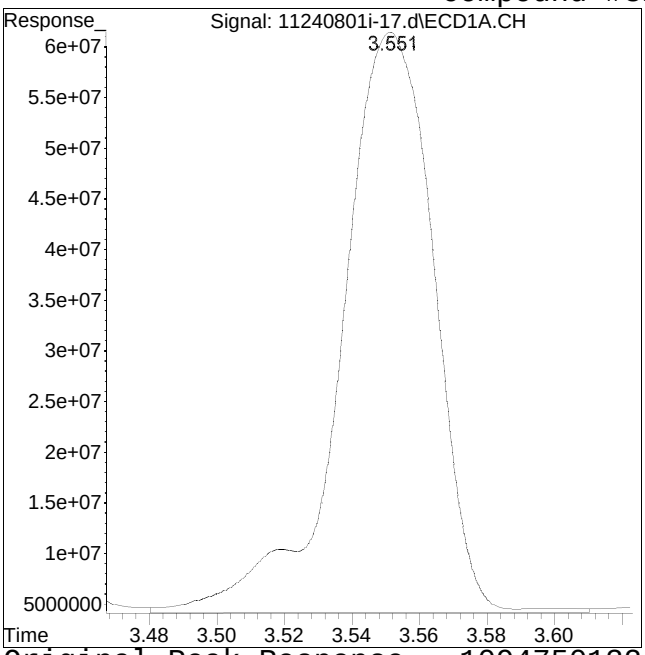
Original Peak Response = 187790387 Manual Peak Response = 184302842 M3

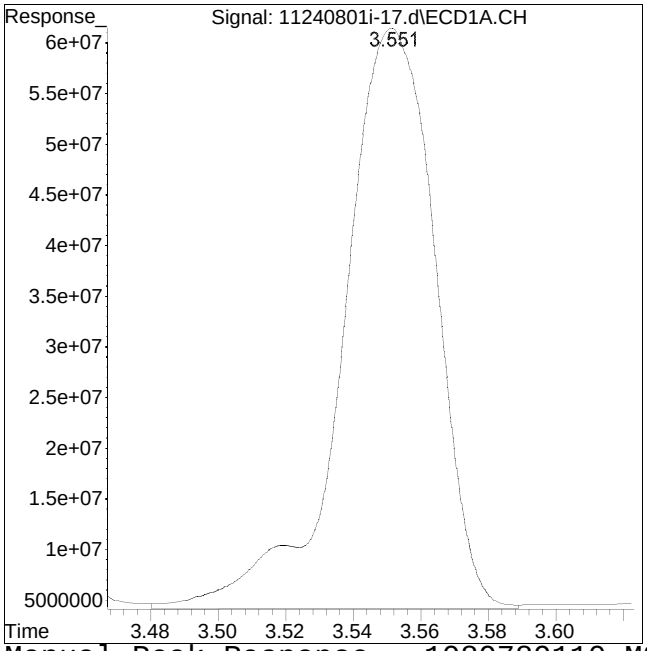
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #32: chlordane-5





Original Peak Response = 1094750132 Manual Peak Response = 1089789110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	220.2E6	184.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	332.9E6	292.8E6	NoCal	NoCal
30) l1	chlordane-3	2.867	3.422	400.7E6	336.8E6	NoCal M3	NoCal
31) l1	chlordane-4	3.425	4.104	1449.5E6	1235.6E6	NoCal	NoCal
32) l1	chlordane-5	3.552	4.275	2241.5E6	947.4E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

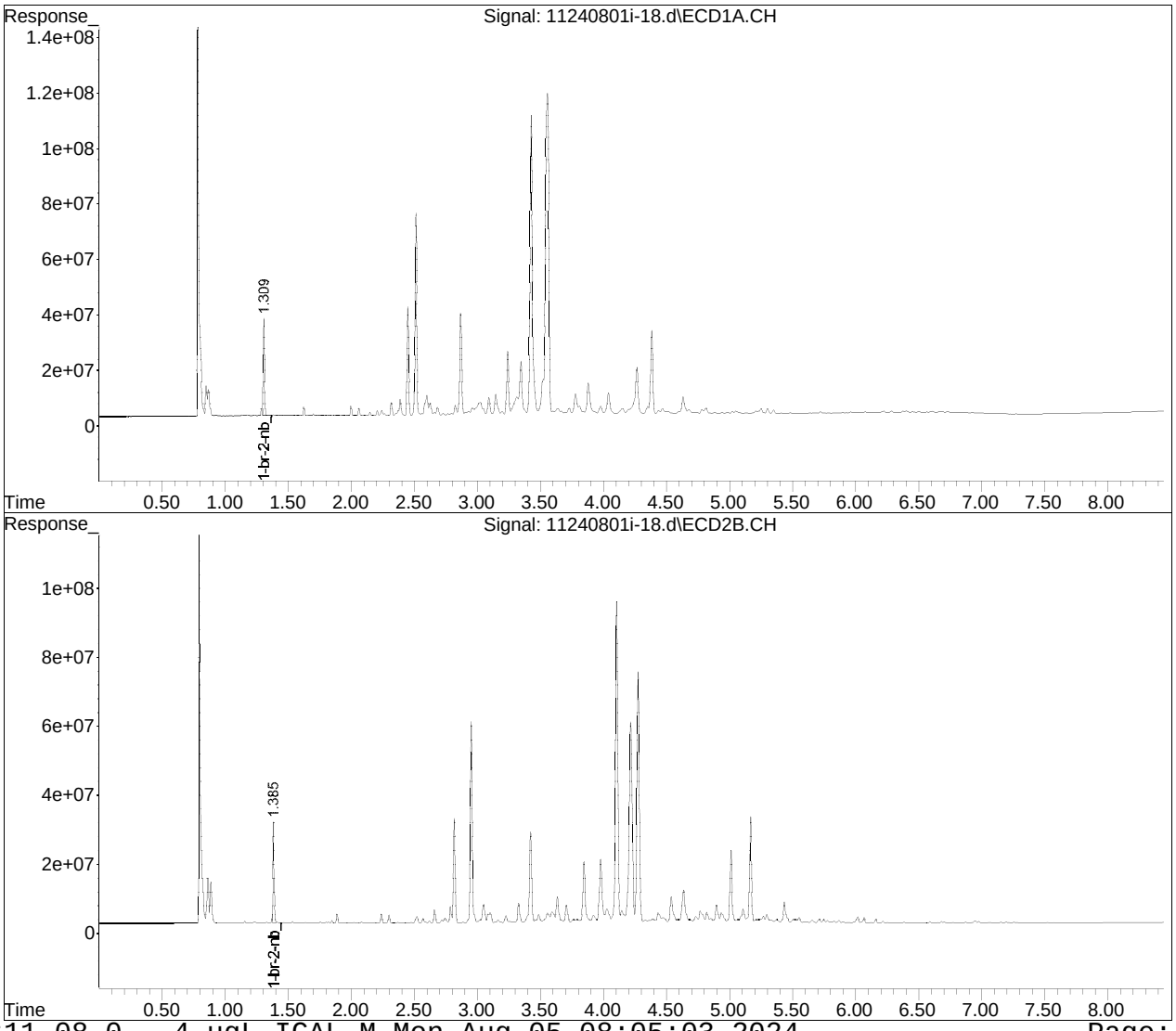
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

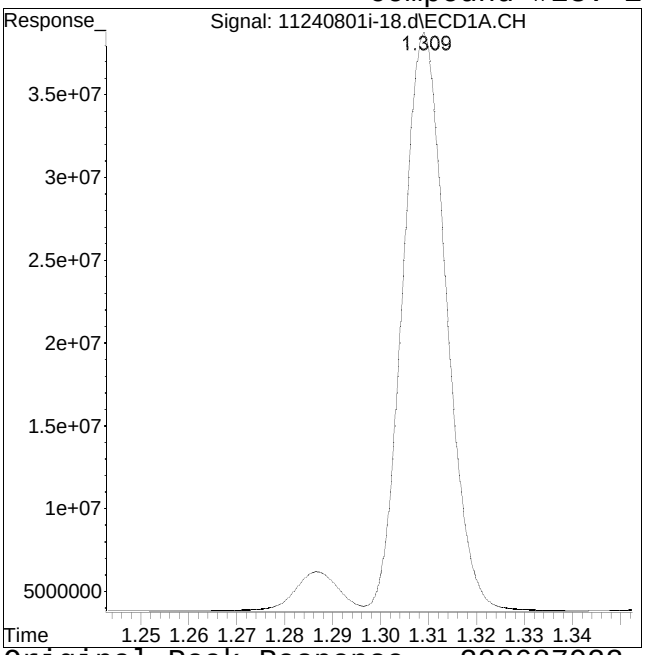
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

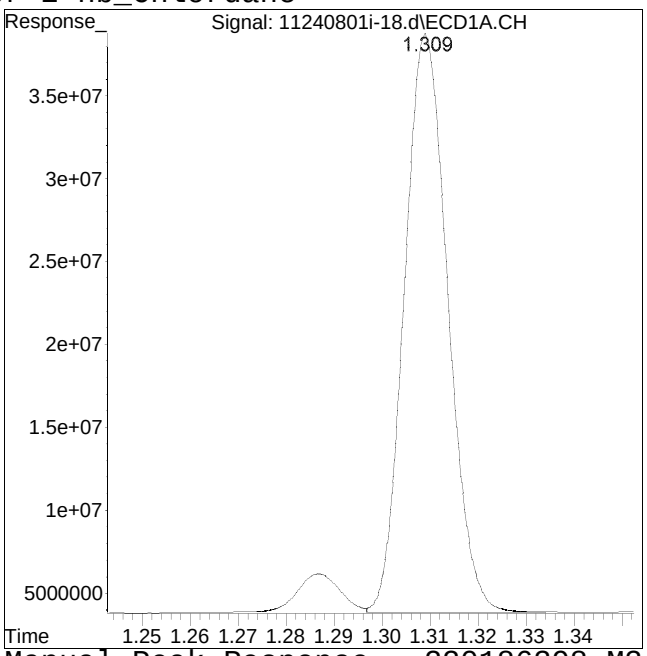


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #28: 1-br-2-nb_Chlordane





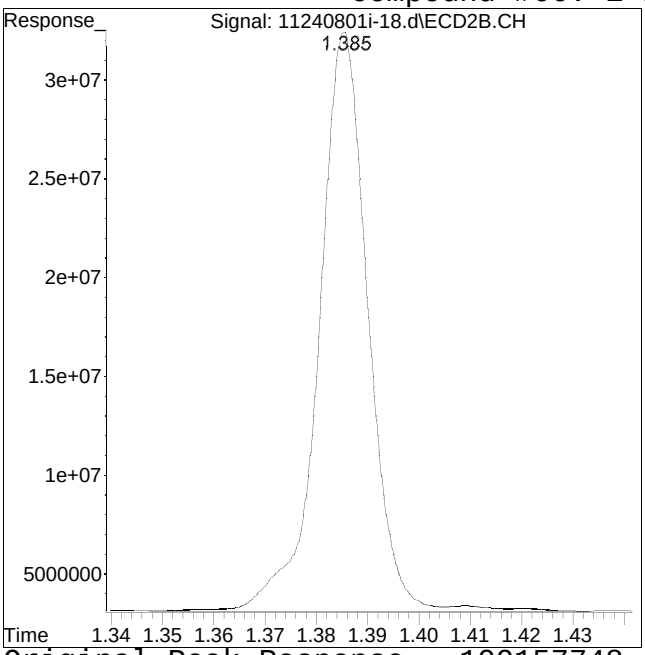
Original Peak Response = 238687922 Manual Peak Response = 220186398 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

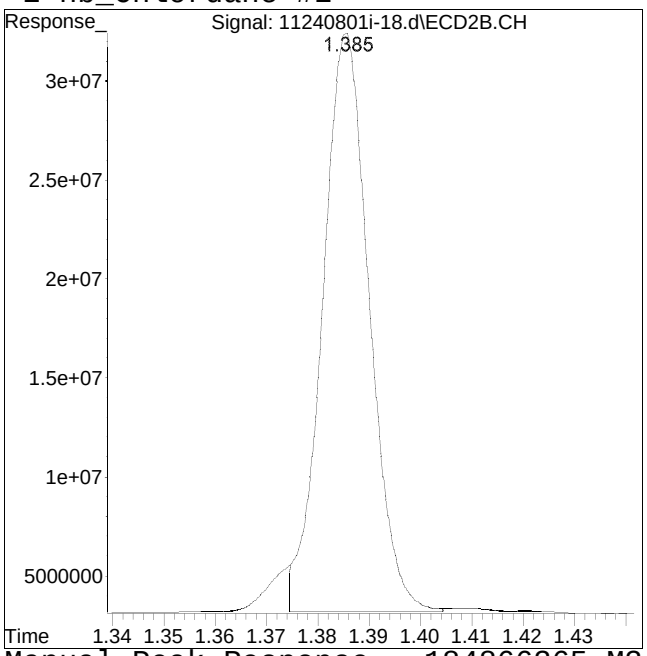
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 199157748 Manual Peak Response = 184866365 M3

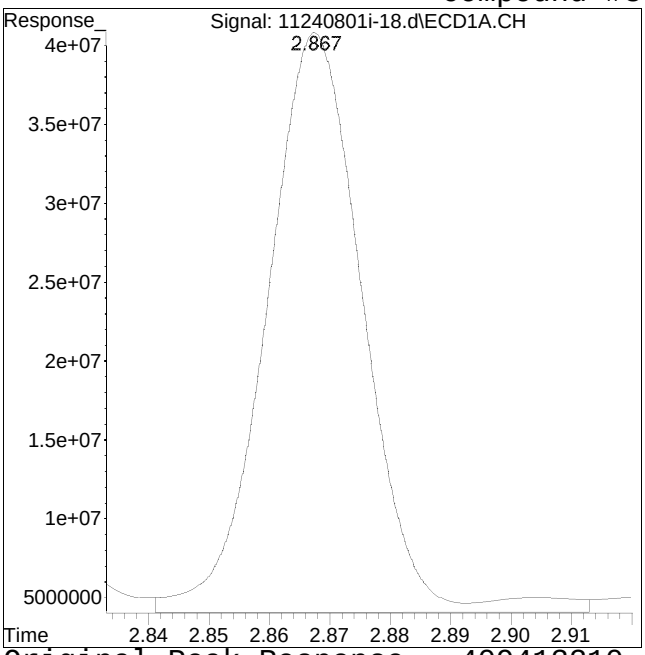
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

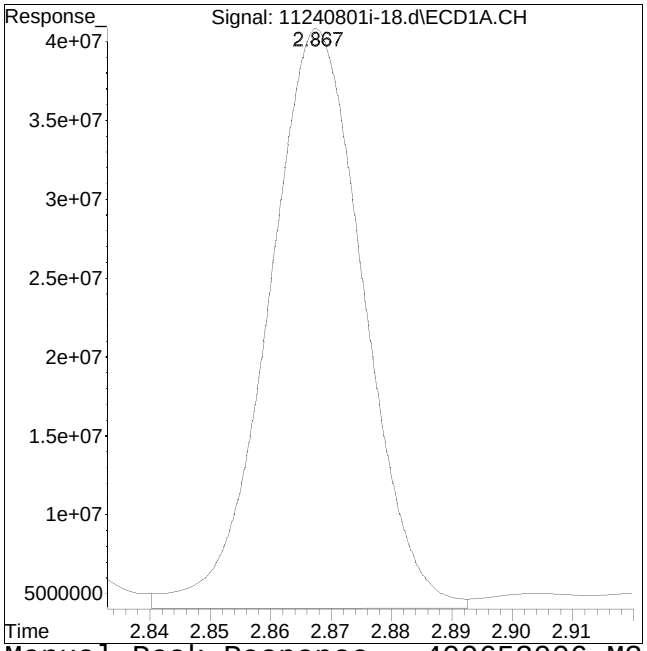
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #30: chlordane-3





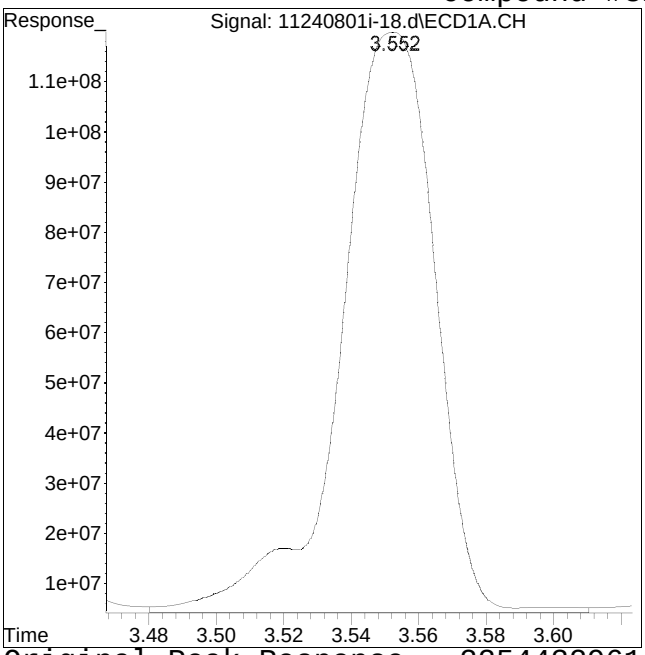
Original Peak Response = 409413310 Manual Peak Response = 400653006 M3

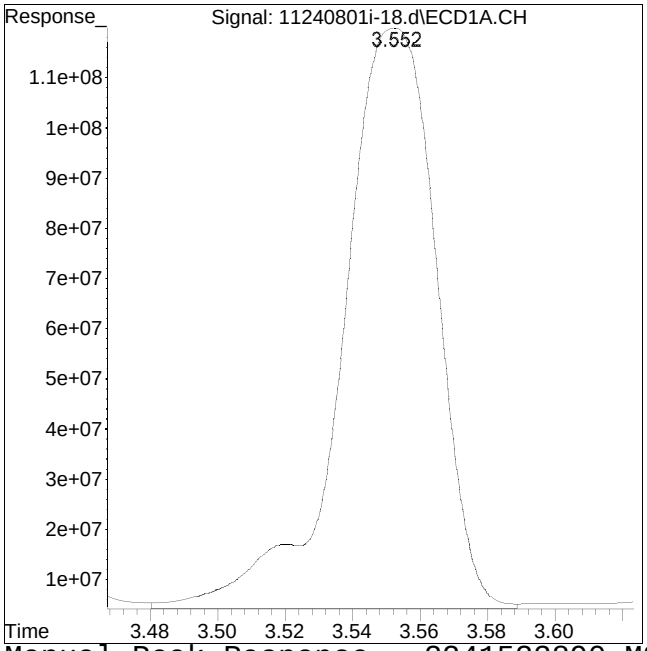
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #32: chlordane-5





Original Peak Response = 2254432961 Manual Peak Response = 2241533890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	225.5E6	184.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	675.3E6	585.8E6	1981.244	2009.090
30) l1	chlordane-3	2.867	3.423	788.9E6	650.4E6	1922.917M3	1939.223
31) l1	chlordane-4	3.425	4.105	2915.2E6	2486.4E6	1964.100	2020.689
32) l1	chlordane-5	3.552	4.275	4487.5E6	1905.6E6	1955.174	2019.653
Sum	chlordane-1			8866.9E6	5628.2E6	NoCal	NoCal D
Average	chlordane-1					1955.859	1997.164
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

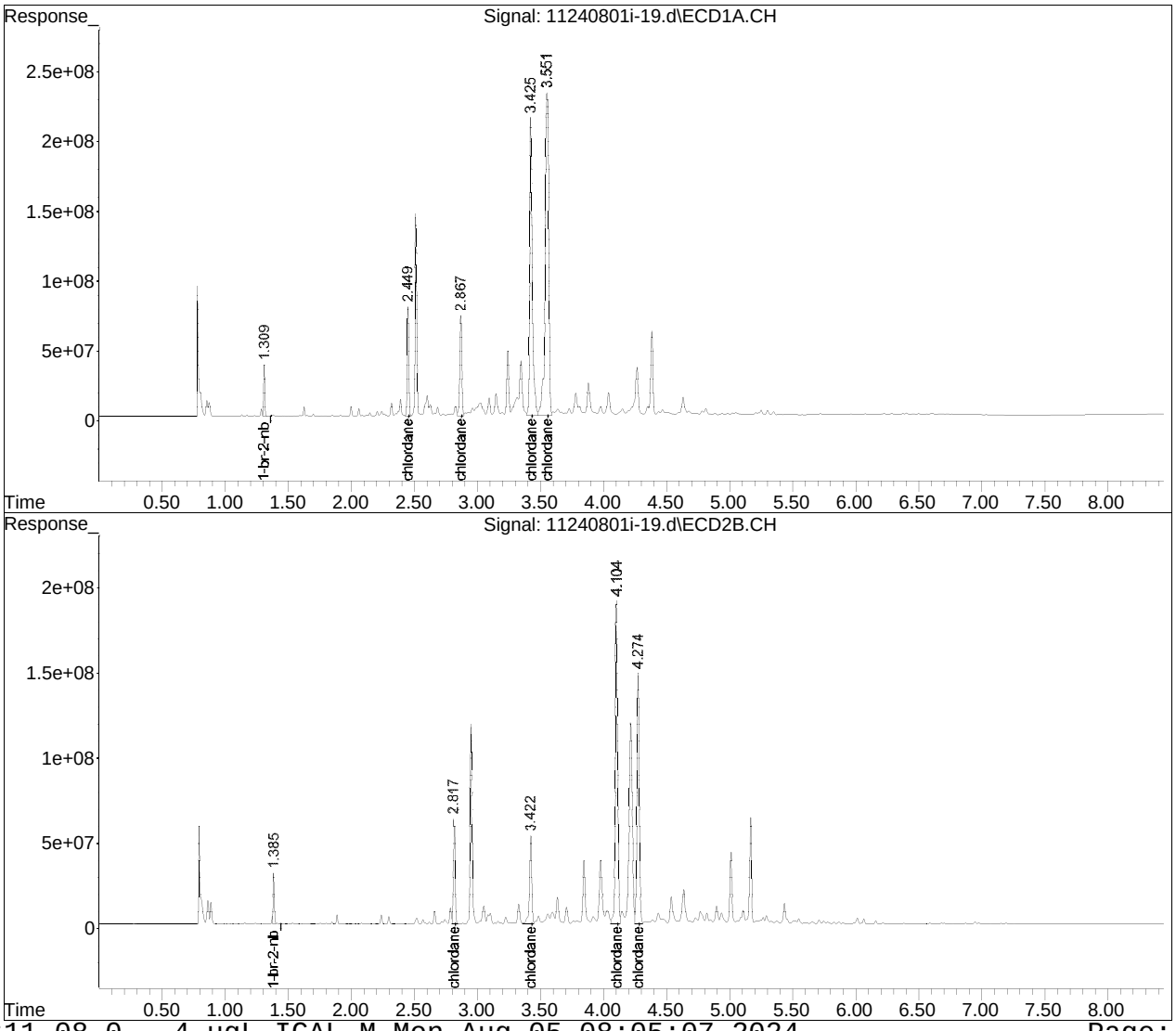
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

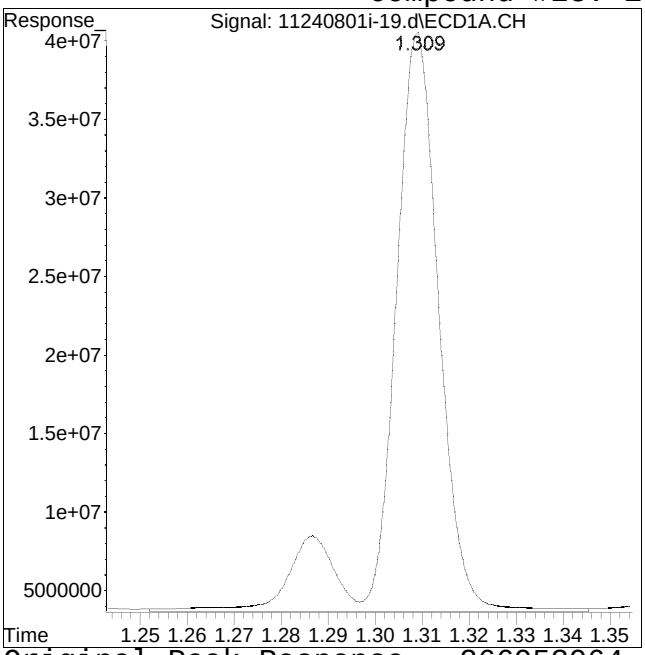
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

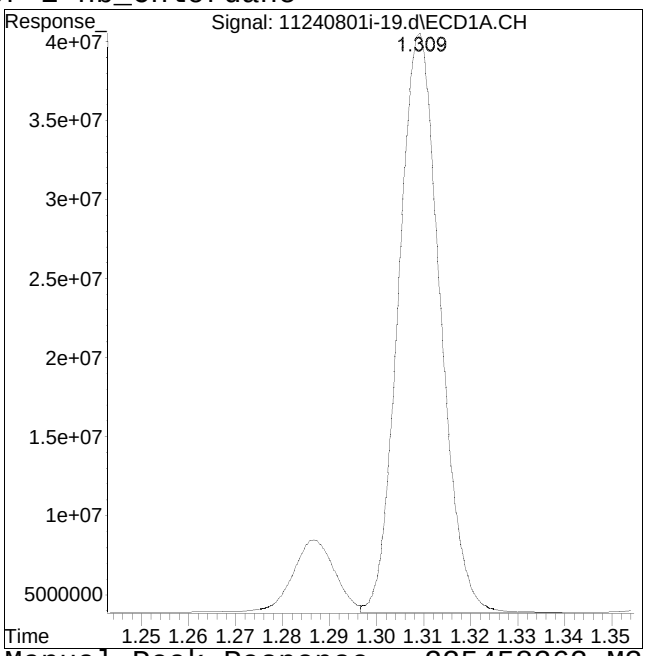


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #28: 1-br-2-nb_Chlordane





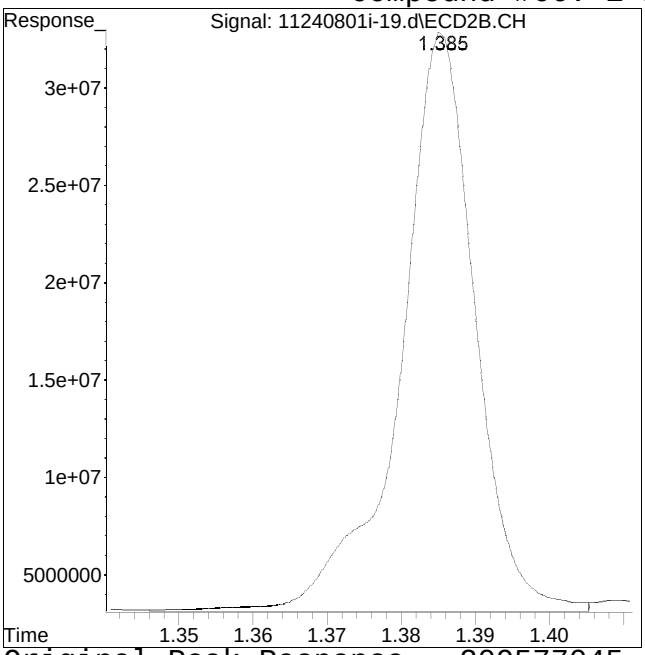
Original Peak Response = 266953964 Manual Peak Response = 225458262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

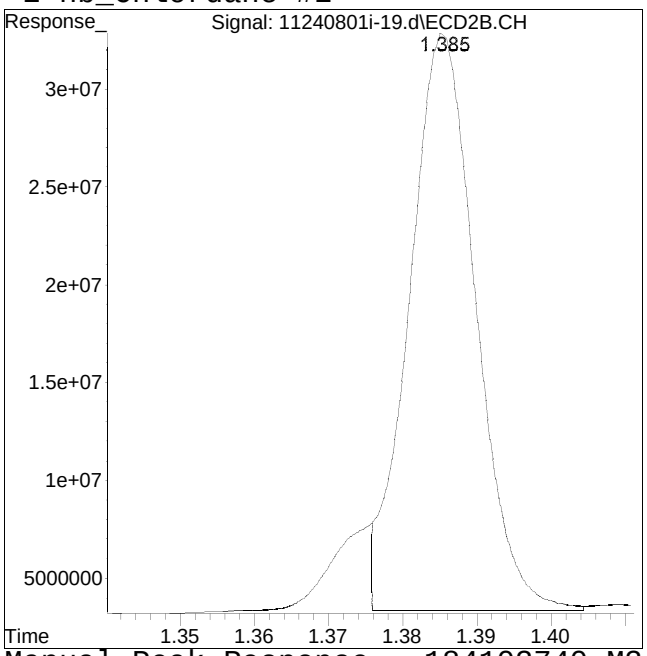
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-19.d
Date Inj'd : 8/1/2024 21:48
Sample : il9chlor,42e,,pp 11689 L2.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:06 pm

Compound #66: 1-br-2-nb_Chlordane #2





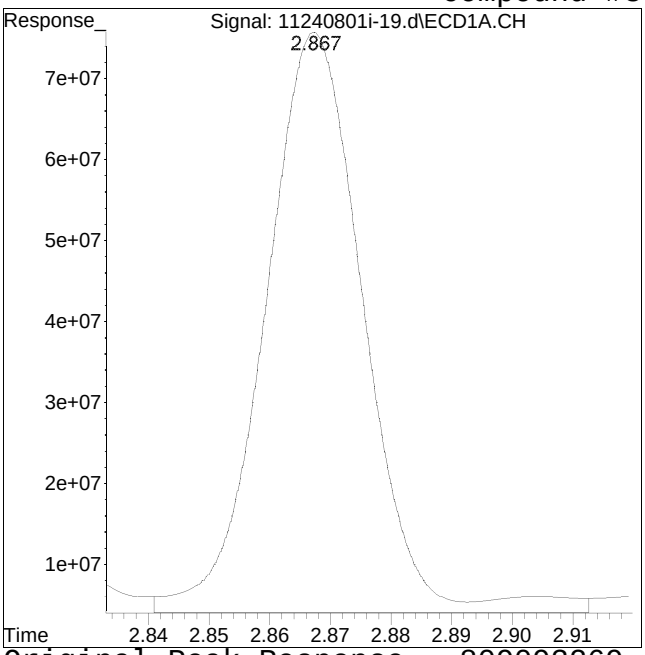
Original Peak Response = 209577045 Manual Peak Response = 184103740 M3

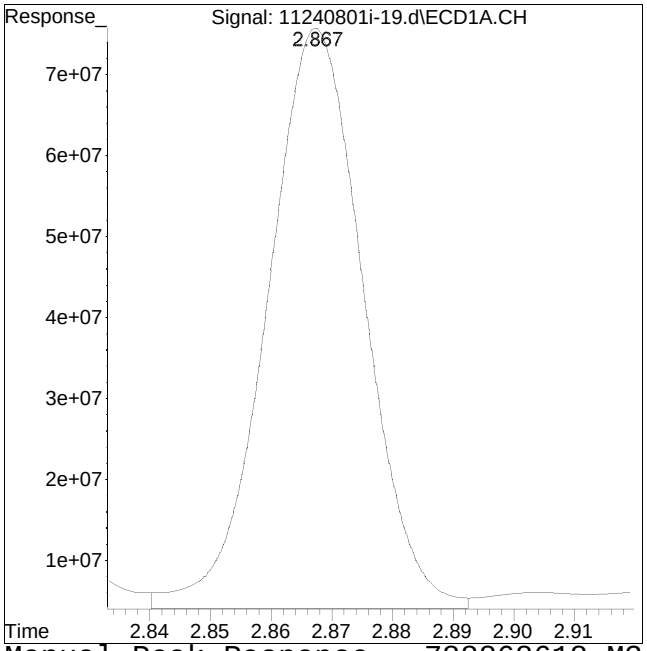
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #30: chlordane-3





Original Peak Response = 809093269 Manual Peak Response = 788868618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	240.1E6	211.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	1711.0E6	1485.0E6	4735.136	4428.395
30) l1	chlordane-3	2.868	3.422	1944.4E6	1582.5E6	4537.369	4174.870
31) l1	chlordane-4	3.425	4.105	7244.9E6	6226.2E6	4624.523	4386.798
32) l1	chlordane-5	3.553	4.275	11069.4E6	4784.6E6	4579.501M3	4397.515
Sum	chlordane-1			21969.7E6	14078.2E6	NoCal	NoCal D
Average	chlordane-1					4619.132	4346.894
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

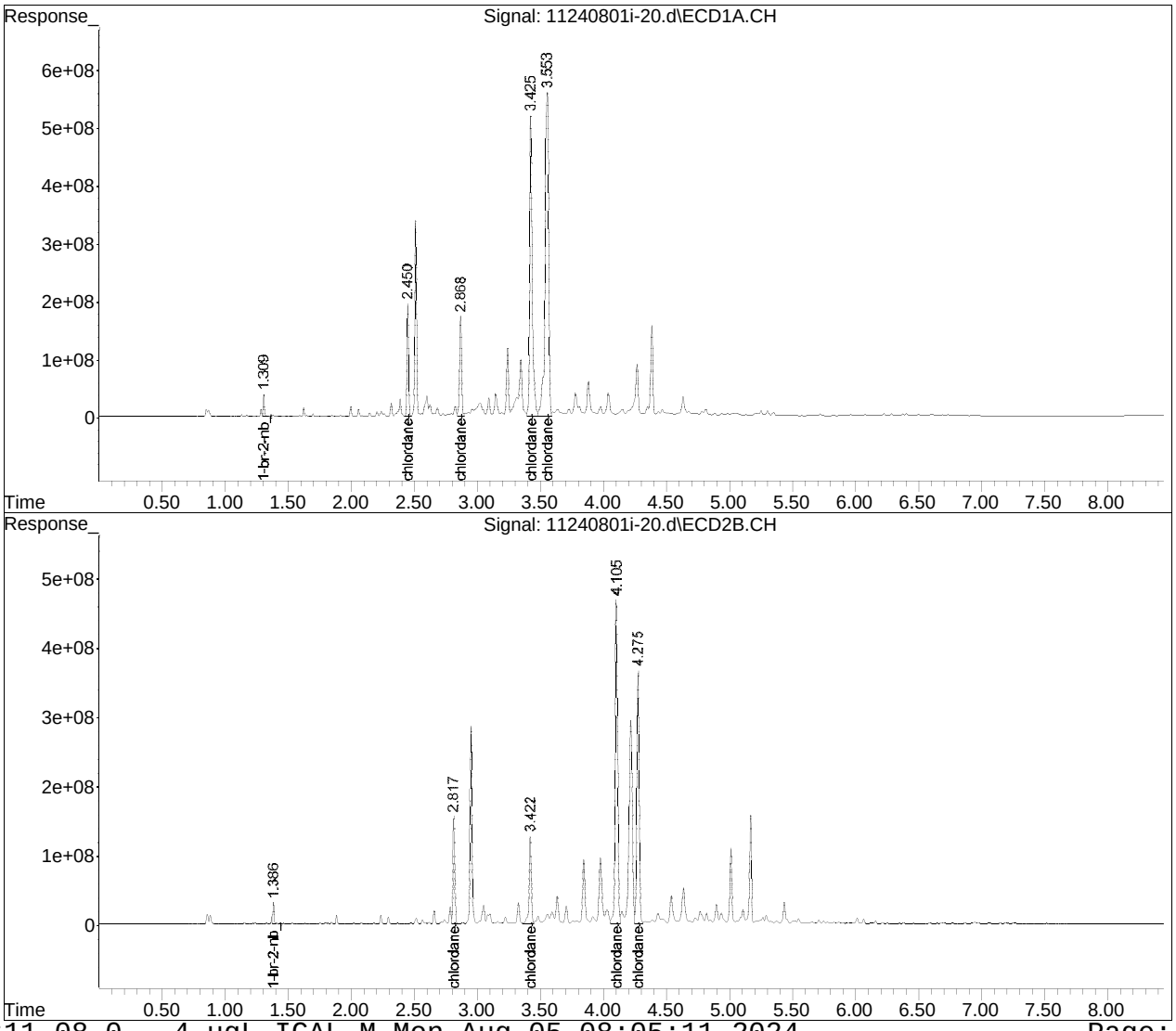
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

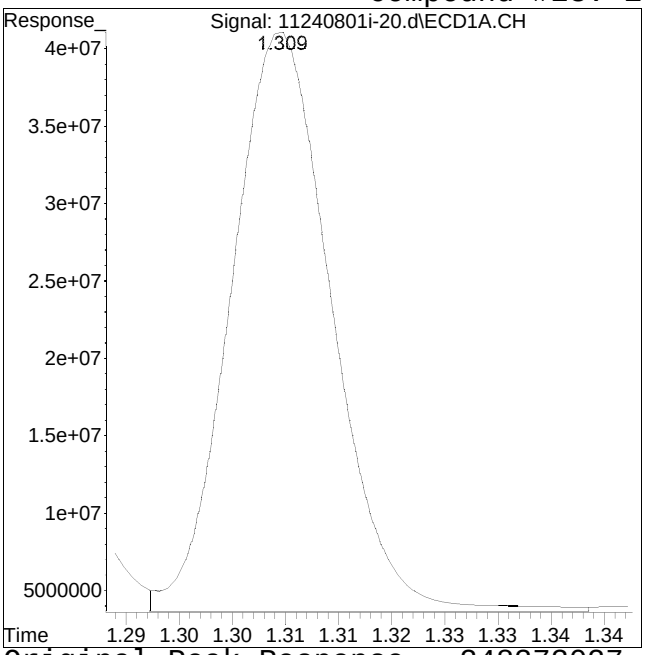


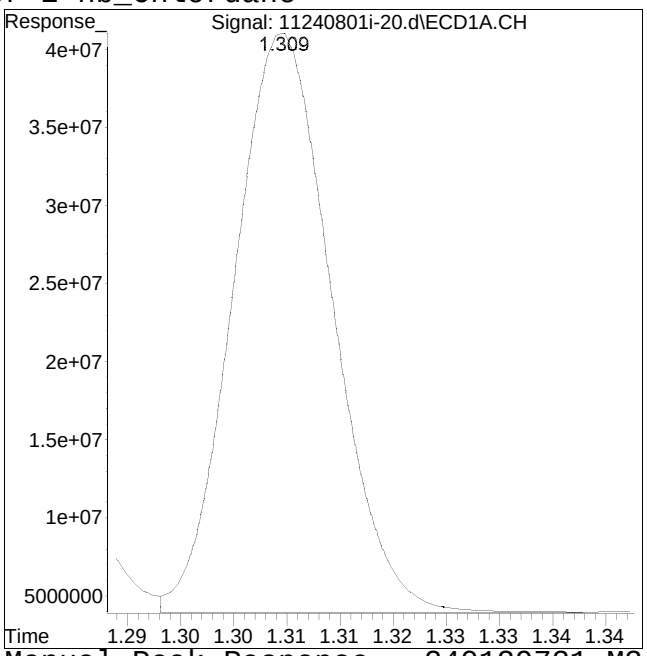
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 248373027 Manual Peak Response = 240129721 M3

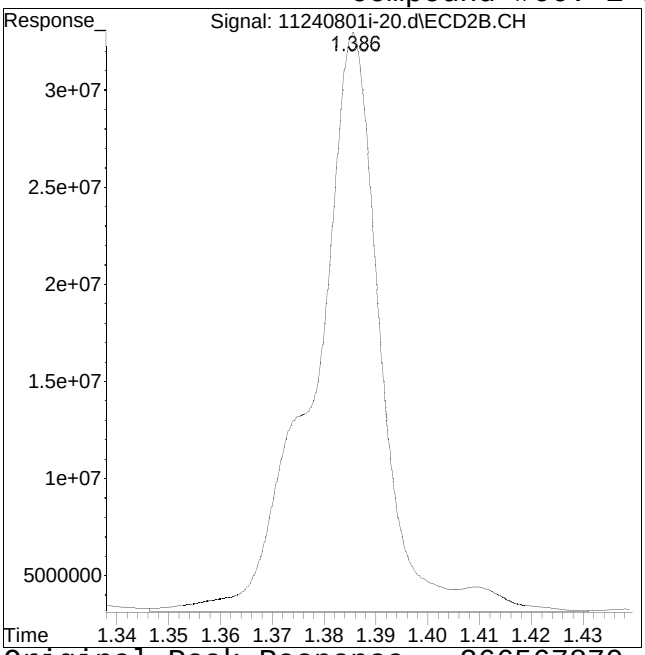
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

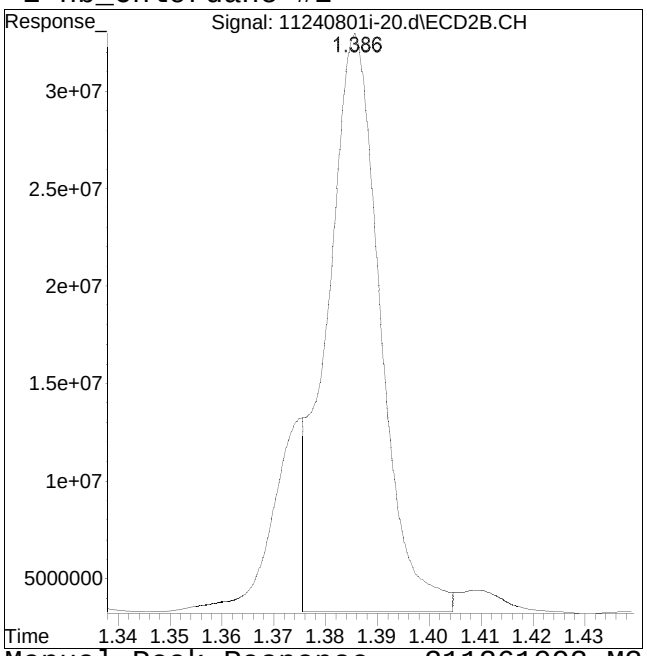
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #66: 1-br-2-nb_Chlordane #2





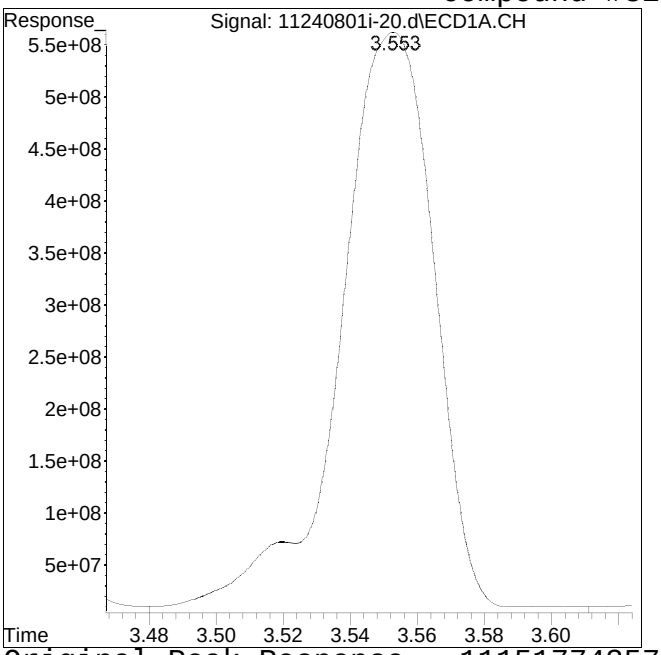
Original Peak Response = 266567870 Manual Peak Response = 211261092 M3

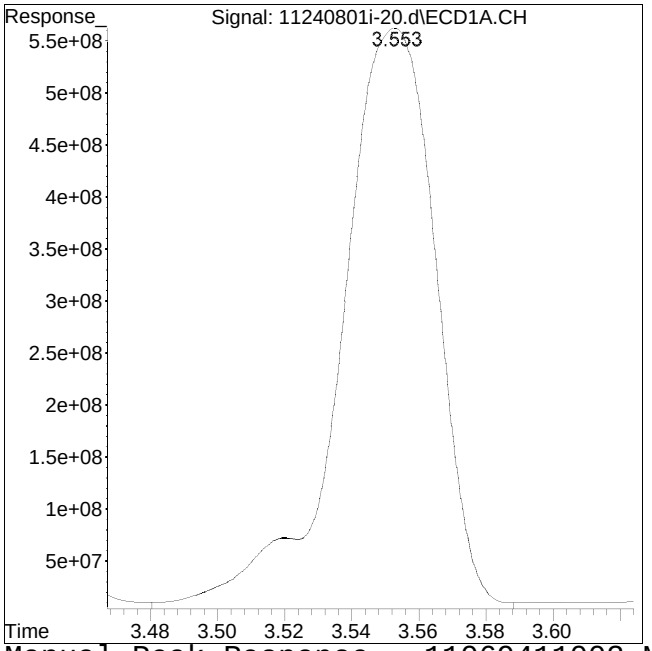
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-20.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:00 Instrument : Pest 11
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 8/2/2024 12:07 pm

Compound #32: chlordane-5





Original Peak Response = 11151774357 Manual Peak Response = 11069411003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	97	0.00
29	l1	chlordane-1		*1000.000	910.442	9.0	86	0.00
30	l1	chlordane-3		*1000.000	925.102	7.5	84	0.00
31	l1	chlordane-4		*1000.000	883.809	11.6	82	0.00
32	l1	chlordane-5		*1000.000	991.186	0.9	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	944.301	5.6	85	0.00
30	l1	chlordane-3		*1000.000	973.540	2.6	84	0.00
31	l1	chlordane-4		*1000.000	893.716	10.6	80	0.00
32	l1	chlordane-5		*1000.000	877.017	12.3	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	215.4E6	177.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	285.6E6	248.8E6	910.442	944.301
30) l1	chlordane-3	2.868	3.422	337.4E6	282.0E6	925.102	973.540
31) l1	chlordane-4	3.426	4.105	1185.4E6	988.3E6	883.809	893.716
32) l1	chlordane-5	3.550	4.275	2040.5E6	745.1E6	991.186	877.017
Sum	chlordane-1			3848.9E6	2264.2E6	NoCal	NoCal D
Average	chlordane-1					927.635	922.144
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

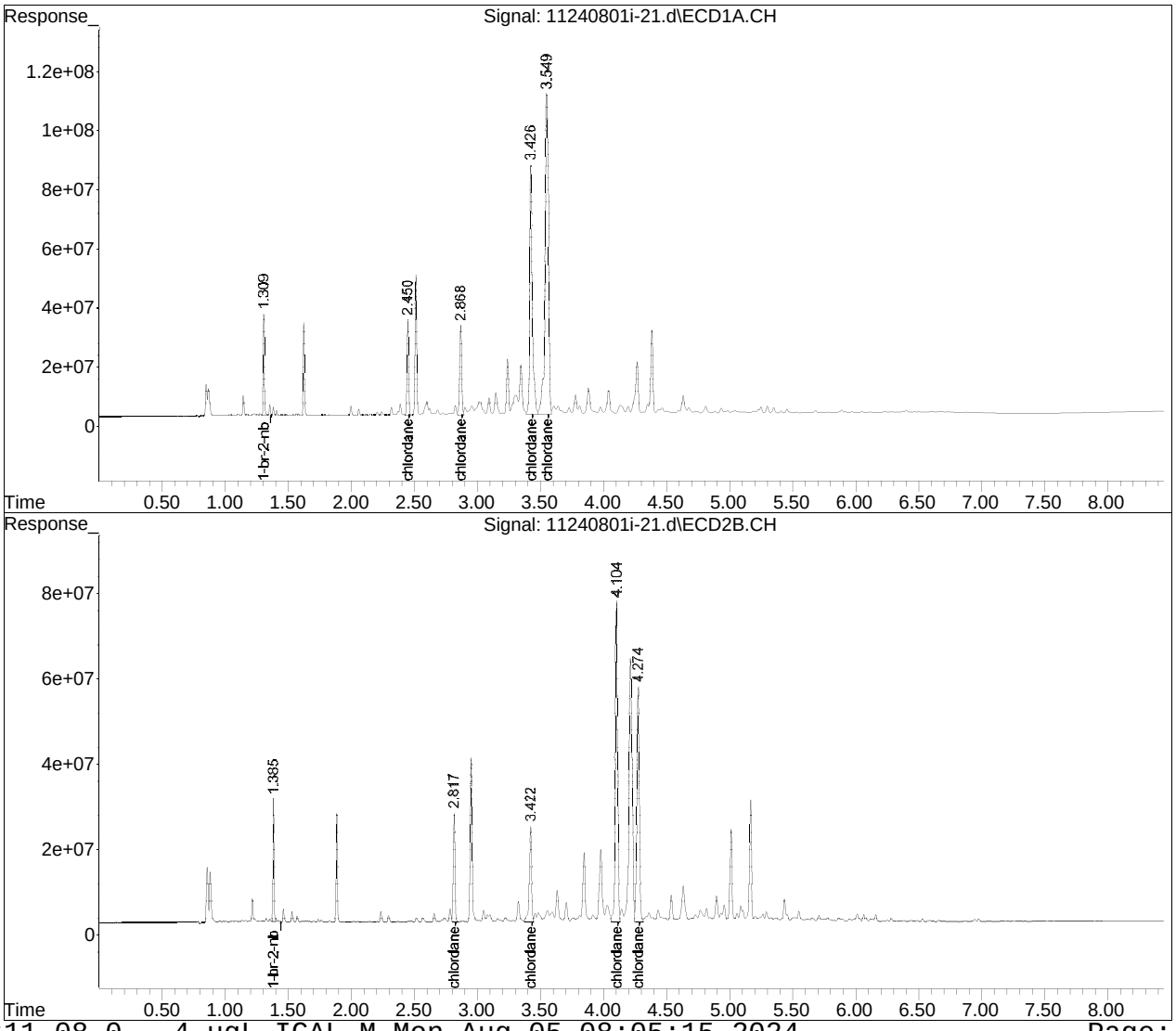
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

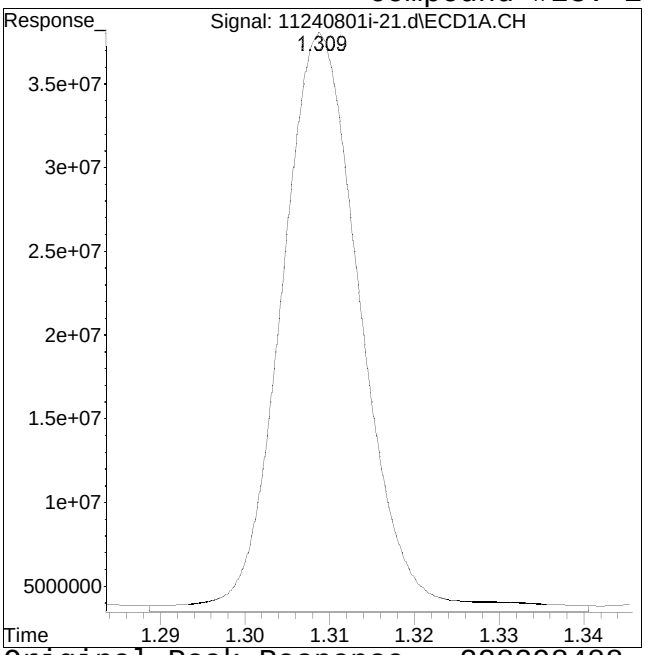
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

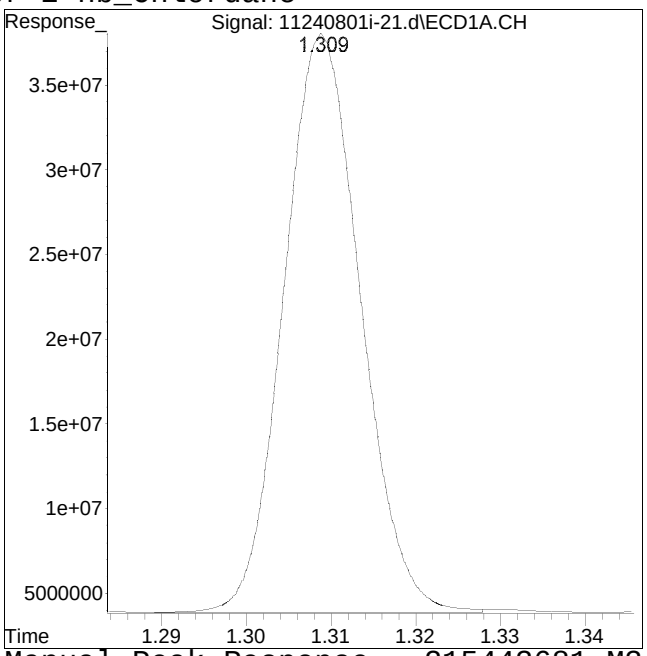


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #28: 1-br-2-nb_Chlordane





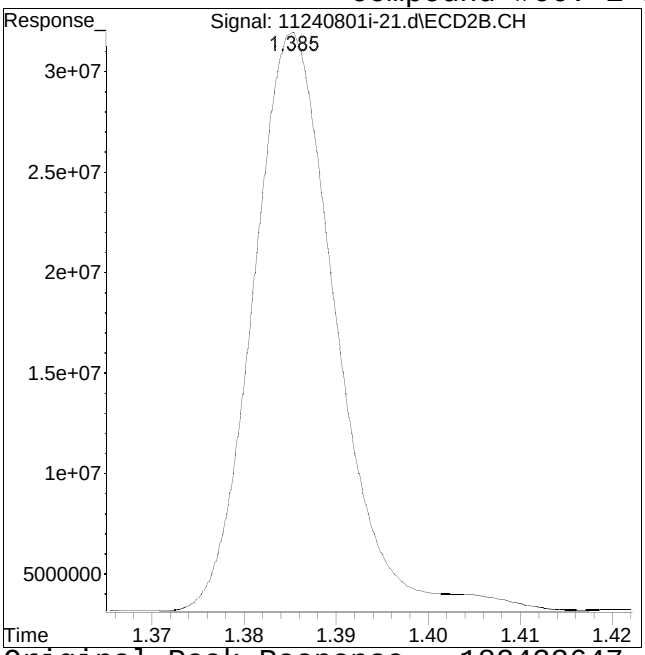
Original Peak Response = 228298488 Manual Peak Response = 215443681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

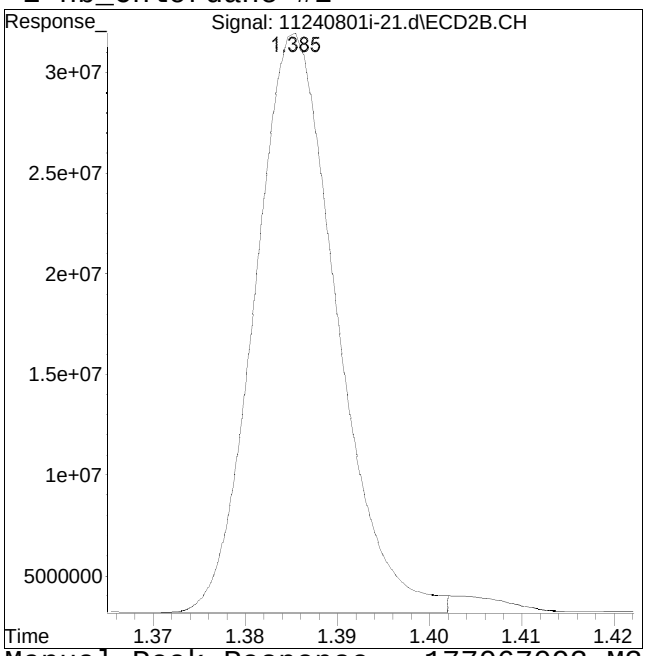
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-21.d
Date Inj'd : 8/1/2024 22:12
Sample : cicvchlor,42e,,pp 11670 L1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:16 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 182433647 Manual Peak Response = 177067093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	207.9E6	171.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	6298815	3783276	14.276	22.443
35) l2	toxaphene-3	4.566	5.112	5311161	5766534	15.580	23.257
36) l2	toxaphene-4	4.792	5.429	6754862	6780894	19.276M3	23.080
37) l2	toxaphene-5	5.168	5.836	8888706	6922230	26.745M4	25.343
Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

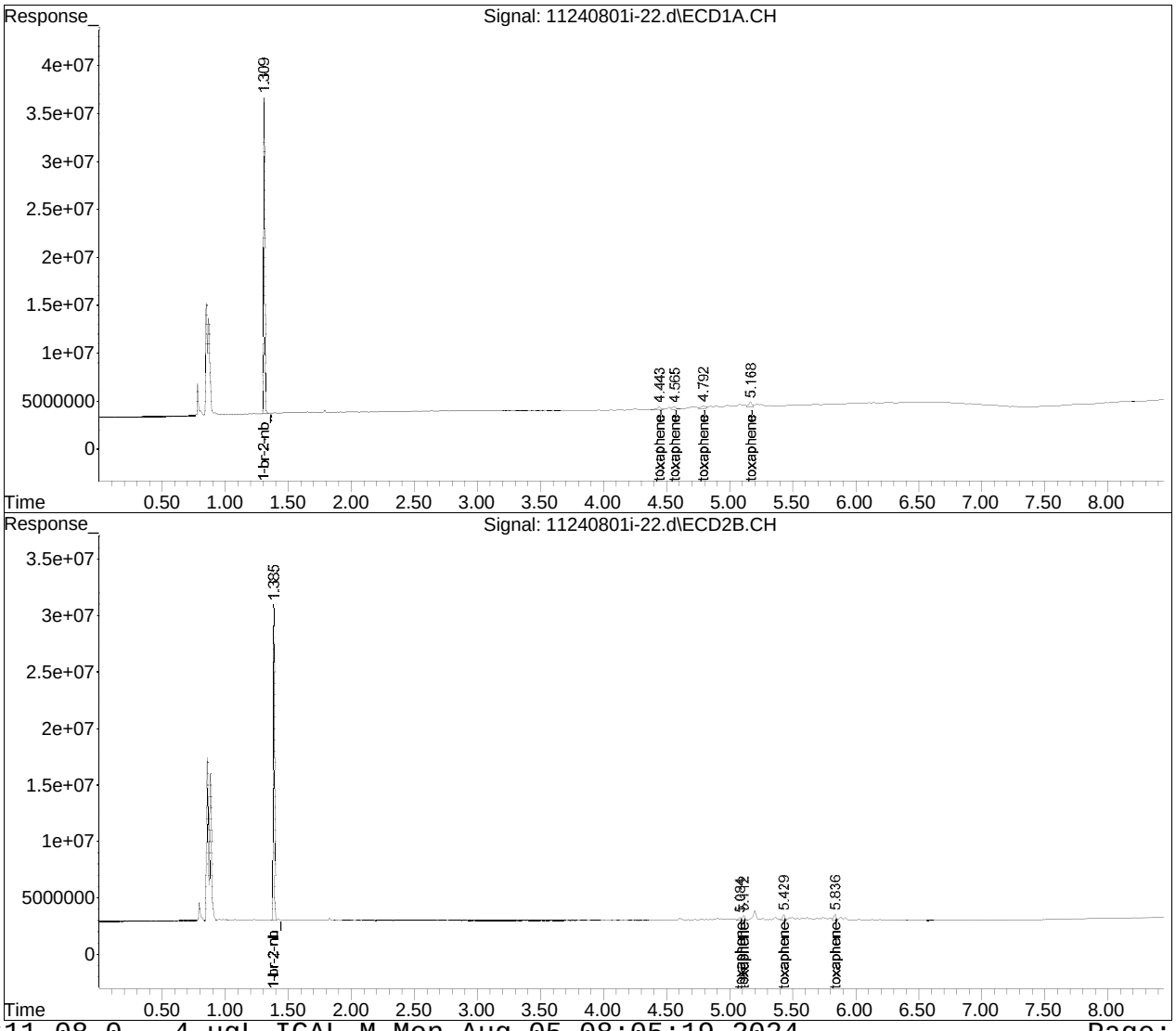
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

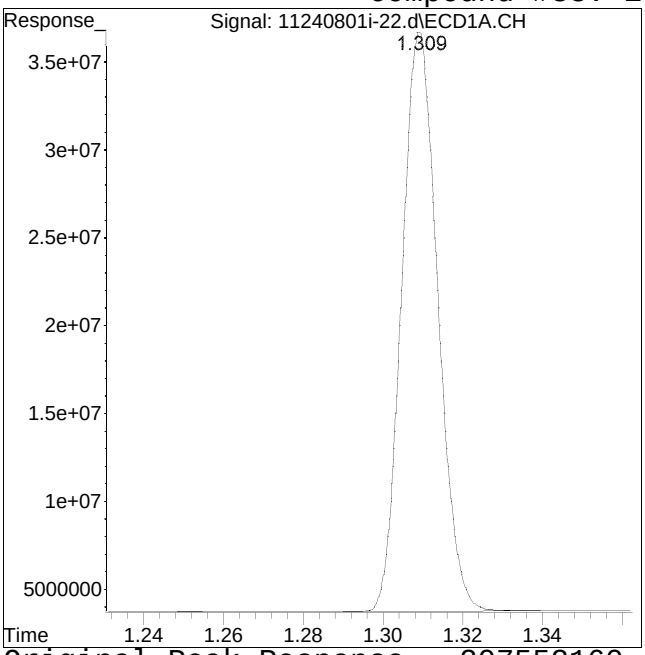


Manual Integration Report

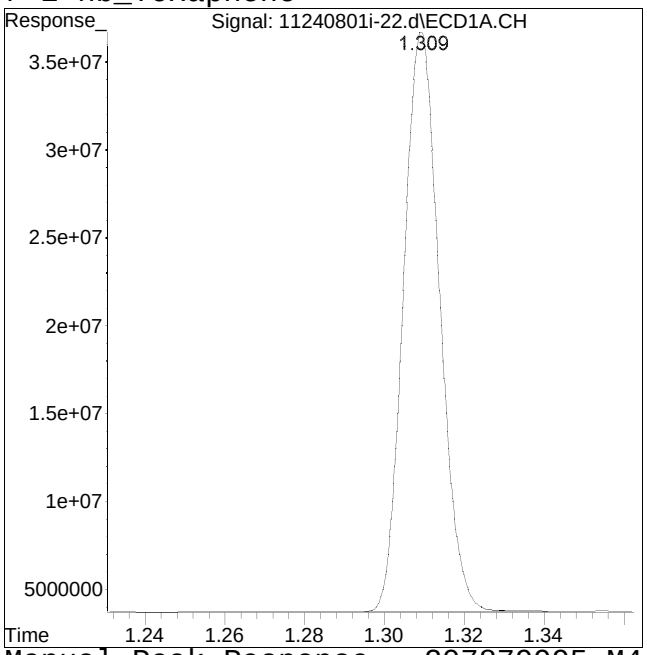
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 207552160



Manual Peak Response = 207879995 M4

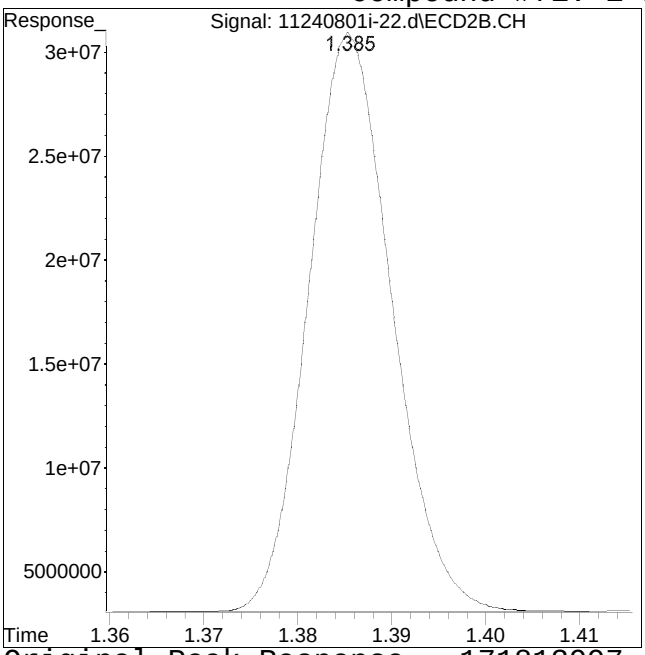
M4 = Poor automated baseline construction.

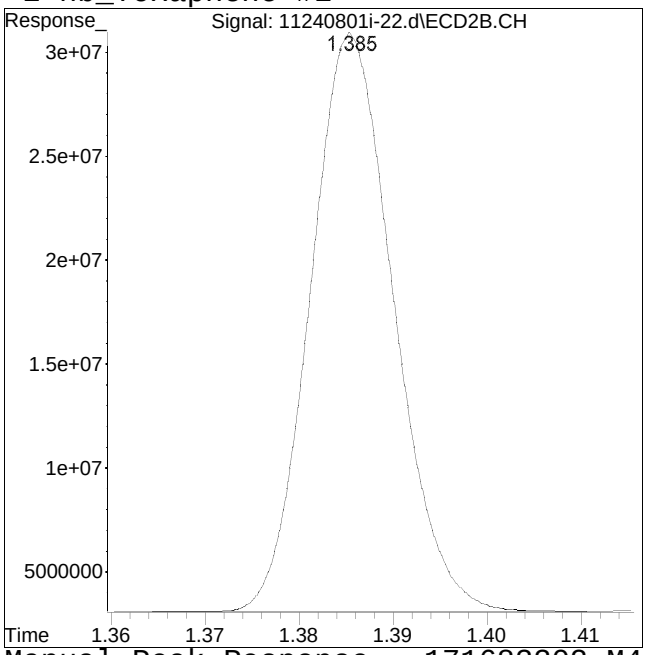
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #71: 1-br-2-nb_Toxaphene #2





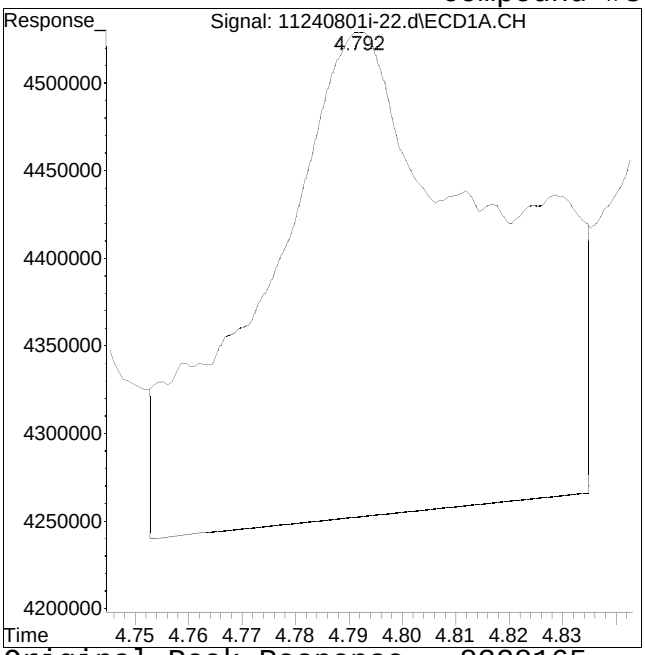
Original Peak Response = 171813997 Manual Peak Response = 171683302 M4
M4 = Poor automated baseline construction.

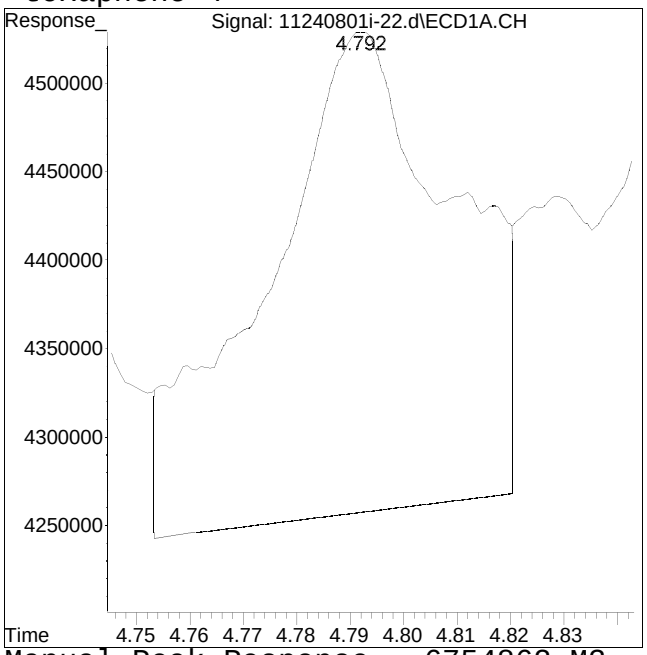
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #36: toxaphene-4





Original Peak Response = 8328165 Manual Peak Response = 6754862 M3

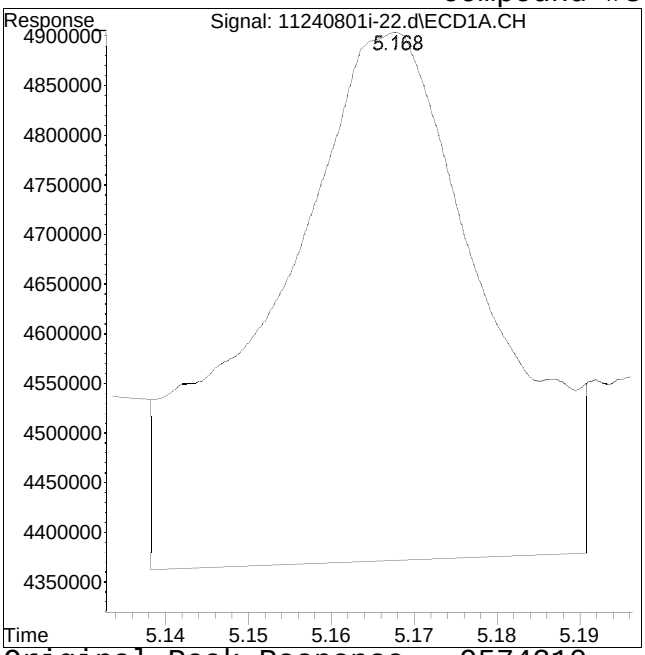
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

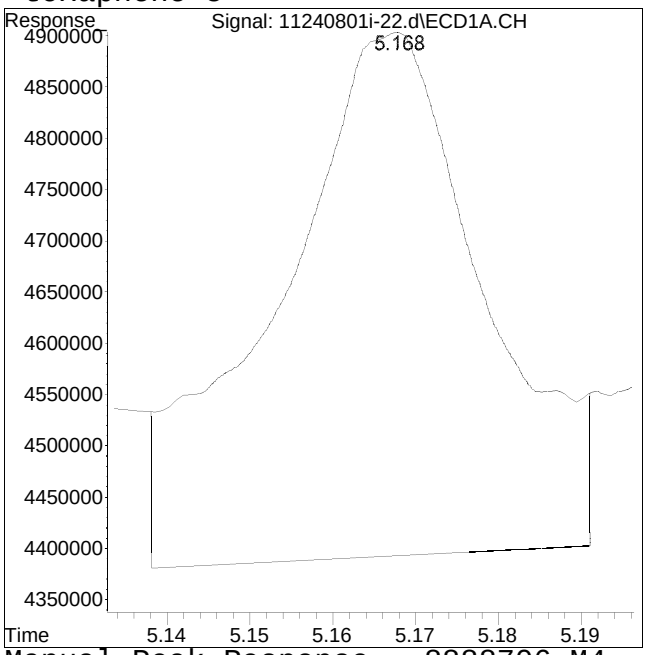
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #37: toxaphene-5



Original Peak Response = 9574210



Manual Peak Response = 8888706 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	214.5E6	175.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	39578469	19576926	83.312	119.105
35) l2	toxaphene-3	4.566	5.112	30033204	28384507	81.420	116.744
36) l2	toxaphene-4	4.791	5.429	33900580	32843972	91.845M3	112.974
37) l2	toxaphene-5	5.168	5.836	35593892	31255677	105.126	116.675
Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

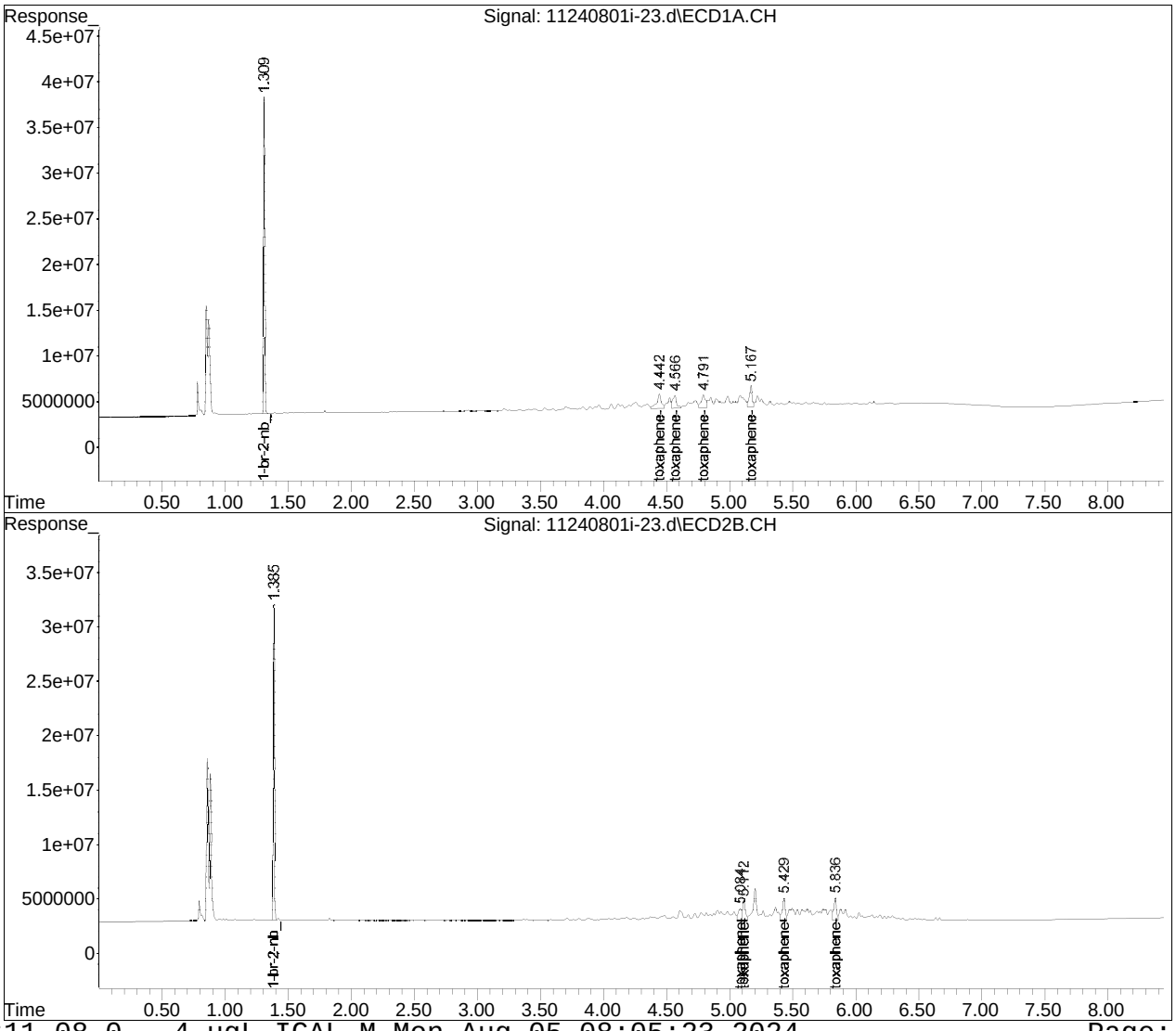
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

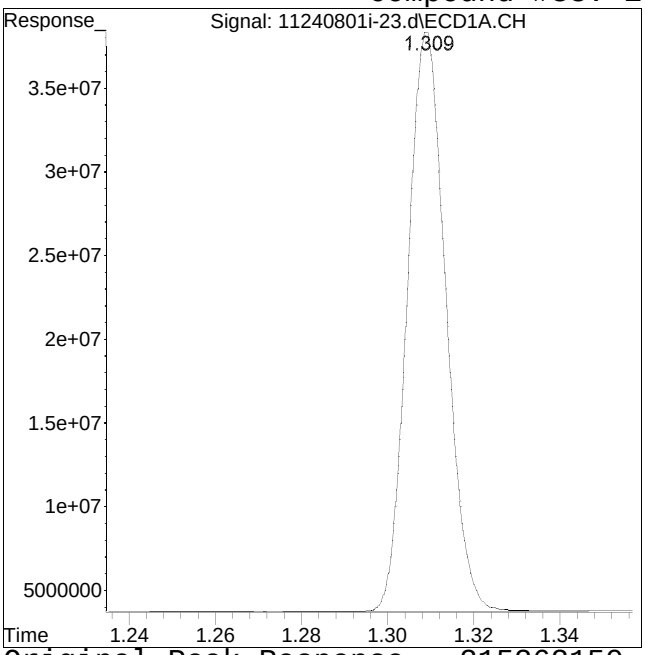
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

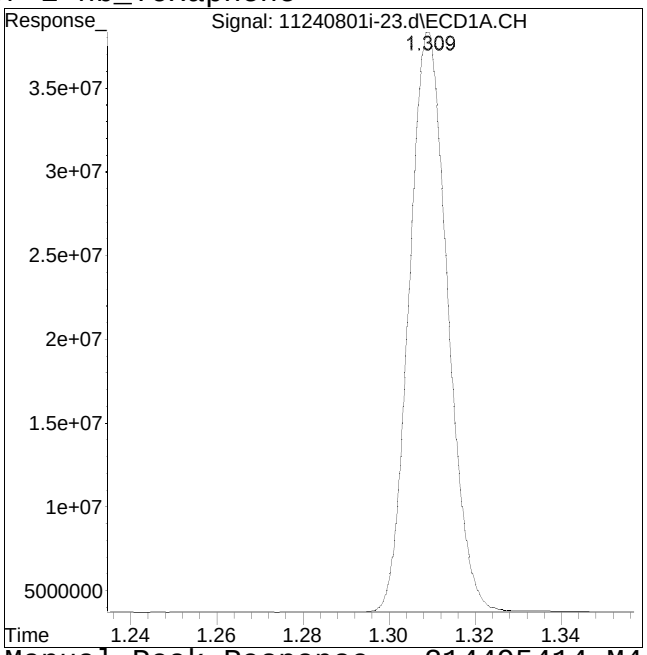


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



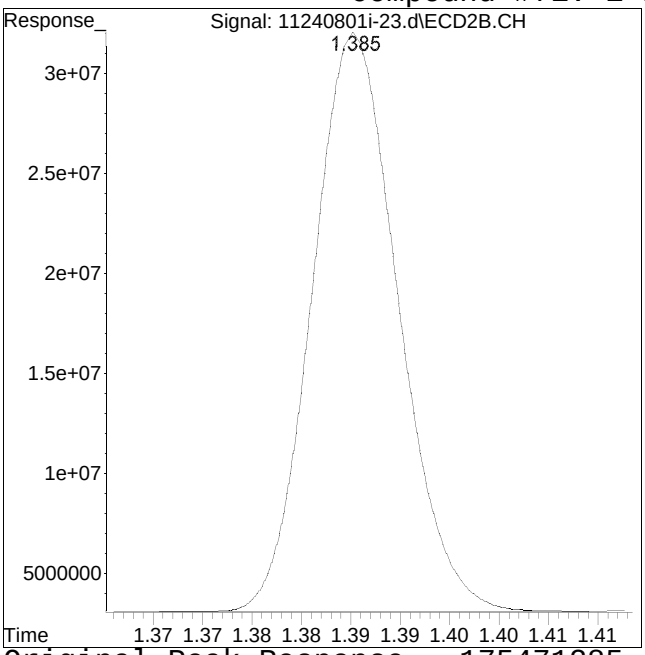


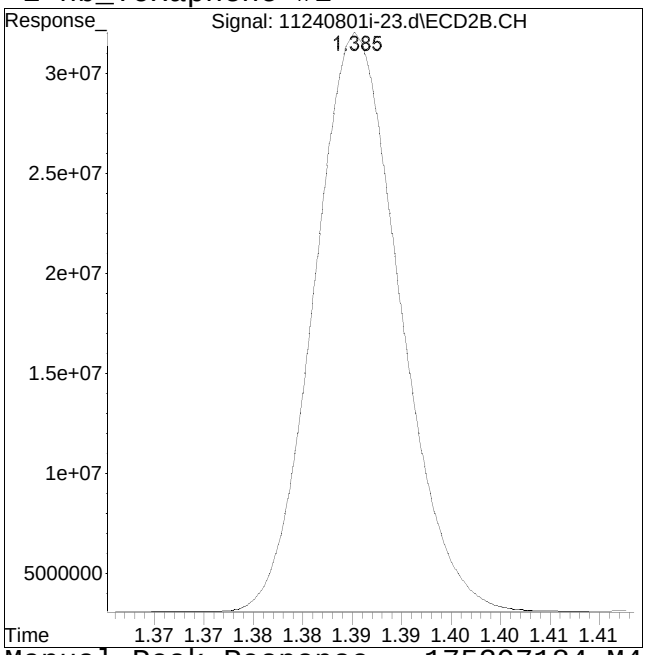
Original Peak Response = 215262150 Manual Peak Response = 214495414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



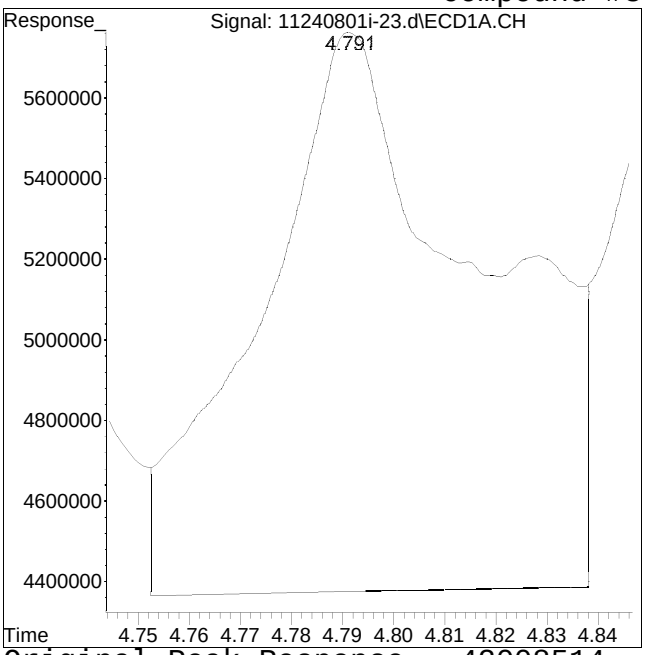


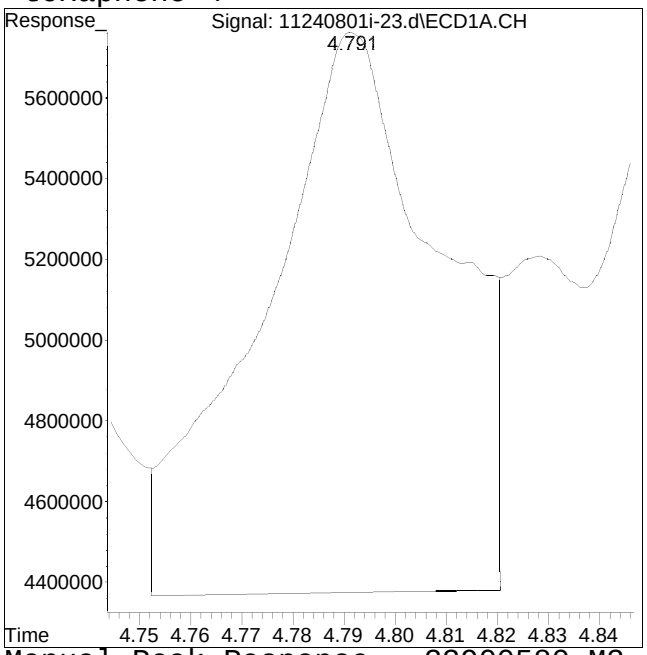
Original Peak Response = 175471285 Manual Peak Response = 175397184 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #36: toxaphene-4





Original Peak Response = 42008514 Manual Peak Response = 33900580 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	217.4E6	172.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	475.5E6	162.1E6	981.231	1002.404
35) l2	toxaphene-3	4.566	5.112	362.8E6	238.4E6	956.095	993.623
36) l2	toxaphene-4	4.792	5.429	362.1E6	283.2E6	952.261	983.638
37) l2	toxaphene-5	5.167	5.836	340.4E6	261.1E6	987.487	984.711
Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

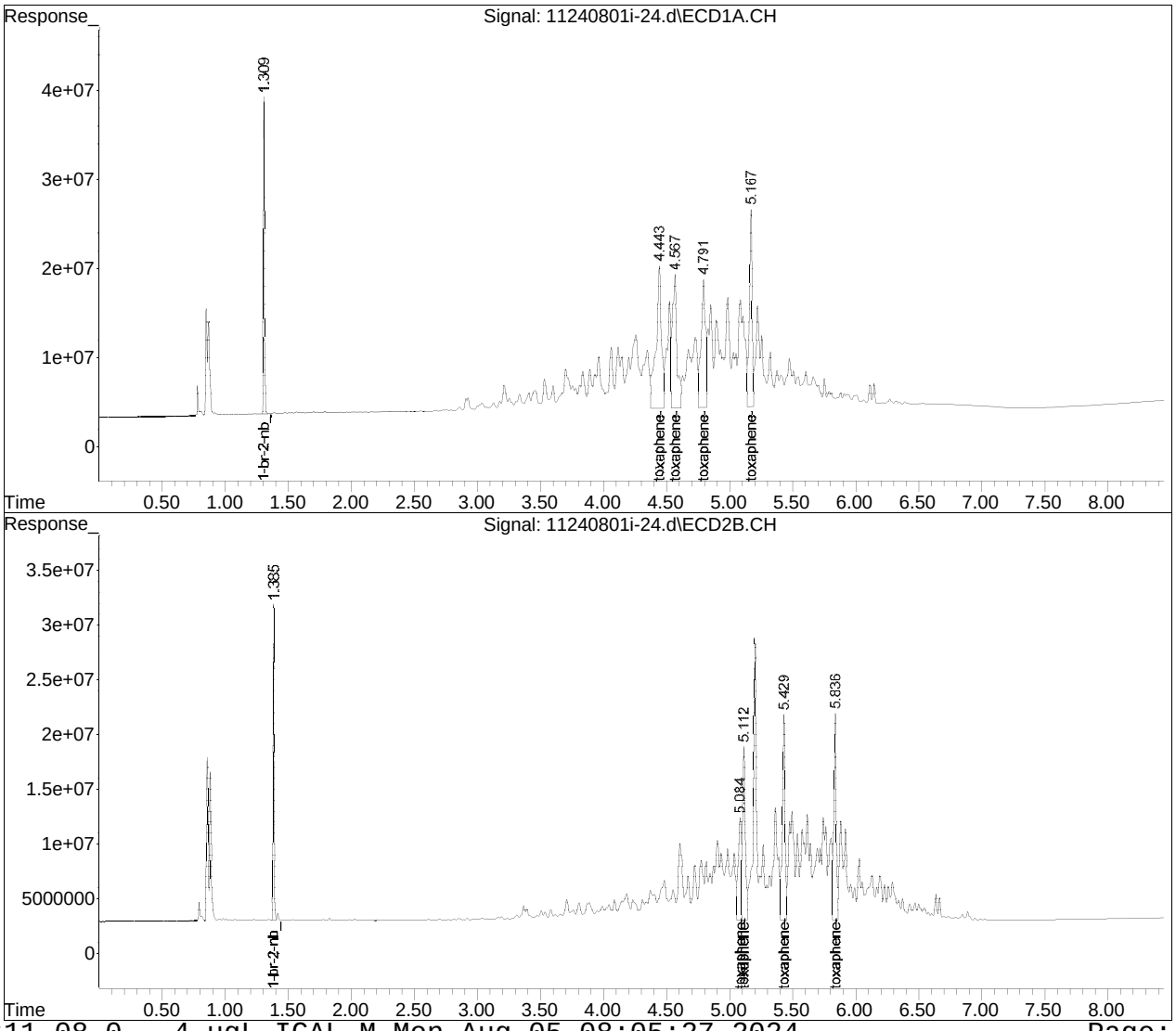
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

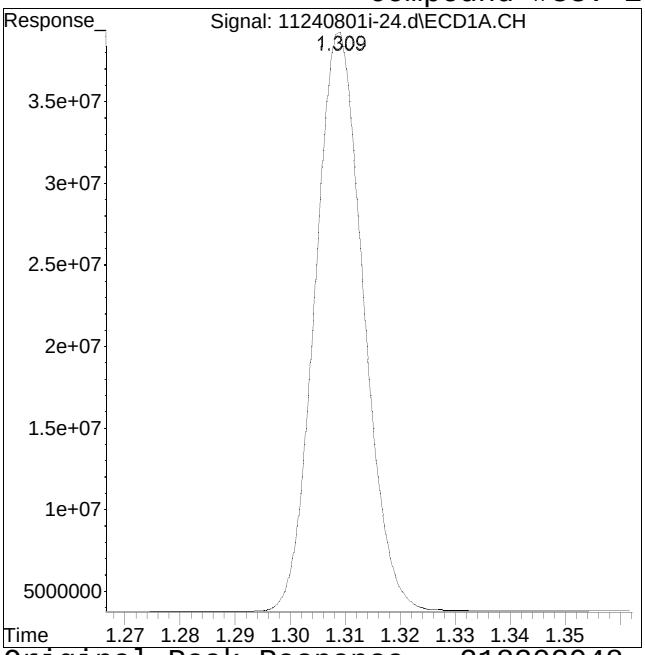


Manual Integration Report

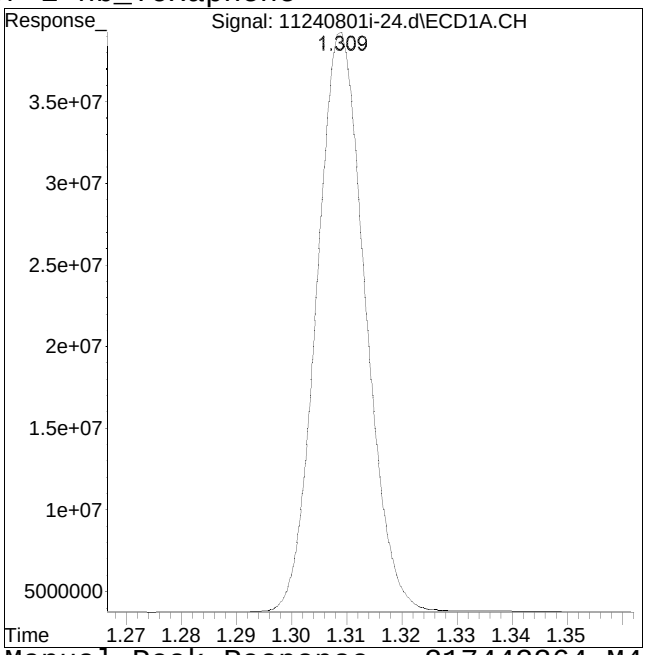
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-24.d
Date Inj'd : 8/1/2024 22:47
Sample : il7tox,42e,,pp 11701 L1.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 218302948



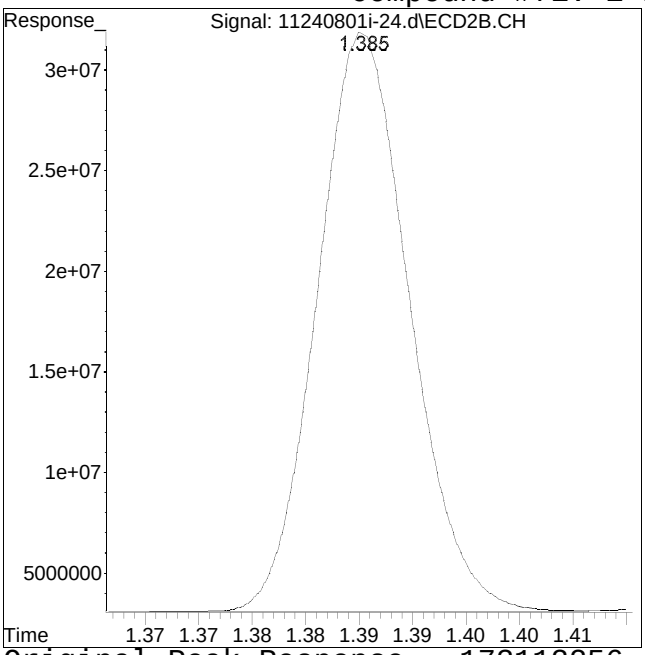
Manual Peak Response = 217442364 M4

M4 = Poor automated baseline construction.

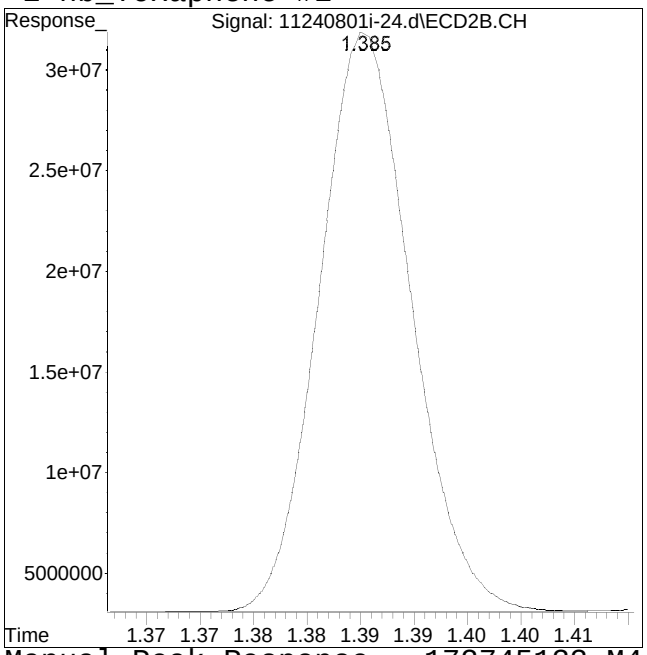
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 173112256



Manual Peak Response = 172745133 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	226.5E6	177.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	1003.1E6	329.8E6	NoCal	NoCal
35) l2	toxaphene-3	4.567	5.112	782.8E6	491.2E6	NoCal M3	NoCal
36) l2	toxaphene-4	4.792	5.429	774.4E6	585.9E6	NoCal	NoCal
37) l2	toxaphene-5	5.168	5.836	711.9E6	540.3E6	NoCal	NoCal
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

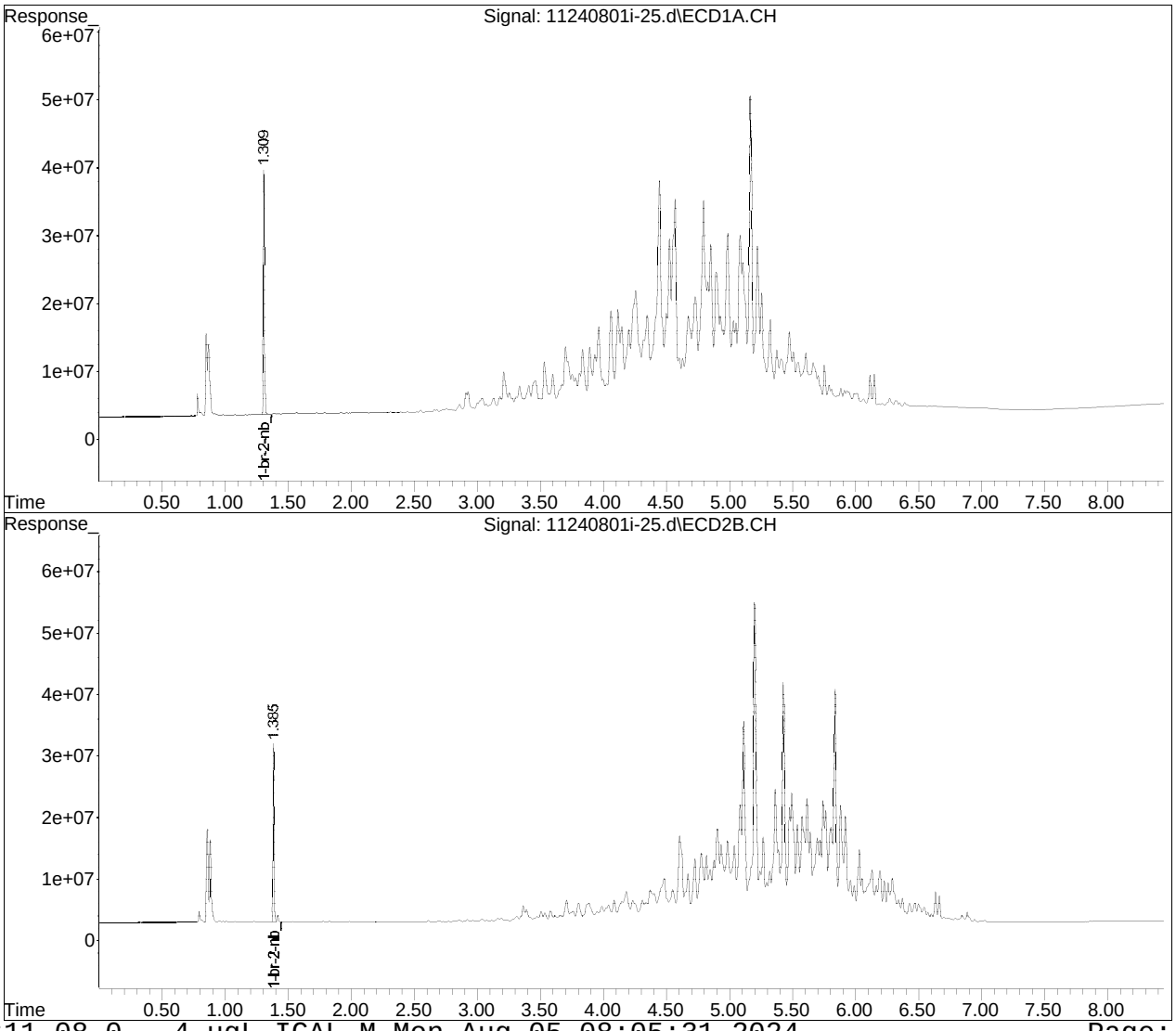
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

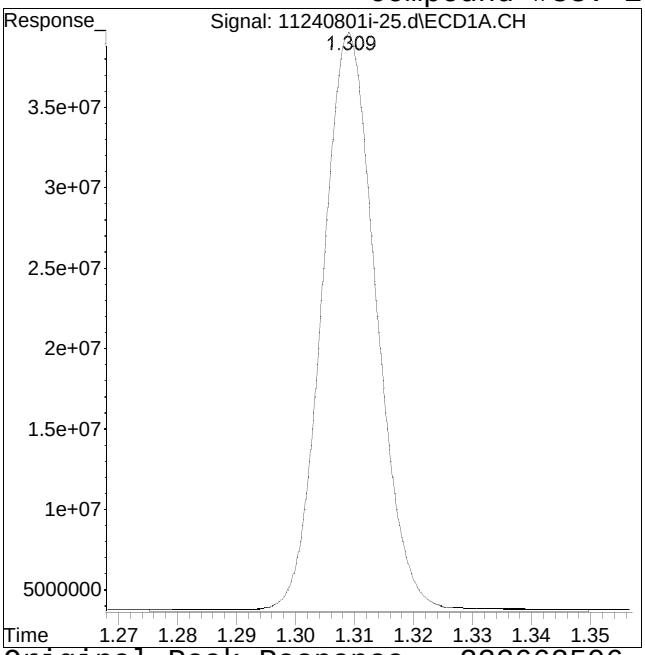
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

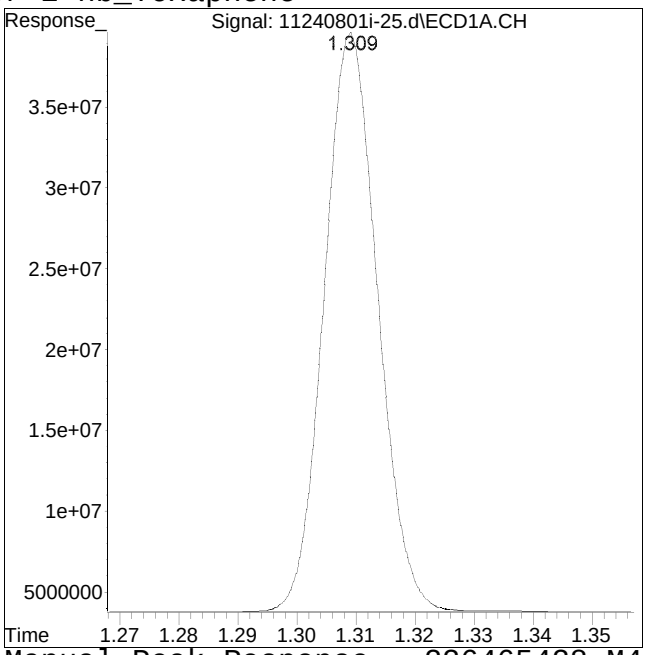


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #33: 1-br-2-nb_Toxaphene



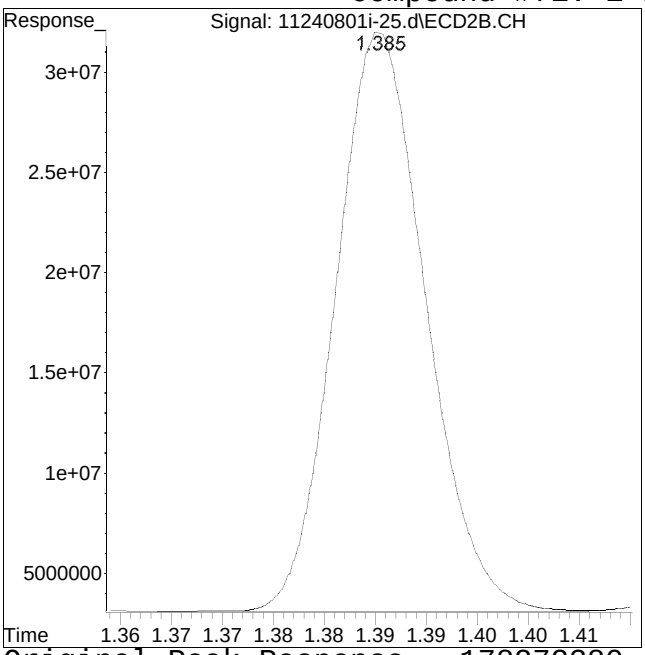


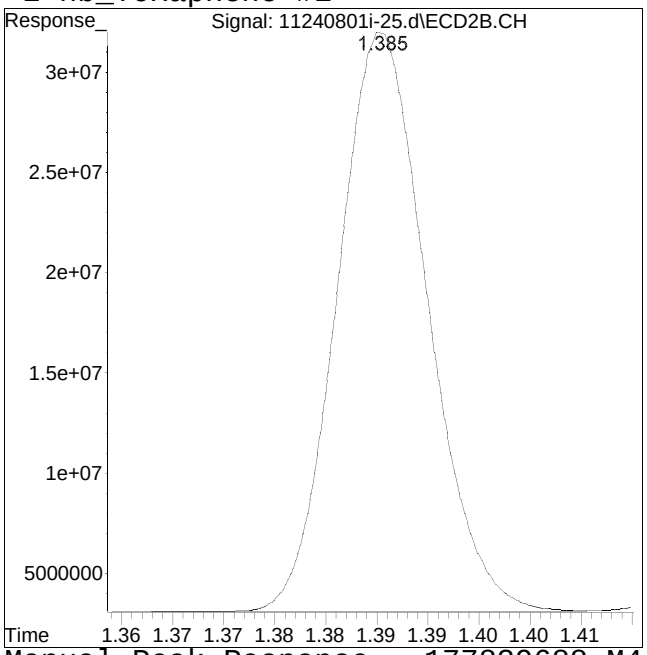
Original Peak Response = 233662506 Manual Peak Response = 226465428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #71: 1-br-2-nb_Toxaphene #2



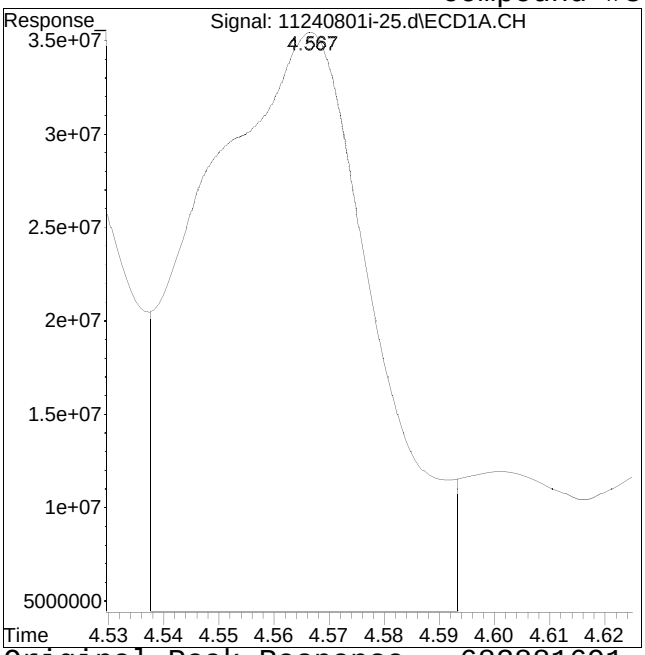


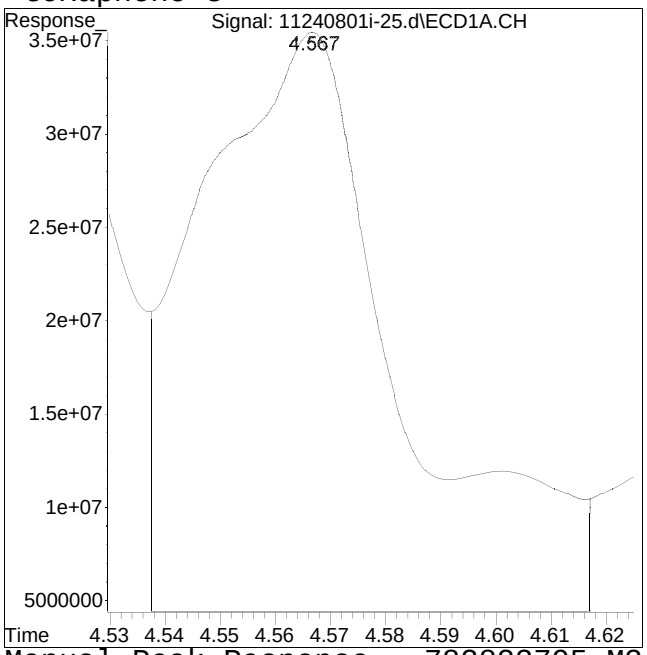
Original Peak Response = 178272380 Manual Peak Response = 177839688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #35: toxaphene-3





Original Peak Response = 683881691 Manual Peak Response = 782823795 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	224.3E6	174.1E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	2515.7E6	823.1E6	5063.269	5099.870
35) l2	toxaphene-3	4.566	5.113	1976.6E6	1216.3E6	5097.738	5059.169
36) l2	toxaphene-4	4.791	5.430	2005.0E6	1467.5E6	5227.075M3	5116.982
37) l2	toxaphene-5	5.167	5.836	1793.0E6	1350.3E6	5084.921	5105.955
Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

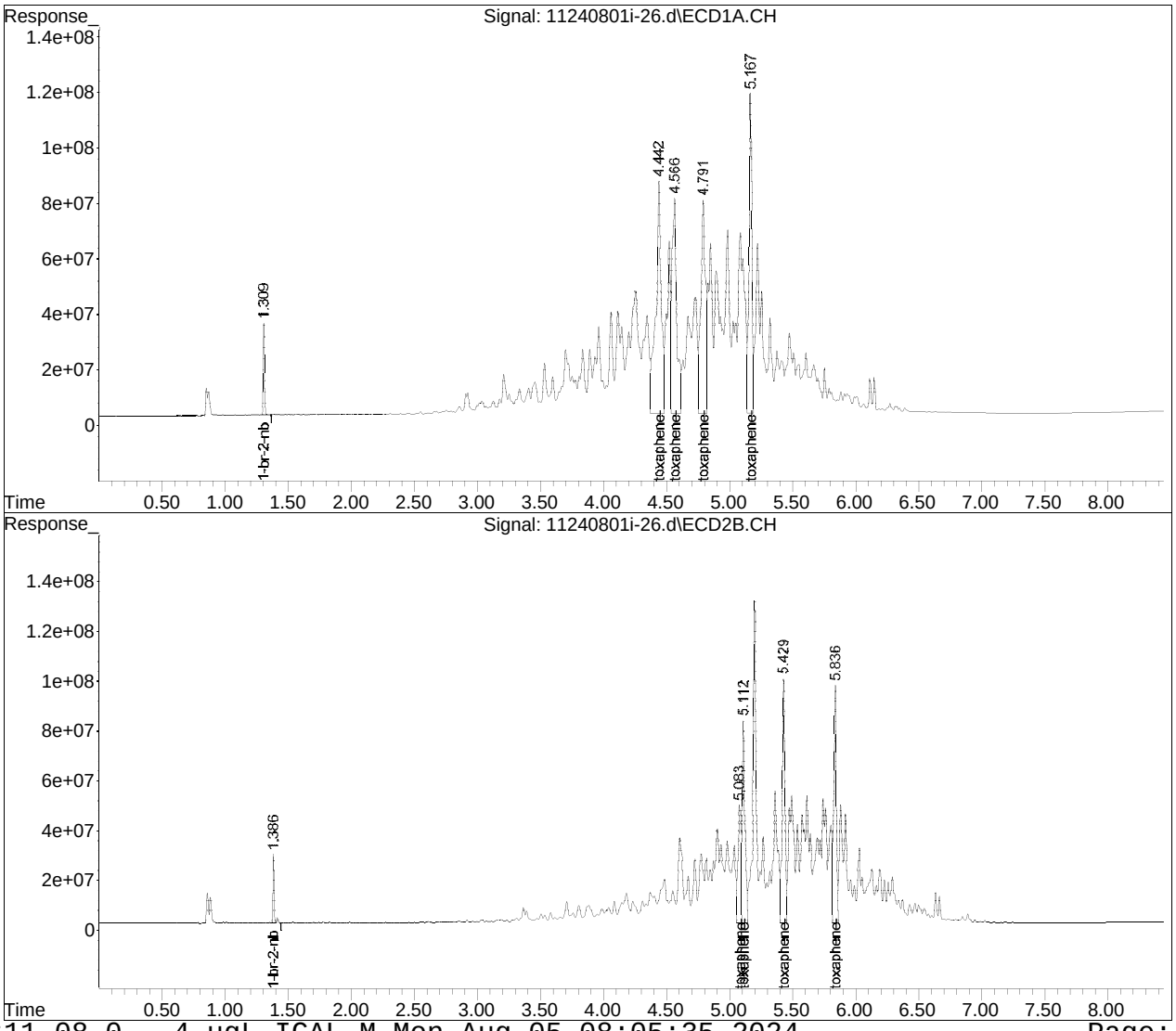
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

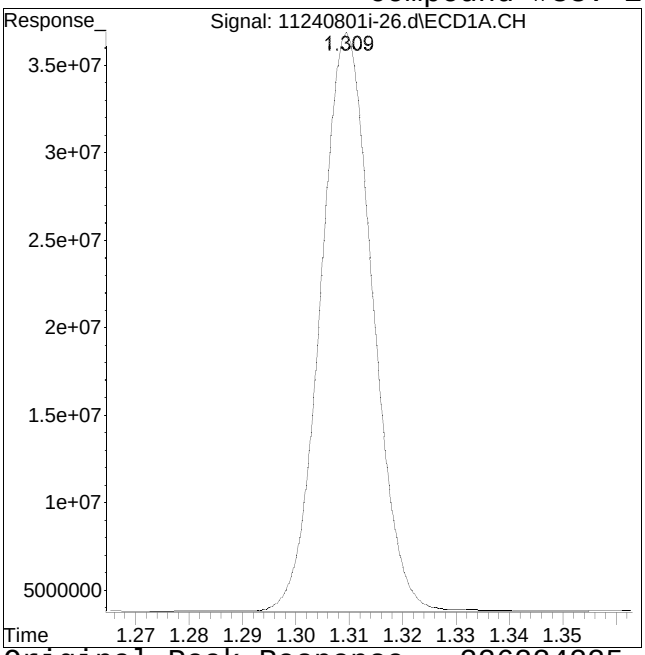
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

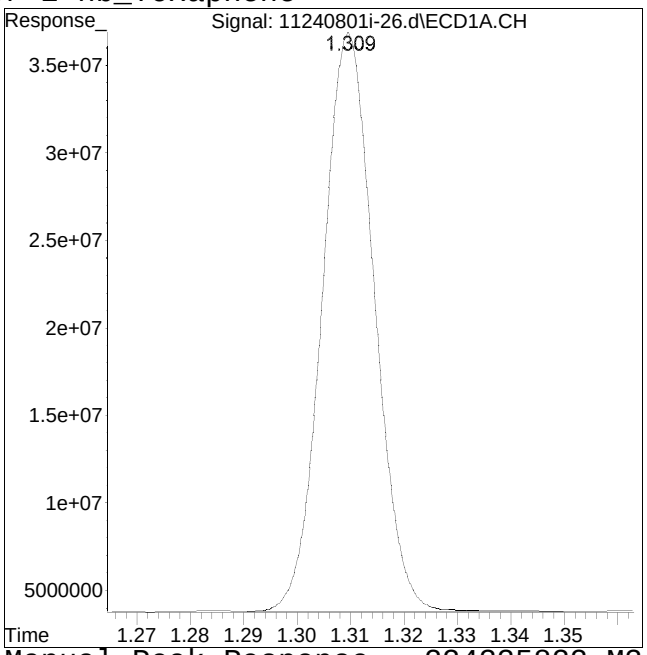


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #33: 1-br-2-nb_Toxaphene



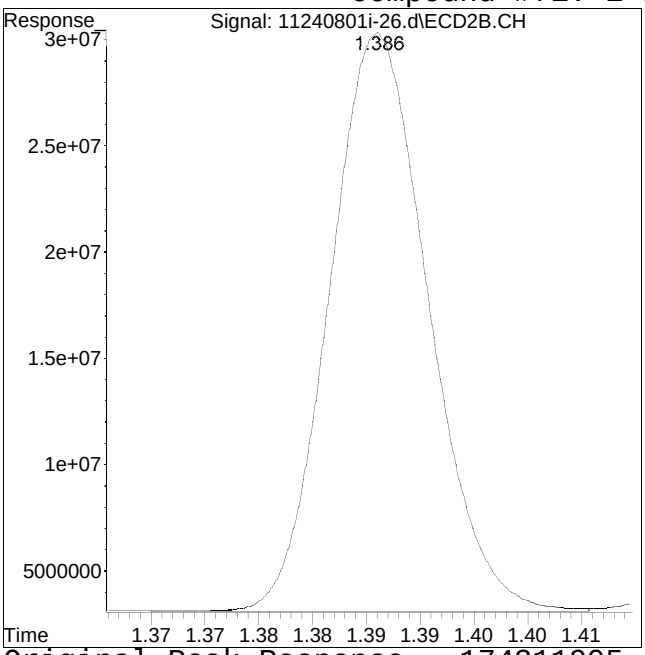


Original Peak Response = 226224225 Manual Peak Response = 224335822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

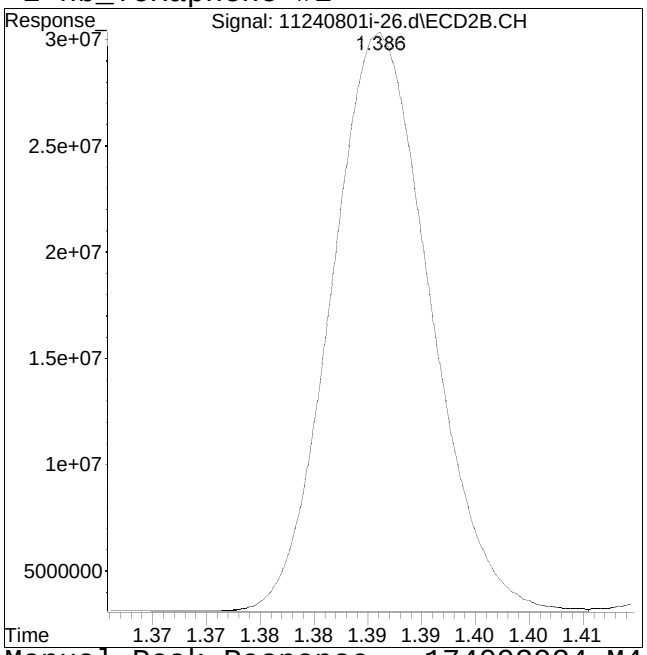
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 174311995



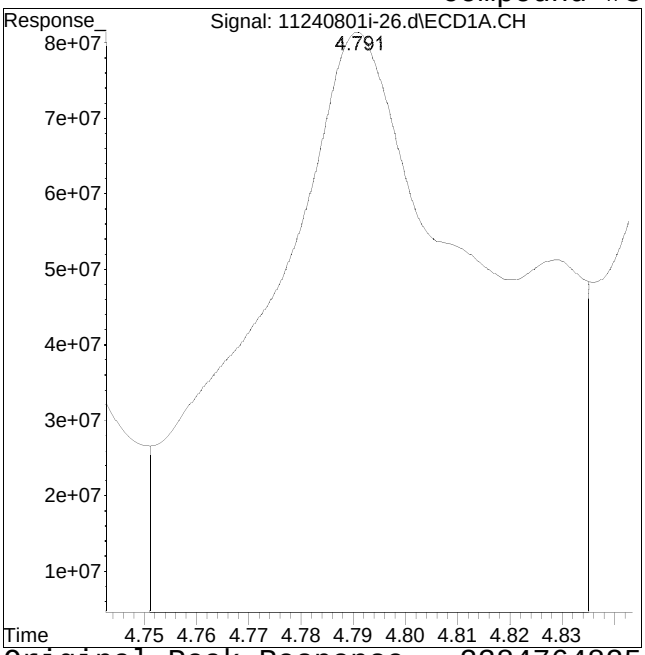
Manual Peak Response = 174093924 M4

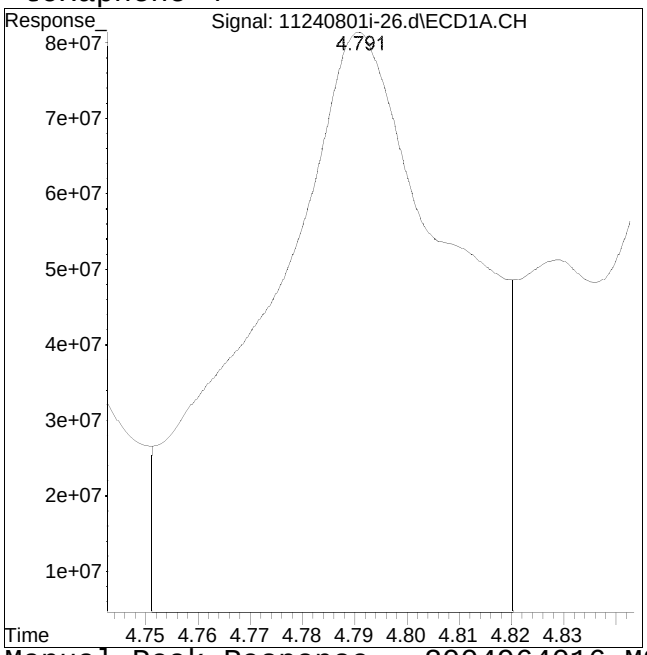
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #36: toxaphene-4





Original Peak Response = 2384764825 Manual Peak Response = 2004964016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1966.030	1.7	97	0.00
35	l2	toxaphene-3		*2000.000	1837.511	8.1	91	0.00
36	l2	toxaphene-4		*2000.000	1758.818	12.1	89	0.00
37	l2	toxaphene-5		*2000.000	1870.162	6.5	93	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1898.603	5.1	96	0.00
35	l2	toxaphene-3		*2000.000	1889.204	5.5	95	0.00
36	l2	toxaphene-4		*2000.000	1769.287	11.5	90	0.00
37	l2	toxaphene-5		*2000.000	1896.013	5.2	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.45#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.87#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.55#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.82#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	223.1E6	177.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	975.4E6	317.3E6	1966.030	1898.603
35) l2	toxaphene-3	4.567	5.112	712.2E6	467.1E6	1837.511	1889.204
36) l2	toxaphene-4	4.792	5.430	686.8E6	525.1E6	1758.818M3	1769.287
37) l2	toxaphene-5	5.168	5.836	662.9E6	518.4E6	1870.162	1896.013
Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

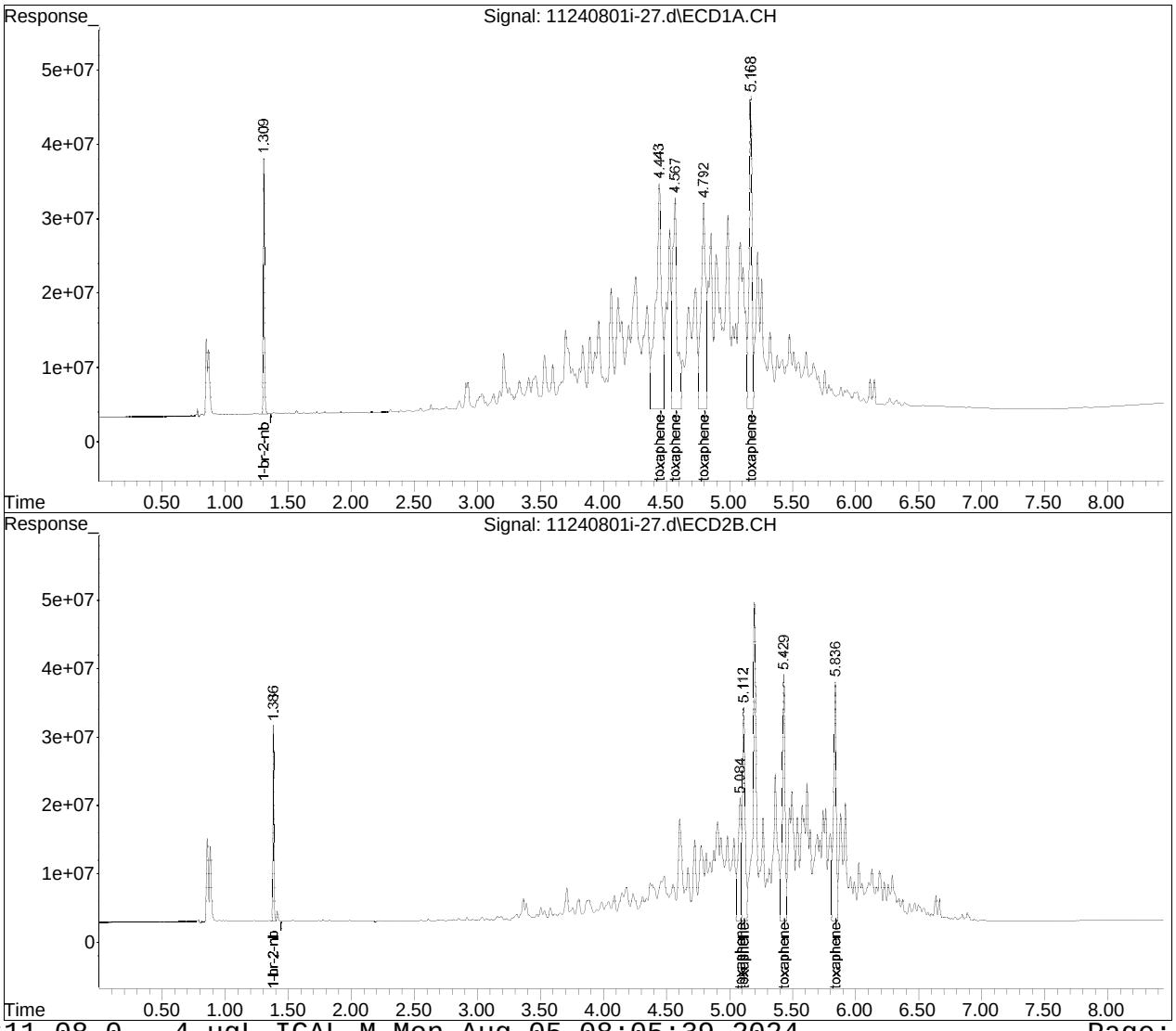
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

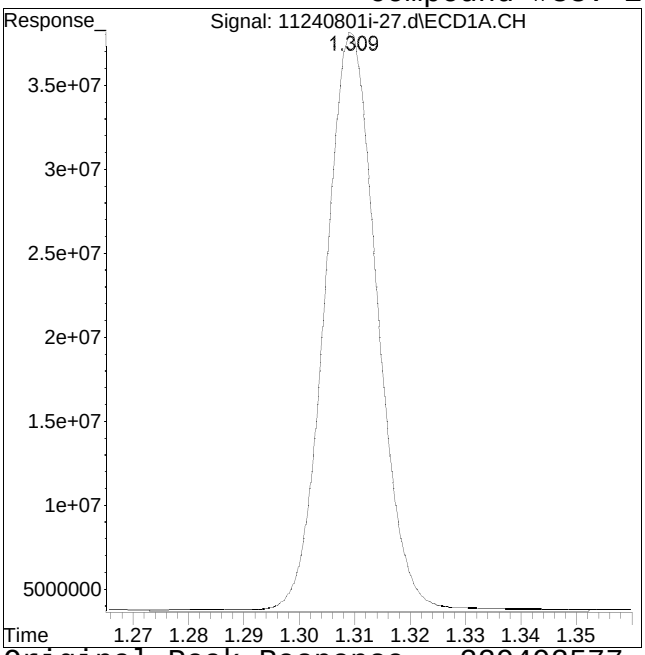


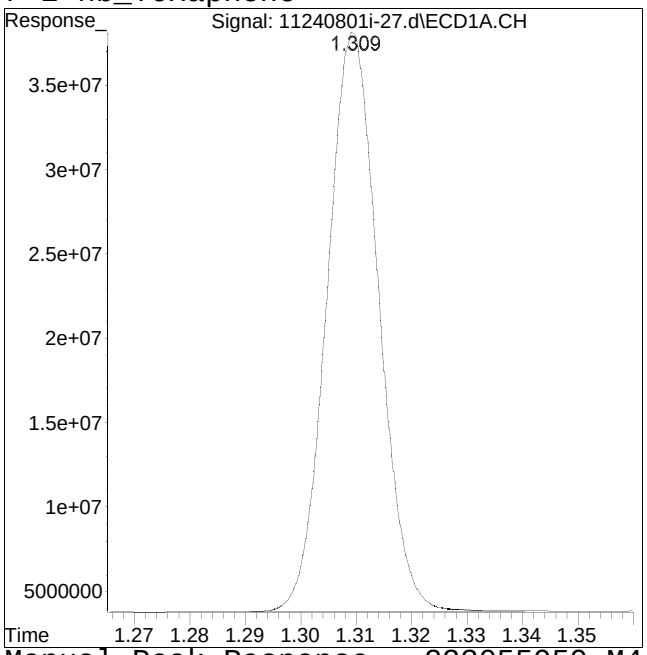
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-27.d
Date Inj'd : 8/1/2024 23:23
Sample : cicvtox,42e,,pp 11668 L2.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:29 pm

Compound #33: 1-br-2-nb_Toxaphene



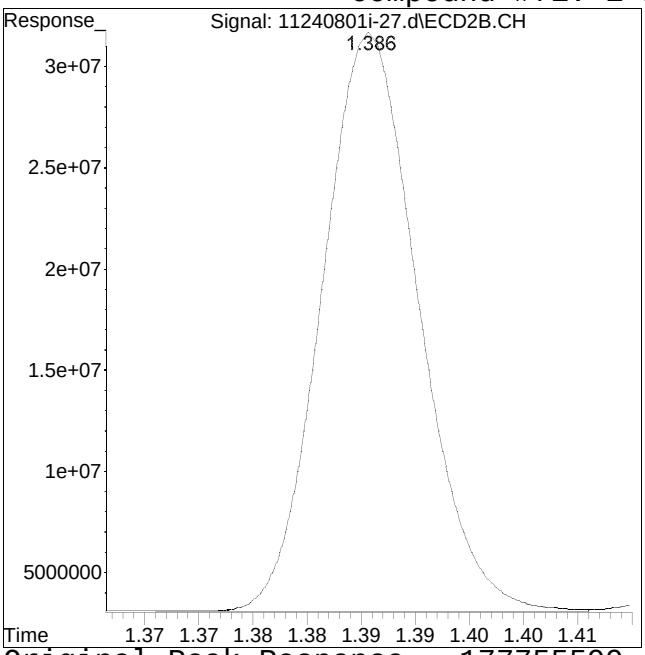


Original Peak Response = 229492577 Manual Peak Response = 223055959 M4
M4 = Poor automated baseline construction.

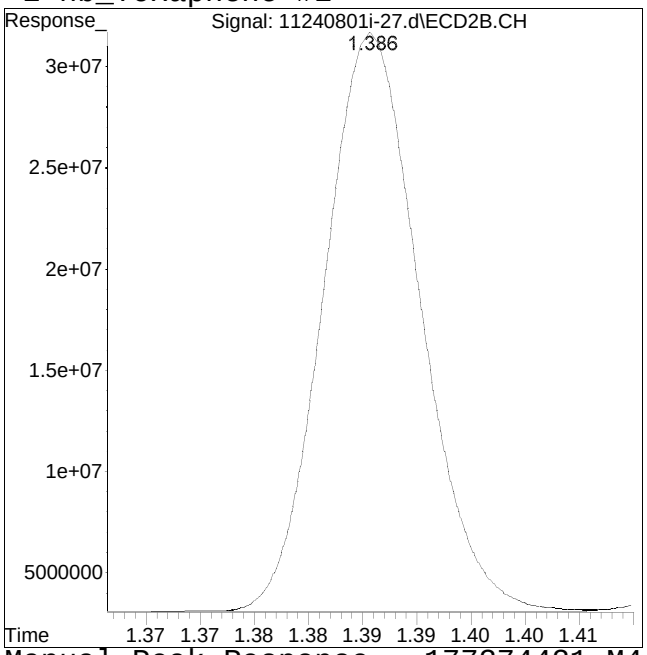
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-27.d
Date Inj'd : 8/1/2024 23:23
Sample : cicvtox,42e,,pp 11668 L2.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:29 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 177755599



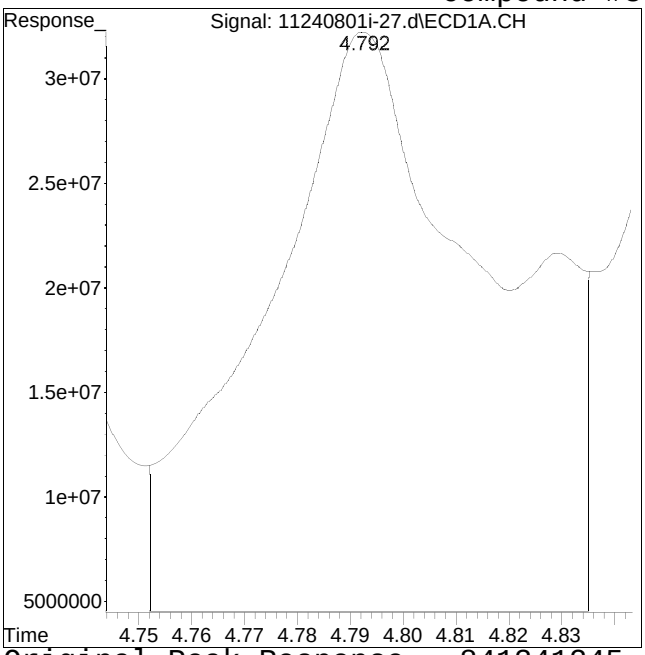
Manual Peak Response = 177374421 M4

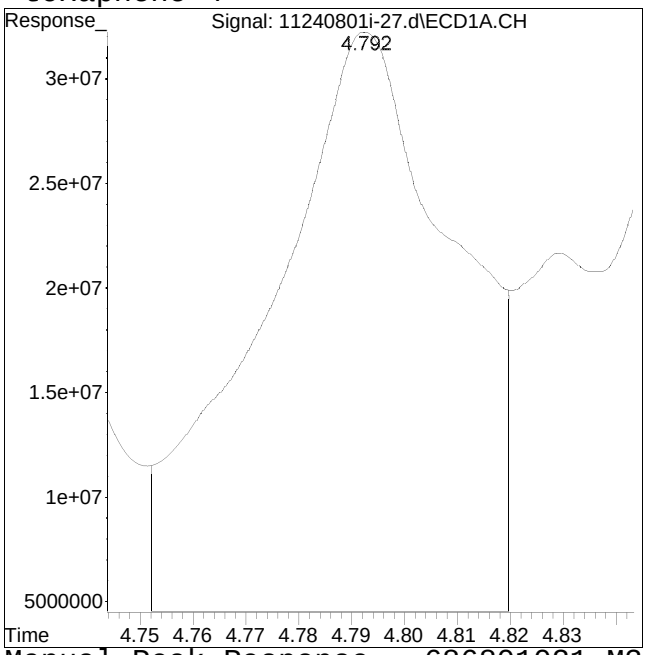
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #36: toxaphene-4





Original Peak Response = 841341245 Manual Peak Response = 686801021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
29	L1 chlordane-1	L	ug/l	1000.0	1038.450	3.8	10.00	9.627	-3.7
30	L1 chlordane-3	L	ug/l	1000.0	1075.547	7.6	10.00	7.099	-29.0
31	L1 chlordane-4	L	ug/l	1000.0	1057.641	5.8	10.00	9.470	-5.3
32	L1 chlordane-5	L	ug/l	1000.0	1065.479	6.5	10.00	9.042	-9.6
34	L2 toxaphene-2	L	ug/l	2000.0	1991.278	-0.4	20.00	22.016	10.1
35	L2 toxaphene-3	L	ug/l	2000.0	1988.580	-0.6	20.00	22.909	14.5
36	L2 toxaphene-4	L	ug/l	2000.0	1952.950	-2.4	20.00	22.256	11.3
37	L2 toxaphene-5	L	ug/l	2000.0	1978.581	-1.1	20.00	20.714	3.6
44	T beta-BHC #2	L	ug/l	50.0	50.907	1.8	1.00	0.790	-21.0
48	T Alachlor #2	L	ug/l	50.0	53.910	7.8	2.00	1.484	-25.8
49	T Chlorpyrifos #2	L	ug/l	50.0	52.668	5.3	2.00	1.609	-19.6
60	T Endrin Aldehyde #2	L	ug/l	50.0	50.418	0.8	1.00	0.856	-14.4
62	T Mirex #2	L	ug/l	50.0	50.877	1.8	2.00	1.727	-13.6
67	L1 chlordane-1 #2	L	ug/l	1000.0	1065.397	6.5	10.00	7.110	-28.9
68	L1 chlordane-3 #2	L	ug/l	1000.0	1115.565	11.6	10.00	5.208	-47.9
69	L1 chlordane-4 #2	L	ug/l	1000.0	1071.147	7.1	10.00	8.535	-14.6
70	L1 chlordane-5 #2	L	ug/l	1000.0	1069.213	6.9	10.00	8.307	-16.9
72	L2 toxaphene-2 #2	L	ug/l	2000.0	1968.160	-1.6	20.00	17.722	-11.4
73	L2 toxaphene-3 #2	L	ug/l	2000.0	1981.747	-0.9	20.00	18.240	-8.8
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1969.518	-1.5	20.00	19.050	-4.7
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1971.269	-1.4	20.00	18.840	-5.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
29	L1 chlordane-1	Linear	0.999348	0.000000	0.0363716	0.00108757
30	L1 chlordane-3	Linear	0.997393	0.000000	0.0421132	0.0078182
31	L1 chlordane-4	Linear	0.998643	0.000000	0.155448	0.0068286
32	L1 chlordane-5	Linear	0.998228	0.000000	0.238606	0.0109807
34	L2 toxaphene-2	Linear	0.999824	0.000000	0.055848	-0.0188813
35	L2 toxaphene-3	Linear	0.999518	0.000000	0.0436385	-0.01444
36	L2 toxaphene-4	Linear	0.999238	0.000000	0.0438591	-0.00655081
37	L2 toxaphene-5	Linear	0.999880	0.000000	0.0395938	0.00995327
44	T beta-BHC #2	Linear	0.999559	0.000000	0.62395	0.0144288
48	T Alachlor #2	Linear	0.996730	0.000000	0.176781	0.0129204
49	T Chlorpyrifos #2	Linear	0.998303	0.000000	0.678141	0.0439823
60	T Endrin Aldehyde #2	Linear	0.999312	0.000000	0.92637	0.0145142
62	T Mirex #2	Linear	0.999318	0.000000	0.884014	0.0427365
67	L1 chlordane-1 #2	Linear	0.996325	0.000000	0.0369026	0.0110712
68	L1 chlordane-3 #2	Linear	0.991238	0.000000	0.0403855	0.0197671
69	L1 chlordane-4 #2	Linear	0.995940	0.000000	0.155283	0.0303717
70	L1 chlordane-5 #2	Linear	0.996066	0.000000	0.119242	0.0251686
72	L2 toxaphene-2 #2	Linear	0.999654	0.000000	0.0234841	0.00538869
73	L2 toxaphene-3 #2	Linear	0.999781	0.000000	0.0347383	0.00824347
74	L2 toxaphene-4 #2	Linear	0.999739	0.000000	0.0417228	0.00770414
75	L2 toxaphene-5 #2	Linear	0.999723	0.000000	0.0383851	0.0113923

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024
Response Via : Initial Calibration

Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1) i	1-br-2-nb_Pesticides	----------ISTD----------											
2) s	2,4,5,6-Tetra...		1.311	1.321	1.272	1.347	1.276	1.155	1.130	1.085	1.081	1.220	8.72
3)	Hexachloroben...		1.616	1.609	1.580	1.483	1.423	1.329	1.299	1.251	1.289	1.431	10.23
4)	alpha-BHC		1.553	1.581	1.570	1.491	1.505	1.521	1.505	1.471	1.577	1.531	2.66
5)	gamma-BHC (li...	1.600	1.434	1.446	1.435	1.360	1.373	1.361	1.347	1.308	1.375	1.404	5.82
6)	beta-BHC		0.744	0.738	0.635	0.674	0.645	0.596	0.579	0.560	0.575	0.638	10.78
7)	delta-BHC		1.459	1.475	1.433	1.369	1.379	1.385	1.373	1.338	1.423	1.404	3.27
8)	Heptachlor		1.459	1.465	1.425	1.344	1.324	1.280	1.234	1.153	1.148	1.315	9.24
9)	Aldrin		1.347	1.386	1.355	1.280	1.268	1.275	1.244	1.178	1.220	1.284	5.28
10)	Alachlor		0.219	0.222	0.222	0.197	0.199	0.181	0.166	0.145		0.194	14.60
11)	Chlorpyrifos					0.660	0.622	0.562	0.521	0.465	0.455	*L	0.996
0													
12)	Heptachlor Ep...		1.231	1.303	1.292	1.202	1.136	1.133	1.091	1.021	1.036	1.161	8.91
13)	gamma-Chlorda...		1.276	1.255	1.236	1.139	1.094	1.087	1.063	1.014	1.096	1.140	8.18
14)	alpha-Chlorda...		1.367	1.397	1.391	1.295	1.234	1.225	1.194	1.127	1.225	1.273	7.47
15)	4,4'-DDE		1.245	1.368	1.334	1.290	1.217	1.261	1.236	1.173	1.288	1.268	4.71
16)	Endosulfan I		1.226	1.265	1.270	1.186	1.120	1.108	1.068	0.992	1.005	1.138	9.25

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024
Response Via : Initial Calibration

Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.305	1.318	1.303	1.217	1.174	1.186	1.154	1.085	1.138	1.209	6.88
18)		Endrin		1.288	1.324	1.315	1.245	1.184	1.190	1.152	1.077	1.108	1.209	7.39
19)		4,4'-DDD		1.022	1.056	1.053	0.982	0.943	0.970	0.942	0.896	0.974	0.982	5.43
20)		Endosulfan II		1.187	1.223	1.221	1.148	1.077	1.067	1.028	0.948	0.968	1.096	9.50
21)		4,4'-DDT		1.149	1.224	1.194	1.108	1.042	1.091	1.061	1.002	1.092	1.107	6.44
22)		Endrin Aldehyde		0.973	1.036	1.024	0.953	0.885	0.896	0.872	0.817	0.851	0.923	8.36
23)		Methoxychlor				0.750	0.688	0.623	0.591	0.547	0.487		*L	0.994
5														
24)		Mirex		1.252	1.197	1.162	1.052	0.944	0.879	0.838	0.780	0.866	*L	0.997
7														
25)		Endosulfan Su...		1.160	1.207	1.174	1.108	1.058	1.062	1.034	0.963	1.011	1.087	7.50
26)		Endrin Ketone		1.355	1.377	1.361	1.273	1.214	1.181	1.130	1.020	1.030	1.216	11.32
27)	s	Decachlorobip...		1.957	1.621	1.569	1.445	1.246	1.194	1.139	1.082	1.218	*L	0.997
3														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.091	0.087	0.082	0.077	0.066	0.063			0.078	14.38
30)	l1	chlordane-3			0.057	0.058	0.054	0.049	0.042	0.040			0.050	15.87
31)	l1	chlordane-4			0.206	0.199	0.184	0.177	0.145	0.148			0.176	14.35
32)	l1	chlordane-5			0.314	0.302	0.284	0.272	0.222	0.226			0.270	14.22

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024
Response Via : Initial Calibration

Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.047	0.054		0.051	0.050	0.047			0.050	5.77
35)	l2	toxaphene-2			0.048	0.060		0.055	0.057	0.054			0.054	8.29
36)	l2	toxaphene-3			0.048	0.066		0.054	0.054	0.053			0.055	11.91
37)	l2	toxaphene-4			0.072	0.057		0.049	0.050	0.047			0.055	18.70

Signal #2 Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.253	1.266	1.229	1.185	1.166	1.141	1.128	1.112	1.131	1.179	4.89
3)		Hexachloroben...			1.414	1.419	1.368	1.293	1.239	1.165	1.144	1.127	1.175	1.260	9.30
4)		alpha-BHC			1.511	1.542	1.524	1.470	1.523	1.589	1.606	1.620	1.737	1.569	5.07
5)		gamma-BHC (li...		1.687	1.441	1.468	1.435	1.376	1.391	1.422	1.432	1.434	1.536	1.462	6.16
6)		beta-BHC			0.764	0.753	0.737	0.694	0.673	0.631	0.618	0.604	0.640	0.679	8.92
7)		delta-BHC			1.450	1.449	1.412	1.357	1.390	1.440	1.459	1.458	1.587	1.445	4.41
8)		Heptachlor			1.386	1.419	1.380	1.304	1.278	1.296	1.270	1.233	1.296	1.318	4.74
9)		Aldrin			1.310	1.336	1.318	1.253	1.267	1.319	1.306	1.274	1.379	1.307	2.96

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024
Response Via : Initial Calibration

Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor		0.213	0.221	0.217	0.208	0.202	0.186	0.170	0.153		0.196	12.39
11)	Chlorpyrifos					0.706	0.663	0.597	0.550	0.495	0.509	*L	0.997
6													
12)	Heptachlor Ep...		1.354	1.366	1.317	1.230	1.207	1.216	1.181	1.130	1.223	1.247	6.46
13)	gamma-Chlorda...		1.174	1.199	1.176	1.109	1.093	1.117	1.091	1.063	1.208	1.137	4.66
14)	alpha-Chlorda...		1.323	1.351	1.319	1.245	1.222	1.242	1.209	1.174	1.330	1.268	4.99
15)	4,4'-DDE		1.223	1.272	1.245	1.184	1.187	1.275	1.247	1.210	1.365	1.245	4.48
16)	Endosulfan I		1.228	1.240	1.220	1.153	1.138	1.156	1.123	1.072	1.170	1.167	4.69
17)	Dieldrin		1.210	1.233	1.216	1.149	1.151	1.207	1.183	1.142	1.270	1.196	3.61
18)	Endrin		1.262	1.252	1.232	1.184	1.159	1.190	1.161	1.113	1.223	1.197	4.08
19)	4,4'-DDD		1.023	1.017	0.989	0.924	0.912	0.976	0.954	0.924	1.069	0.976	5.47
20)	Endosulfan II		1.145	1.156	1.125	1.068	1.041	1.059	1.027	0.973	1.053	1.072	5.57
21)	4,4'-DDT		1.097	1.138	1.092	1.031	1.014	1.070	1.039	1.001	1.151	1.070	4.97
22)	Endrin Aldehyde		0.992	0.971	0.957	0.888	0.851	0.879	0.856	0.821	0.917	0.903	6.53
23)	Methoxychlor				0.687	0.646	0.590	0.561	0.521	0.479		0.581	13.27
24)	Mirex		1.060	1.046	1.017	0.954	0.871	0.822	0.776	0.730	0.851	0.903	13.41
25)	Endosulfan Su...		1.111	1.121	1.084	1.030	0.990	1.006	0.971	0.930	1.045	1.032	6.28

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024
Response Via : Initial Calibration

Calibration Files
1 =18240815i-03.d 2 =18240815i-04.d 3 =18240815i-22.d 4 =18240815i-23.d 5 =18240815i-16.d
7 =18240815i-24.d 8 =18240815i-18.d 9 =18240815i-26.d 10 =18240815i-20.d 11 =18240815i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone		1.200	1.207	1.182	1.129	1.076	1.096	1.052	0.998	1.104	1.116	6.32
27)	s	Decachlorobip...		1.081	1.114	1.071	1.015	0.911	0.879	0.827	0.780	0.897	0.953	12.63
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1		0.048	0.044	0.044	0.041	0.036	0.035				0.041	12.02
30)	l1	chlordane-3		0.053	0.053	0.050	0.044	0.037	0.036				0.046	16.76
31)	l1	chlordane-4		0.180	0.175	0.173	0.168	0.143	0.146				0.164	9.49
32)	l1	chlordane-5		0.146	0.142	0.138	0.132	0.112	0.114				0.131	11.17
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1		0.020	0.027		0.026	0.026	0.026				0.025	11.73
35)	l2	toxaphene-2		0.034	0.042		0.039	0.037	0.039				0.038	7.22
36)	l2	toxaphene-3		0.039	0.048		0.046	0.046	0.047				0.045	7.74
37)	l2	toxaphene-4		0.033	0.044		0.041	0.040	0.042				0.040	10.64

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 13:54
Operator : PEST18:peg
Sample : pem18240815i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1961557,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:55:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:48:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.685	1.785	566.8E6	326.6E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.241	5.037	1086010	706738	0.038M4	0.043M4
18)	Endrin	4.786	5.501	1250.1E6	714.5E6	45.593M4	45.672M4
19)	4,4'-DDD	4.913	5.636	2624758	1928195	0.118M4	0.151M4
21)	4,4'-DDT	5.217	5.920	2272.9E6	1296.4E6	90.558M4	92.696M4
22) D	Endrin Aldeh	5.473	6.013	2137162	1826693	0.102M4	0.155M4
26)	Endrin Keton	6.105	6.668	7053493	4101142	0.256M4	0.281M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 13:54
Operator : PEST18:peg
Sample : pem18240815i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1961557,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:55:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:48:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

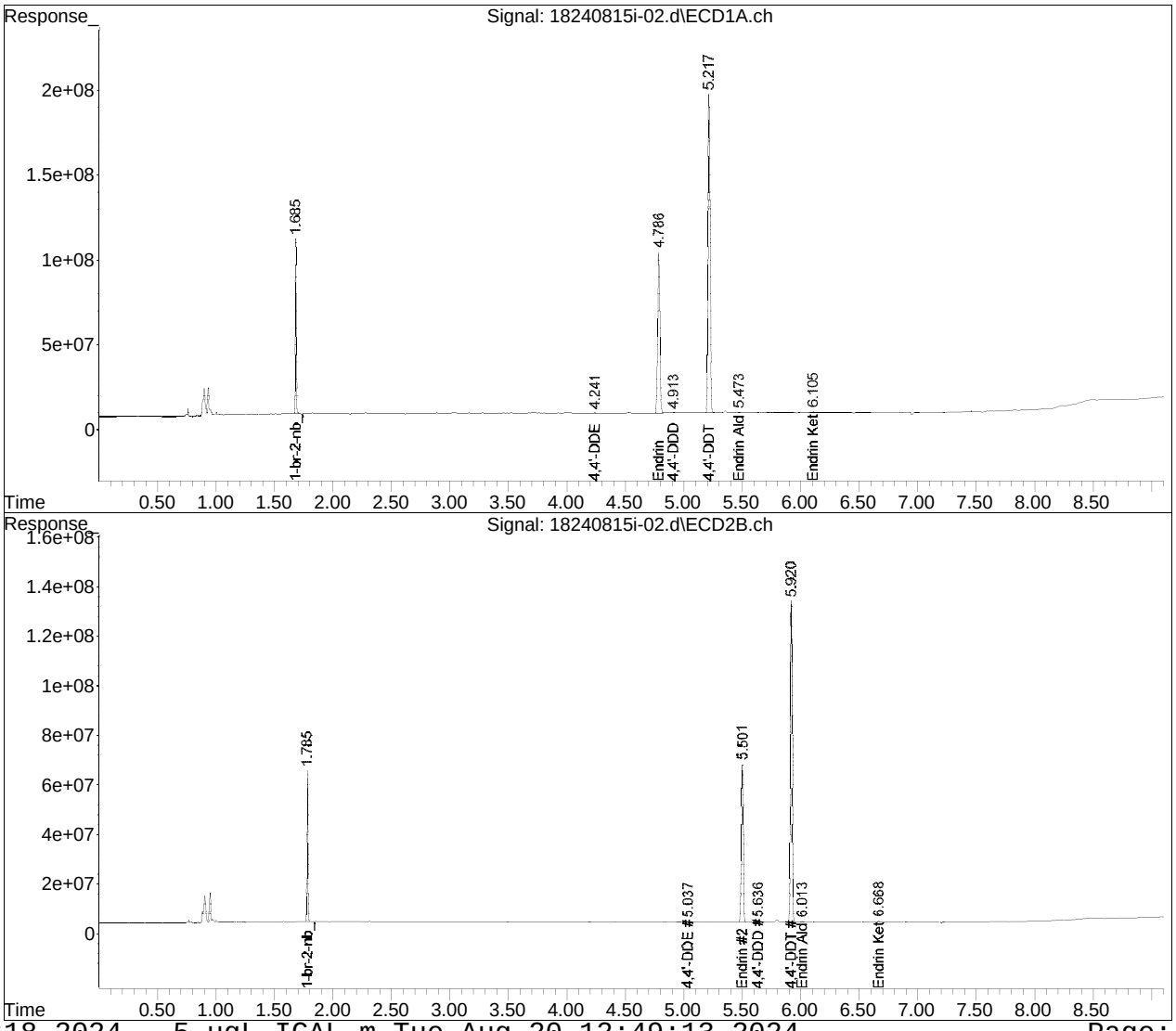
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 13:54
Operator : PEST18:peg
Sample : pem18240815i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1961557,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:55:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:48:29 2024
Response via : Initial Calibration
Integrator: ChemStation

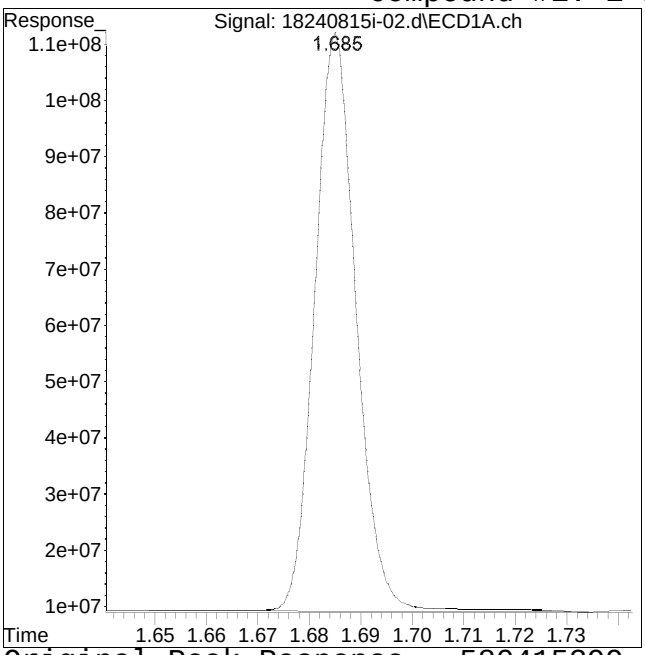
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

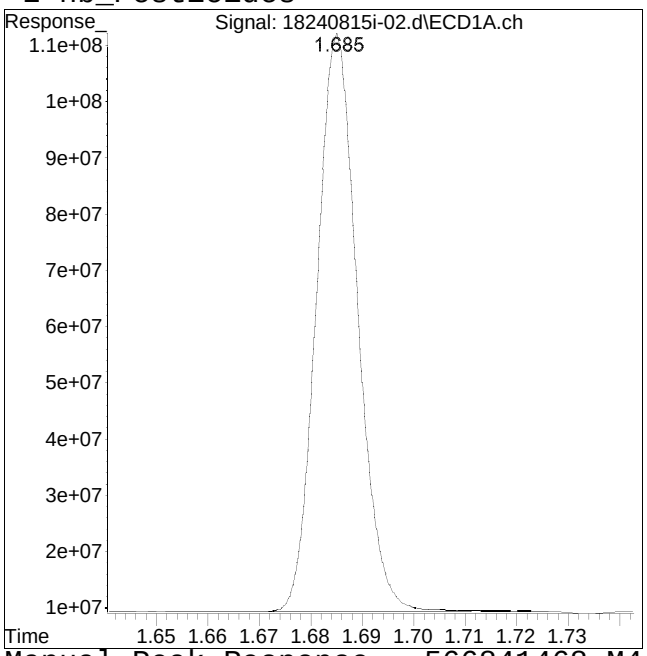


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #1: 1-br-2-nb_Pesticides



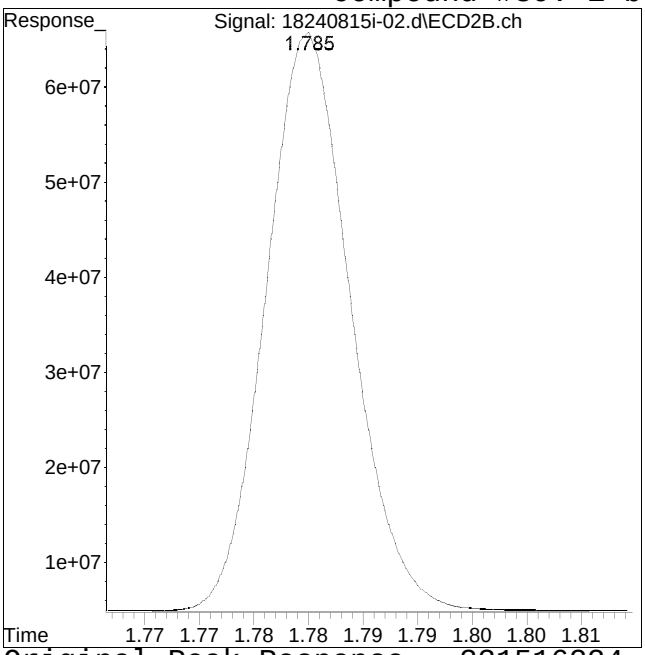


Original Peak Response = 580415399 Manual Peak Response = 566841468 M4
M4 = Poor automated baseline construction.

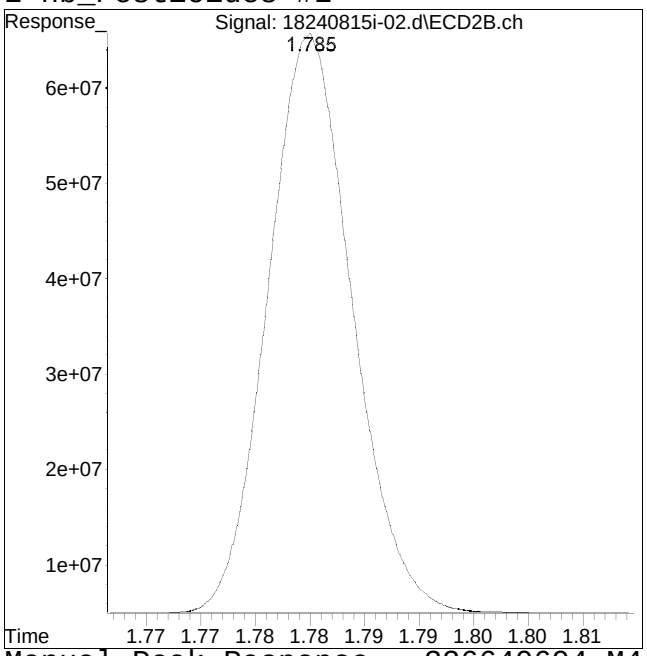
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 331516224



Manual Peak Response = 326640694 M4

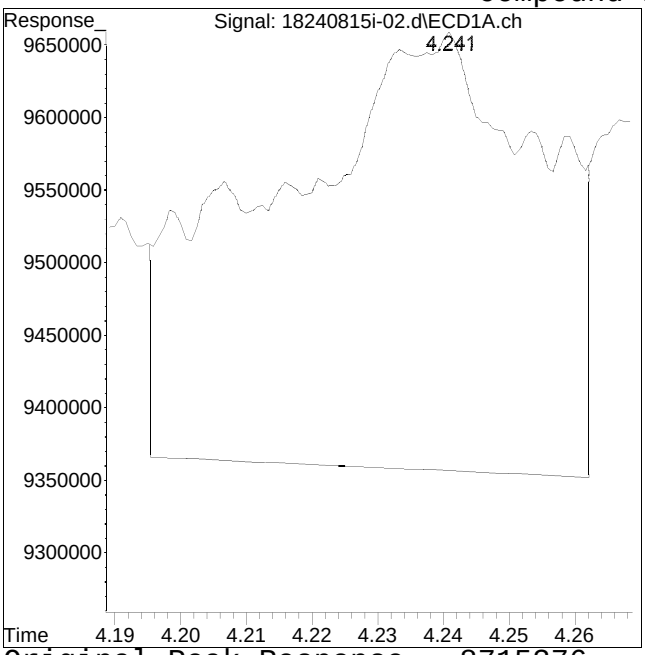
M4 = Poor automated baseline construction.

Manual Integration Report

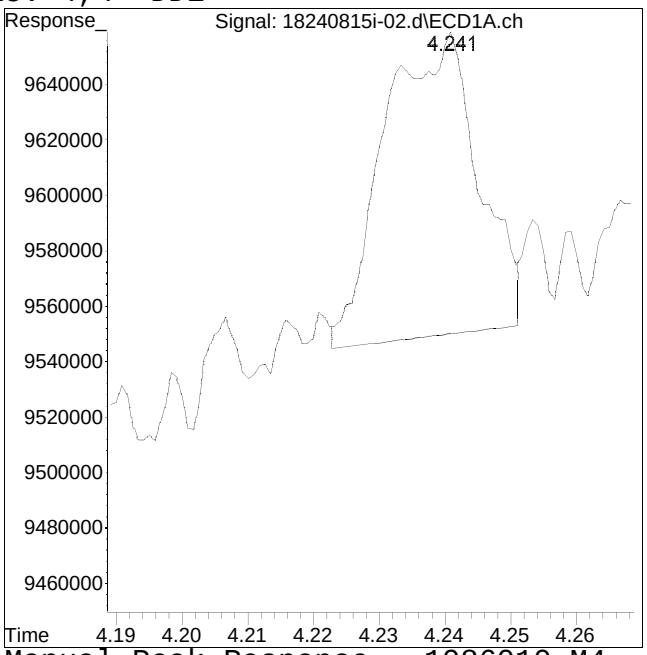
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #15: 4,4'-DDE



Original Peak Response = 8715376



Manual Peak Response = 1086010 M4

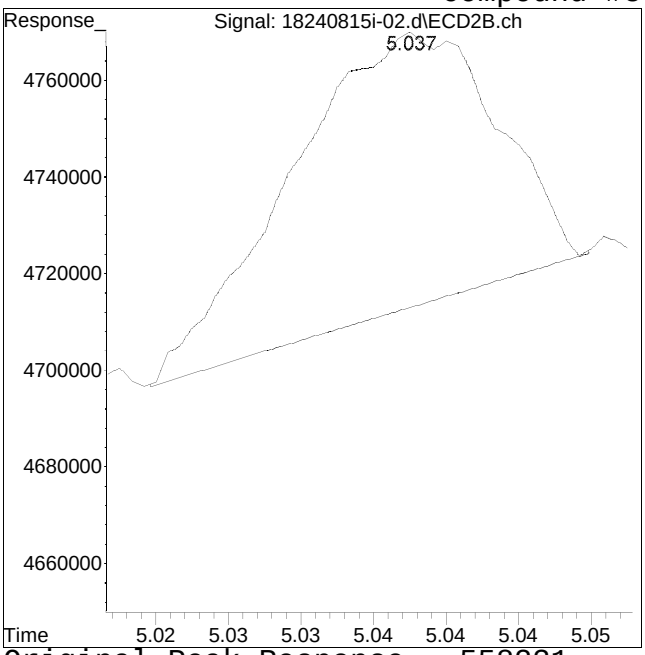
M4 = Poor automated baseline construction.

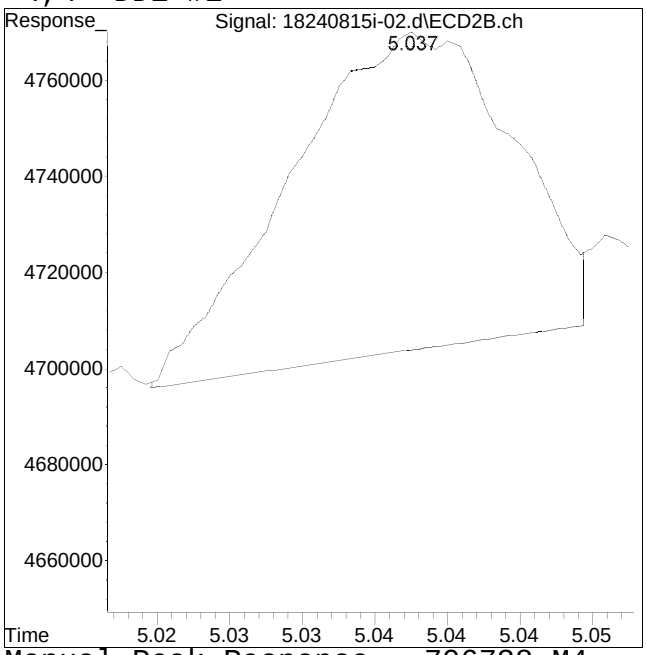
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #53: 4,4'-DDE #2



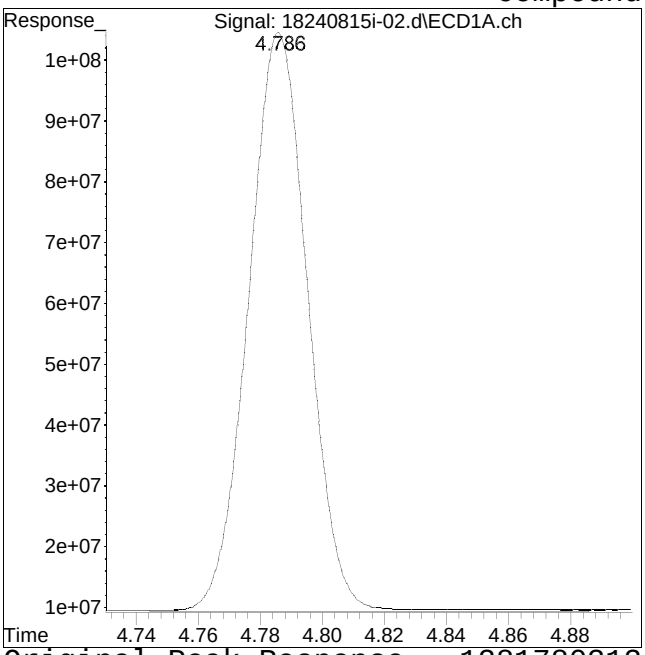


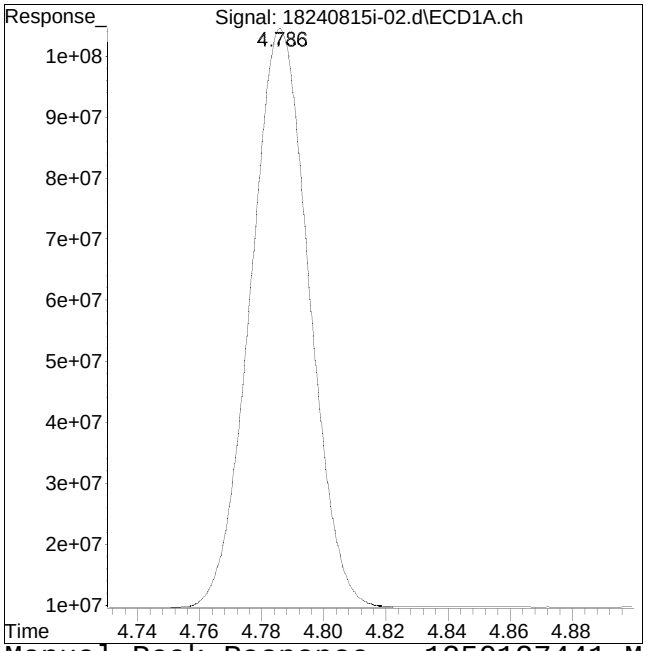
Original Peak Response = 558231
Manual Peak Response = 706738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #18: Endrin



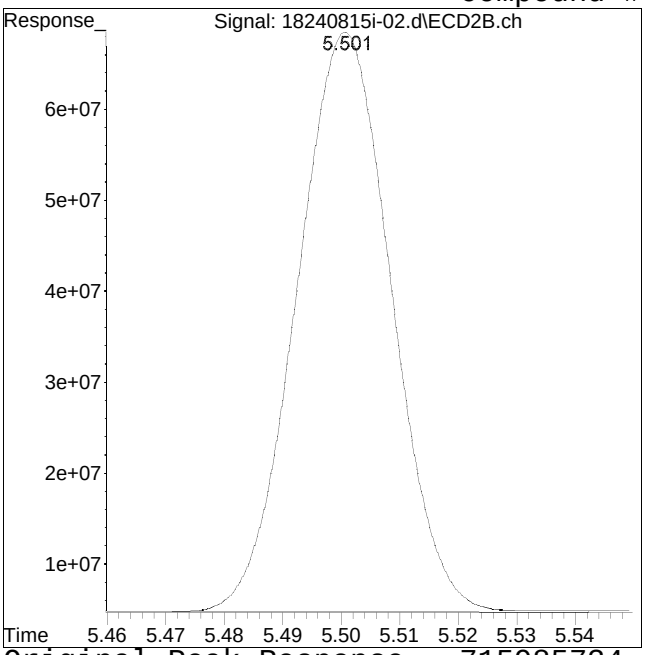


Original Peak Response = 1281780313 Manual Peak Response = 1250127441 M4
M4 = Poor automated baseline construction.

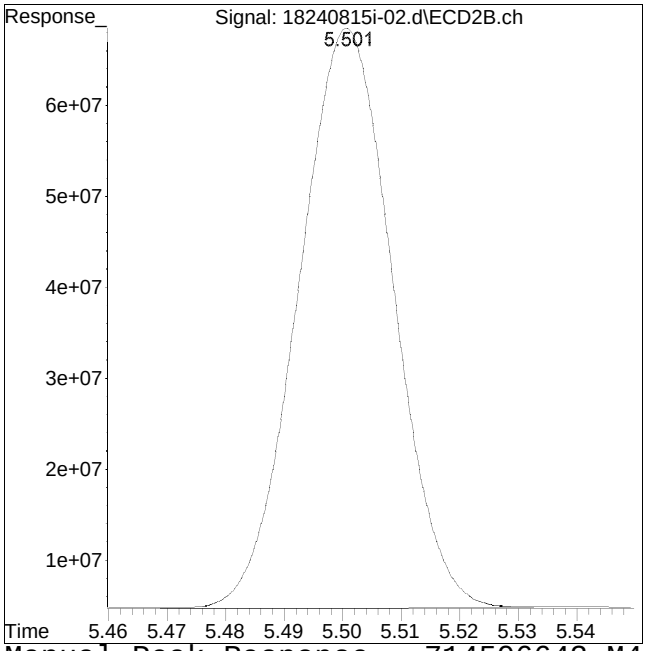
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #56: Endrin #2



Original Peak Response = 715985734



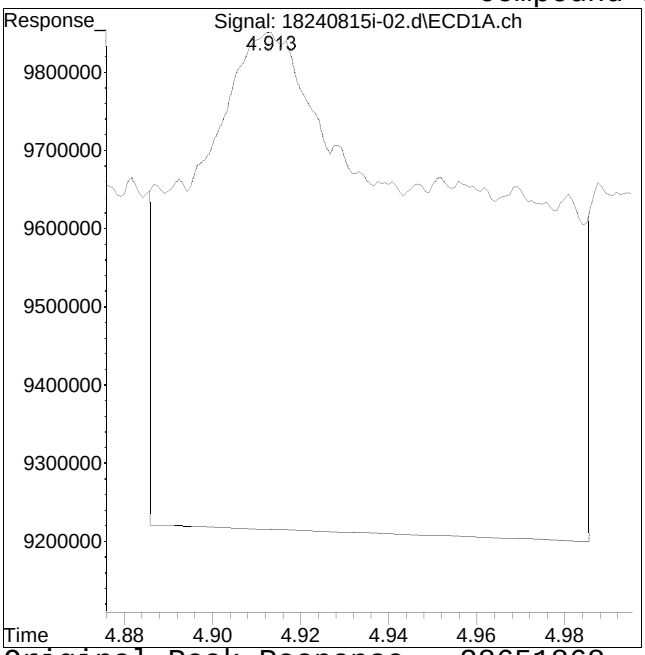
Manual Peak Response = 714506643 M4

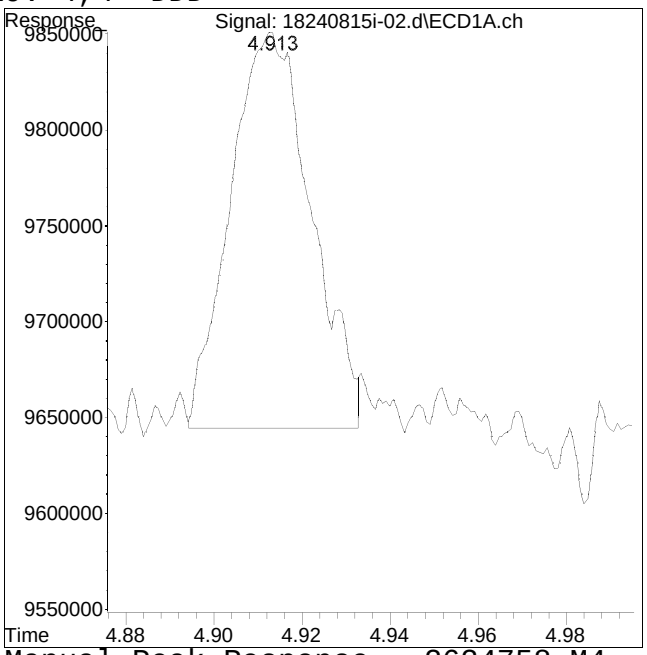
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #19: 4,4'-DDD



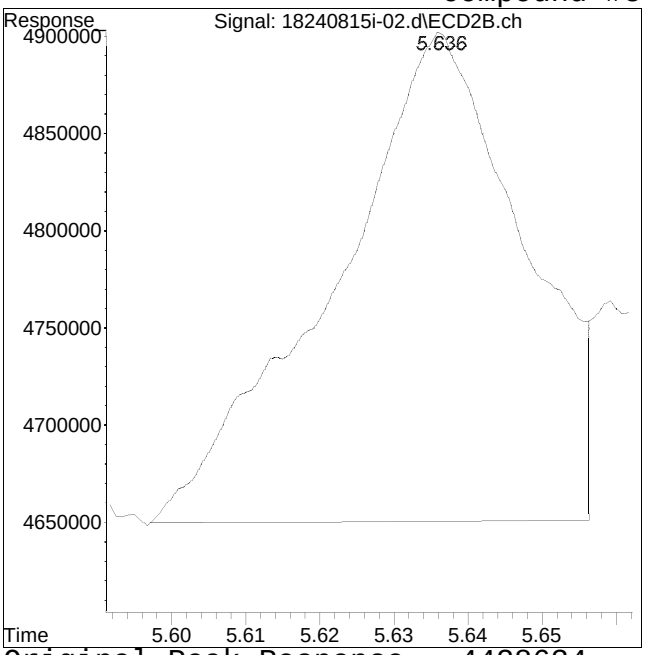


Original Peak Response = 28651868 Manual Peak Response = 2624758 M4
M4 = Poor automated baseline construction.

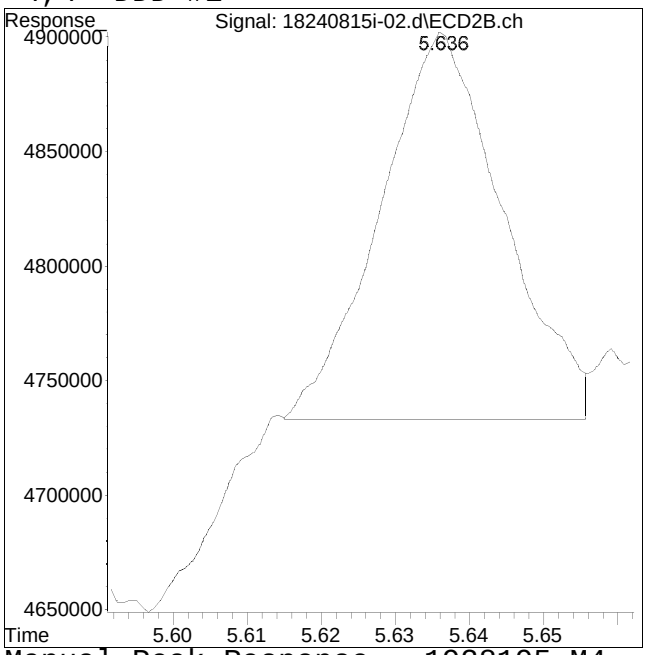
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 4428634



Manual Peak Response = 1928195 M4

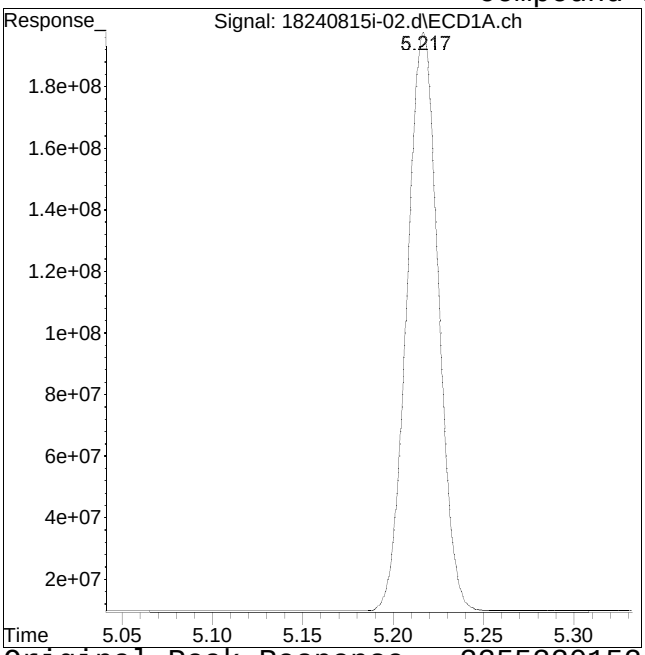
M4 = Poor automated baseline construction.

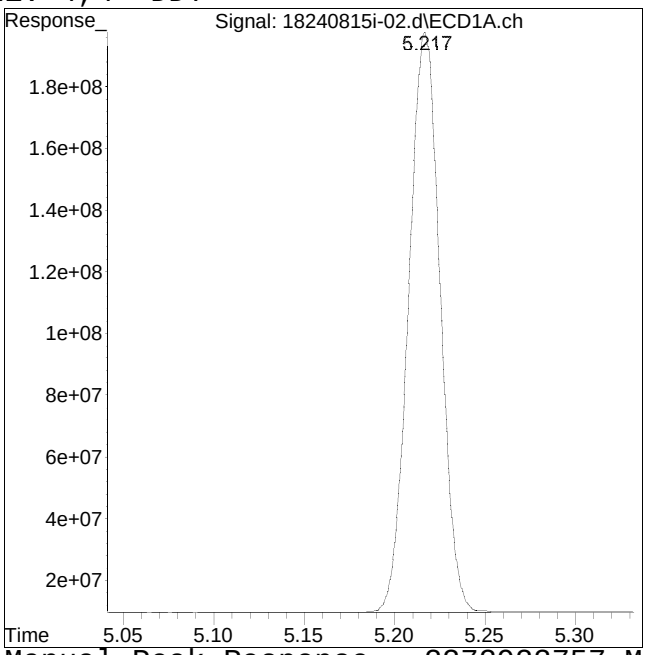
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #21: 4,4'-DDT





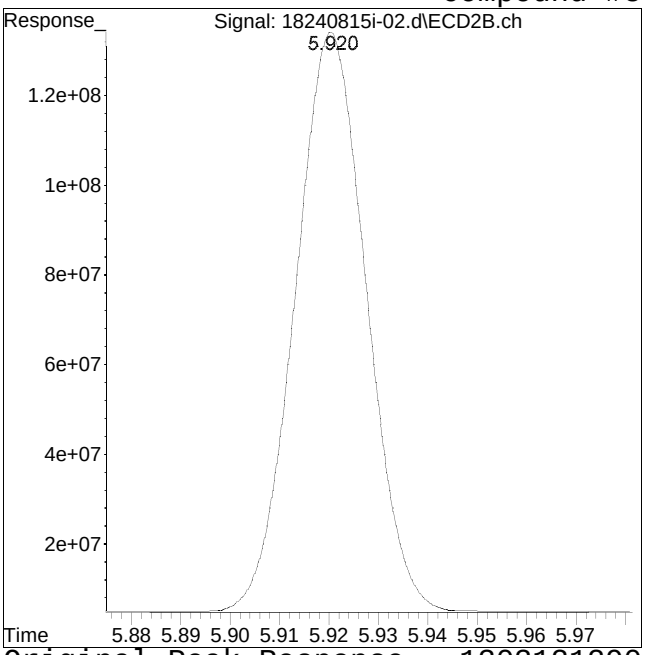
Original Peak Response = 2355320152 Manual Peak Response = 2272923757 M4
M4 = Poor automated baseline construction.

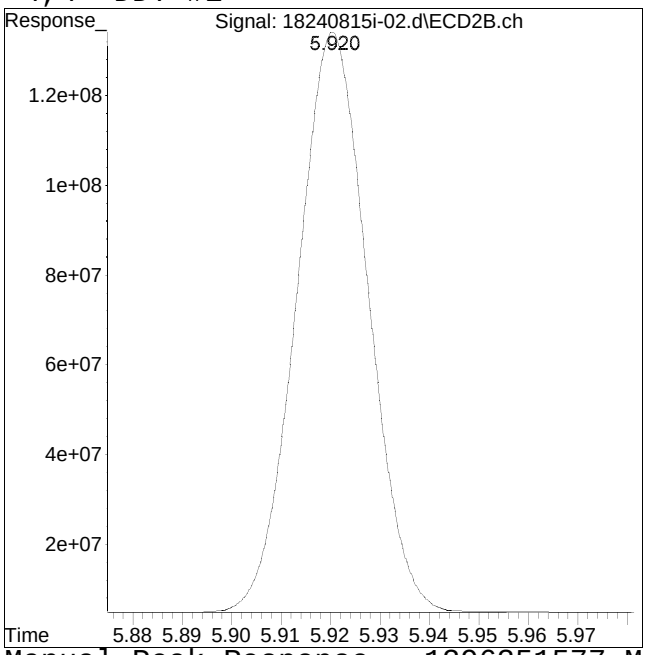
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #59: 4,4'-DDT #2



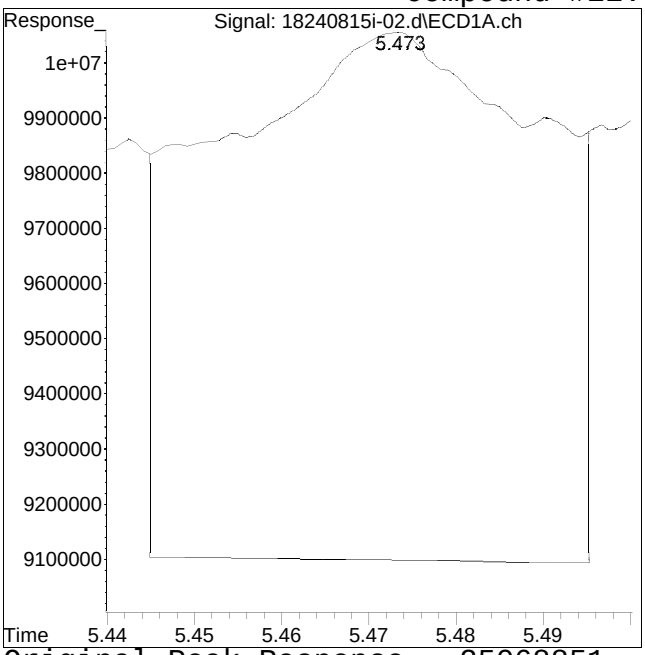


Original Peak Response = 1303121290 Manual Peak Response = 1296351577 M4
M4 = Poor automated baseline construction.

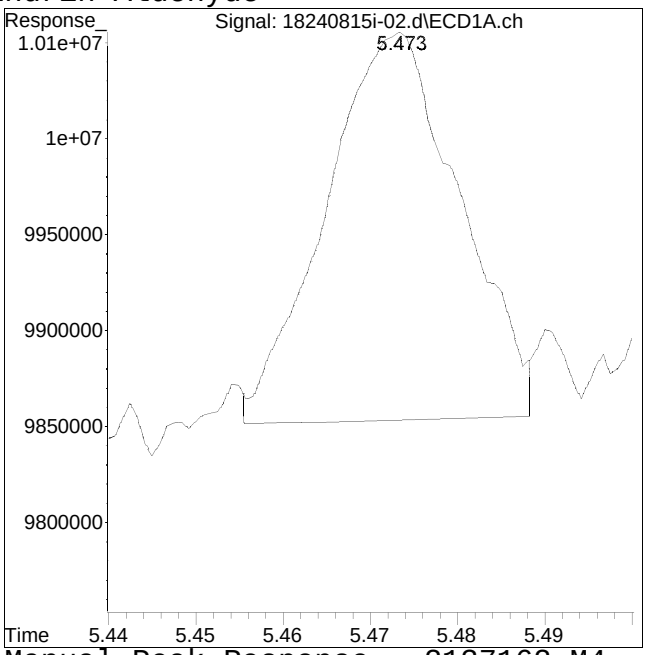
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-02.d
Date Inj'd : 8/15/2024 13:54
Sample : pem18240815i-01,42e,,pp 11
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 10:55 am

Compound #22: Endrin Aldehyde



Original Peak Response = 25068851



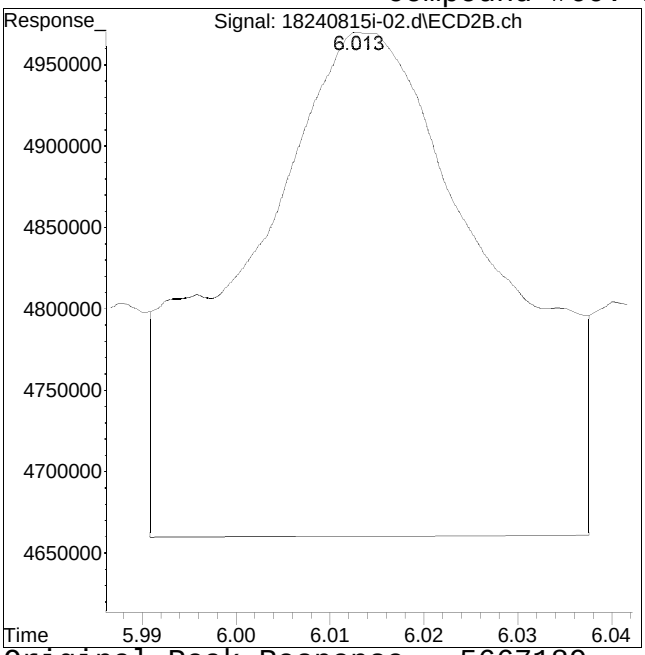
Manual Peak Response = 2137162 M4

M4 = Poor automated baseline construction.

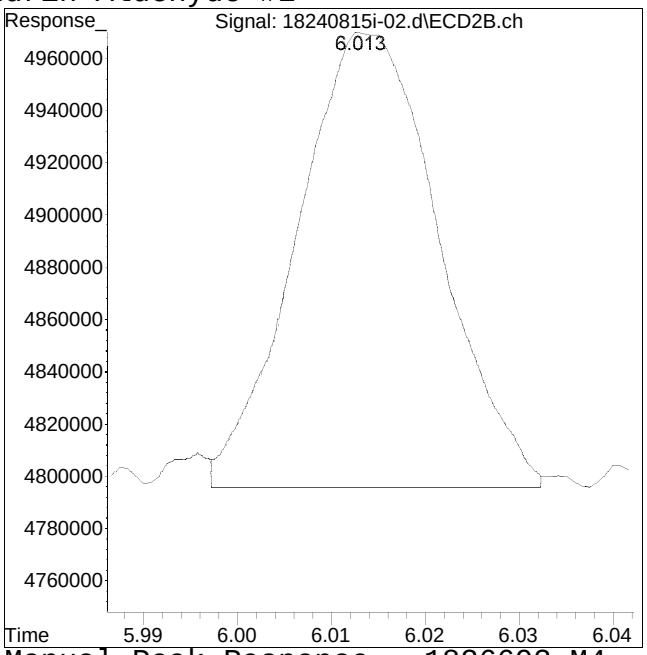
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 5667189



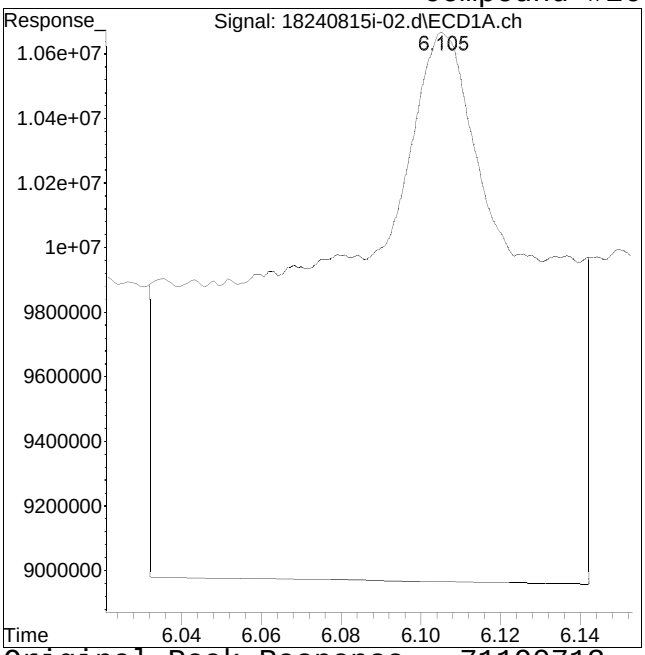
Manual Peak Response = 1826693 M4

M4 = Poor automated baseline construction.

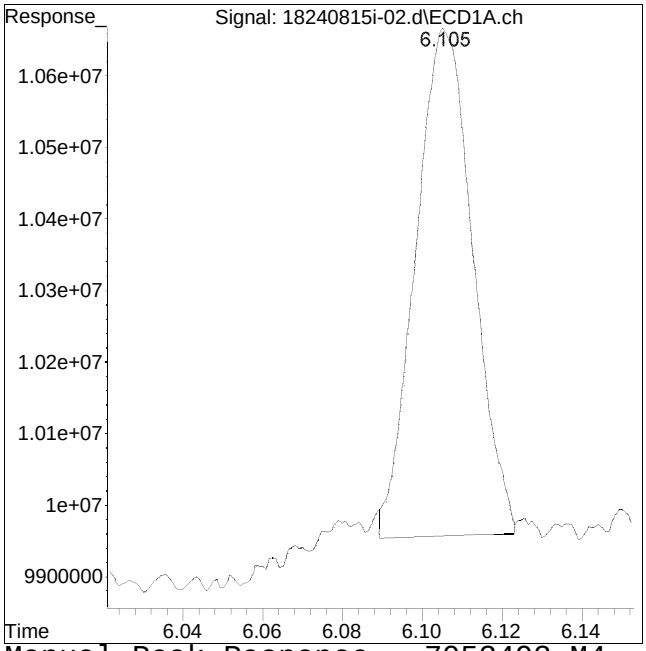
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #26: Endrin Ketone



Original Peak Response = 71190713



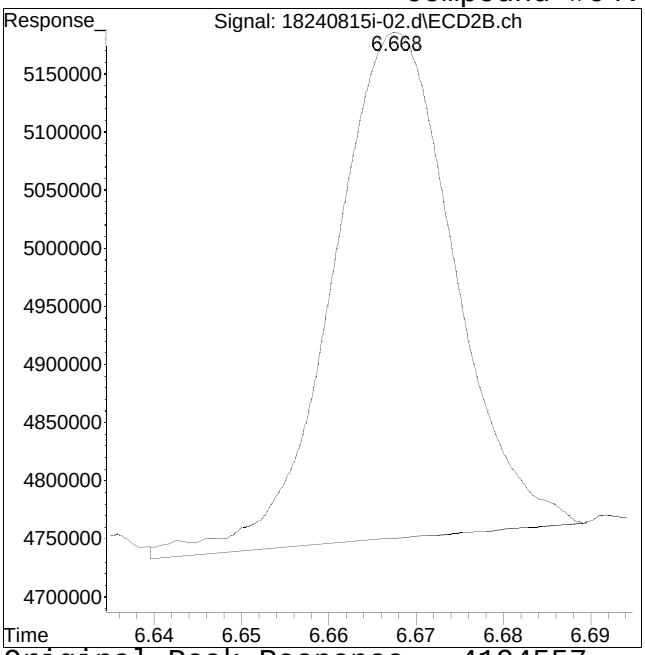
Manual Peak Response = 7053493 M4

M4 = Poor automated baseline construction.

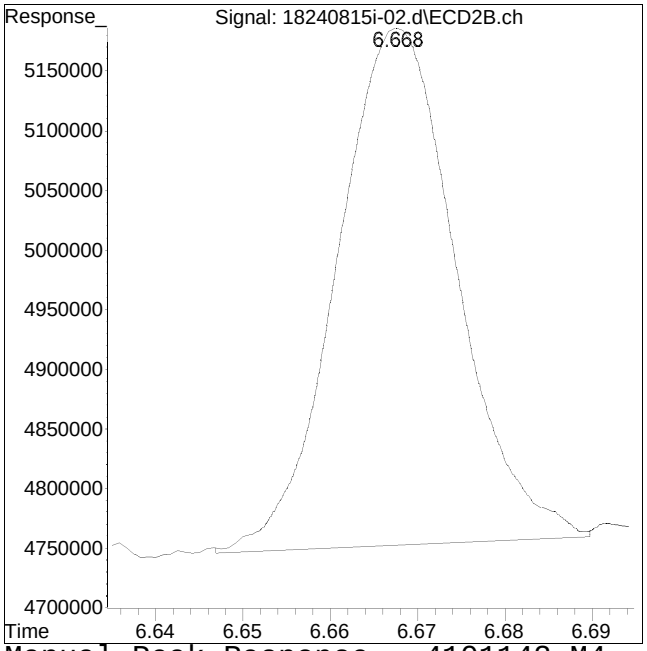
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-02.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 13:54 Instrument : Pest 18
Sample : pem18240815i-01,42e,,pp 11Quant Date : 8/16/2024 10:55 am

Compound #64: Endrin Ketone #2



Original Peak Response = 4194557



Manual Peak Response = 4101142 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:05
Operator : PEST18:peg
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:51:03 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:50:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.683	1.784	501.3E6	296.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.689	3.083	16041412	10005226	0.576M4	0.574M4
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:05
Operator : PEST18:peg
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:51:03 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:50:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)		Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

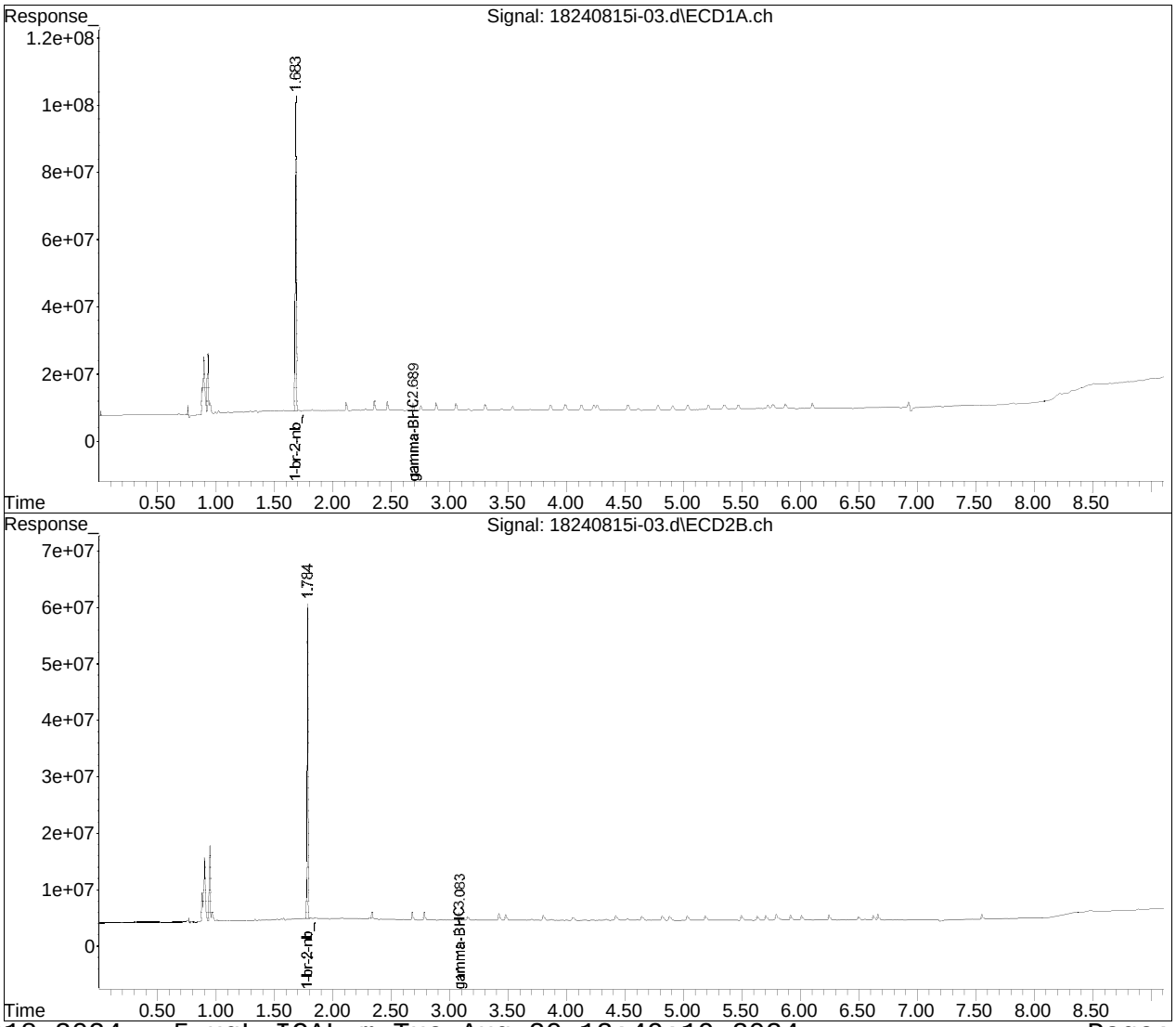
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:05
Operator : PEST18:peg
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:51:03 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:50:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

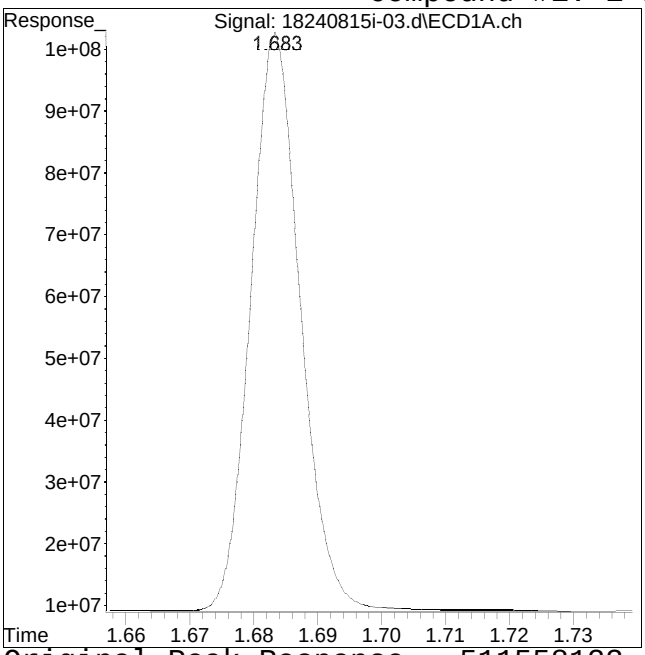


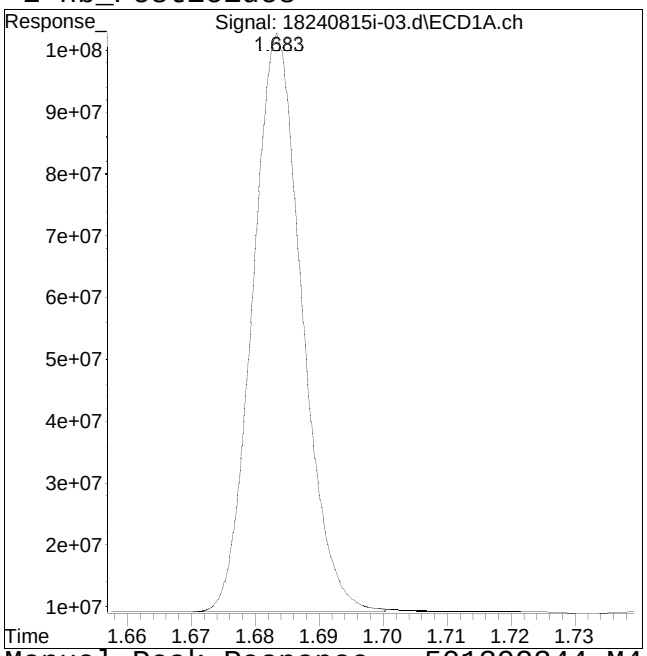
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-03.d
Date Inj'd : 8/15/2024 14:05
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:51 am

Compound #1: 1-br-2-nb_Pesticides



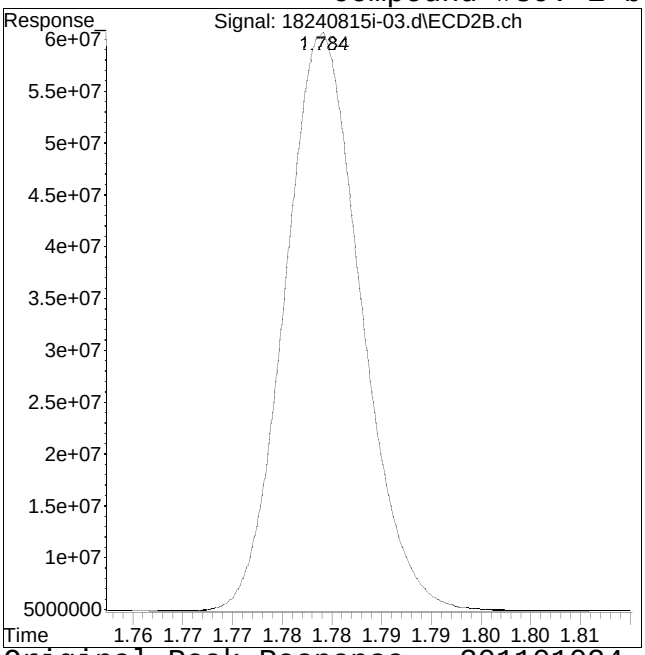


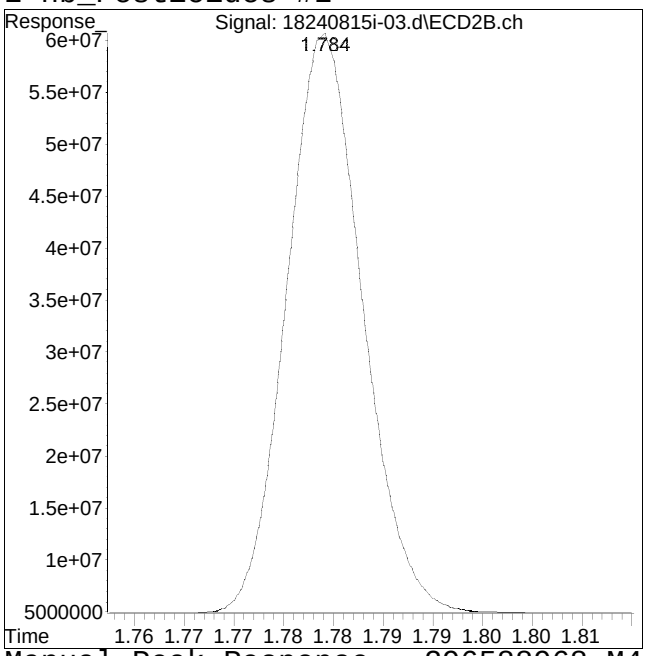
Original Peak Response = 511558123 Manual Peak Response = 501302344 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-03.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:05 Instrument : Pest 18
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/16/2024 7:51 am

Compound #39: 1-br-2-nb_Pesticides #2



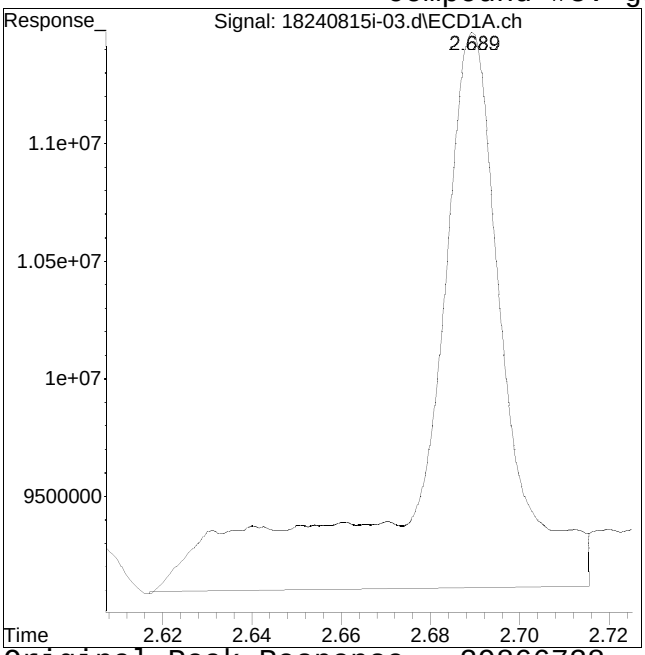


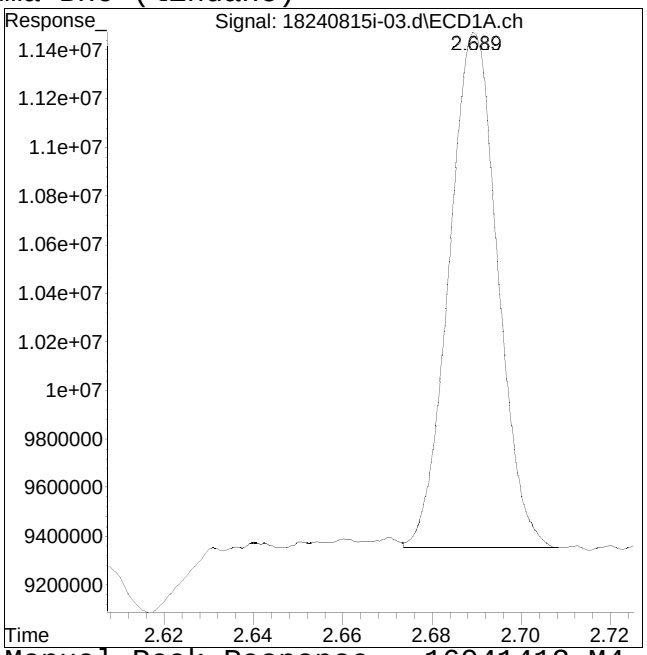
Original Peak Response = 301101024 Manual Peak Response = 296588968 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-03.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:05 Instrument : Pest 18
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/16/2024 7:51 am

Compound #5: gamma-BHC (lindane)



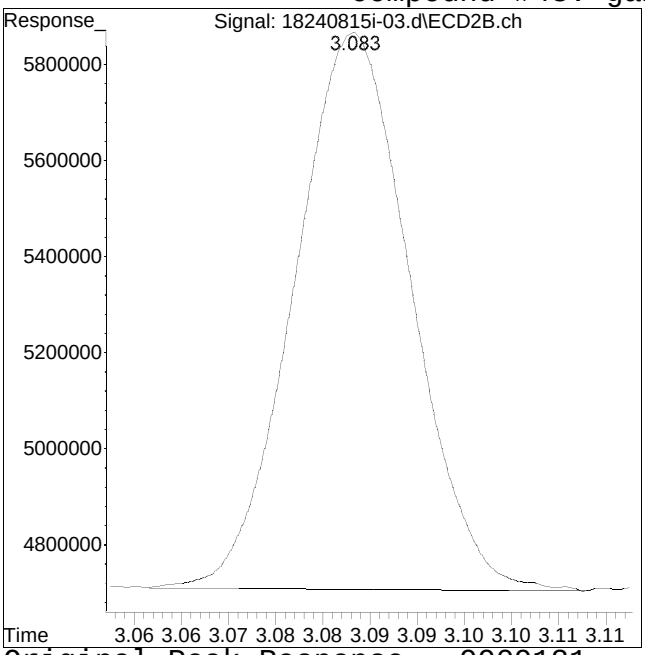


Original Peak Response = 29866738 Manual Peak Response = 16041412 M4
M4 = Poor automated baseline construction.

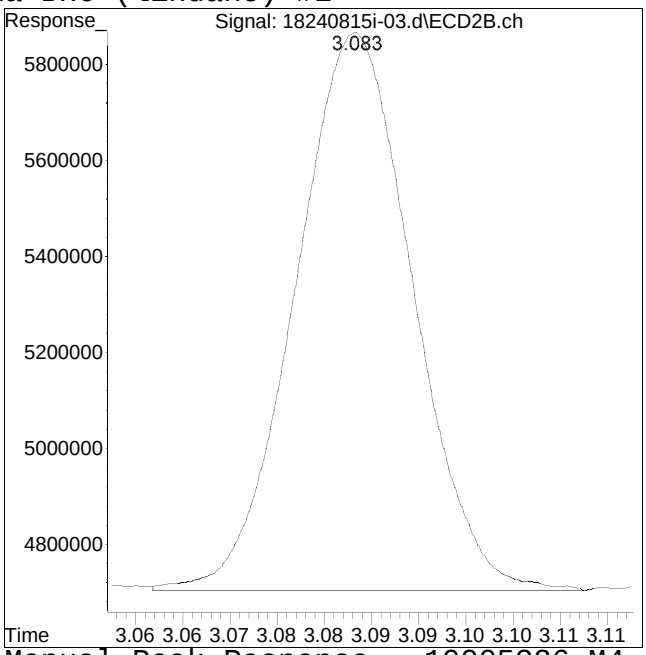
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-03.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:05 Instrument : Pest 18
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/16/2024 7:51 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 9909121



Manual Peak Response = 10005226 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:16
Operator : PEST18:peg
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:54:41 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:54:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	546.0E6	320.4E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.340	28638187	16057214	1.075M4	1.063M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		2.15%#	2.13%#
27)	s	Decachlorobi	6.923	7.554	42744337	13852755	1.305M4	1.134
		Spiked Amount 50.000	Range 30 - 150		Recovery =		2.61%#	2.27%#
		Target Compounds						
3)		Hexachlorobe	2.358	2.684	35297380	18119452	1.129M4	1.122
4)		alpha-BHC	2.469	2.786	33921849	19367418	1.015M4	0.963M4
5)		gamma-BHC (l	2.689	3.083	31329137	18469487	1.022M4	0.986M4
6)		beta-BHC	2.753	3.156	16240443	9786288	1.165M4	1.124M4
7)		delta-BHC	2.885	3.426	31864963	18586318	1.039M4	1.004
8)		Heptachlor	3.054	3.484	31871513	17765825	1.110M4	1.052
9)		Aldrin	3.304	3.804	29411641	16794814	1.049M4	1.003
10)		Alachlor	3.443	3.700	4790680	2726720	1.171M4	1.113
11)		Chlorpyrifos	3.537	4.056	15613094	9880277	1.185M4	1.193M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:16
Operator : PEST18:peg
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:54:41 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:54:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.424	26895792	17352148	1.061M4	1.086M4
13)		gamma-Chlord	3.989	4.646	27868860	15045957	1.119M4	1.033M4
14)		alpha-Chlord	4.126	4.821	29848243	16960965	1.074M4	1.043M4
15)		4,4'-DDE	4.231	5.035	27192752	15677694	0.982M4	0.982
16)		Endosulfan I	4.260	4.883	26787338	15741930	1.078M4	1.053M4
17)		Dieldrin	4.523	5.190	28505029	15503433	1.080M4	1.012
18)		Endrin	4.780	5.499	28136089	16176535	1.065M4	1.054
19)		4,4'-DDD	4.905	5.634	22321187	13113360	1.041M4	1.048
20)		Endosulfan I	5.033	5.706	25917064	14669880	1.082M4	1.068M4
21)		4,4'-DDT	5.211	5.918	25086273	14055531	1.038M4	1.025M4
22)		Endrin Aldeh	5.467	6.013	21254957	12707091	1.054M4	1.097M4
23)		Methoxychlor	5.719	6.499	16027376	9389244	1.167M4	1.213M4
24)		Mirex	5.765	6.626	27354740	13584501	1.257M4	1.174
25)		Endosulfan S	5.870	6.247	25344452	14240173	1.068M4	1.077
26)		Endrin Keton	6.101	6.666	29588023	15375827	1.114M4	1.075
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:16
Operator : PEST18:peg
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:54:41 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:54:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

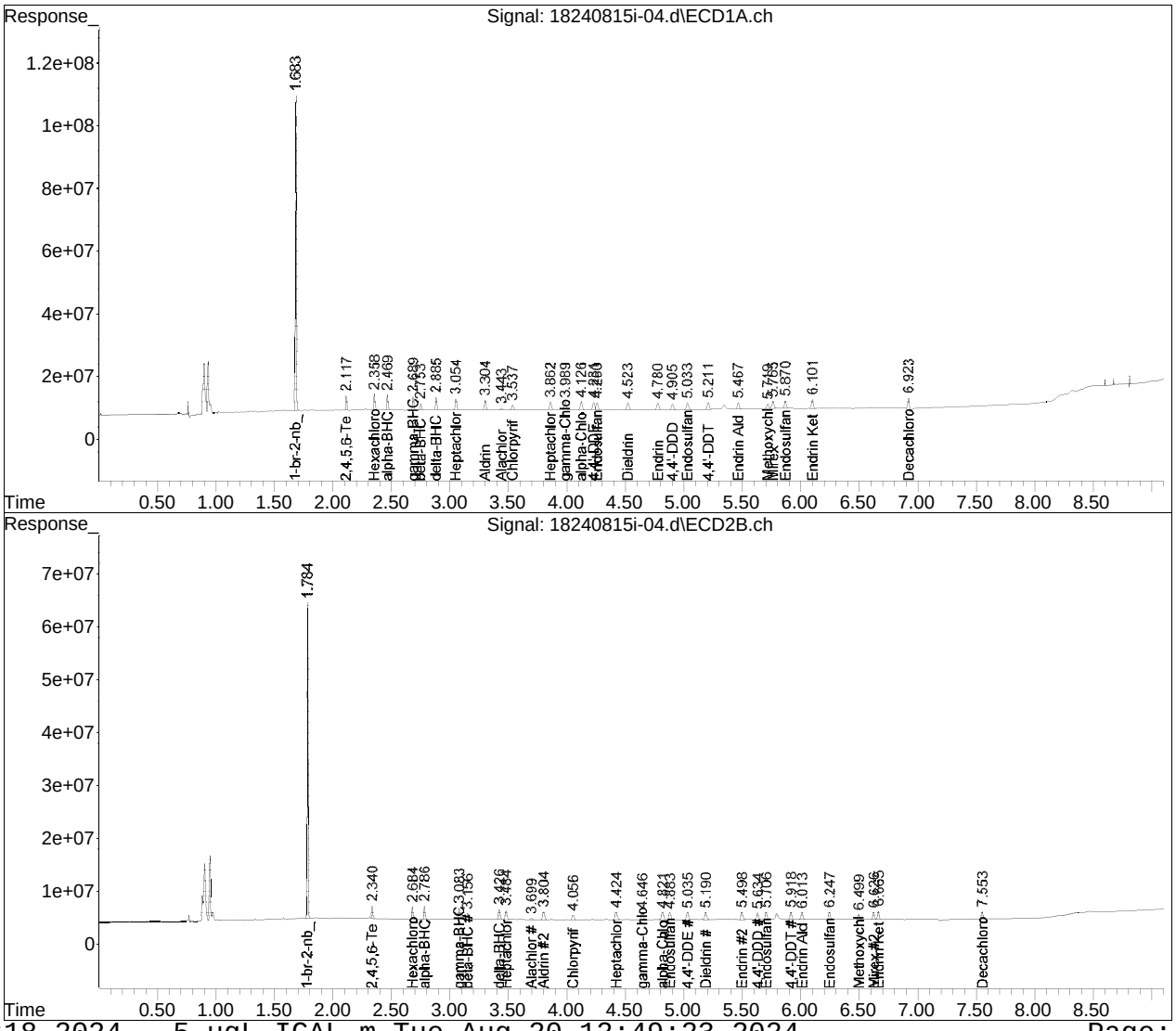
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:16
Operator : PEST18:peg
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:54:41 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:54:33 2024
Response via : Initial Calibration
Integrator: ChemStation

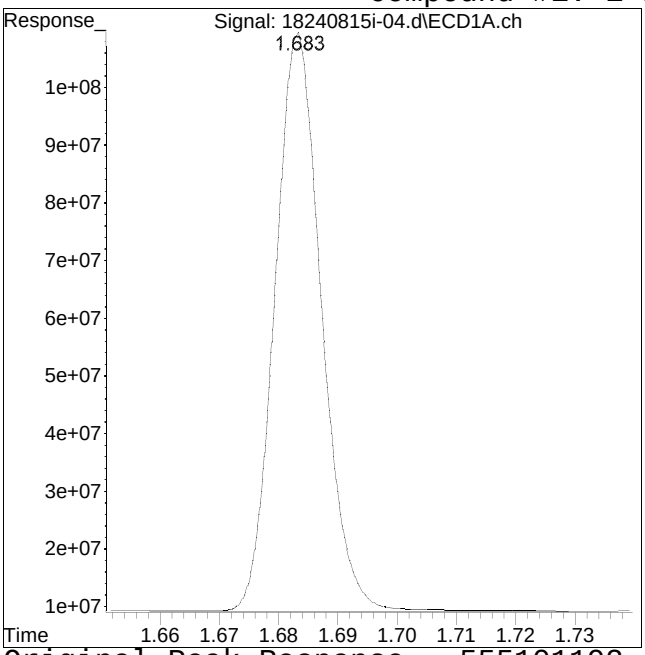
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

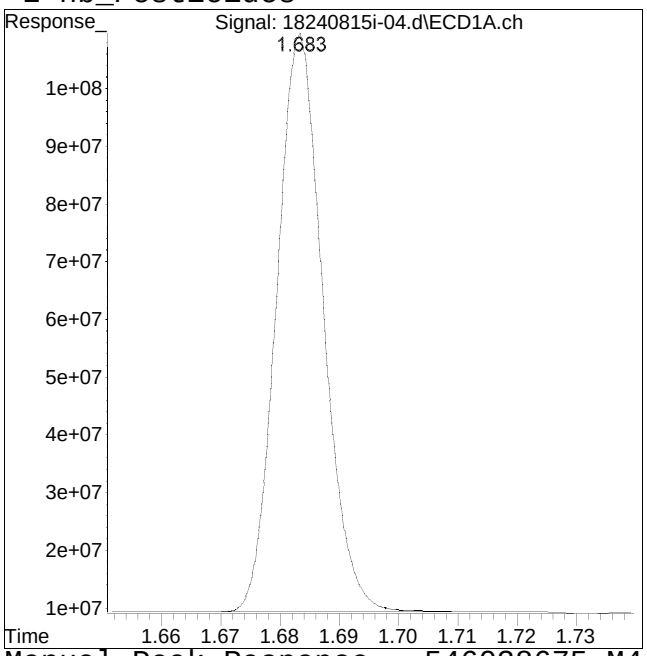


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #1: 1-br-2-nb_Pesticides



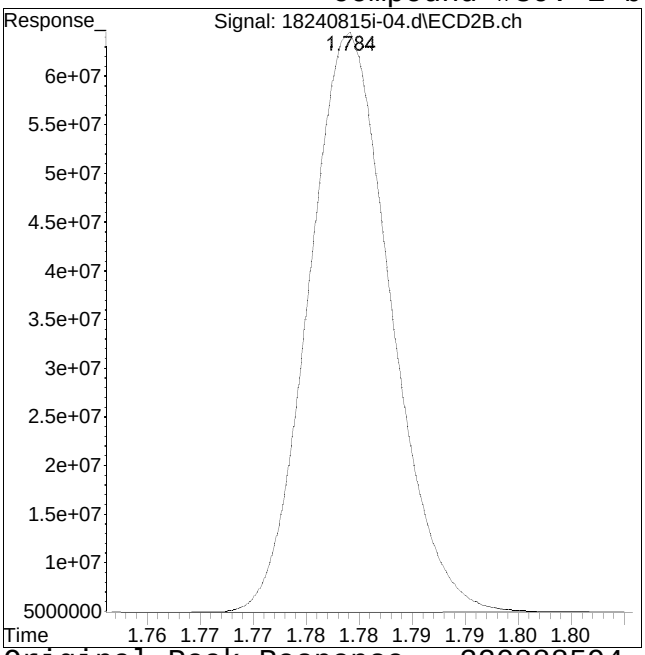


Original Peak Response = 555101192 Manual Peak Response = 546038675 M4
M4 = Poor automated baseline construction.

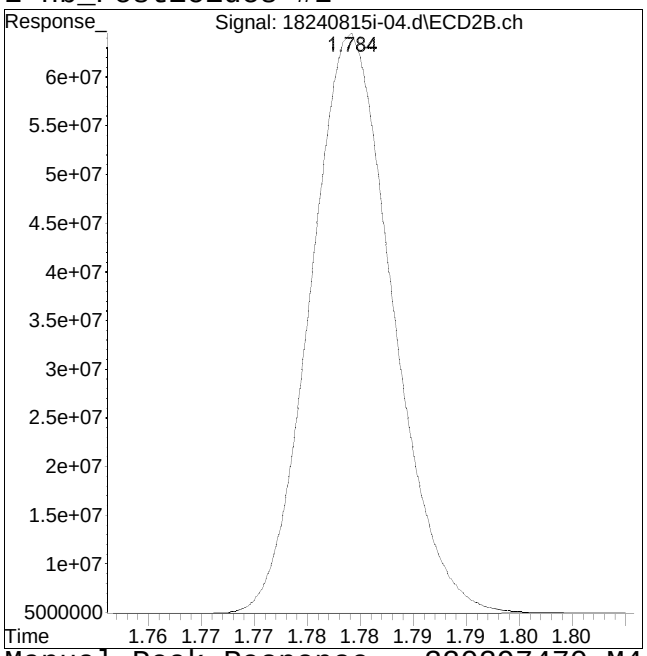
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 320888594



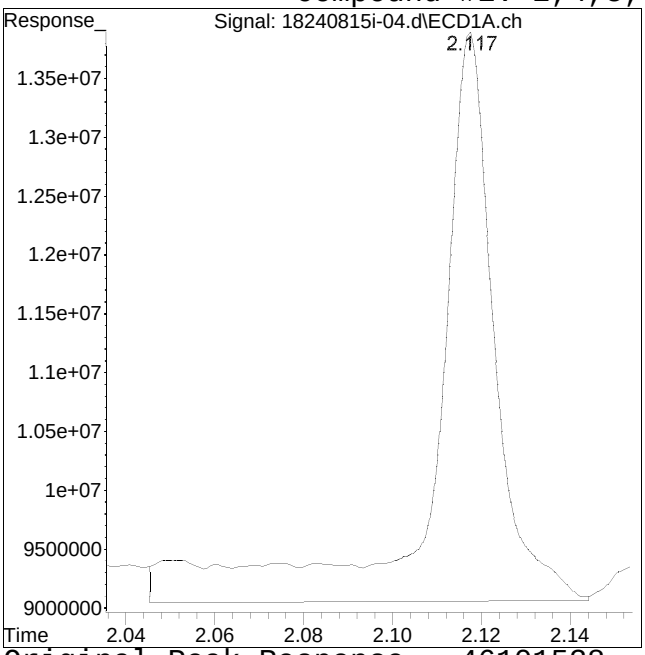
Manual Peak Response = 320397470 M4

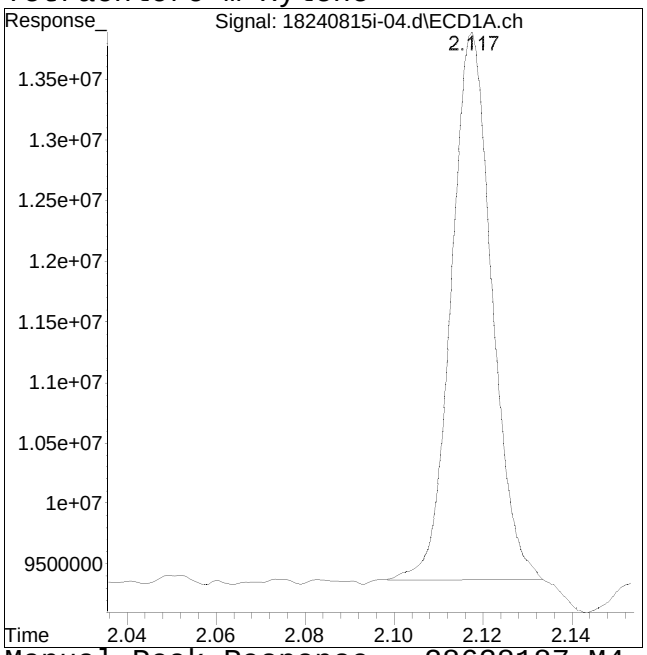
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



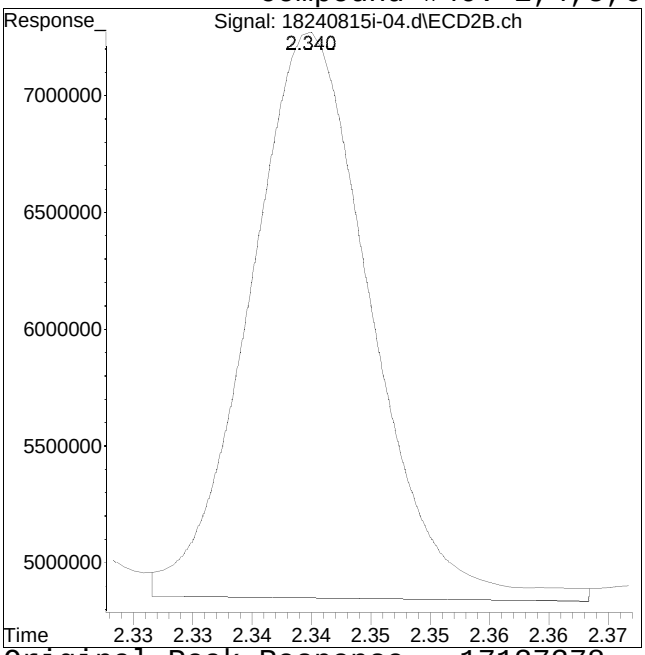


Original Peak Response = 46101538 Manual Peak Response = 28638187 M4
M4 = Poor automated baseline construction.

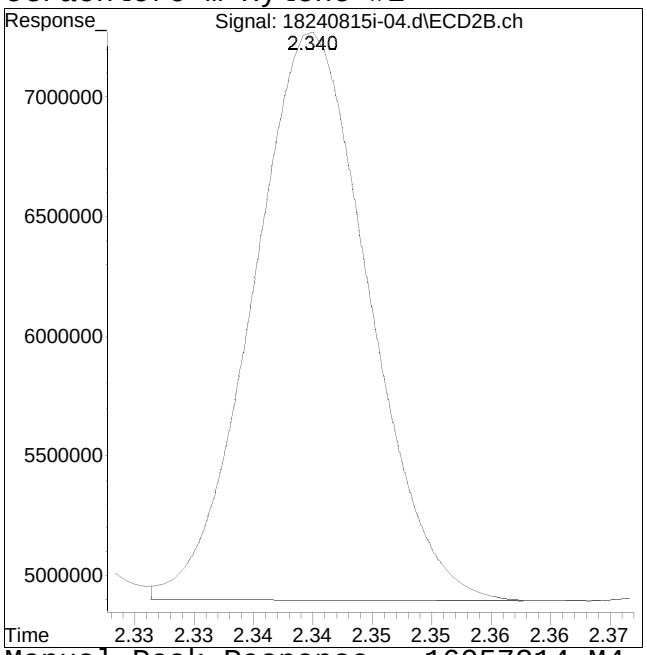
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 17137378



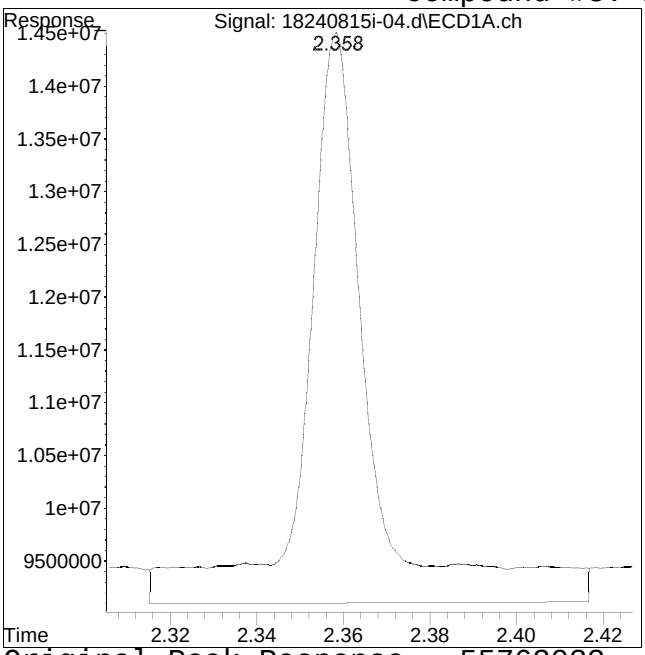
Manual Peak Response = 16057214 M4

M4 = Poor automated baseline construction.

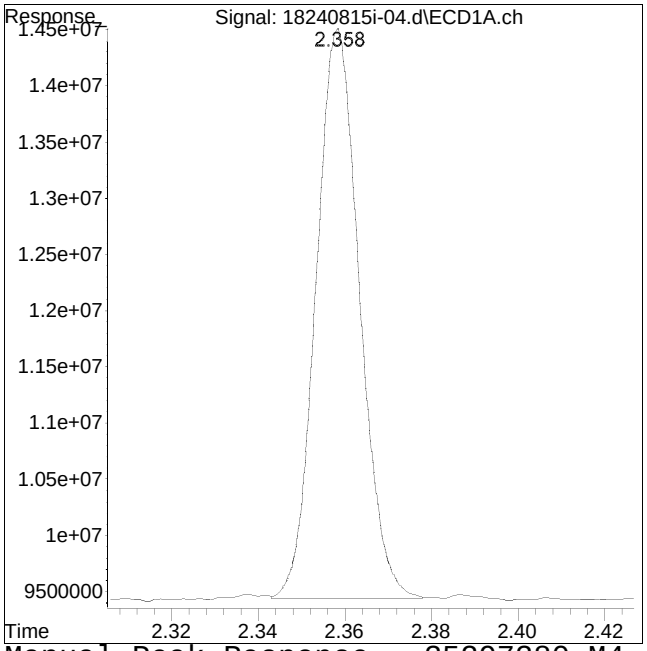
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #3: Hexachlorobenzene



Original Peak Response = 55763033

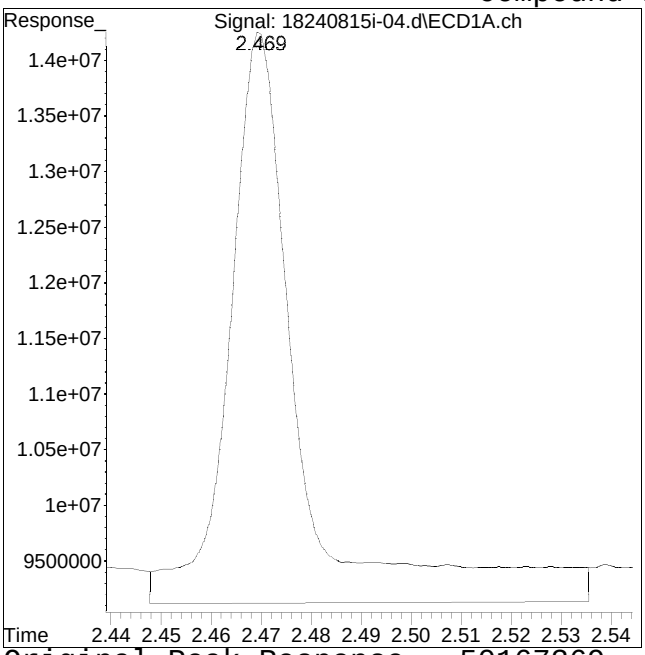


Manual Peak Response = 35297380 M4
M4 = Poor automated baseline construction.

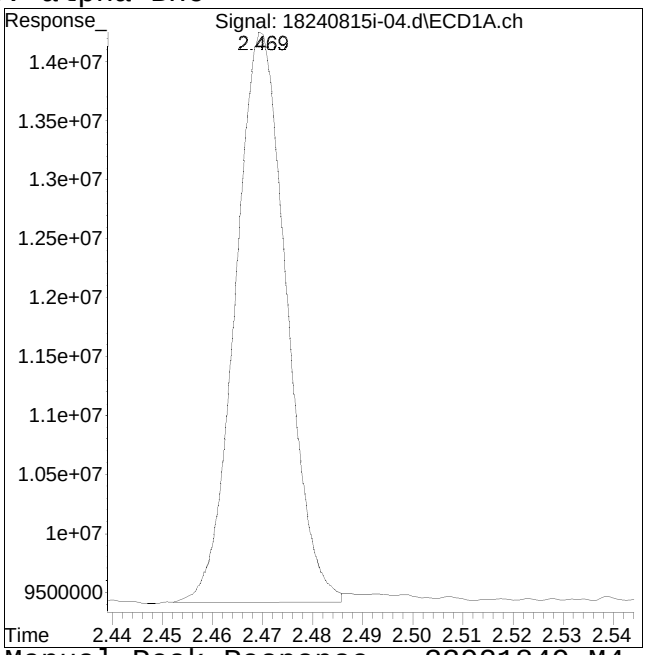
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #4: alpha-BHC



Original Peak Response = 50167369



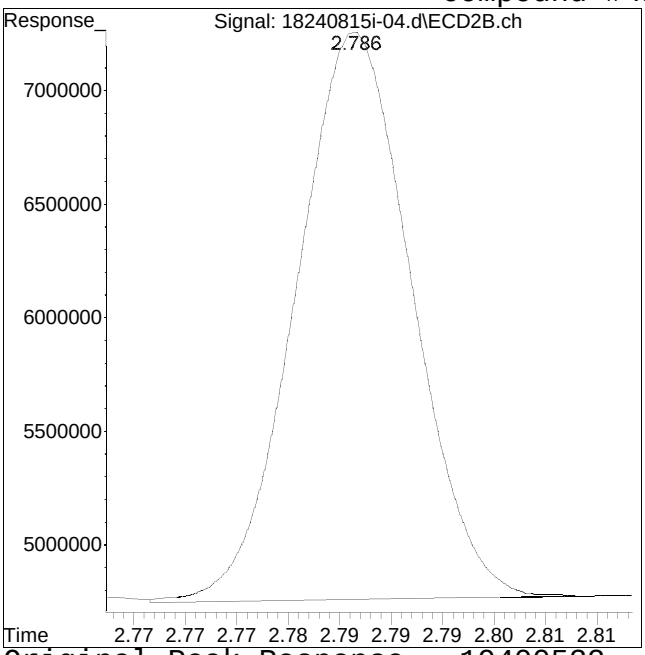
Manual Peak Response = 33921849 M4

M4 = Poor automated baseline construction.

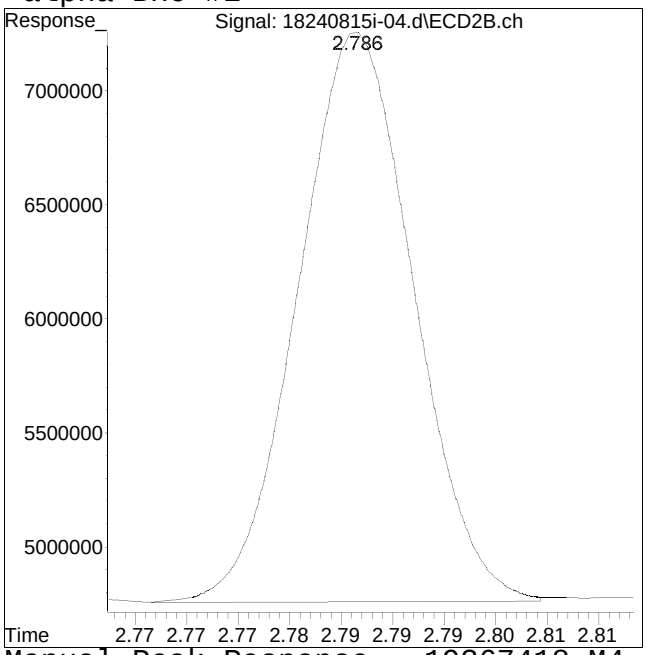
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #42: alpha-BHC #2



Original Peak Response = 19400532



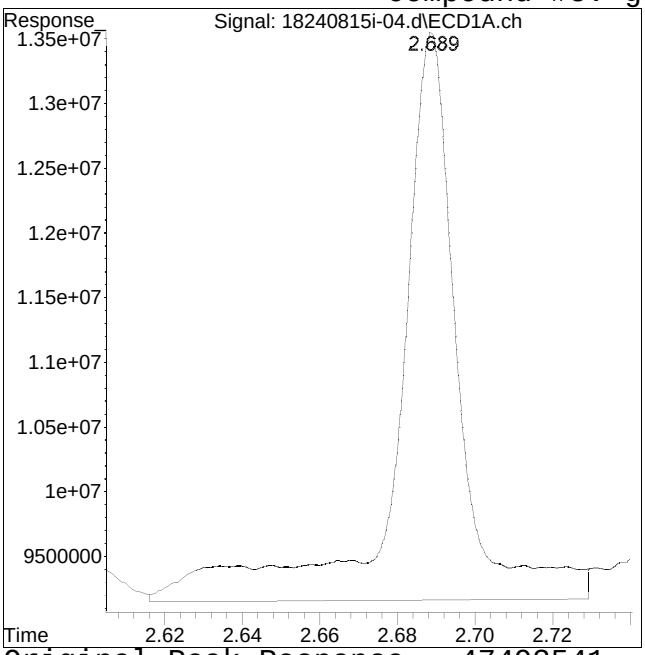
Manual Peak Response = 19367418 M4

M4 = Poor automated baseline construction.

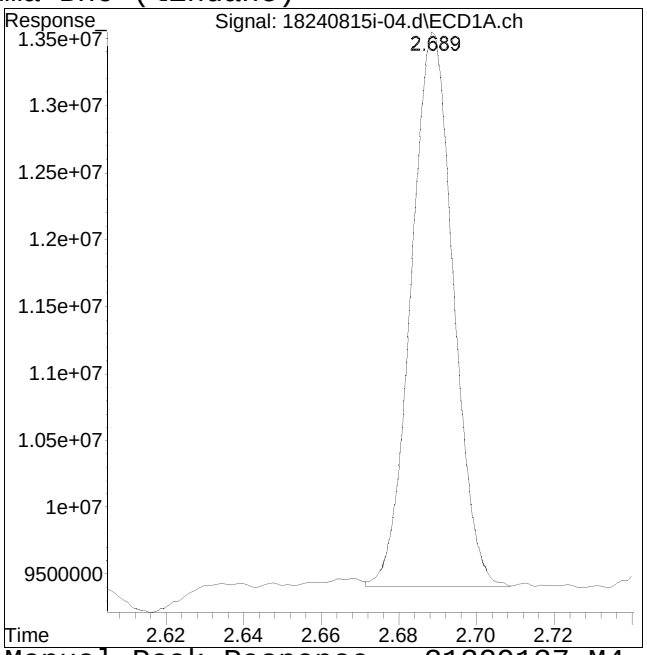
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 47493541



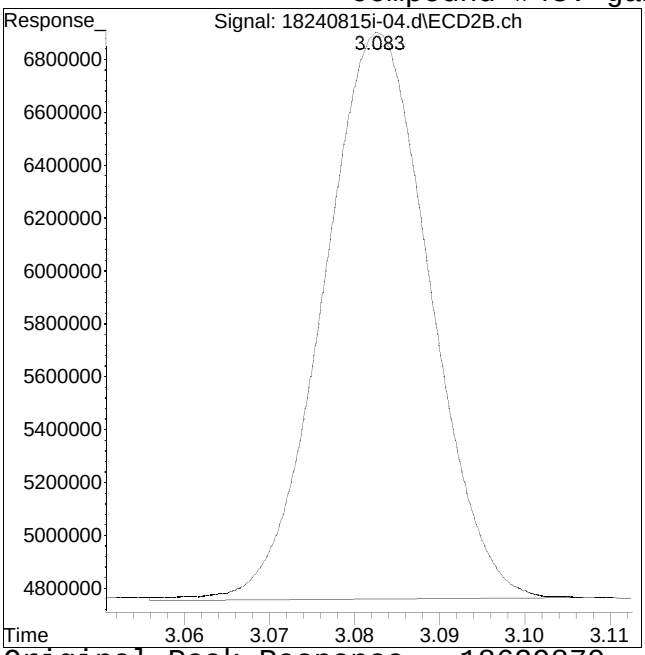
Manual Peak Response = 31329137 M4

M4 = Poor automated baseline construction.

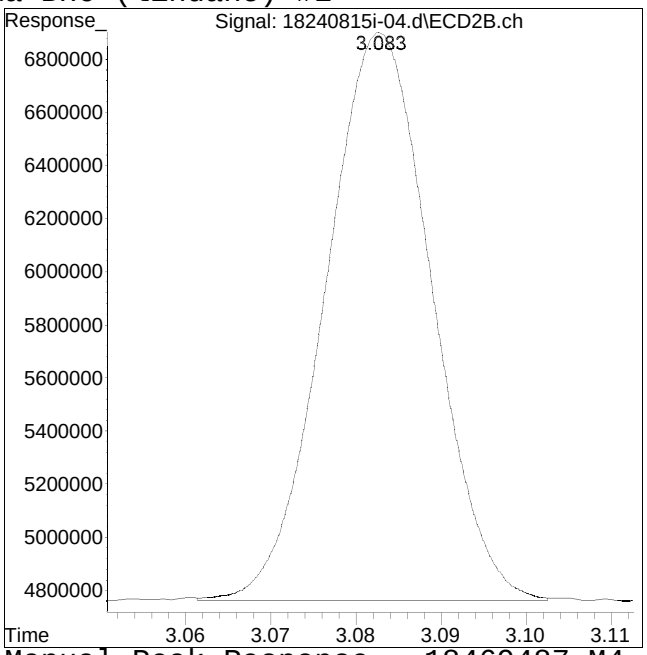
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 18629870



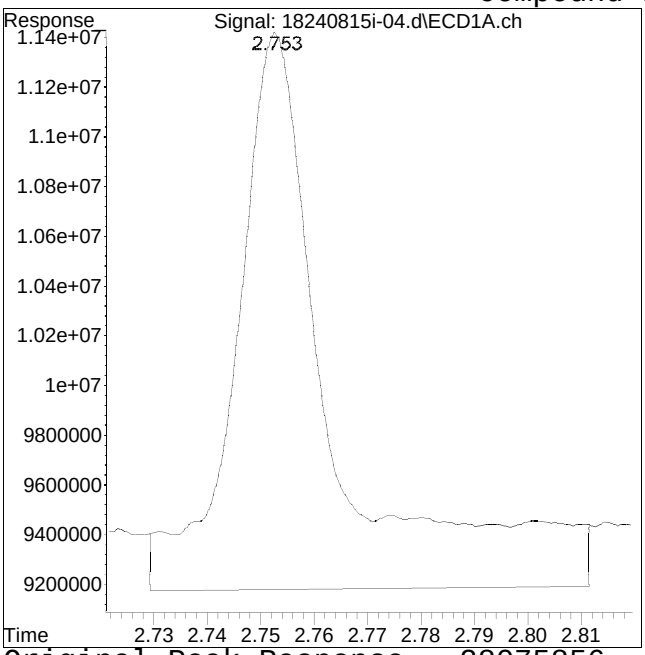
Manual Peak Response = 18469487 M4

M4 = Poor automated baseline construction.

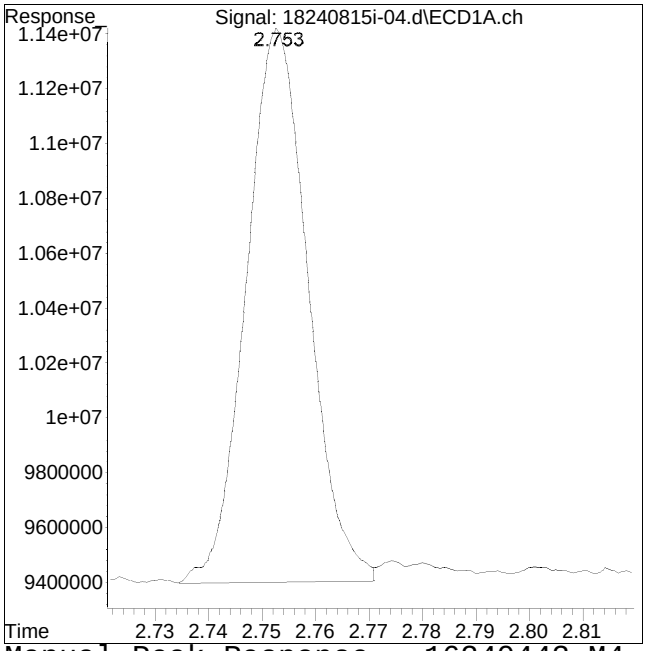
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #6: beta-BHC



Original Peak Response = 28075856

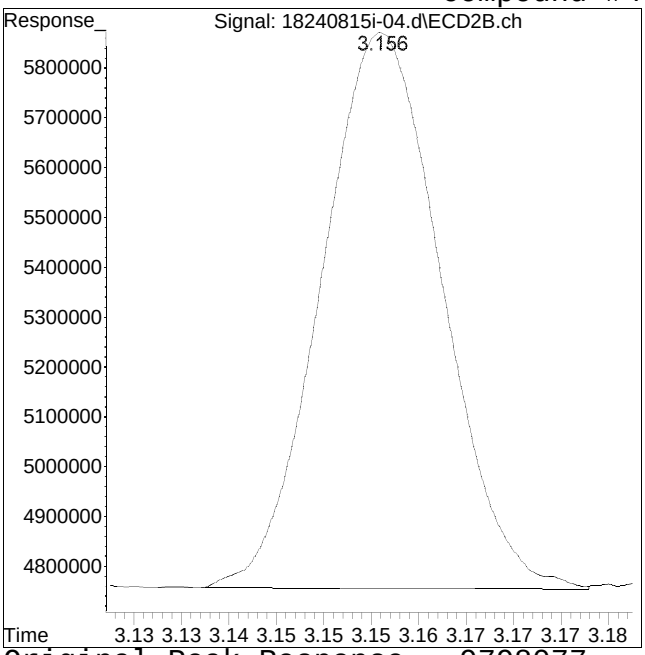


Manual Peak Response = 16240443 M4
M4 = Poor automated baseline construction.

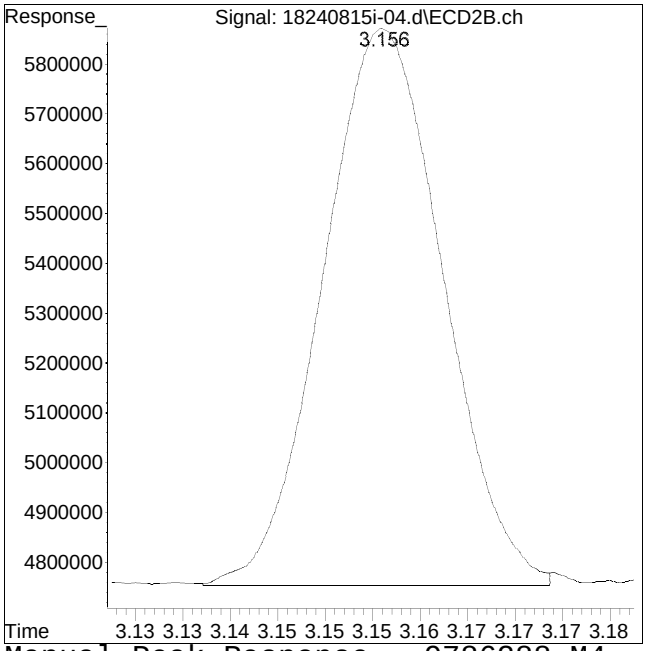
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #44: beta-BHC #2



Original Peak Response = 9798077



Manual Peak Response = 9786288 M4

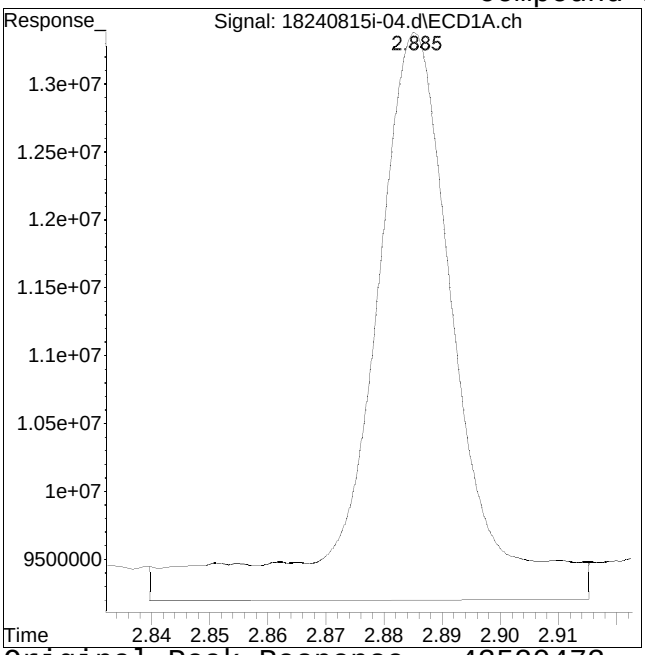
M4 = Poor automated baseline construction.

Manual Integration Report

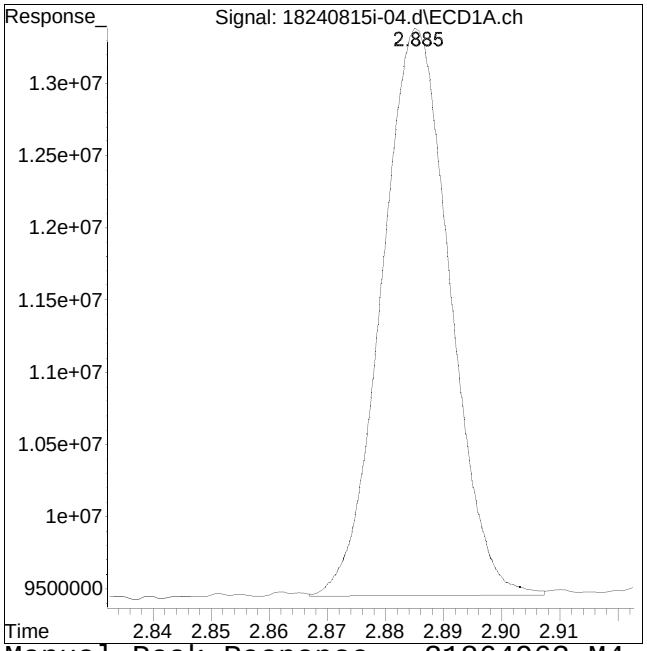
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-04.d
Date Inj'd : 8/15/2024 14:16
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 8:54 am

Compound #7: delta-BHC



Original Peak Response = 43520473



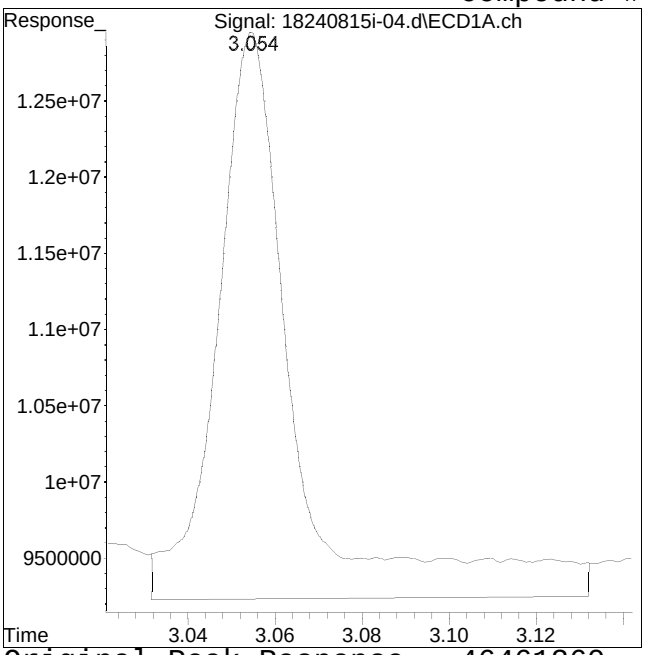
Manual Peak Response = 31864963 M4

M4 = Poor automated baseline construction.

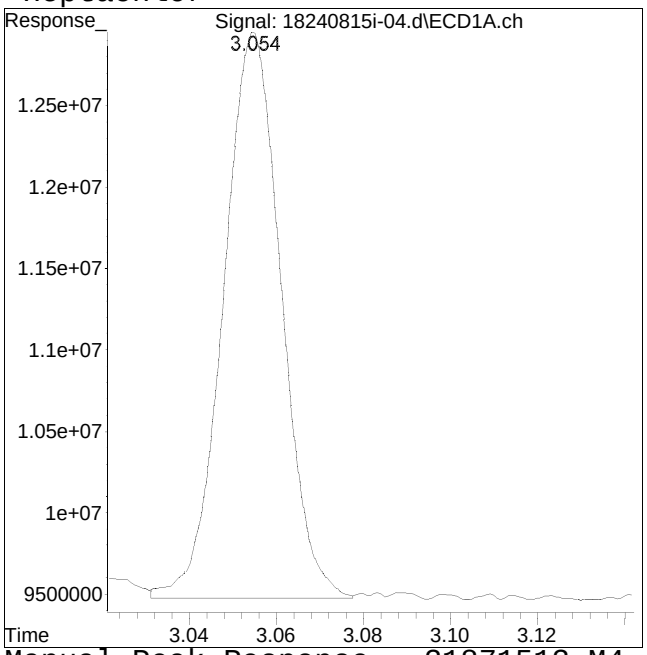
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #8: Heptachlor



Original Peak Response = 46461260

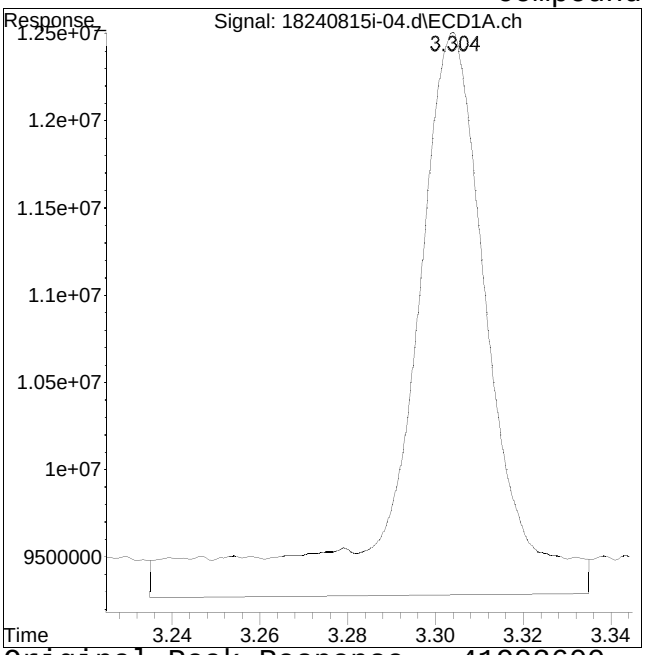


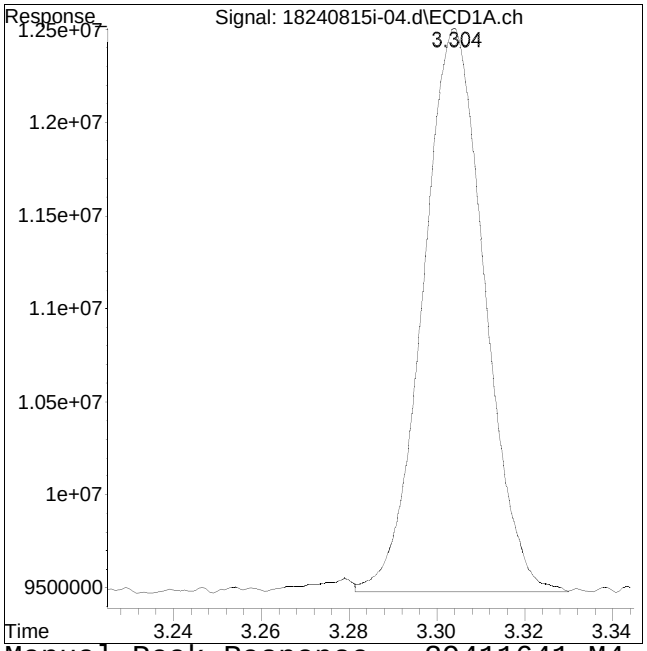
Manual Peak Response = 31871513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #9: Aldrin



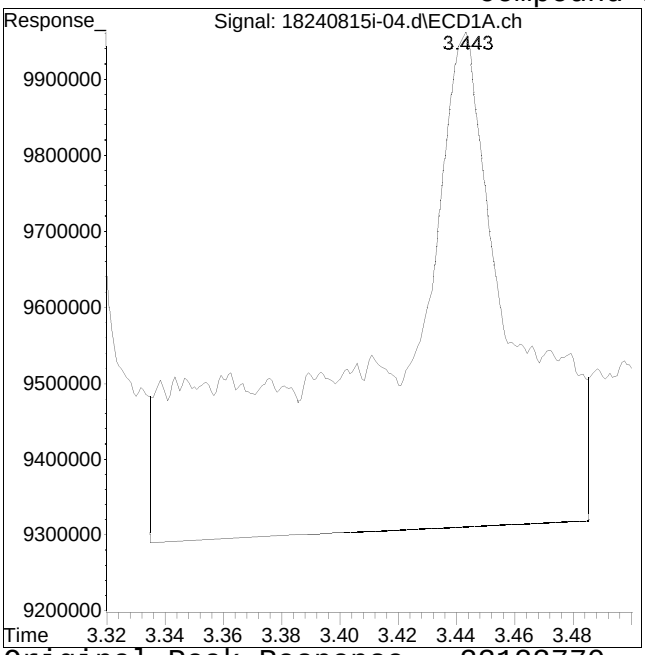


Original Peak Response = 41992600 Manual Peak Response = 29411641 M4
M4 = Poor automated baseline construction.

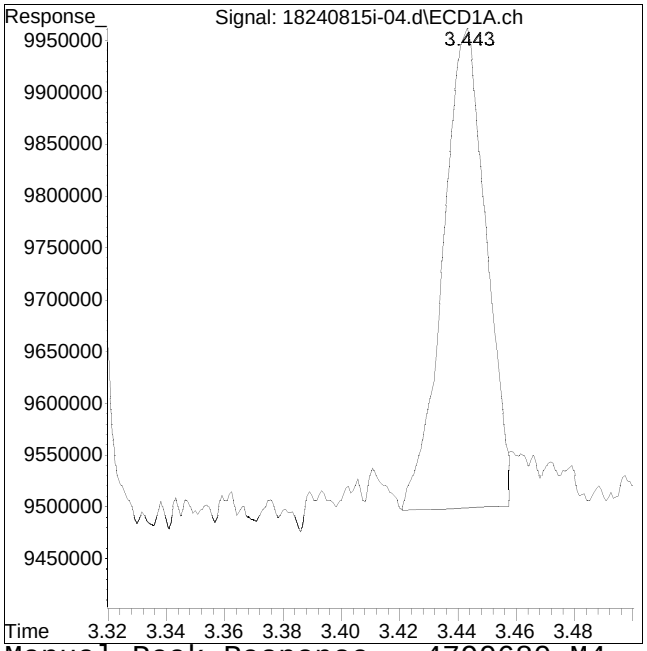
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #10: Alachlor



Original Peak Response = 23123770



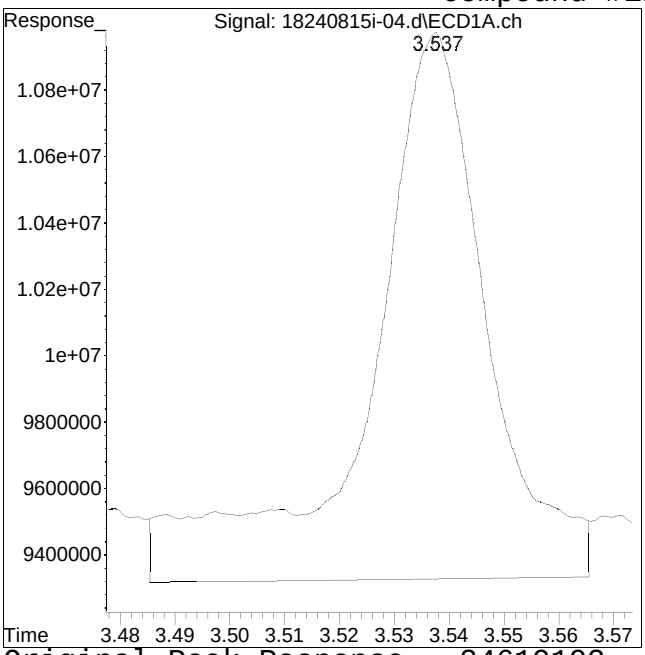
Manual Peak Response = 4790680 M4

M4 = Poor automated baseline construction.

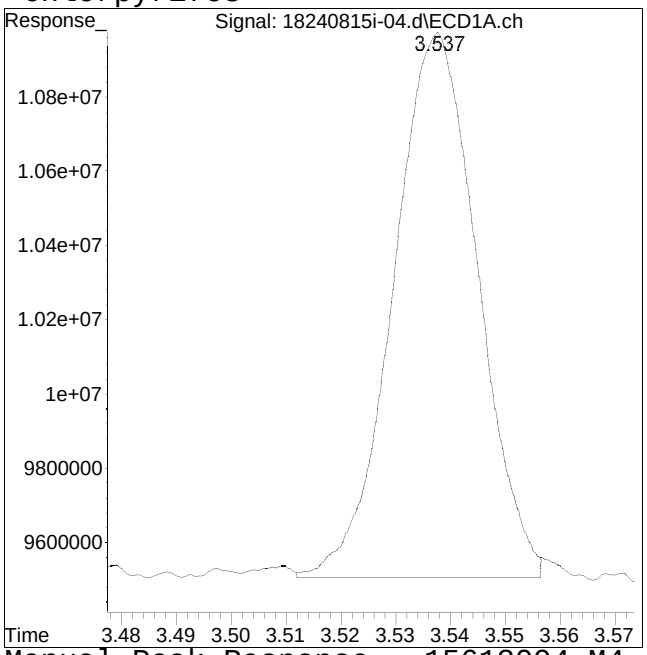
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #11: Chlorpyrifos



Original Peak Response = 24619192



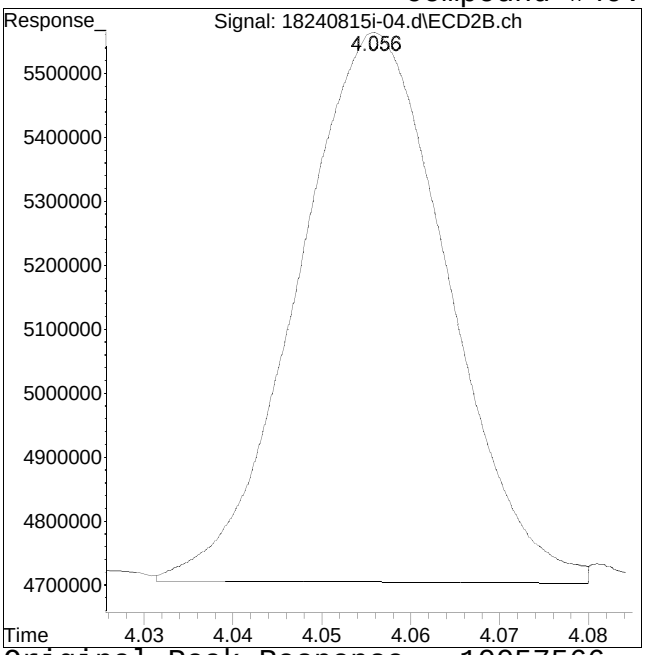
Manual Peak Response = 15613094 M4

M4 = Poor automated baseline construction.

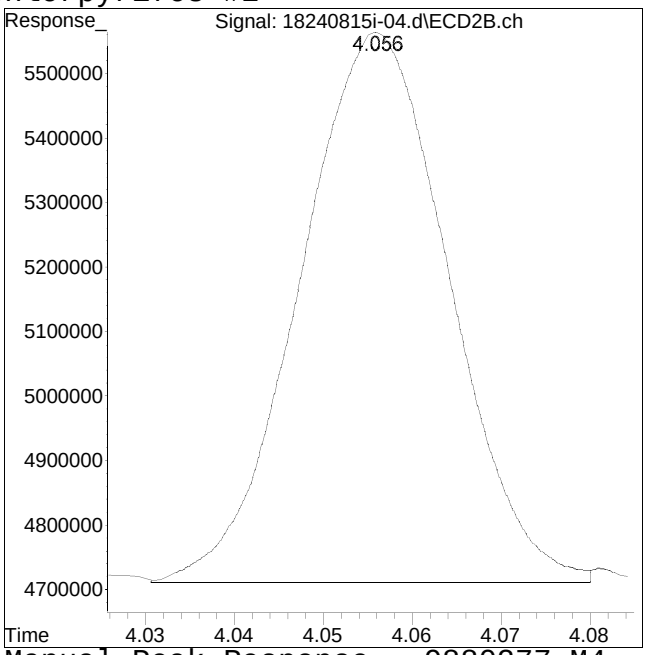
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 10057566



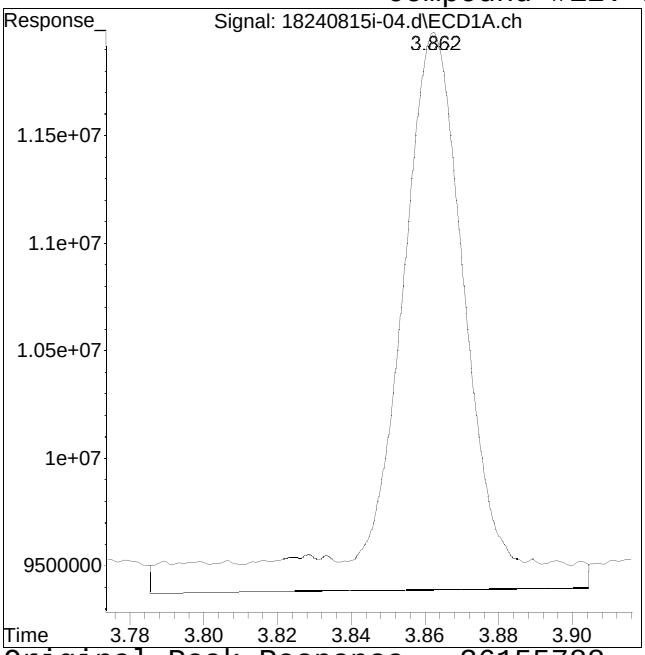
Manual Peak Response = 9880277 M4

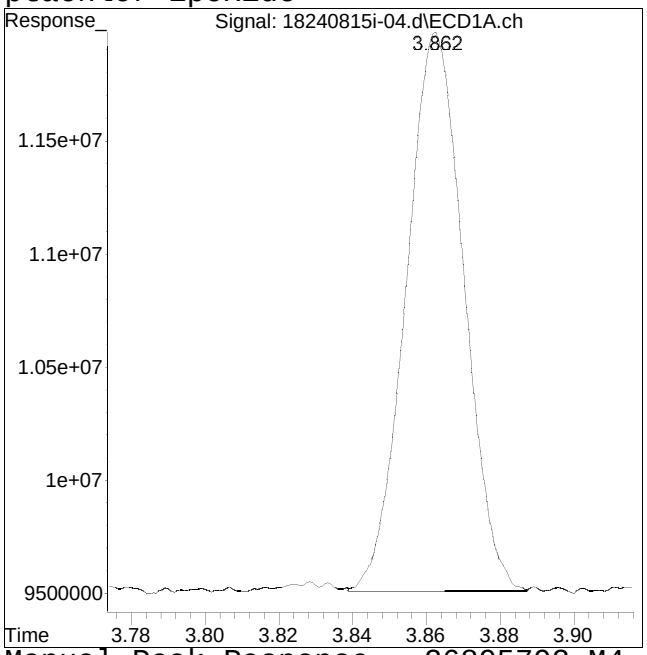
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #12: Heptachlor Epoxide





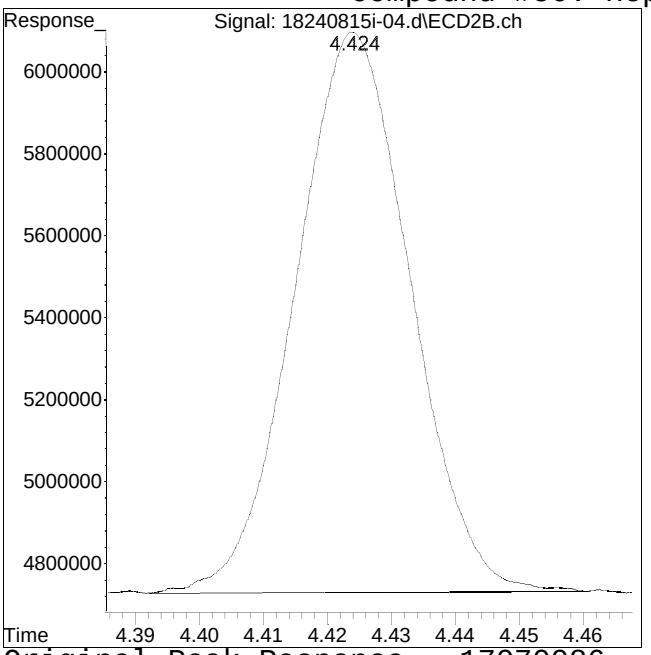
Original Peak Response = 36155788 Manual Peak Response = 26895792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

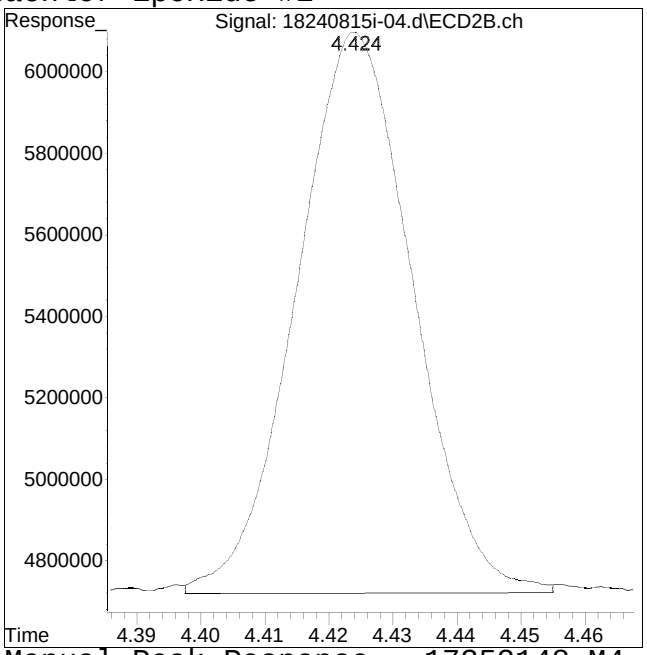
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-04.d
Date Inj'd : 8/15/2024 14:16
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 8:54 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 17070086



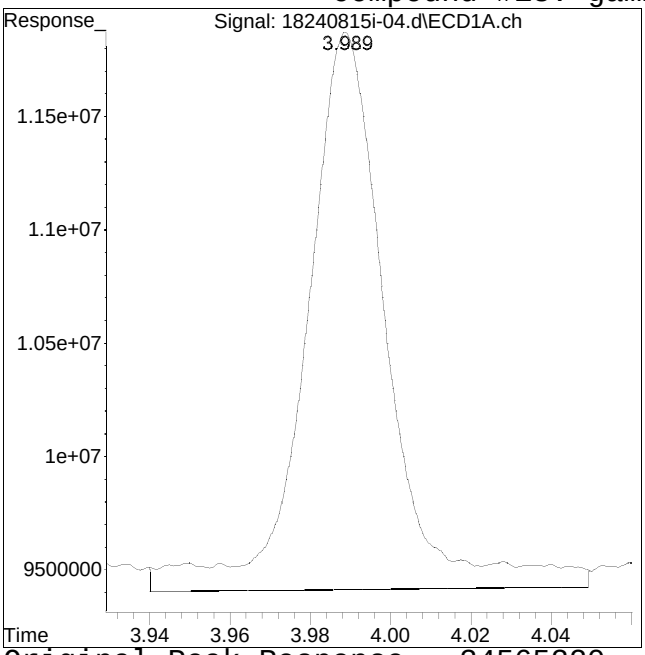
Manual Peak Response = 17352148 M4

M4 = Poor automated baseline construction.

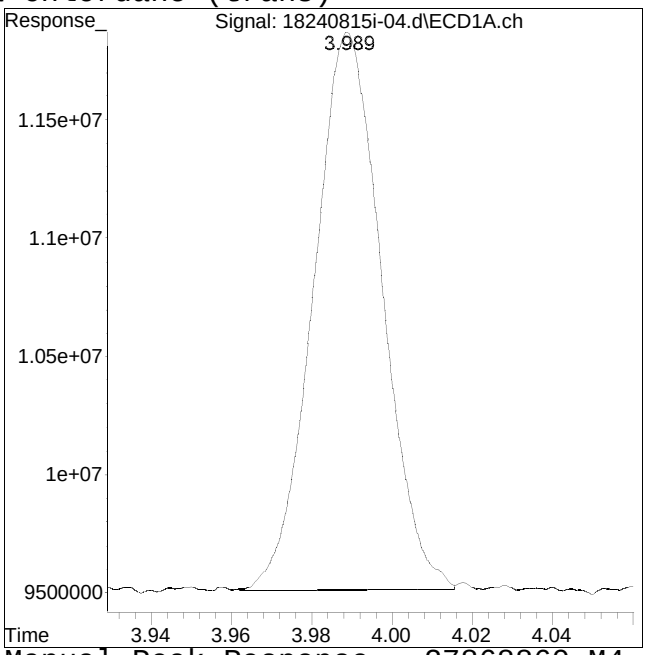
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 34565220

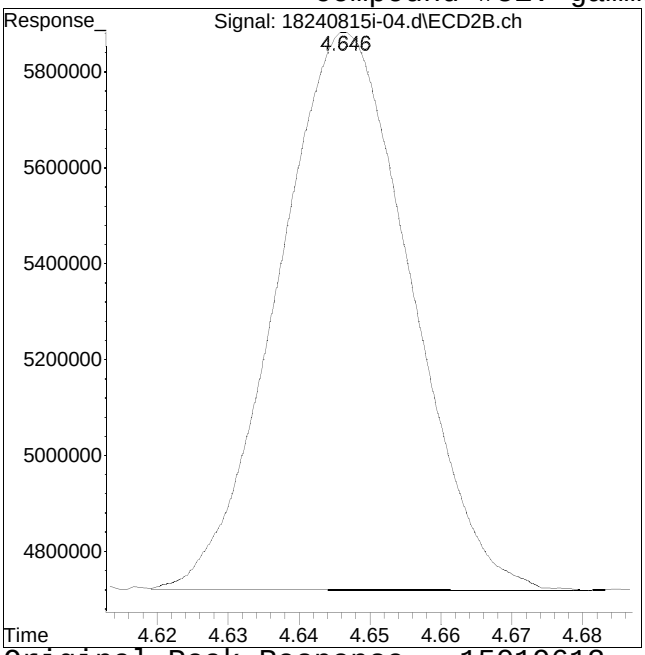


Manual Peak Response = 27868860 M4
M4 = Poor automated baseline construction.

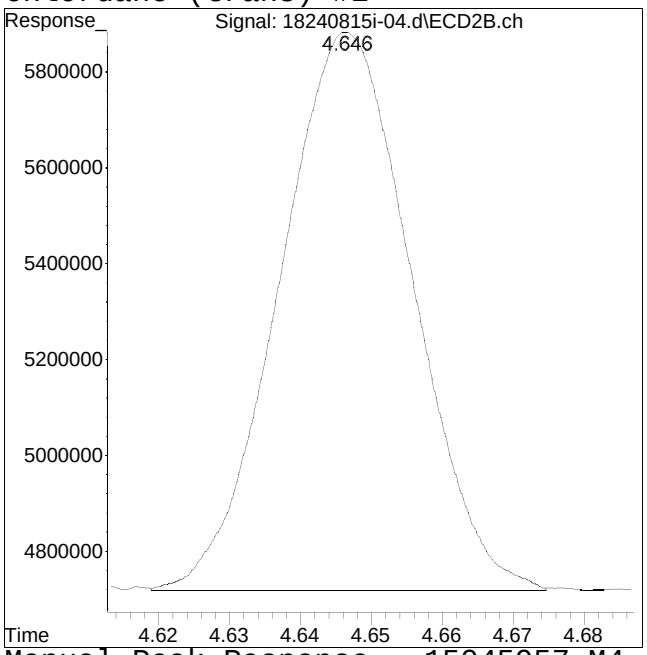
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 15019612



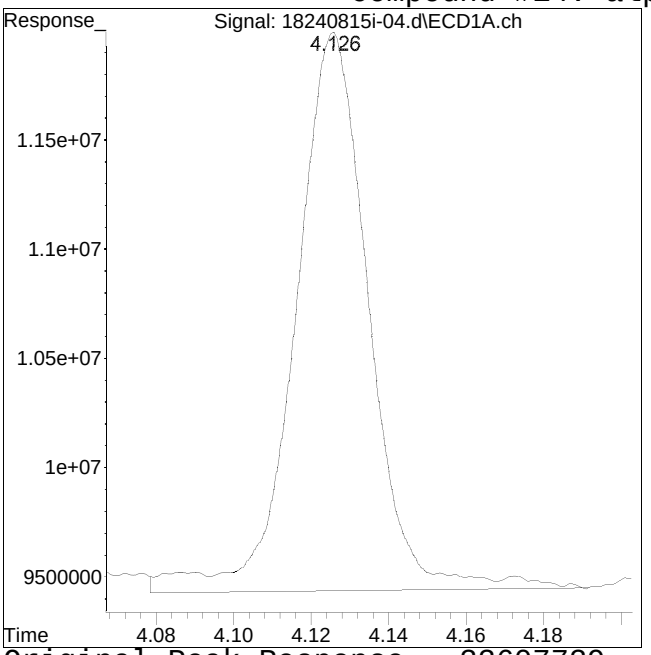
Manual Peak Response = 15045957 M4

M4 = Poor automated baseline construction.

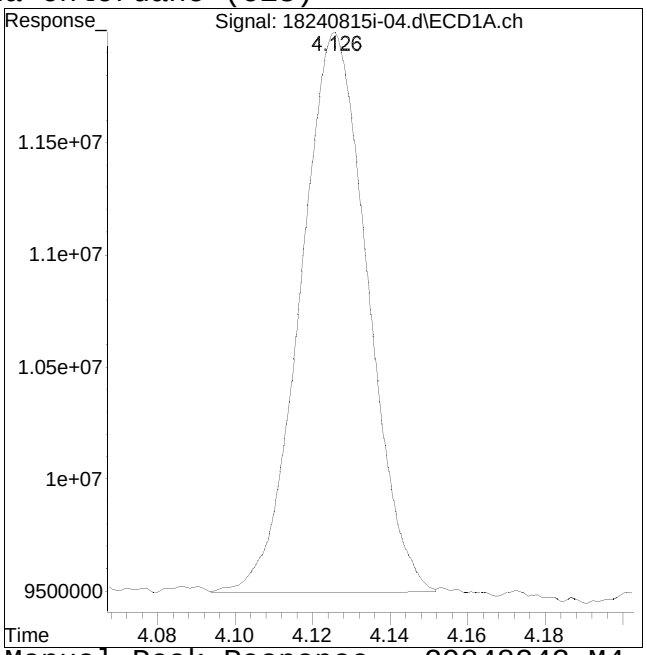
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 33607739

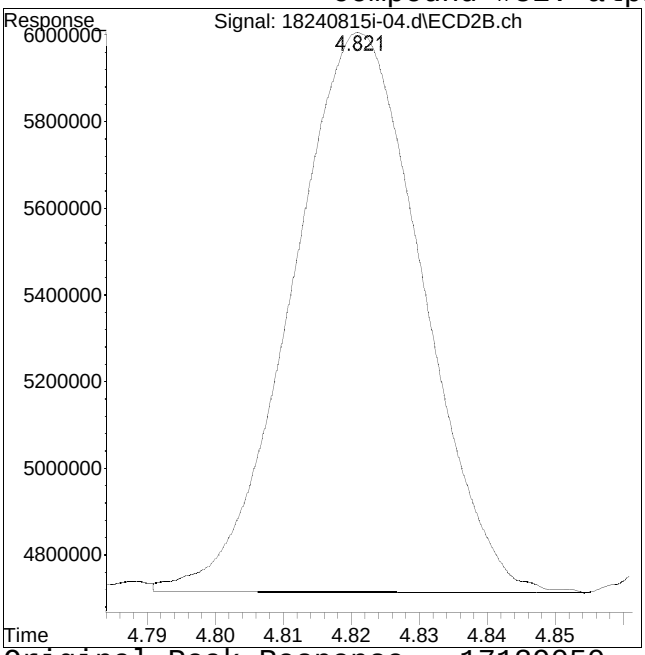


Manual Peak Response = 29848243 M4
M4 = Poor automated baseline construction.

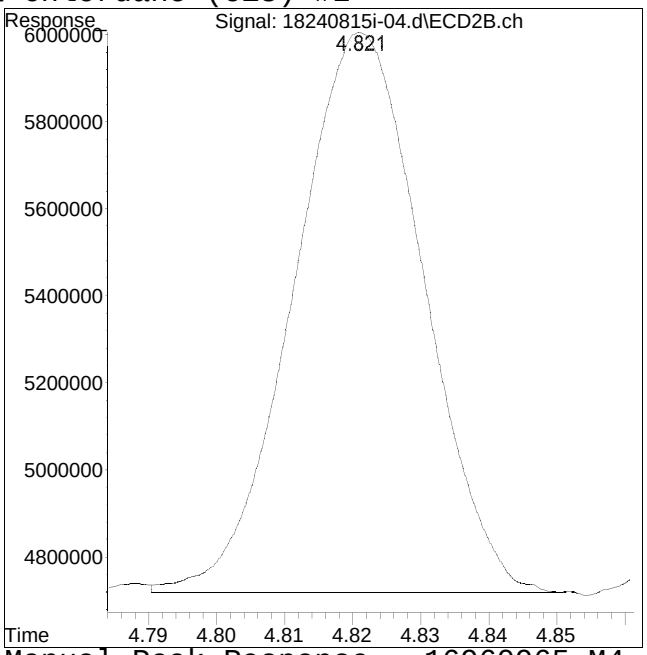
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 17139050



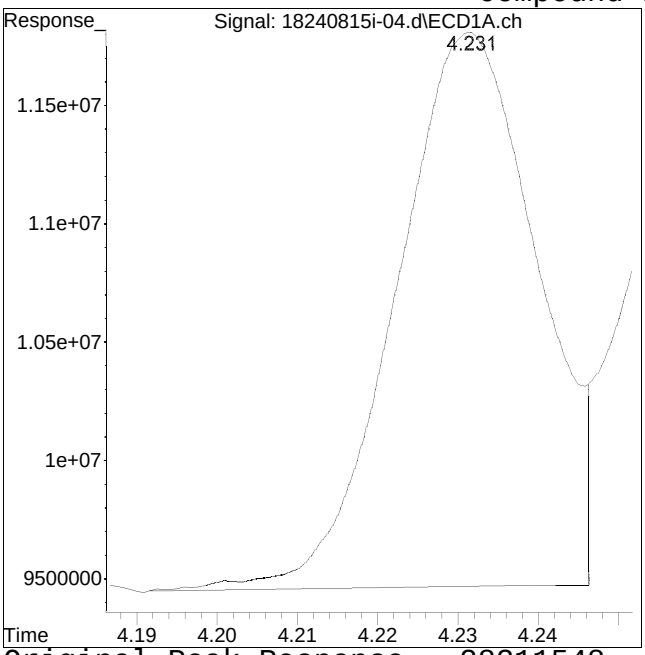
Manual Peak Response = 16960965 M4

M4 = Poor automated baseline construction.

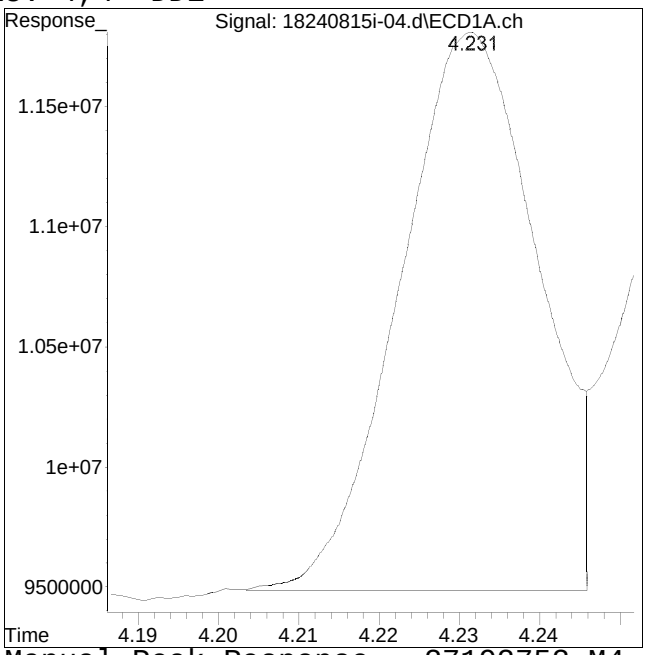
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #15: 4,4'-DDE



Original Peak Response = 28311548



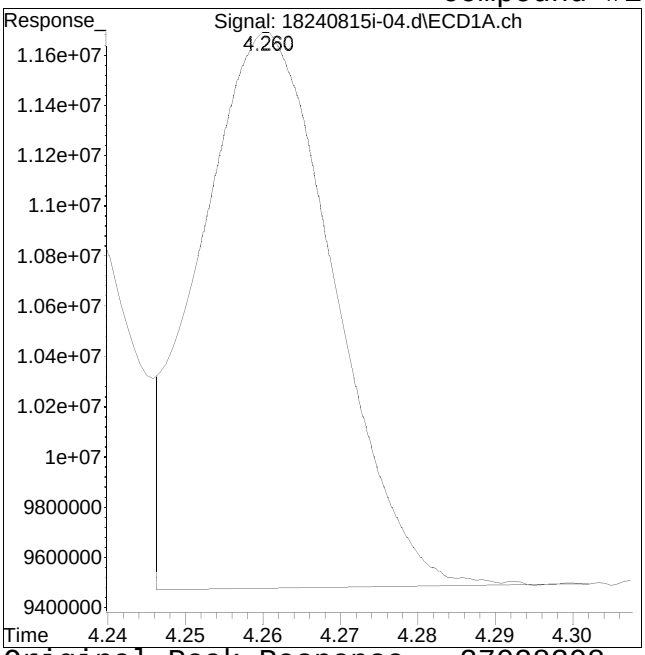
Manual Peak Response = 27192752 M4

M4 = Poor automated baseline construction.

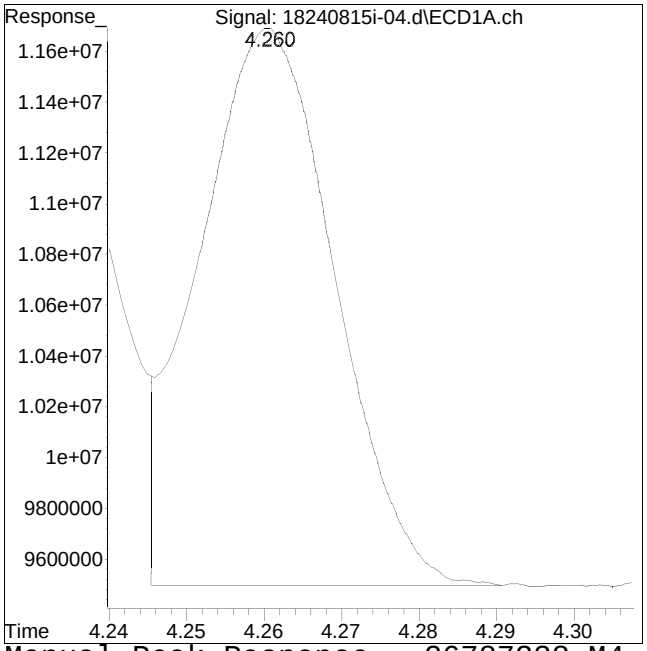
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #16: Endosulfan I



Original Peak Response = 27028398



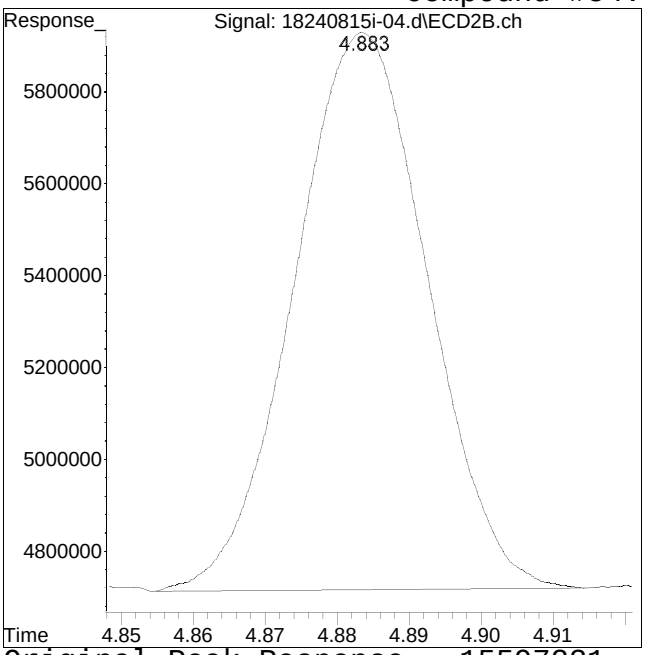
Manual Peak Response = 26787338 M4

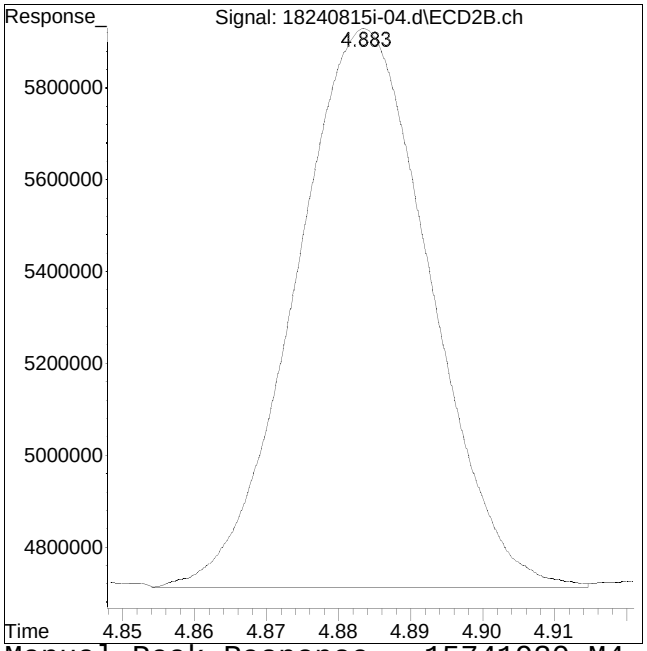
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #54: Endosulfan I #2



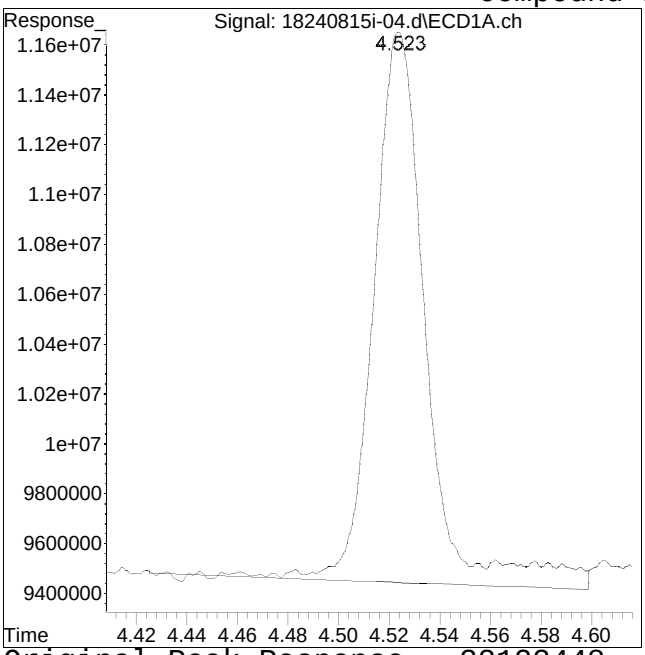


Original Peak Response = 15597231 Manual Peak Response = 15741930 M4
M4 = Poor automated baseline construction.

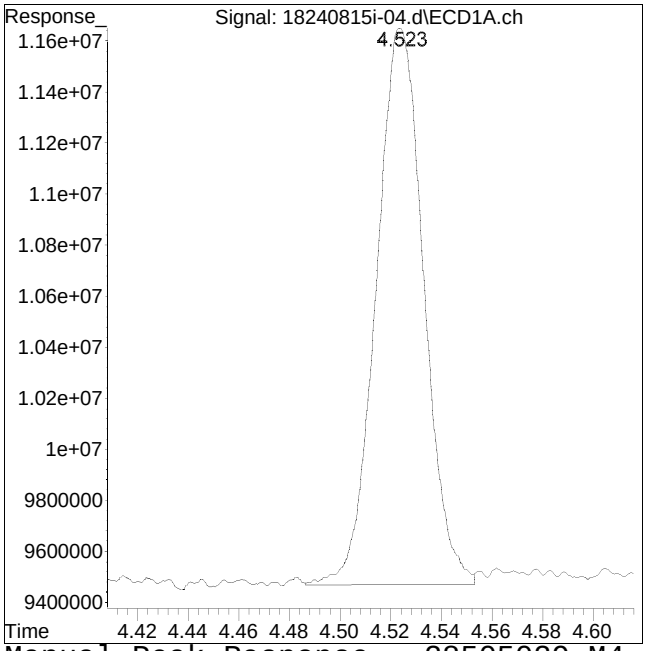
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #17: Dieldrin



Original Peak Response = 32122448



Manual Peak Response = 28505029 M4

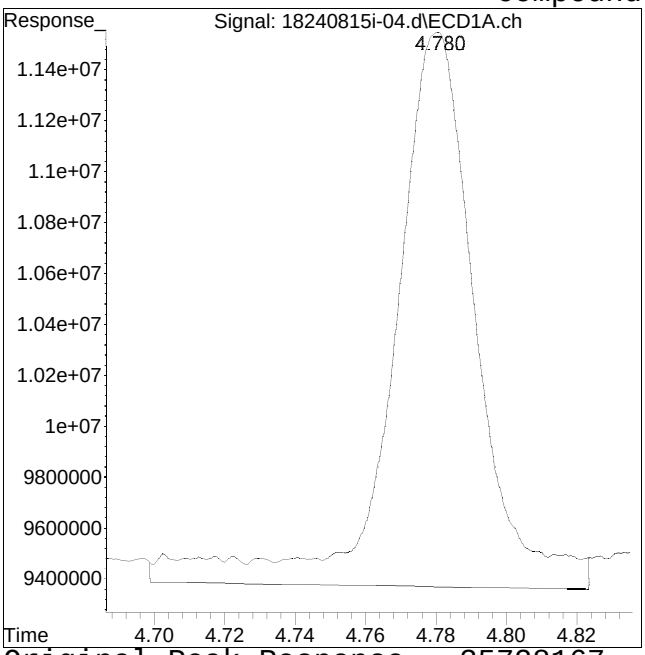
M4 = Poor automated baseline construction.

Manual Integration Report

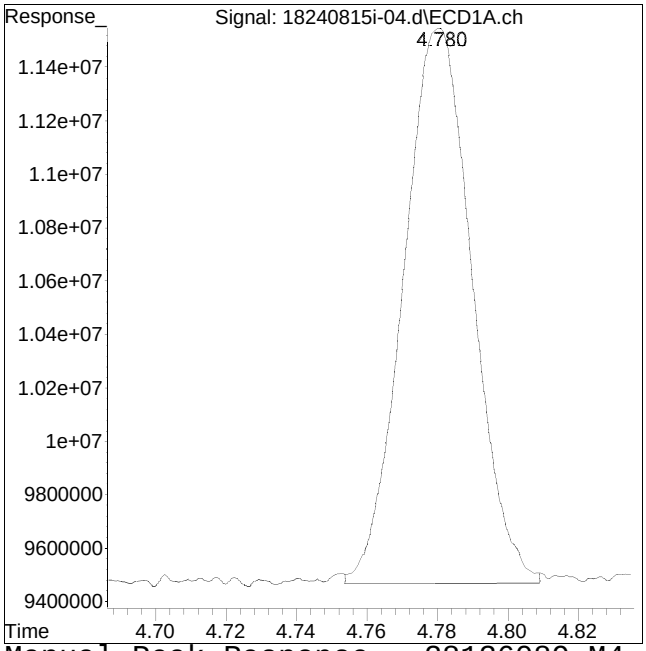
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-04.d
Date Inj'd : 8/15/2024 14:16
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 8:54 am

Compound #18: Endrin



Original Peak Response = 35728167



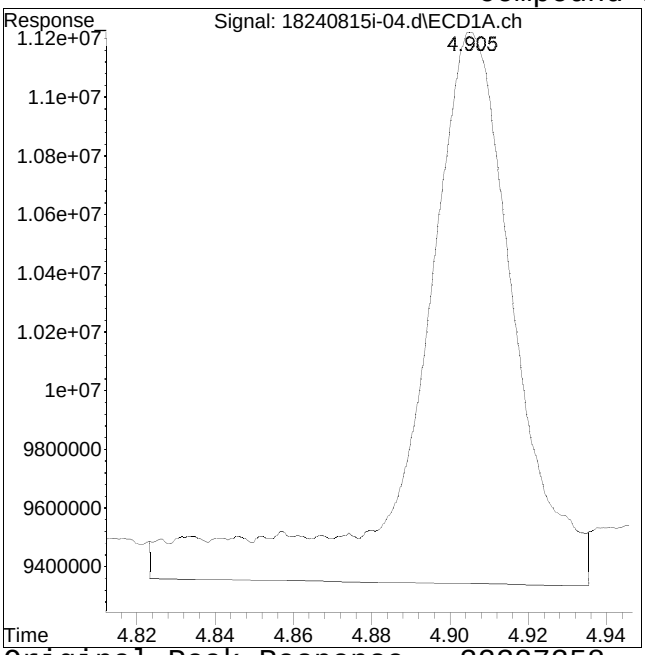
Manual Peak Response = 28136089 M4

M4 = Poor automated baseline construction.

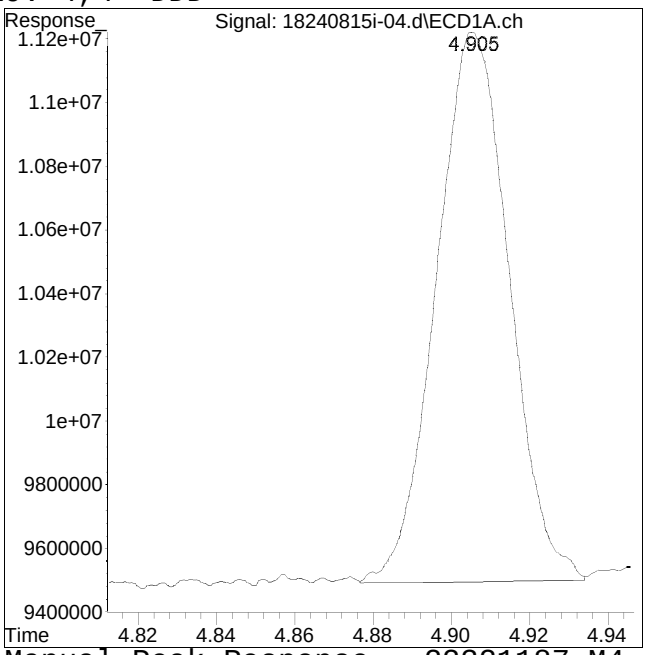
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #19: 4,4'-DDD



Original Peak Response = 32327358

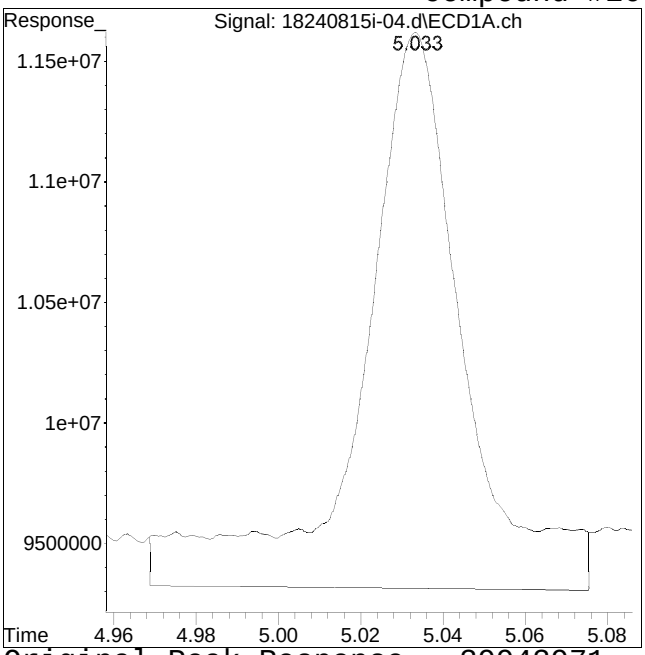


Manual Peak Response = 22321187 M4
M4 = Poor automated baseline construction.

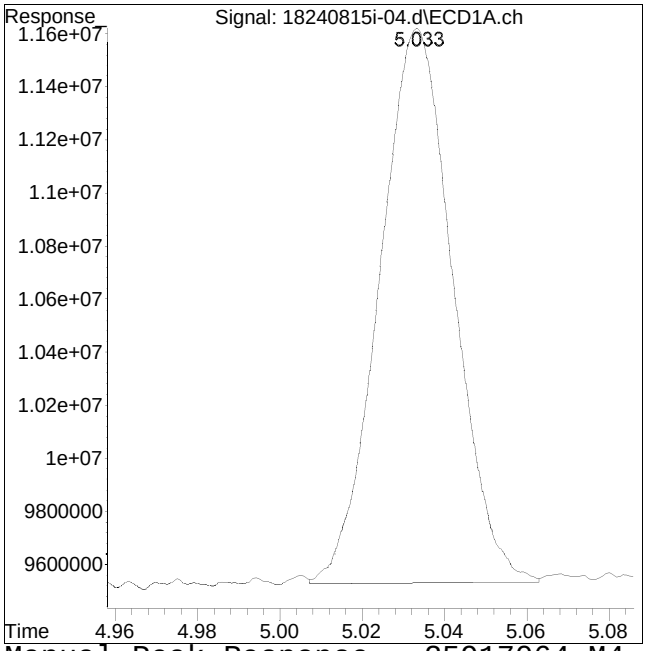
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #20: Endosulfan II



Original Peak Response = 39943971



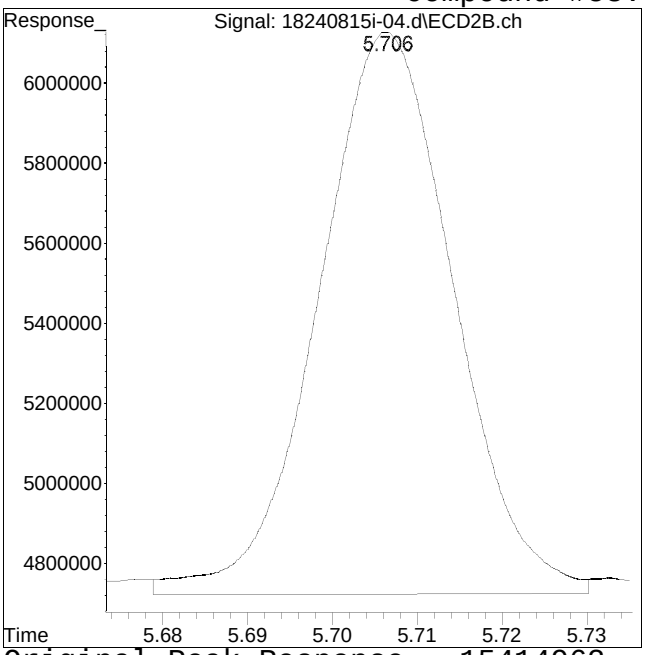
Manual Peak Response = 25917064 M4

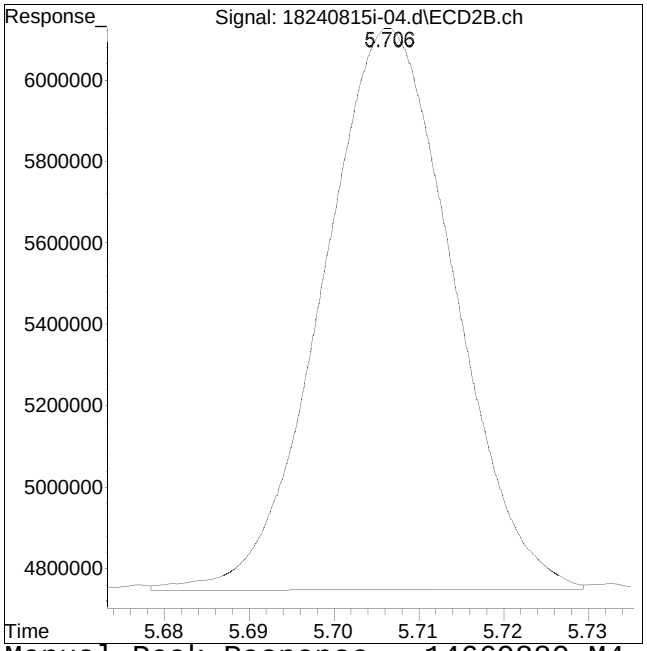
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #58: Endosulfan II #2



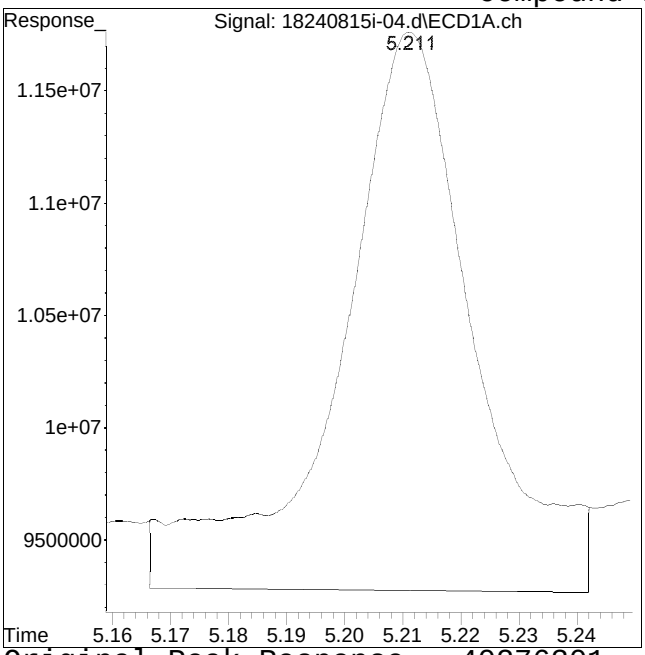


Original Peak Response = 15414962 Manual Peak Response = 14669880 M4
M4 = Poor automated baseline construction.

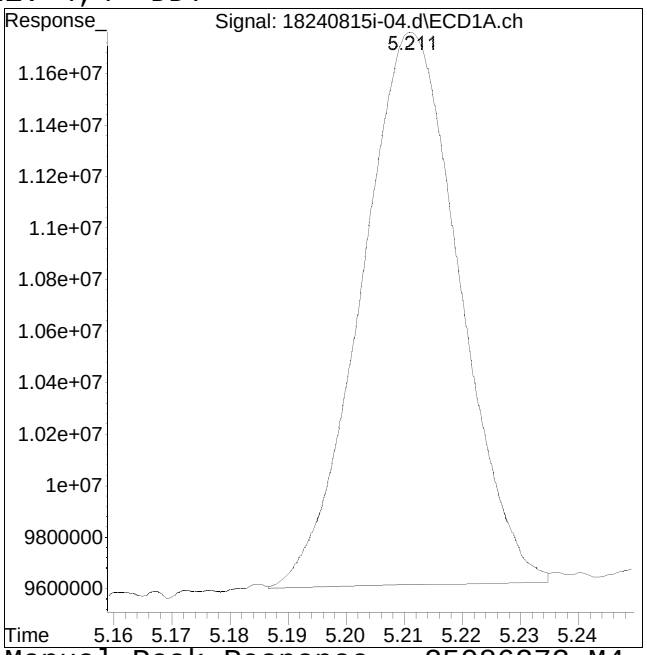
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #21: 4,4'-DDT



Original Peak Response = 40276301



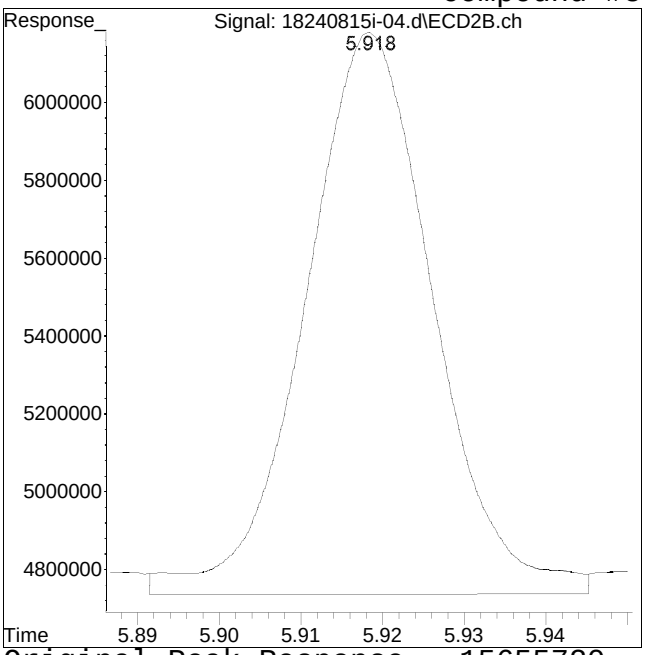
Manual Peak Response = 25086273 M4

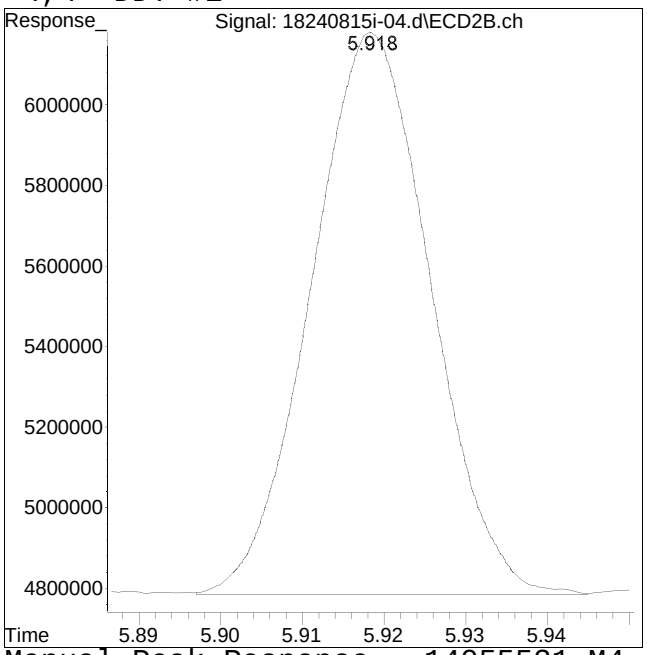
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #59: 4,4'-DDT #2



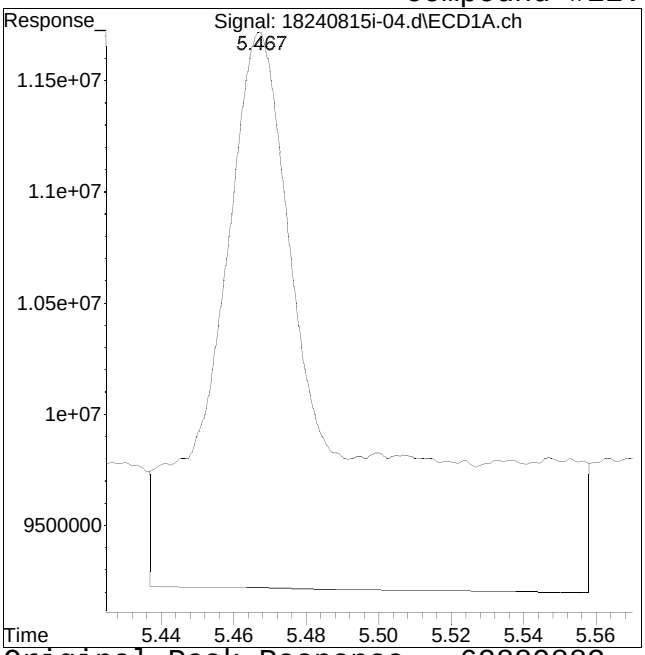


Original Peak Response = 15655720 Manual Peak Response = 14055531 M4
M4 = Poor automated baseline construction.

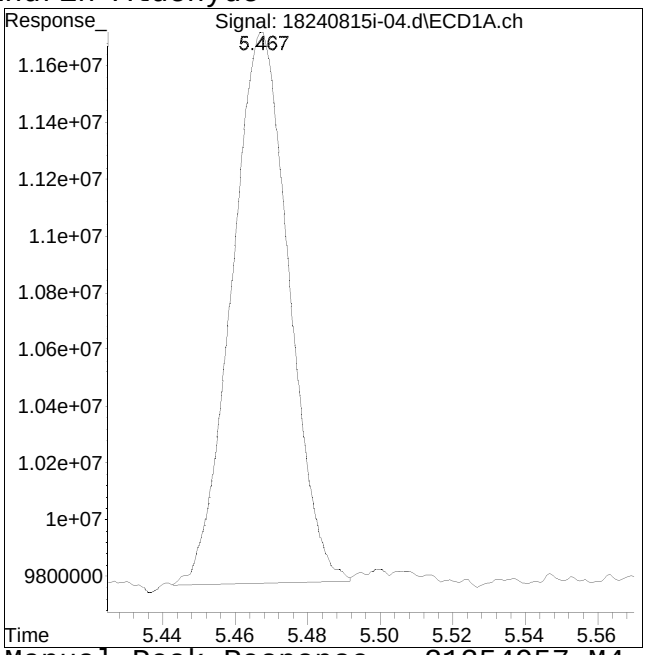
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #22: Endrin Aldehyde



Original Peak Response = 62889883



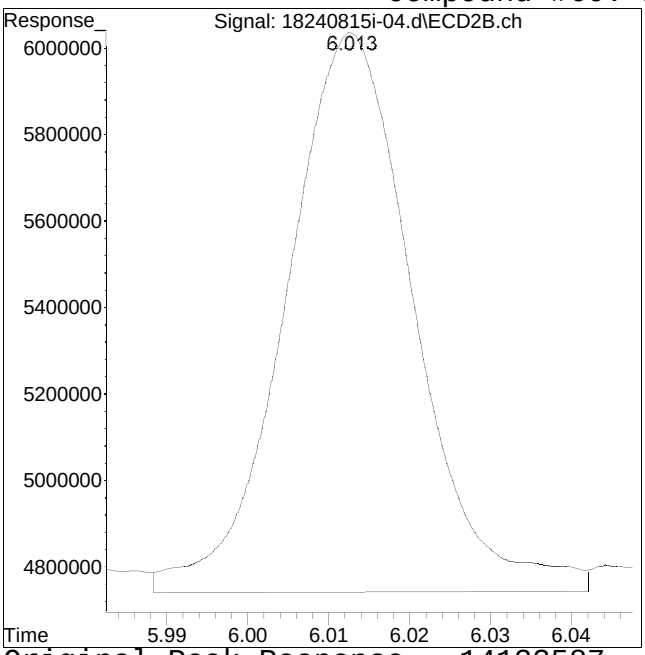
Manual Peak Response = 21254957 M4

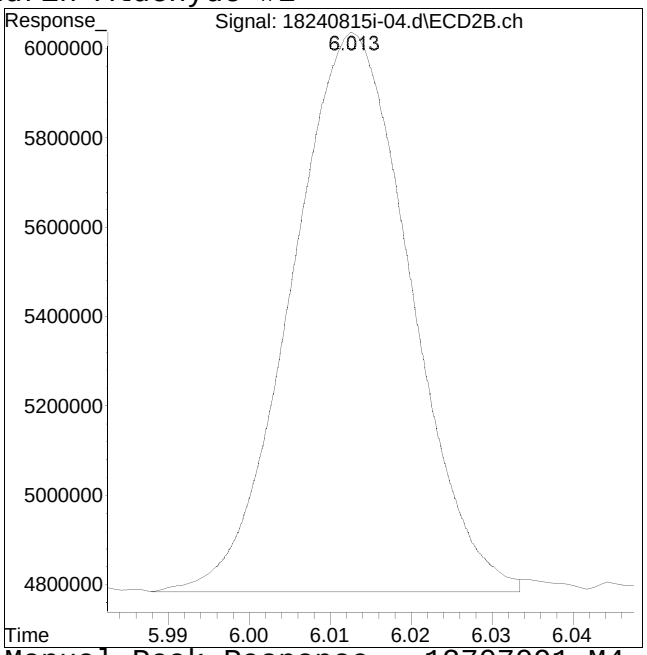
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #60: Endrin Aldehyde #2



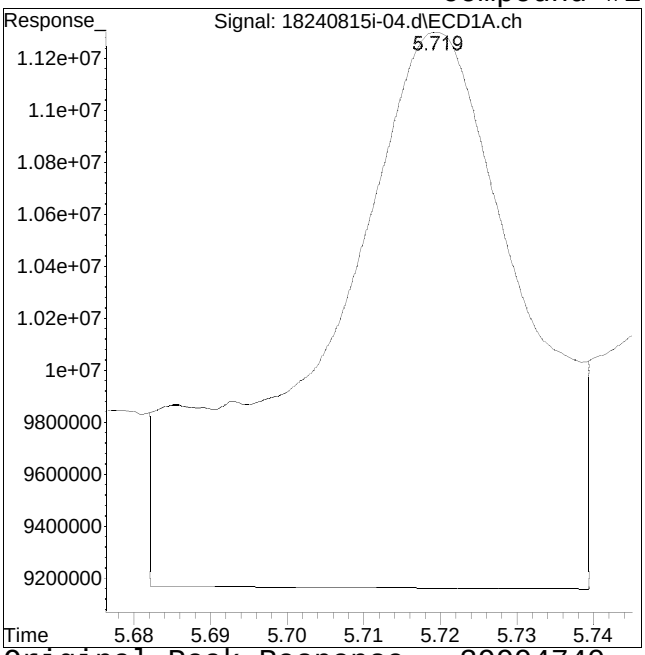


Original Peak Response = 14133587 Manual Peak Response = 12707091 M4
M4 = Poor automated baseline construction.

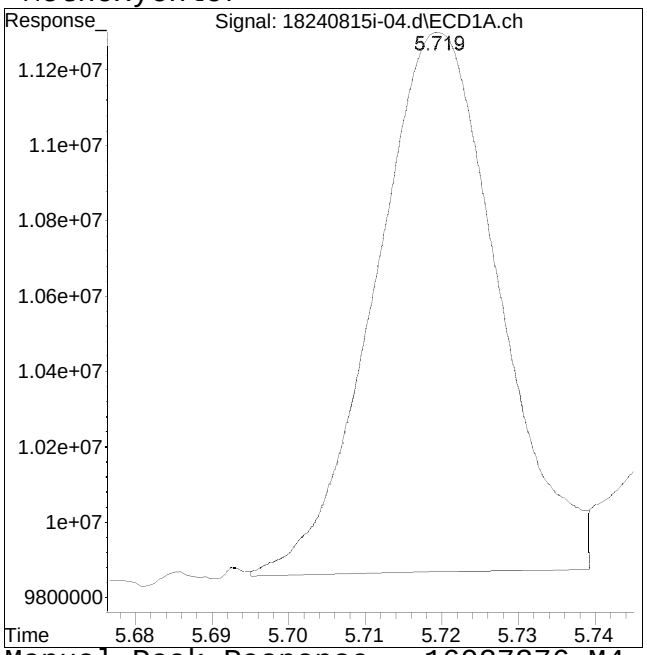
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #23: Methoxychlor



Original Peak Response = 39994740



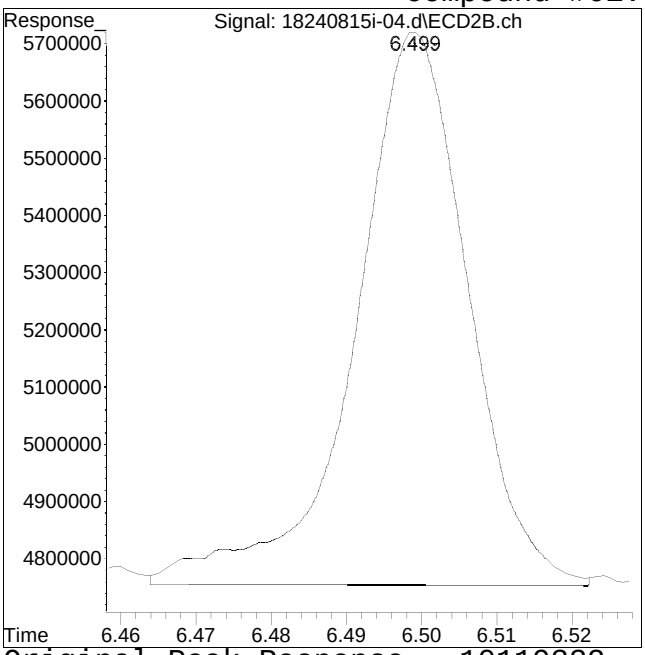
Manual Peak Response = 16027376 M4

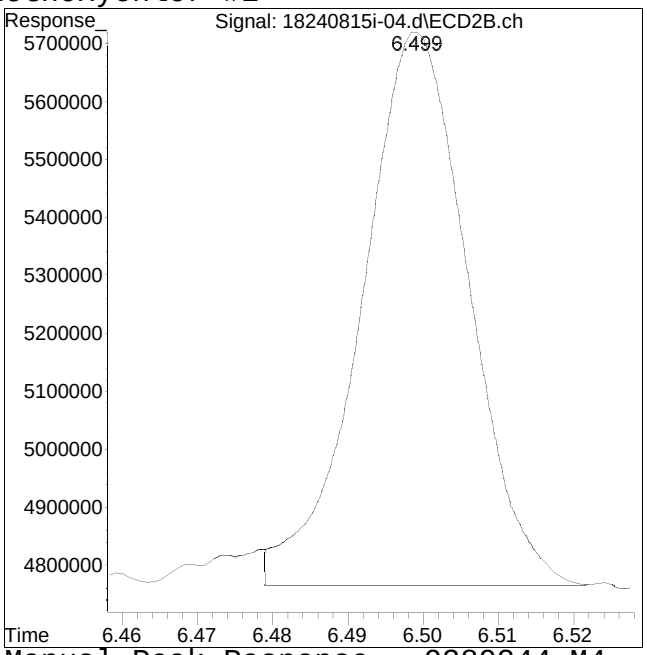
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #61: Methoxychlor #2



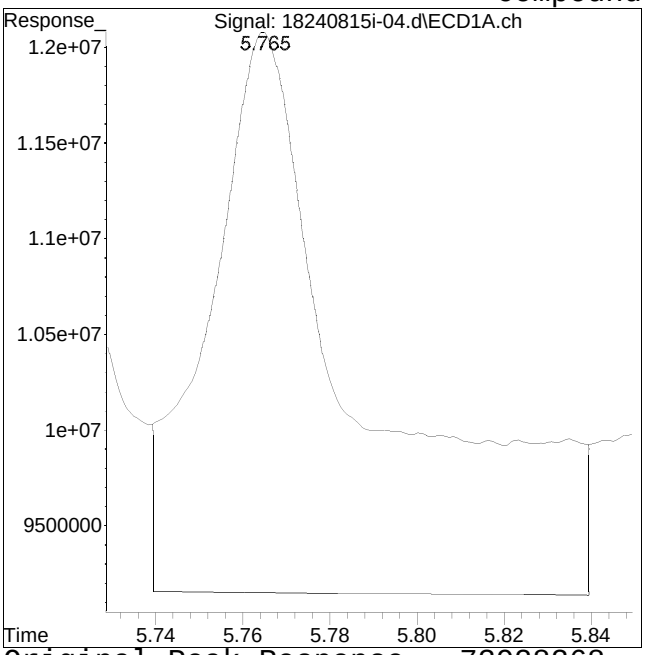


Original Peak Response = 10119332 Manual Peak Response = 9389244 M4
M4 = Poor automated baseline construction.

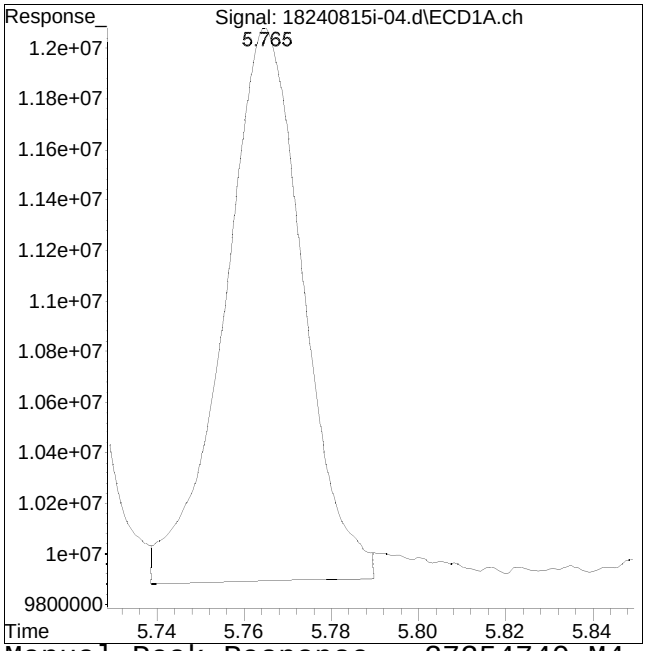
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #24: Mirex



Original Peak Response = 73928268



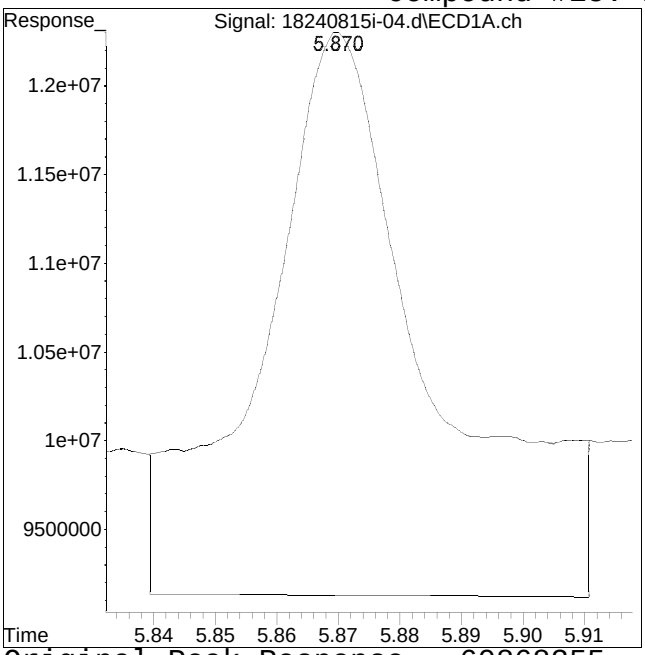
Manual Peak Response = 27354740 M4

M4 = Poor automated baseline construction.

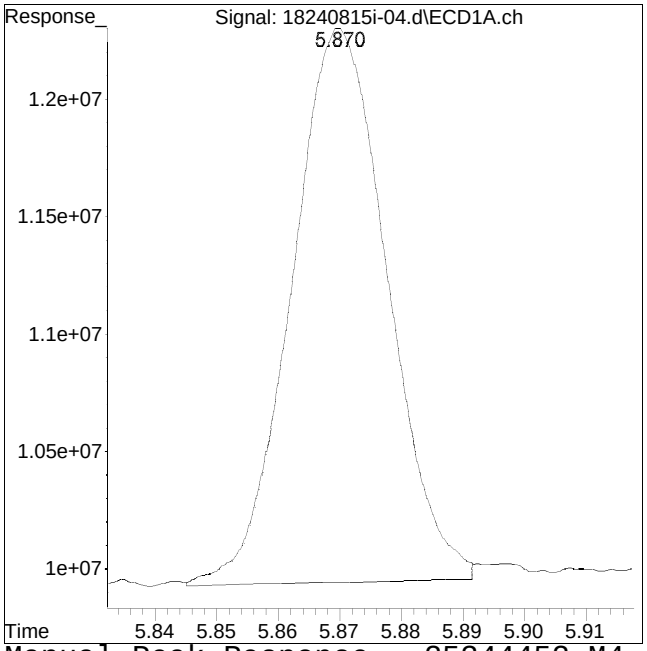
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 60868355



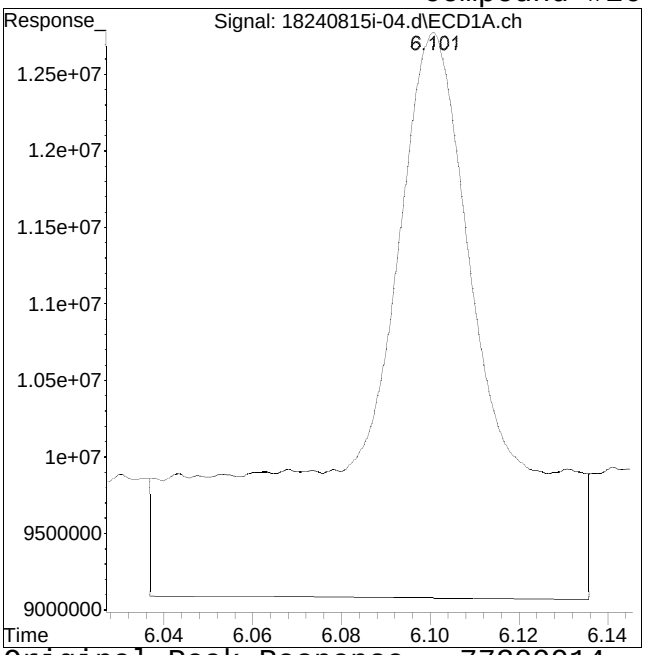
Manual Peak Response = 25344452 M4

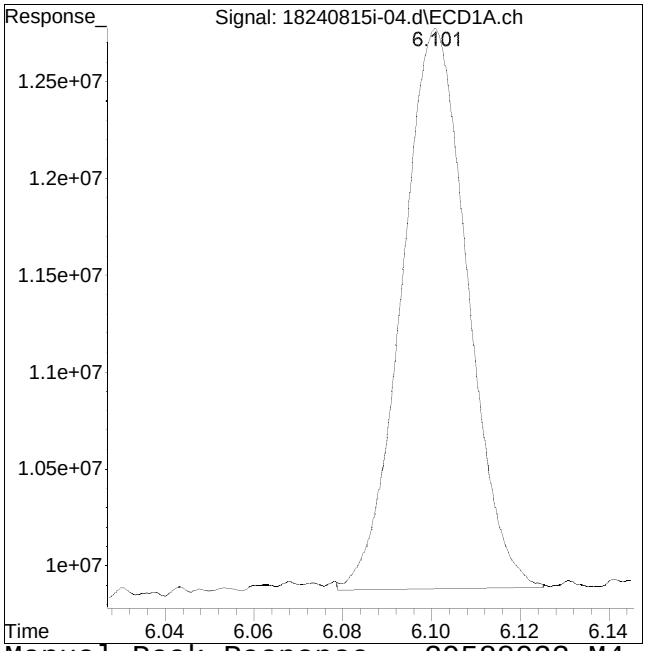
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #26: Endrin Ketone



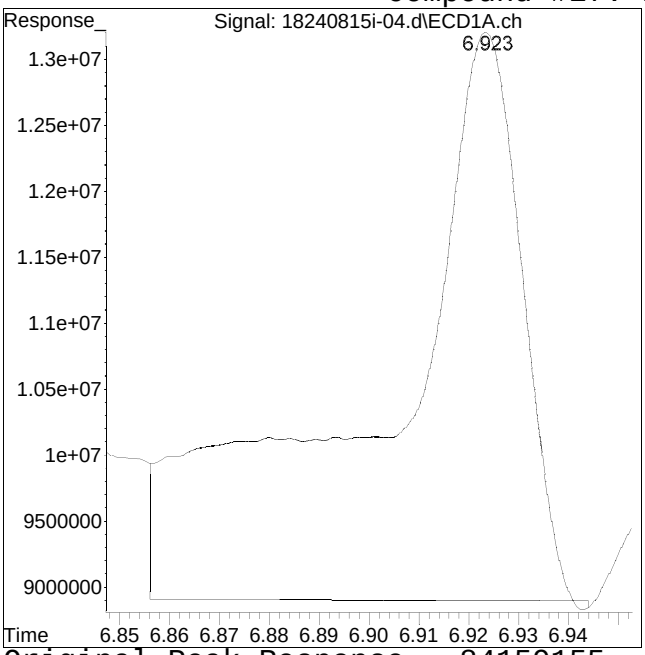


Original Peak Response = 77309914 Manual Peak Response = 29588023 M4
M4 = Poor automated baseline construction.

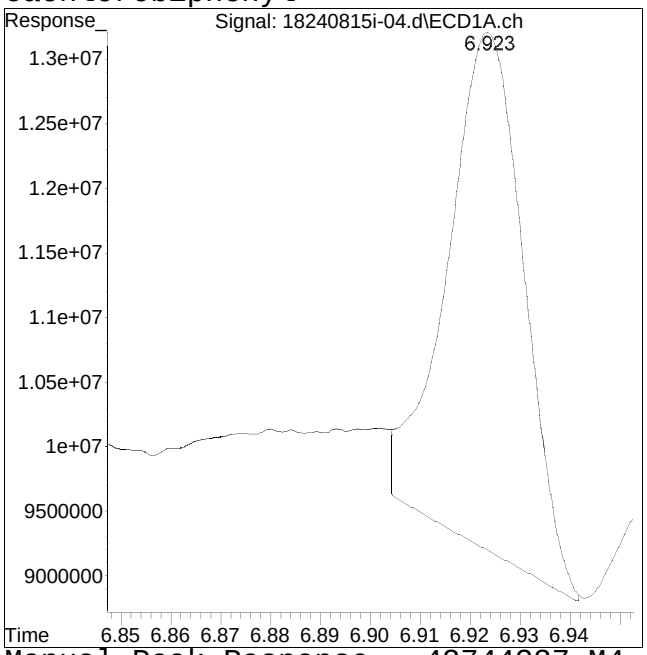
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-04.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:16 Instrument : Pest 18
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/16/2024 8:54 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 84159155



Manual Peak Response = 42744337 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:28
Operator : PEST18:peg
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:36:55 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:36:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	528.1E6	311.1E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.339	55803146	31517878	2.186M4	2.165M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		4.37%#	4.33%#
27)	s	Decachlorobi	6.923	7.551	68486263	27714040	2.325M4	2.378M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		4.65%#	4.76%#
		Target Compounds						
3)		Hexachlorobe	2.358	2.683	67965324	35315889	2.285M4	2.287M4
4)		alpha-BHC	2.469	2.786	66811529	38383240	2.070M4	1.957M4
5)		gamma-BHC (l	2.688	3.082	61085524	36542348	2.065M4	2.005M4
6)		beta-BHC	2.753	3.155	31171423	18746340	2.361M4	2.252M4
7)		delta-BHC	2.885	3.425	62310960	36048400	2.112M4	2.007M4
8)		Heptachlor	3.054	3.483	61875340	35316020	2.259M4	2.167M4
9)		Aldrin	3.303	3.803	58564395	33254862	2.173M4	2.046M4
10)		Alachlor	3.441	3.700	9359301	5497973	2.417M4	2.345
11)		Chlorpyrifos	3.537	4.055	30539855	19274010	2.454M4	2.457M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:28
Operator : PEST18:peg
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:36:55 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:36:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.423	55055469	33989835	2.263M4	2.214M4
13)		gamma-Chlord	3.989	4.646	53011834	29832919	2.234M4	2.118M4
14)		alpha-Chlord	4.125	4.820	59002934	33629133	2.215M4	2.142M4
15)		4,4'-DDE	4.231	5.034	57816448	31658166	2.154M4	2.039M4
16)		Endosulfan I	4.260	4.883	53429920	30852992	2.245M4	2.139M4
17)		Dieldrin	4.523	5.189	55688835	30672544	2.203M4	2.065M4
18)		Endrin	4.779	5.498	55922691	31149377	2.207M4	2.105M4
19)		4,4'-DDD	4.905	5.633	44628606	25320854	2.162M4	2.097
20)		Endosulfan I	5.033	5.706	51689509	28780716	2.255M4	2.176M4
21)		4,4'-DDT	5.210	5.917	51693181	28316230	2.221M4	2.133M4
22)		Endrin Aldeh	5.466	6.012	43753473	24158275	2.259M4	2.175M4
23)		Methoxychlor	5.719	6.498	31779376	17336810	2.443M4	2.370M3
24)		Mirex	5.764	6.625	50579112	26037177	2.482M4	2.369
25)		Endosulfan S	5.869	6.246	51014785	27890226	2.242M4	2.193
26)		Endrin Keton	6.100	6.665	58194576	30031773	2.299M4	2.183
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:28
Operator : PEST18:peg
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:36:55 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:36:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

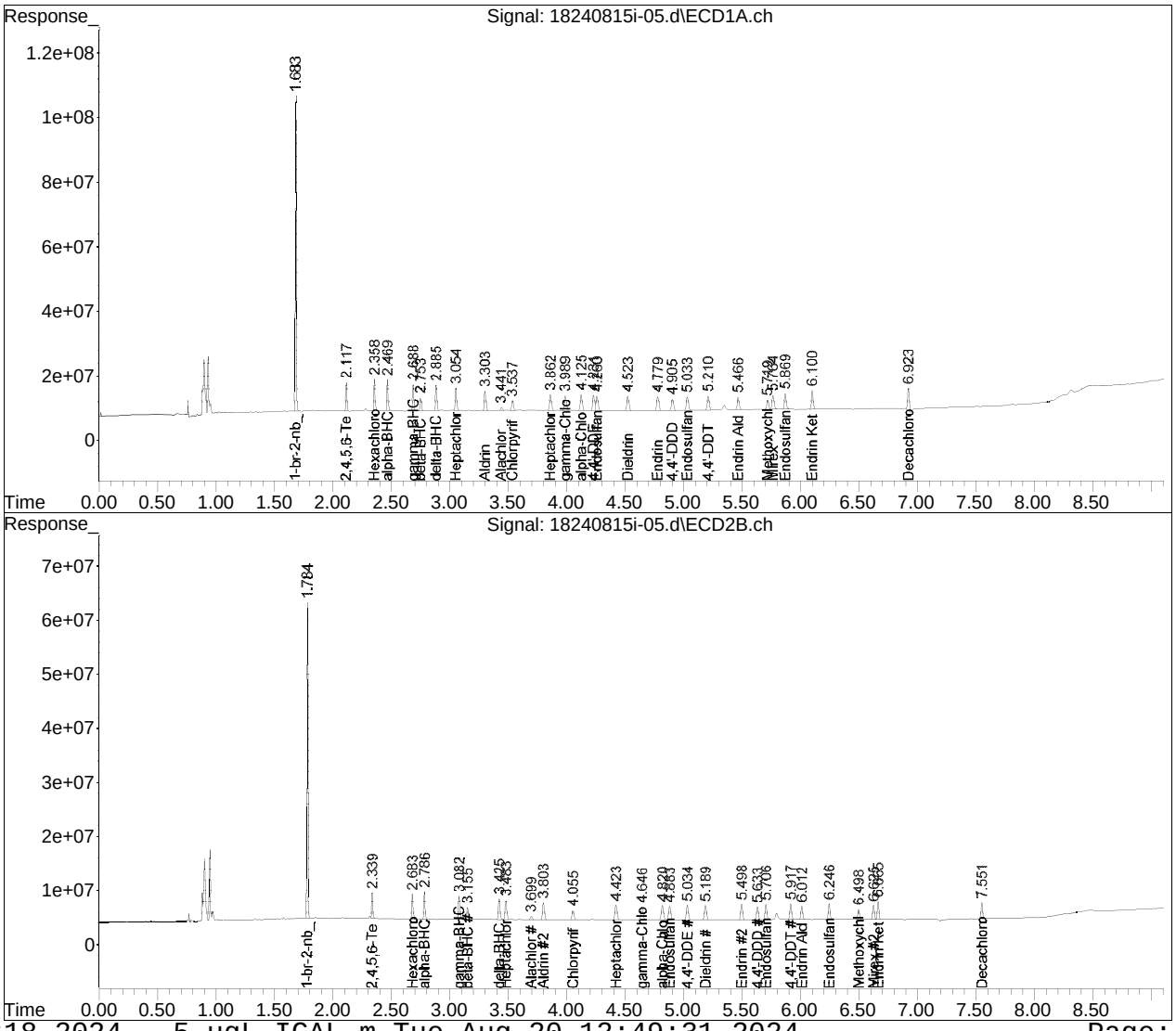
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:28
Operator : PEST18:peg
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:36:55 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:36:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

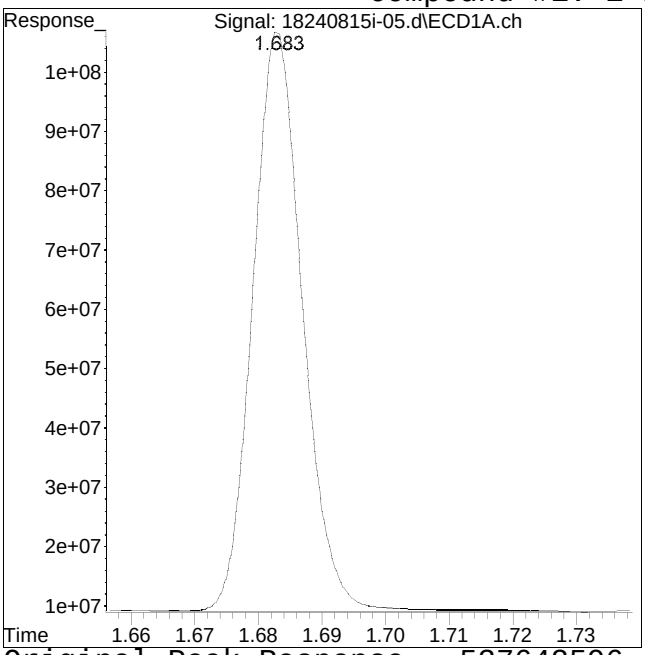


Manual Integration Report

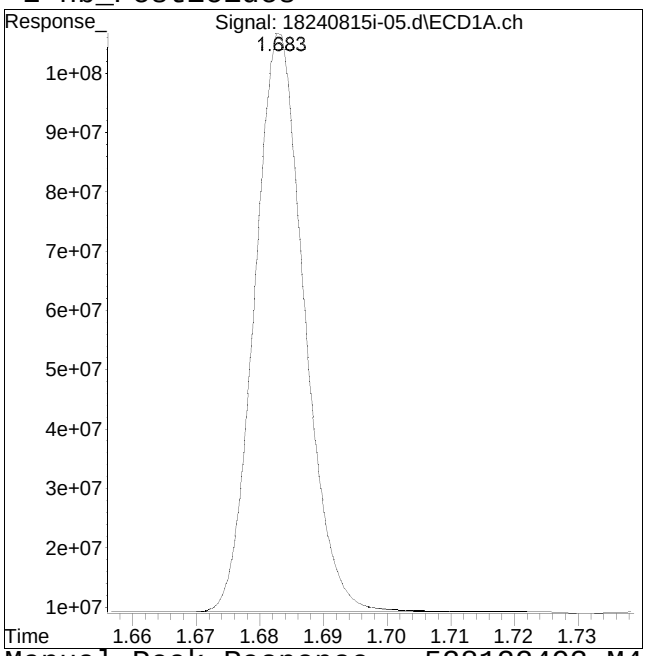
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-05.d
Date Inj'd : 8/15/2024 14:28
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 8:36 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 537642596



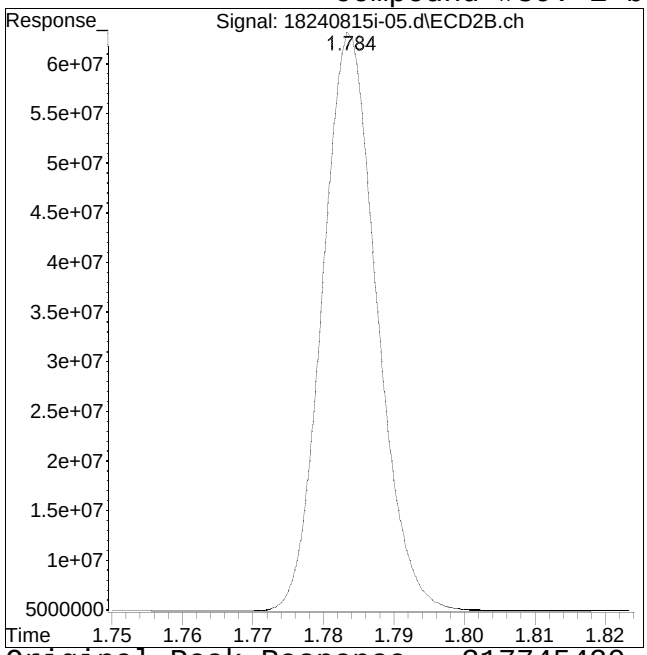
Manual Peak Response = 528122493 M4

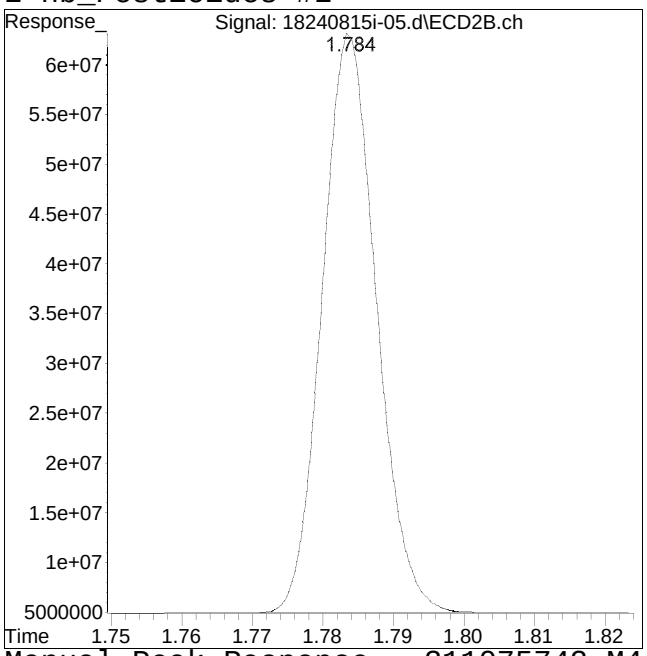
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #39: 1-br-2-nb_Pesticides #2



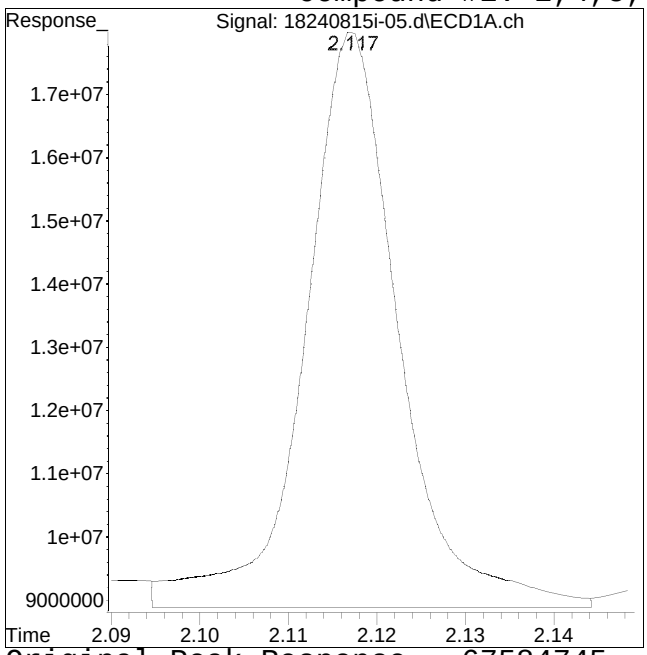


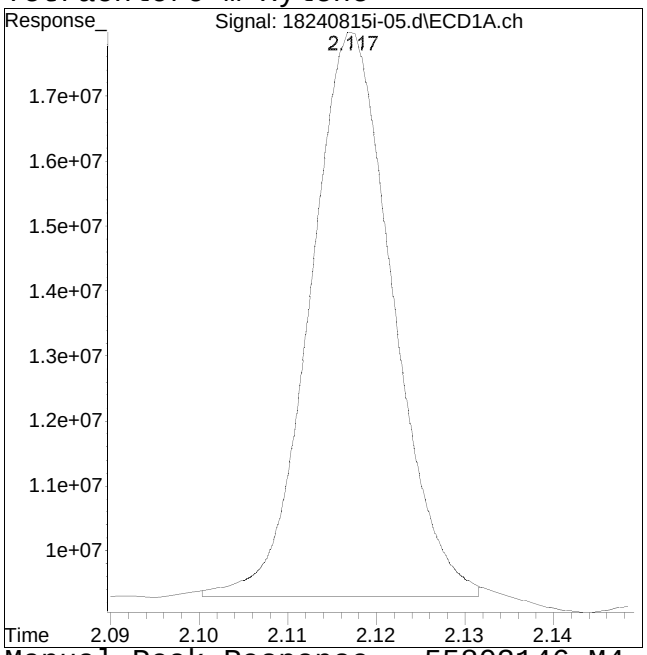
Original Peak Response = 317745420 Manual Peak Response = 311075742 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



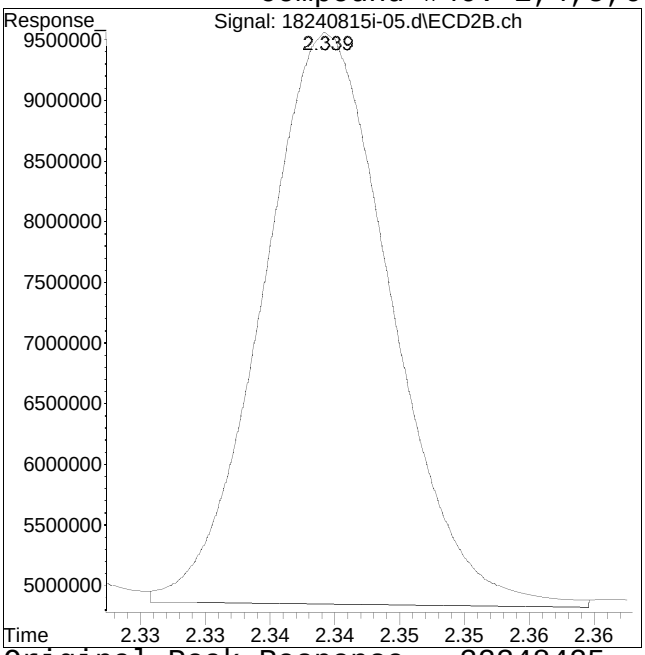


Original Peak Response = 67584745 Manual Peak Response = 55803146 M4
M4 = Poor automated baseline construction.

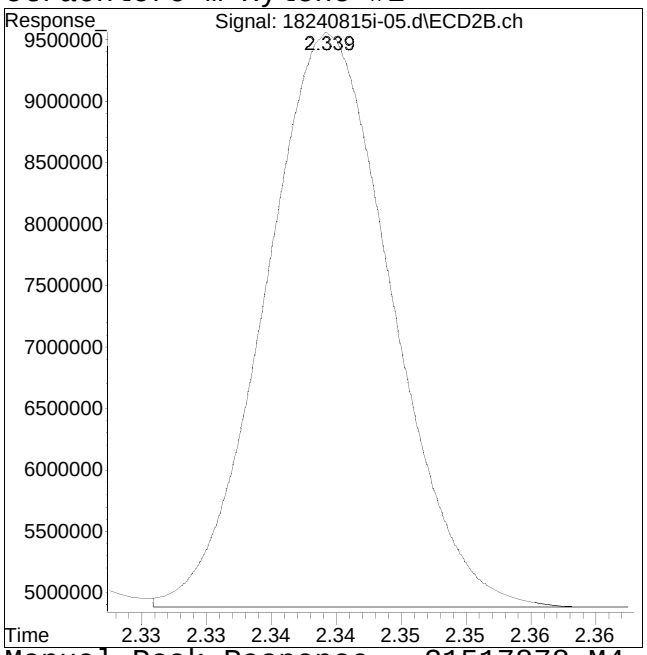
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 32348425



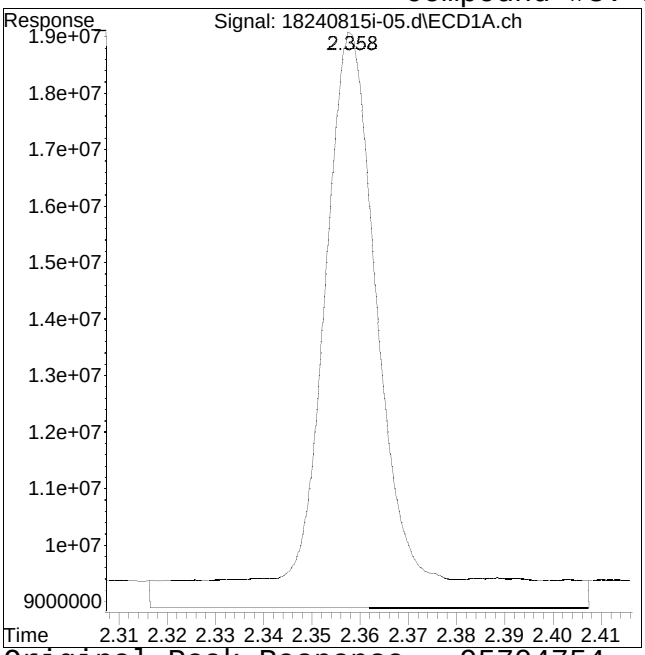
Manual Peak Response = 31517878 M4

M4 = Poor automated baseline construction.

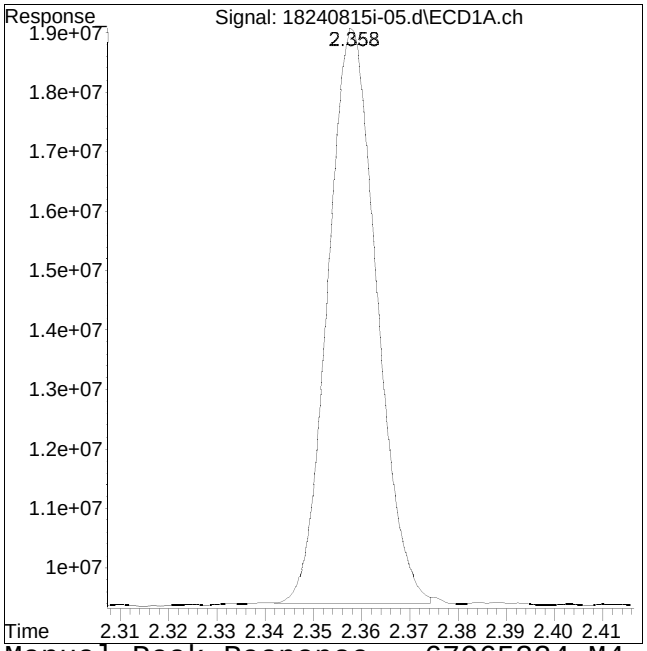
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #3: Hexachlorobenzene



Original Peak Response = 95704754



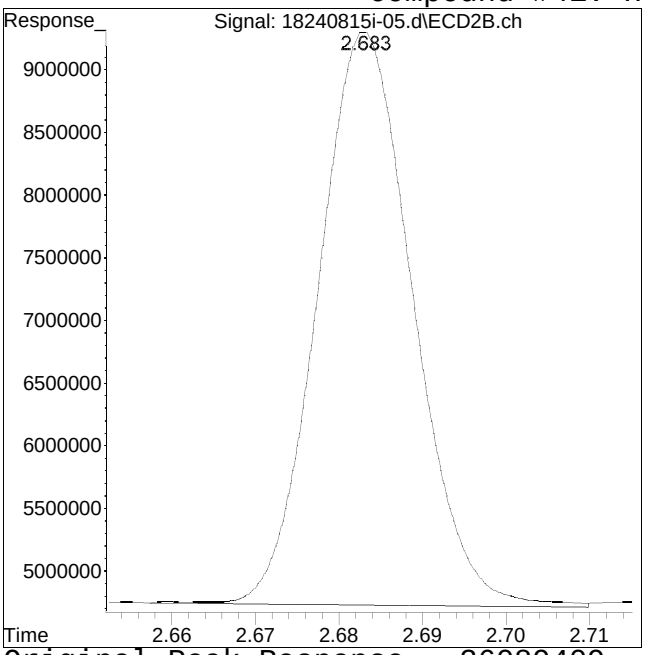
Manual Peak Response = 67965324 M4

M4 = Poor automated baseline construction.

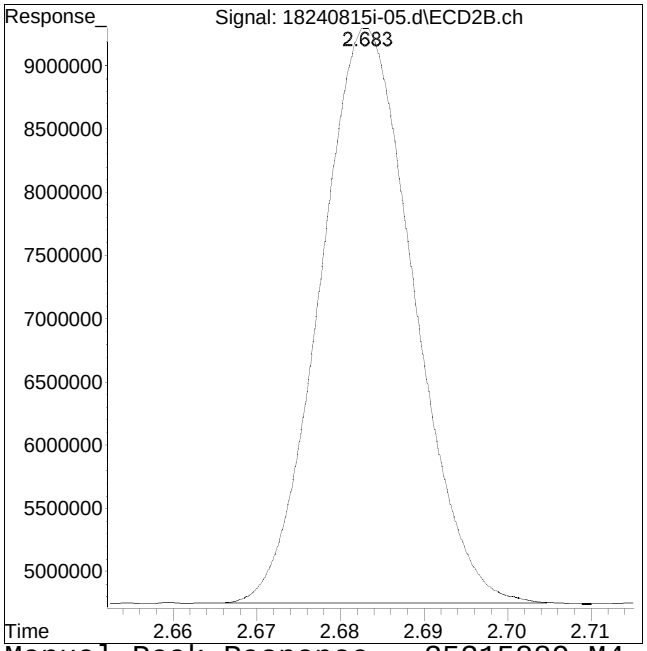
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 36089409



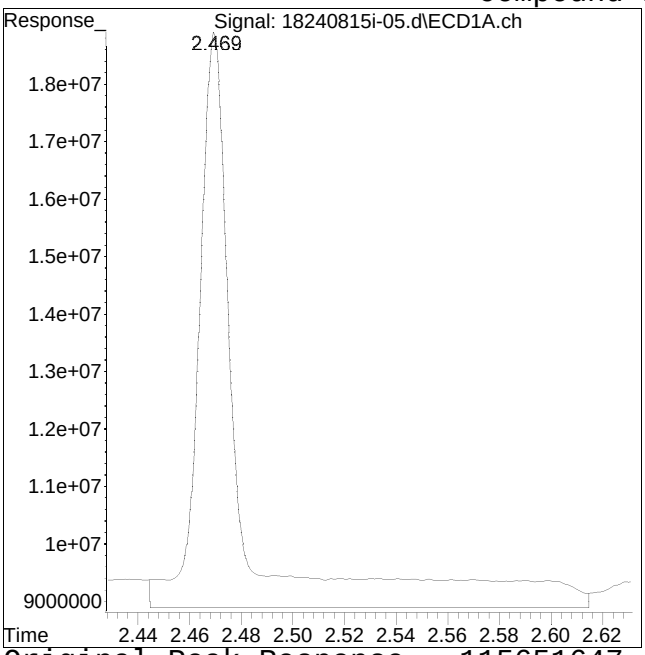
Manual Peak Response = 35315889 M4

M4 = Poor automated baseline construction.

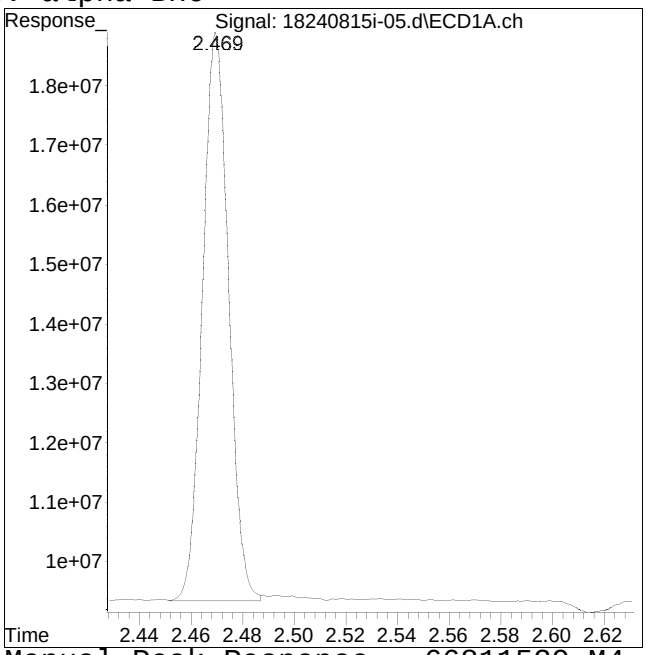
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #4: alpha-BHC



Original Peak Response = 115651647

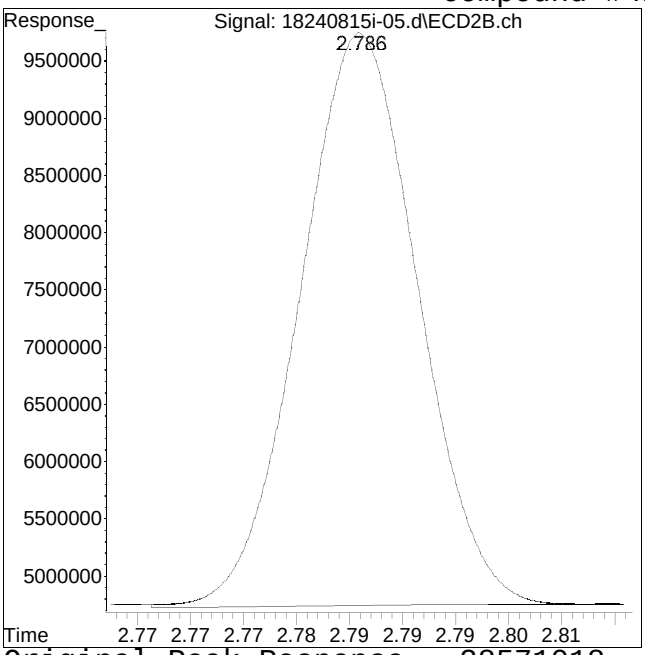


Manual Peak Response = 66811529 M4
M4 = Poor automated baseline construction.

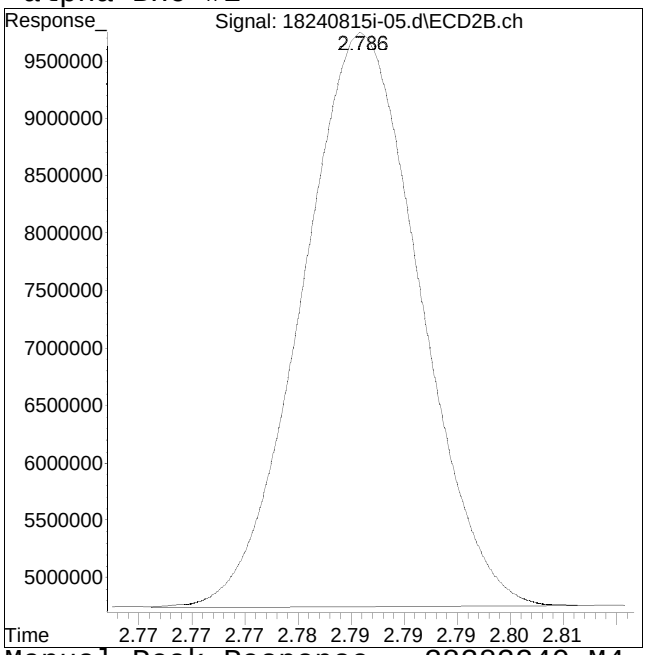
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #42: alpha-BHC #2



Original Peak Response = 38571018



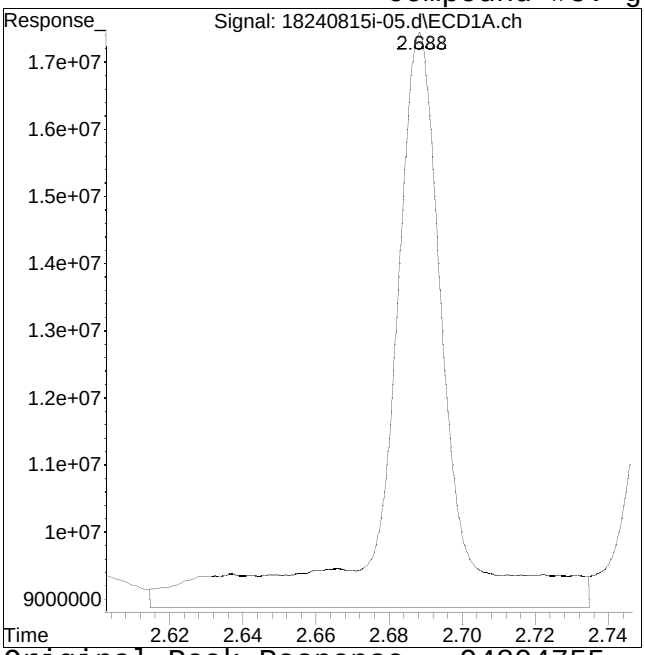
Manual Peak Response = 38383240 M4

M4 = Poor automated baseline construction.

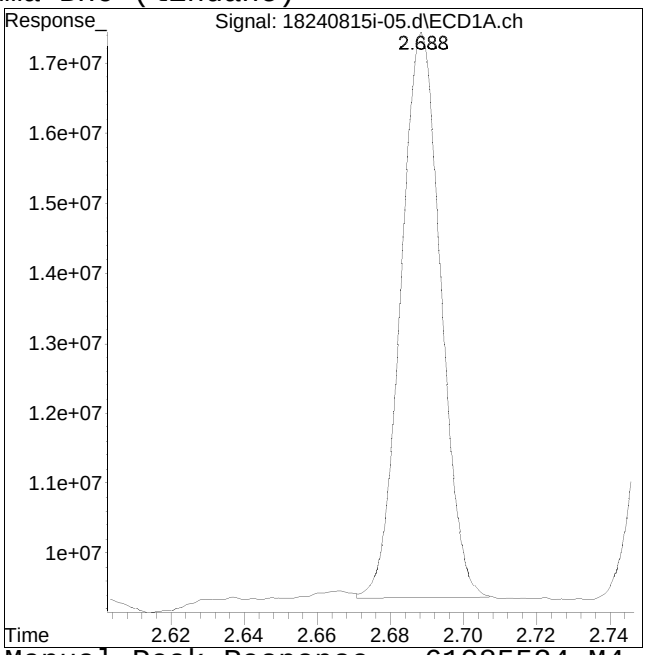
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 94804755



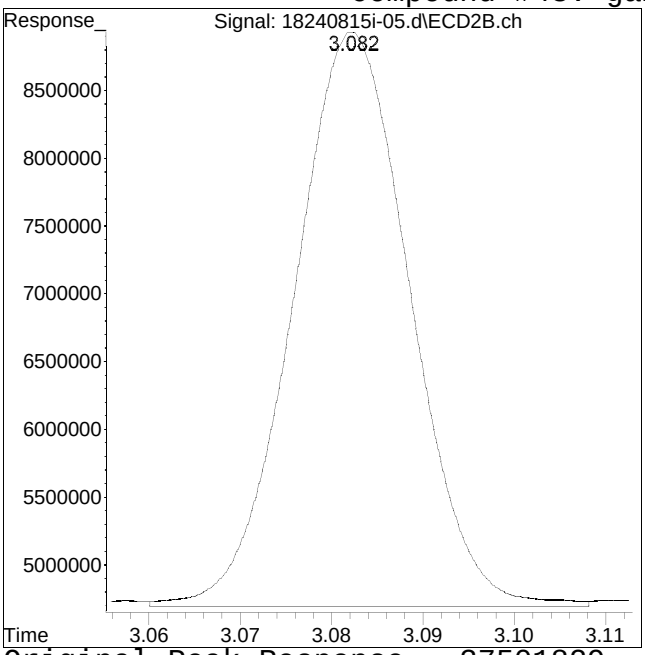
Manual Peak Response = 61085524 M4

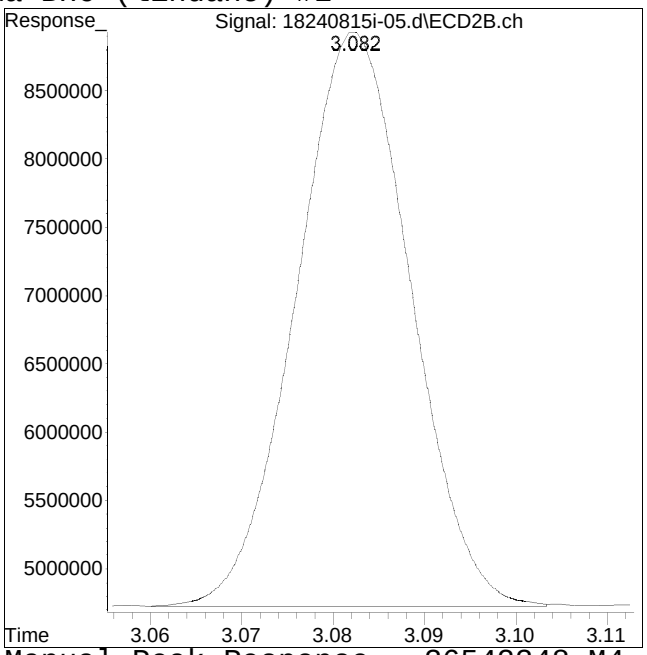
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #43: gamma-BHC (lindane) #2



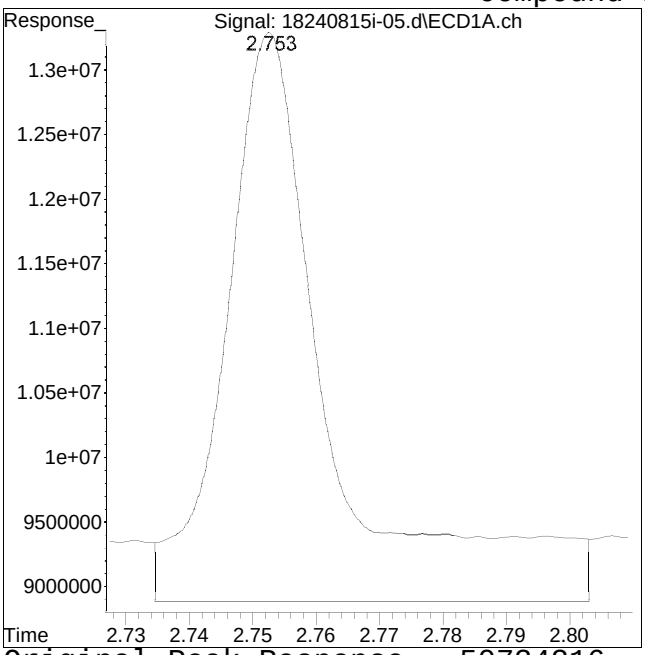


Original Peak Response = 37501829 Manual Peak Response = 36542348 M4
M4 = Poor automated baseline construction.

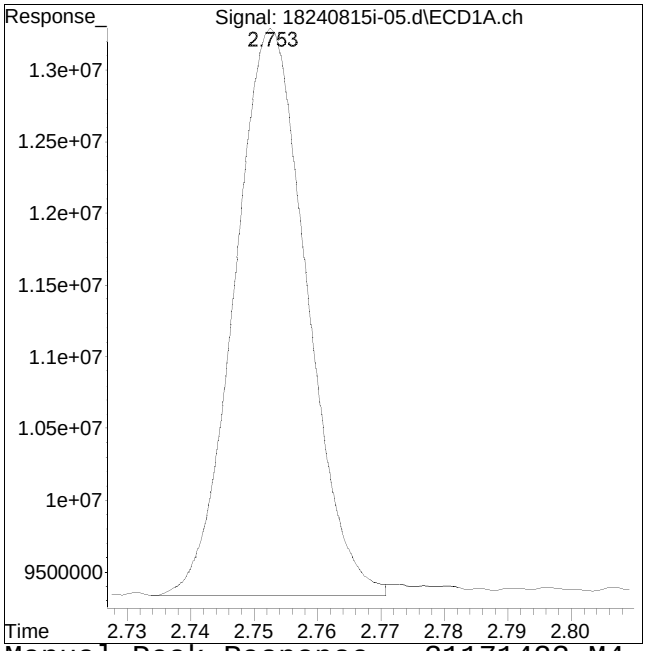
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #6: beta-BHC



Original Peak Response = 50734216

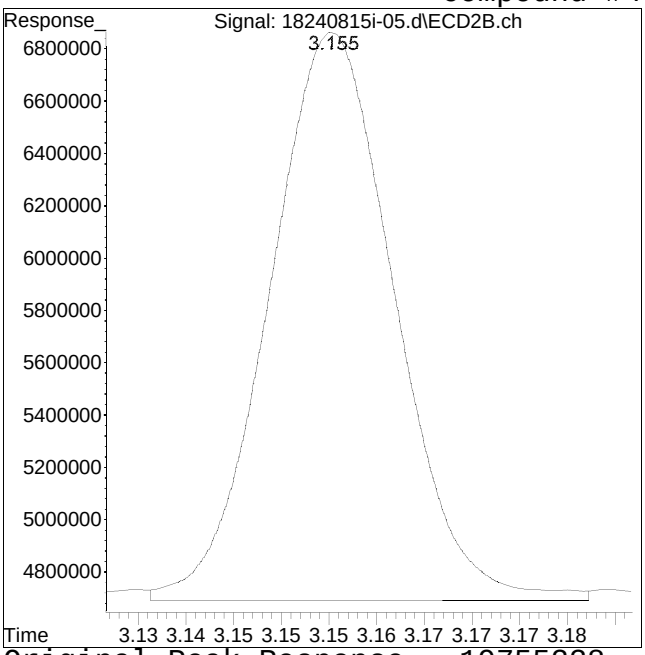


Manual Peak Response = 31171423 M4
M4 = Poor automated baseline construction.

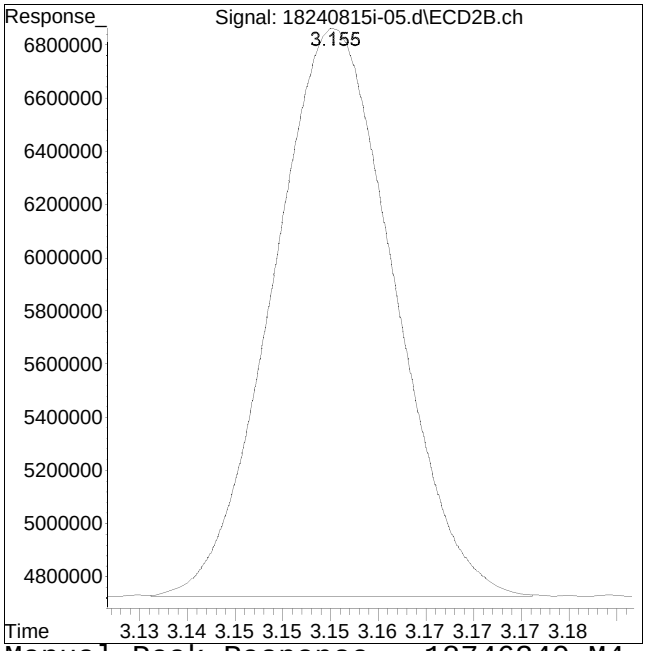
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #44: beta-BHC #2



Original Peak Response = 19755238



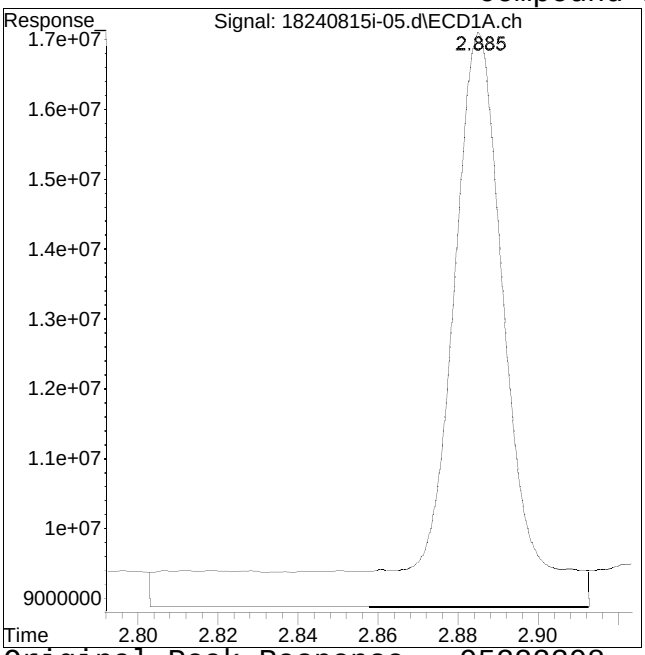
Manual Peak Response = 18746340 M4

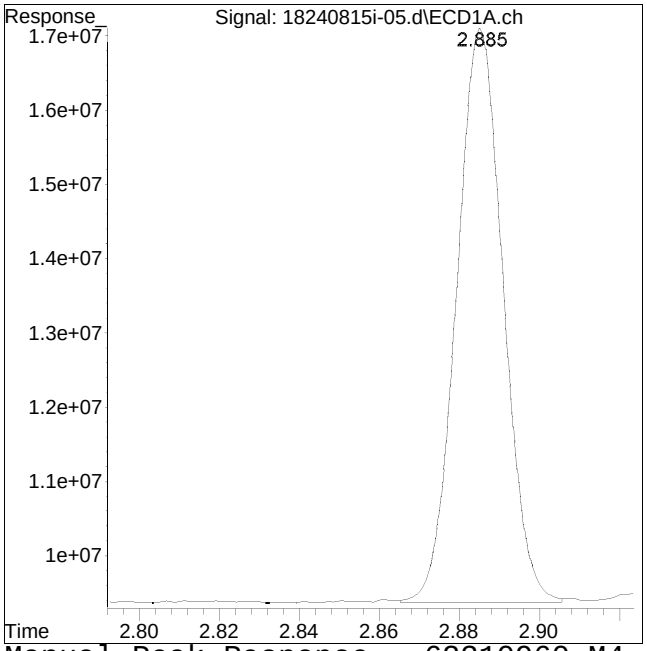
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #7: delta-BHC



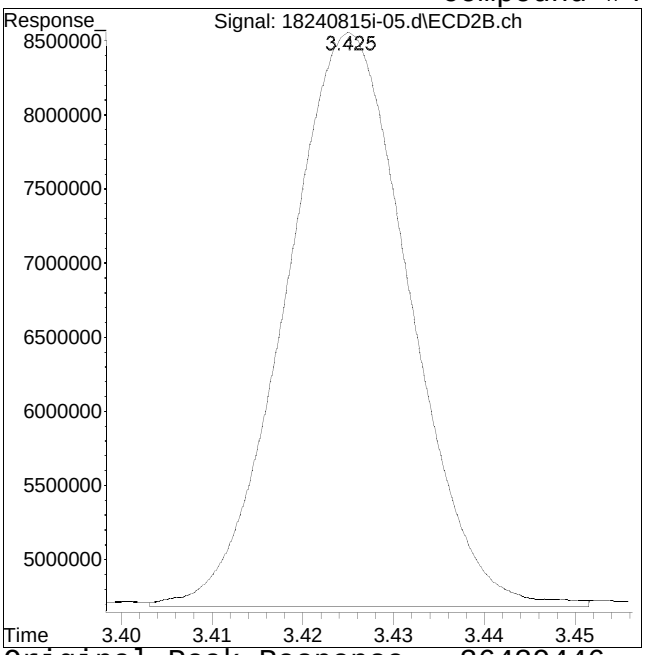


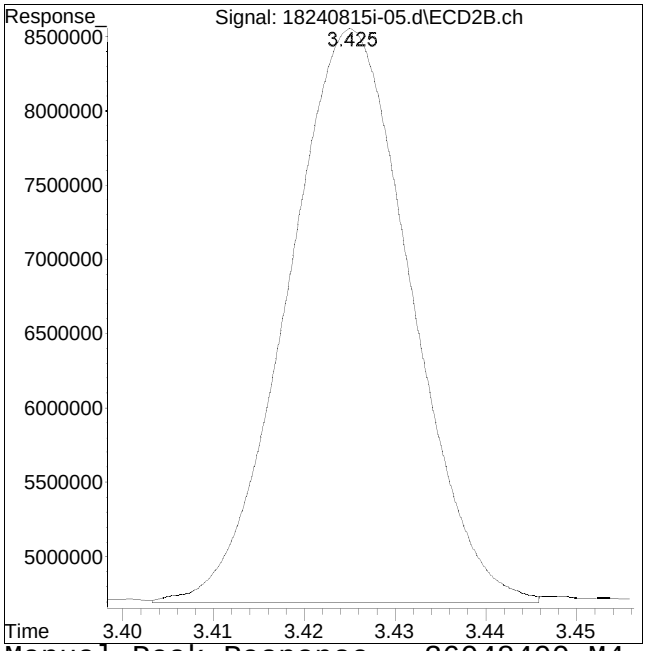
Original Peak Response = 95222398 Manual Peak Response = 62310960 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #45: delta-BHC #2



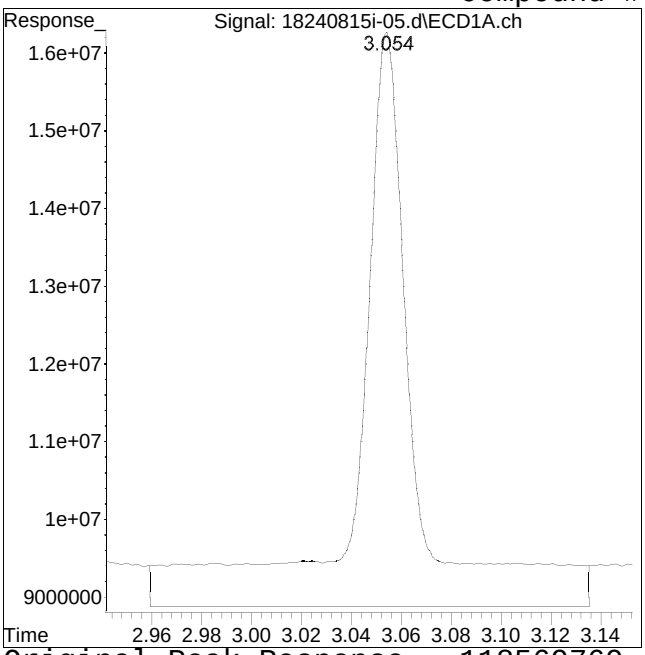


Original Peak Response = 36439446 Manual Peak Response = 36048400 M4
M4 = Poor automated baseline construction.

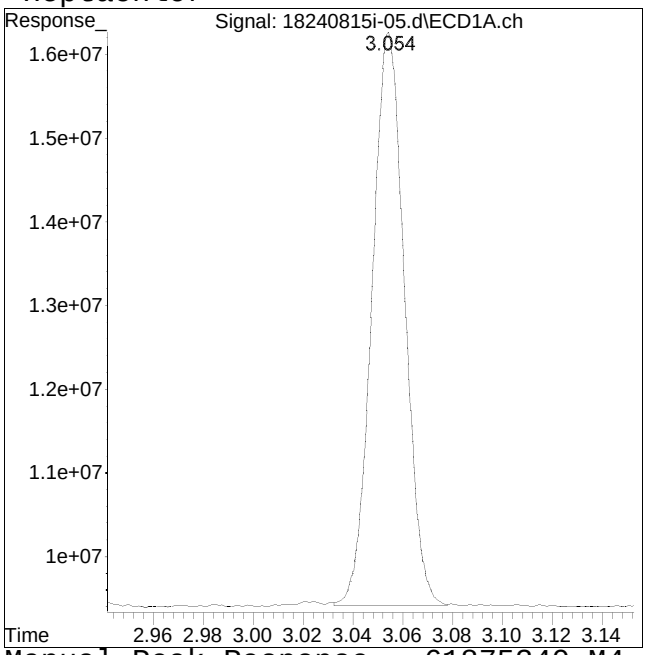
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #8: Heptachlor



Original Peak Response = 118569769



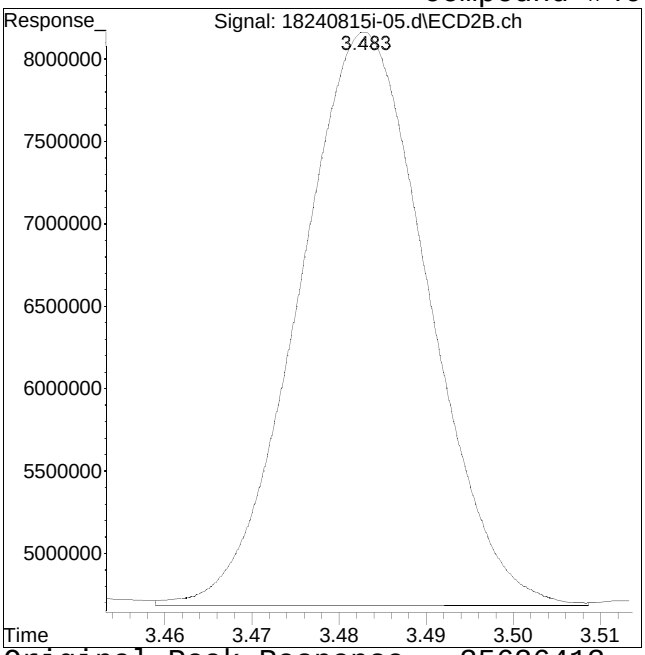
Manual Peak Response = 61875340 M4

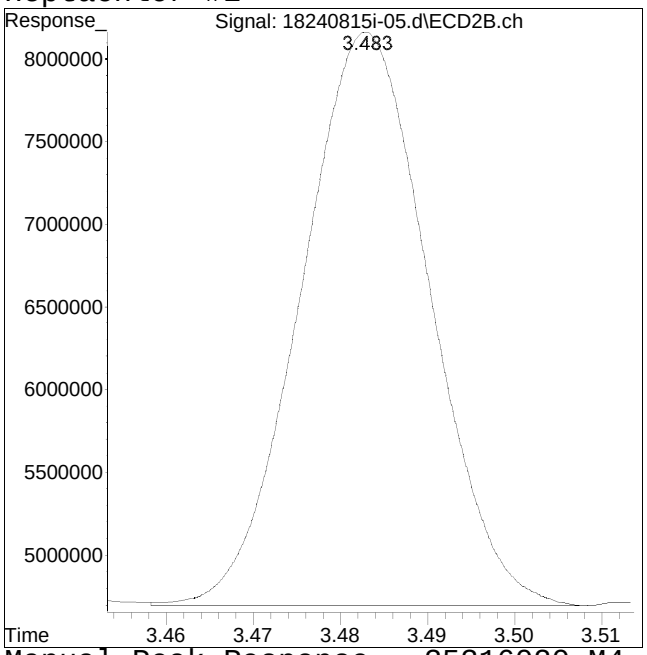
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #46: Heptachlor #2



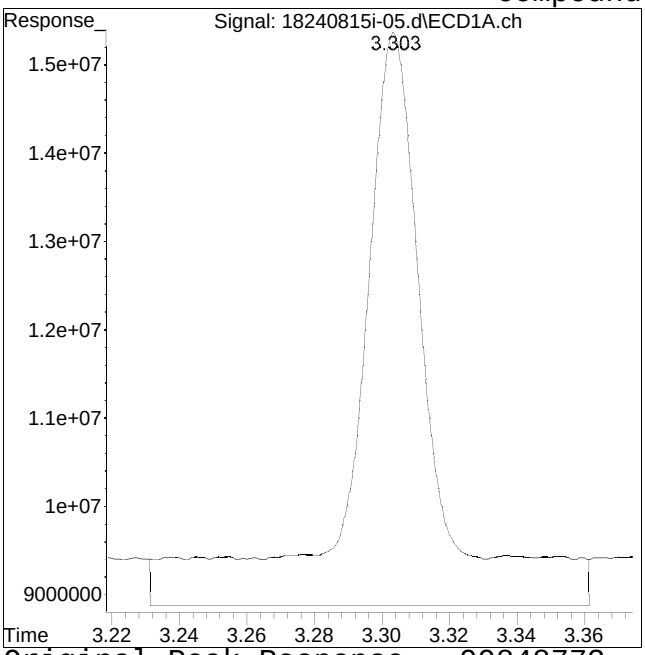


Original Peak Response = 35636413 Manual Peak Response = 35316020 M4
M4 = Poor automated baseline construction.

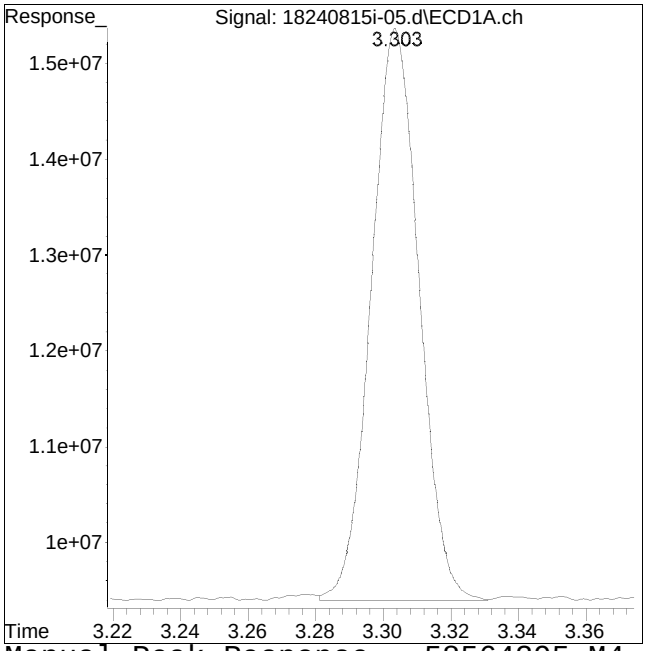
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #9: Aldrin



Original Peak Response = 99848773



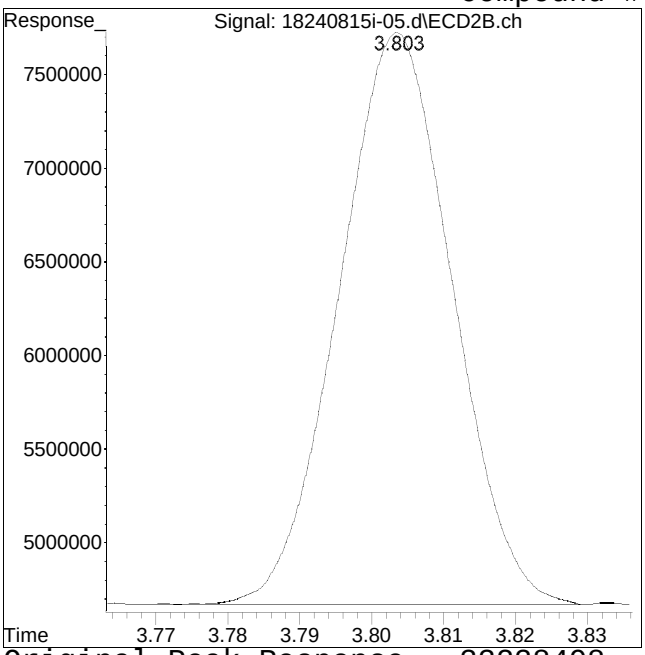
Manual Peak Response = 58564395 M4

M4 = Poor automated baseline construction.

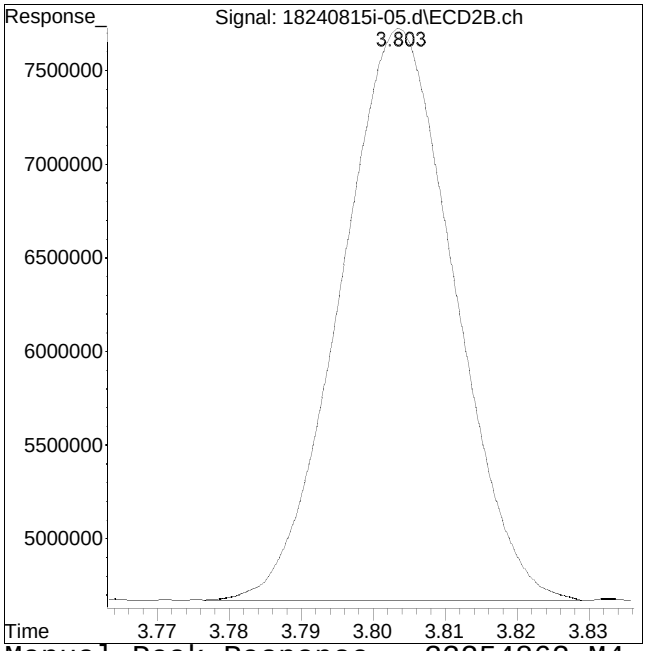
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #47: Aldrin #2



Original Peak Response = 33238498



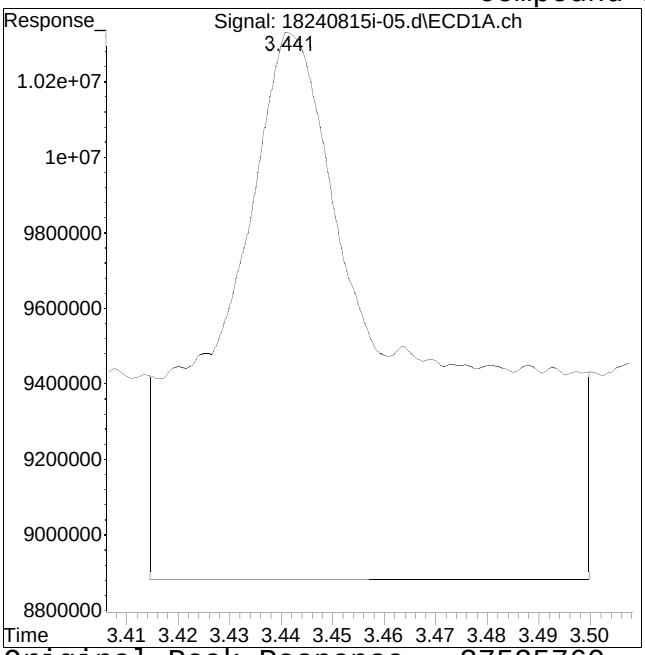
Manual Peak Response = 33254862 M4

M4 = Poor automated baseline construction.

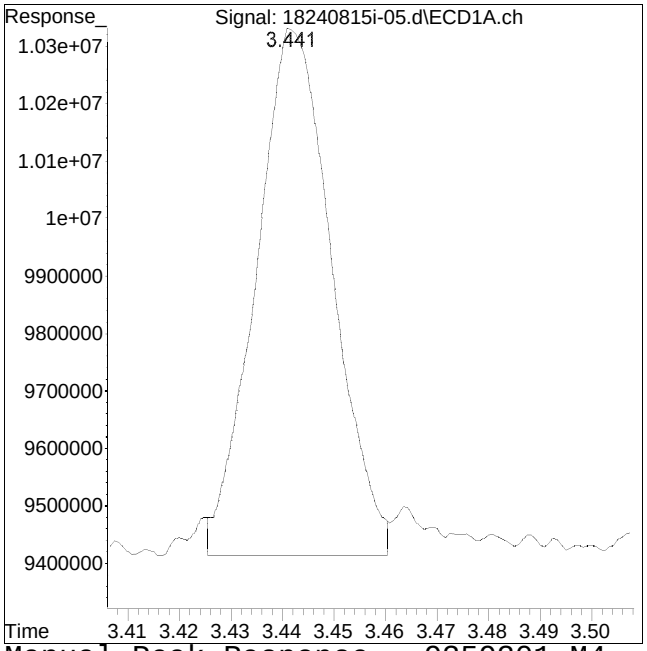
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #10: Alachlor



Original Peak Response = 37525760



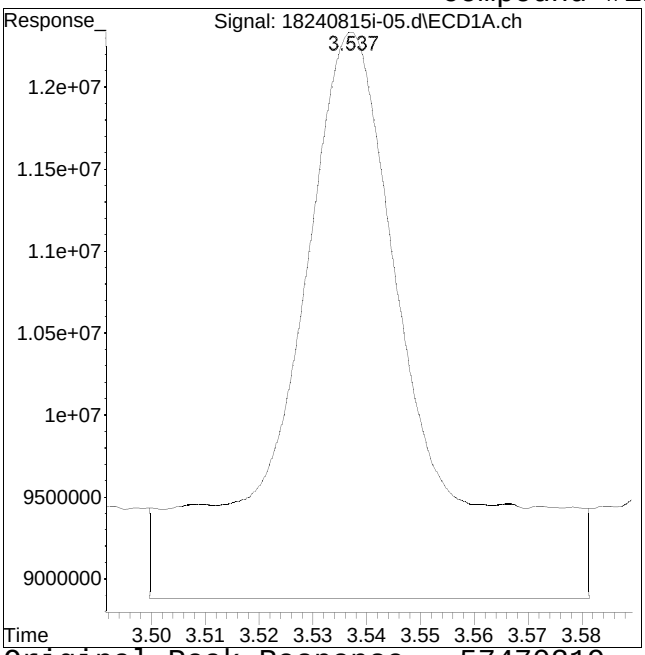
Manual Peak Response = 9359301 M4

M4 = Poor automated baseline construction.

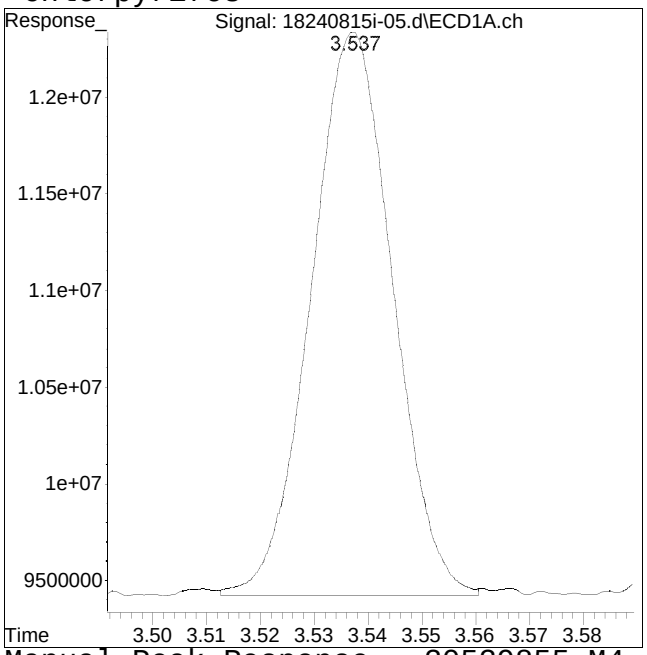
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #11: Chlorpyrifos



Original Peak Response = 57470219



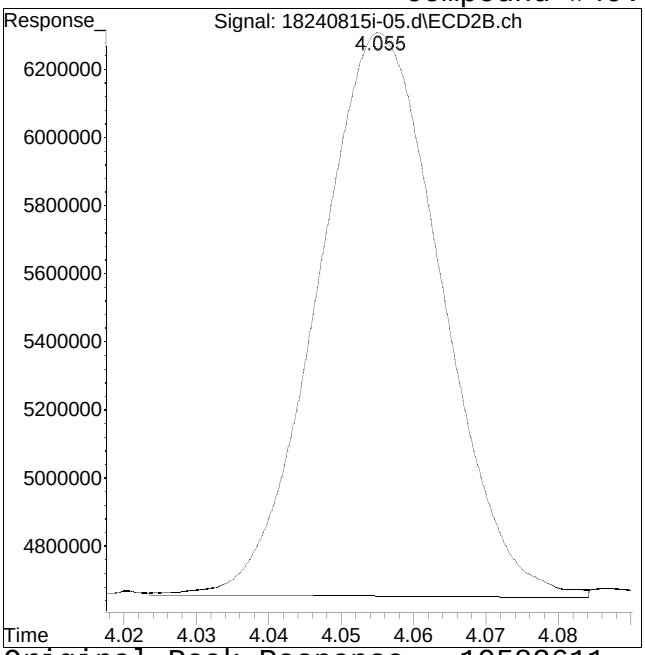
Manual Peak Response = 30539855 M4

M4 = Poor automated baseline construction.

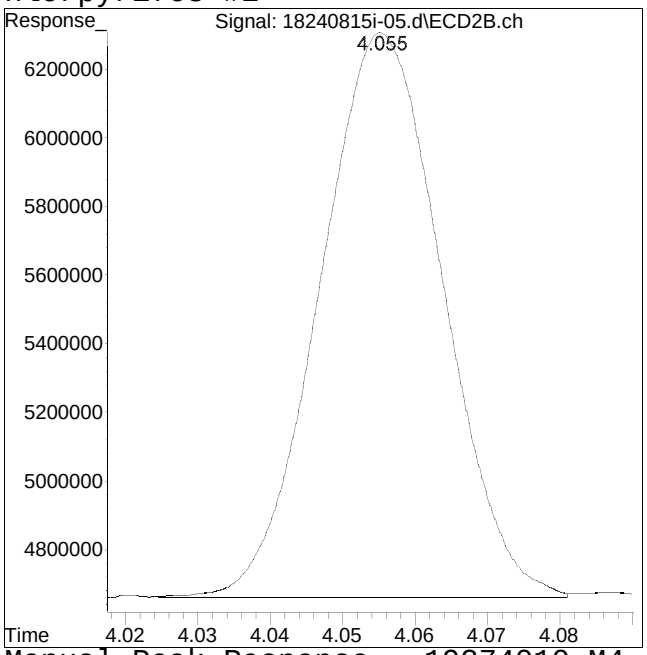
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 19582611



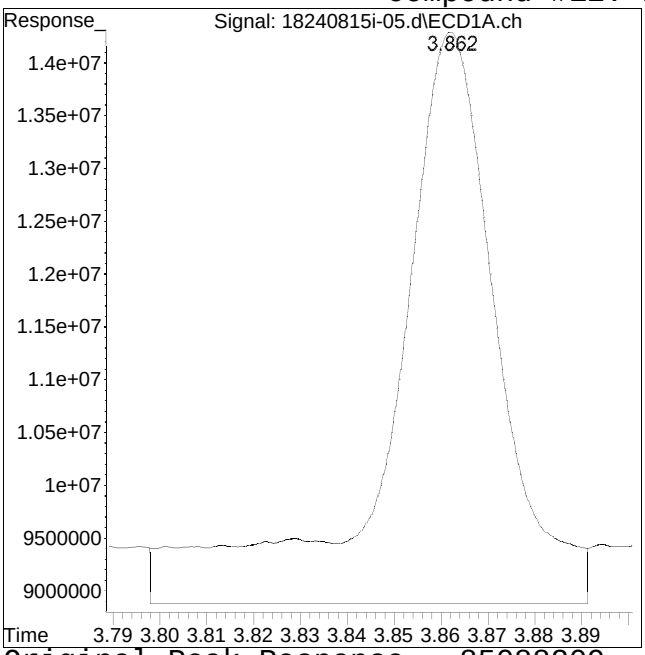
Manual Peak Response = 19274010 M4

M4 = Poor automated baseline construction.

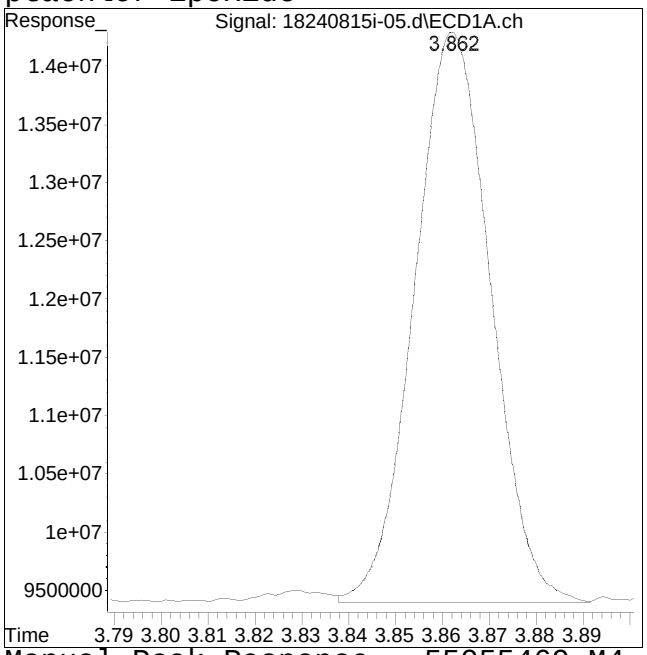
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 85088209



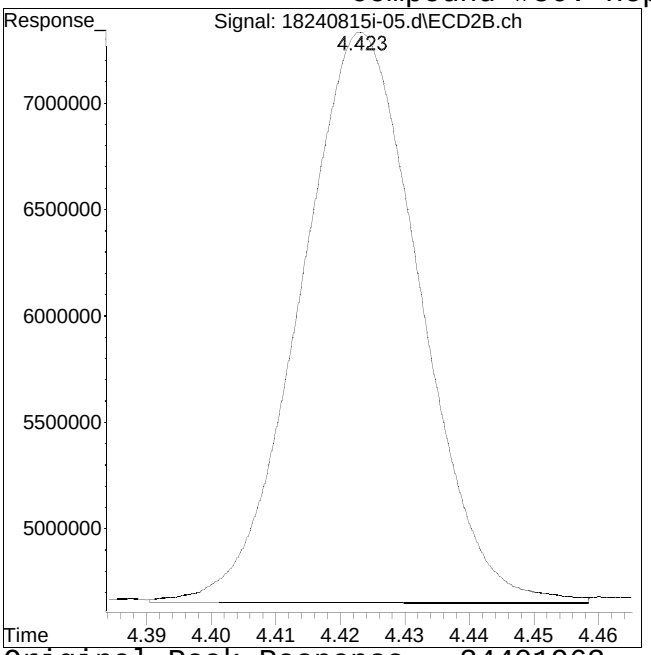
Manual Peak Response = 55055469 M4

M4 = Poor automated baseline construction.

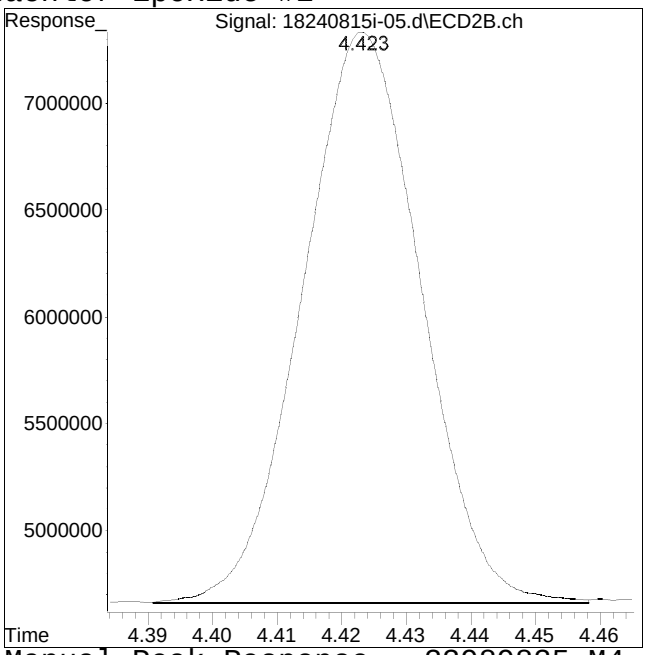
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 34401963



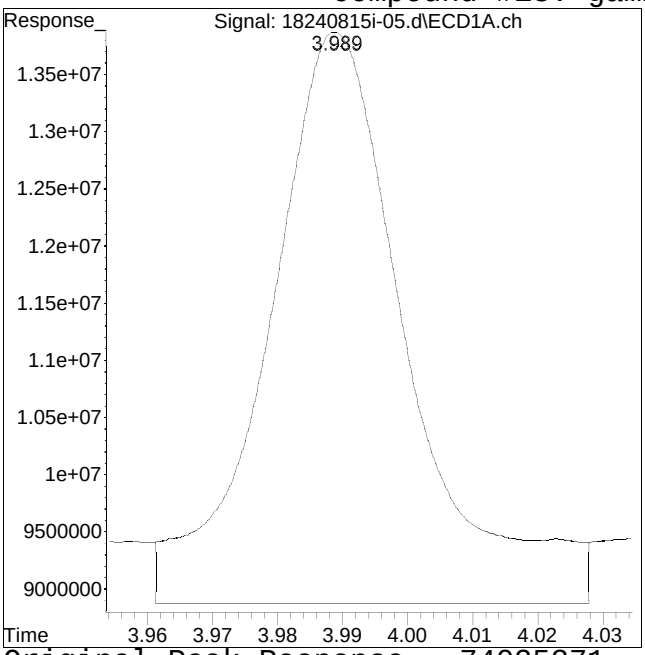
Manual Peak Response = 33989835 M4

M4 = Poor automated baseline construction.

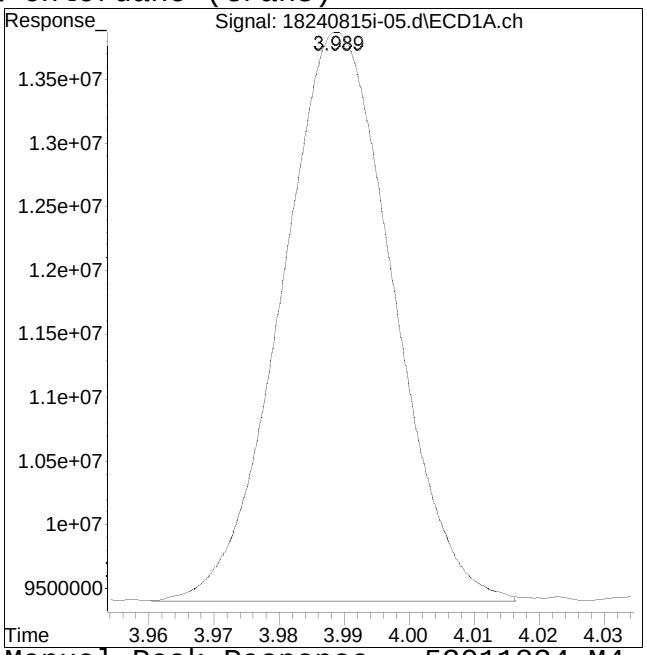
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 74025271



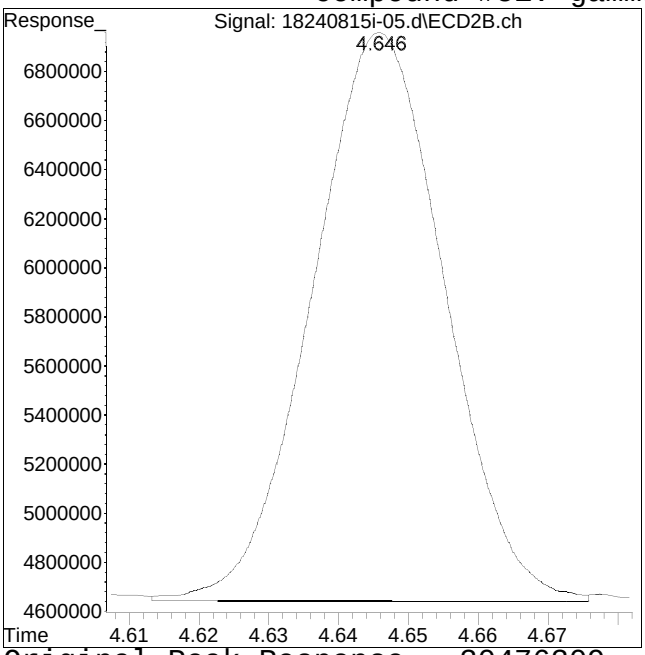
Manual Peak Response = 53011834 M4

M4 = Poor automated baseline construction.

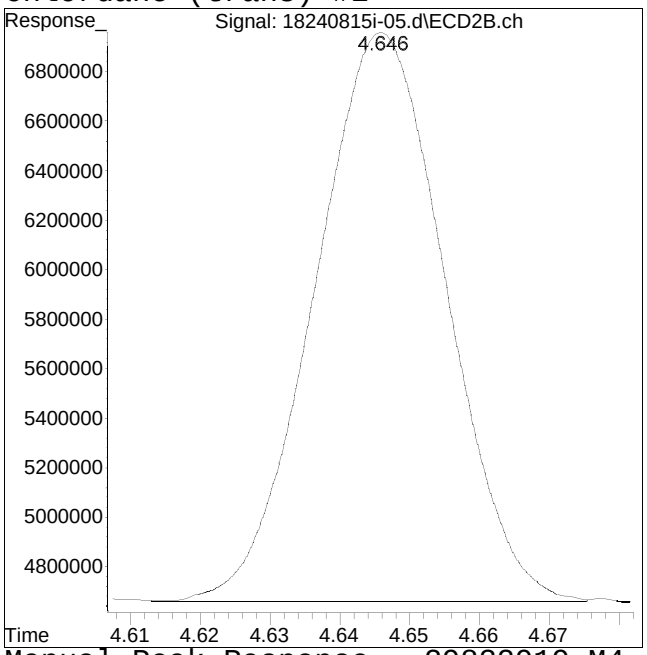
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 30476309



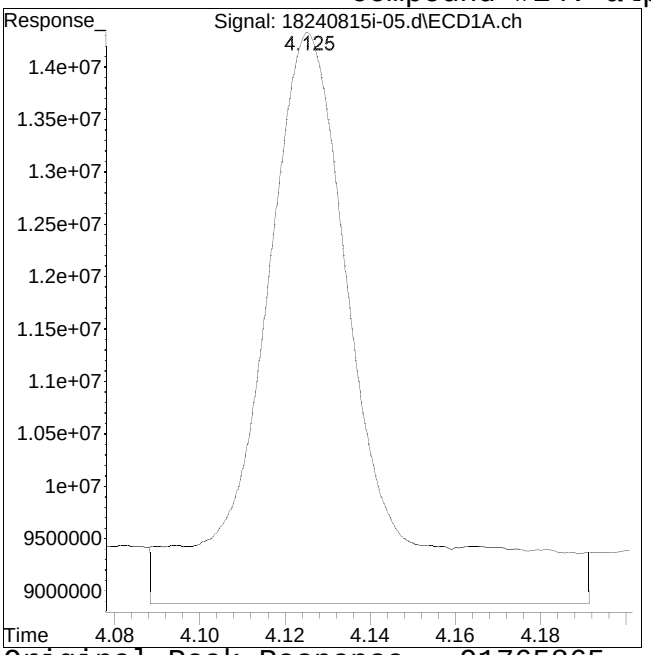
Manual Peak Response = 29832919 M4

M4 = Poor automated baseline construction.

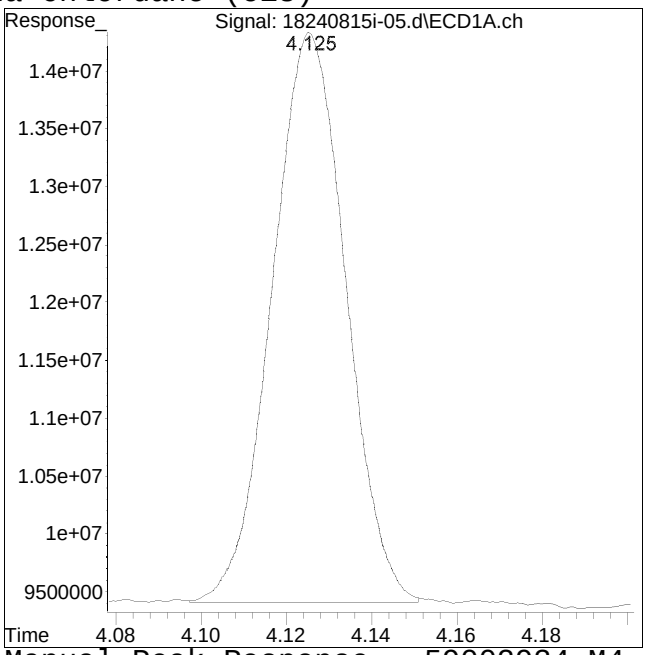
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 91765865



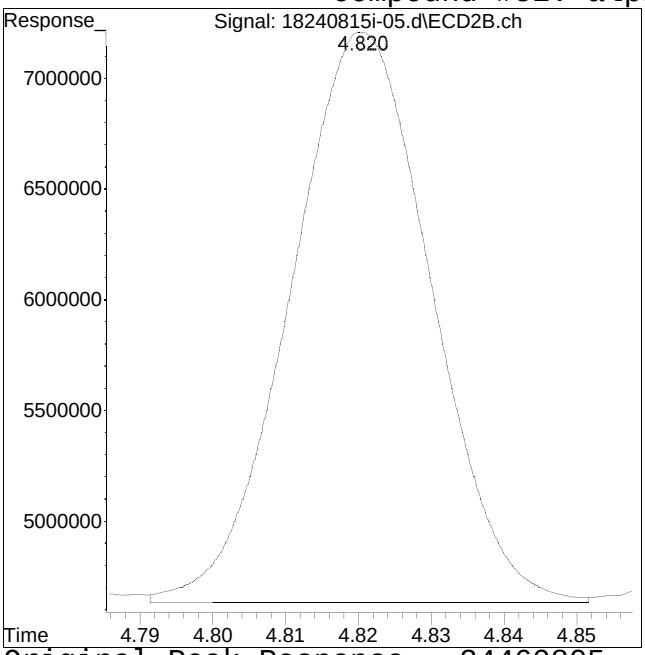
Manual Peak Response = 59002934 M4

M4 = Poor automated baseline construction.

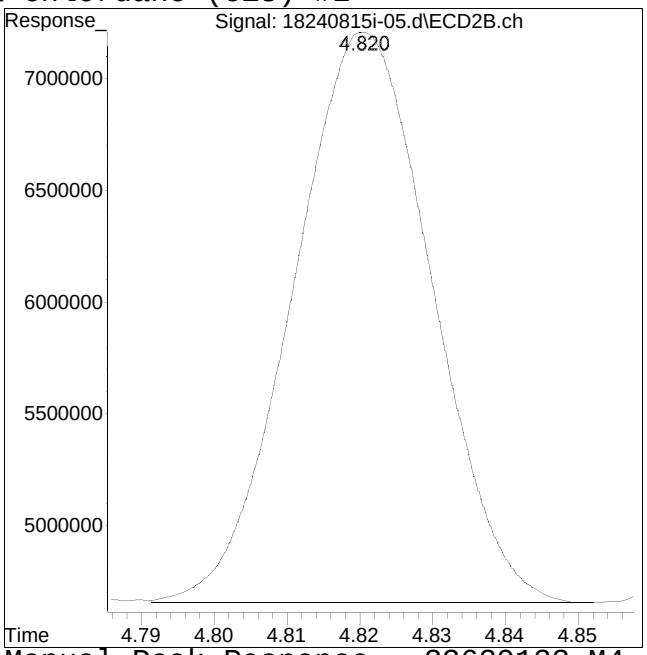
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 34460805



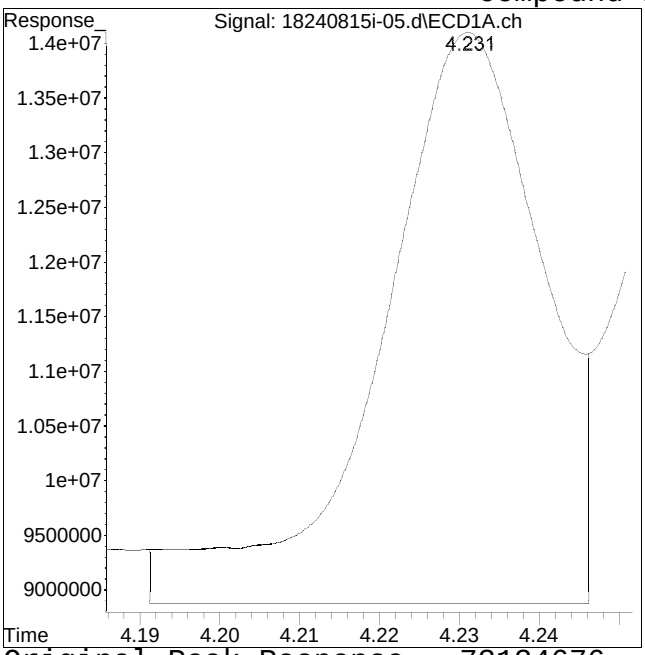
Manual Peak Response = 33629133 M4

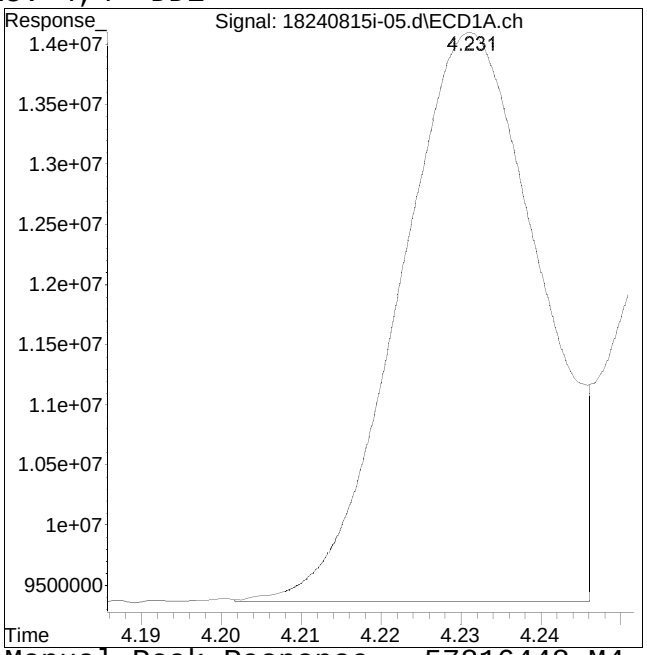
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #15: 4,4'-DDE



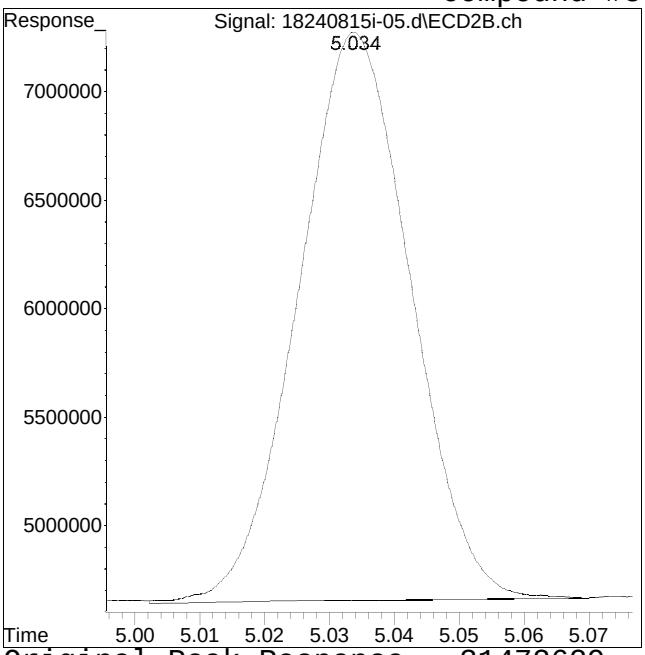


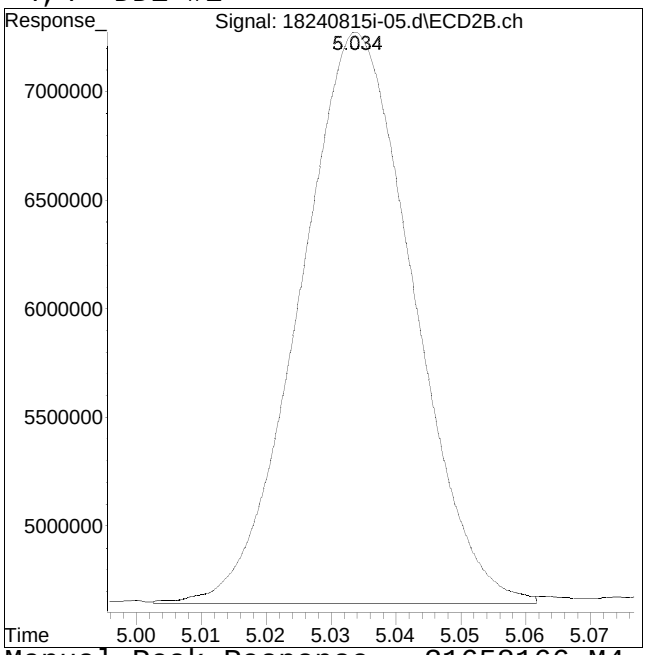
Original Peak Response = 73134676 Manual Peak Response = 57816448 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #53: 4,4'-DDE #2



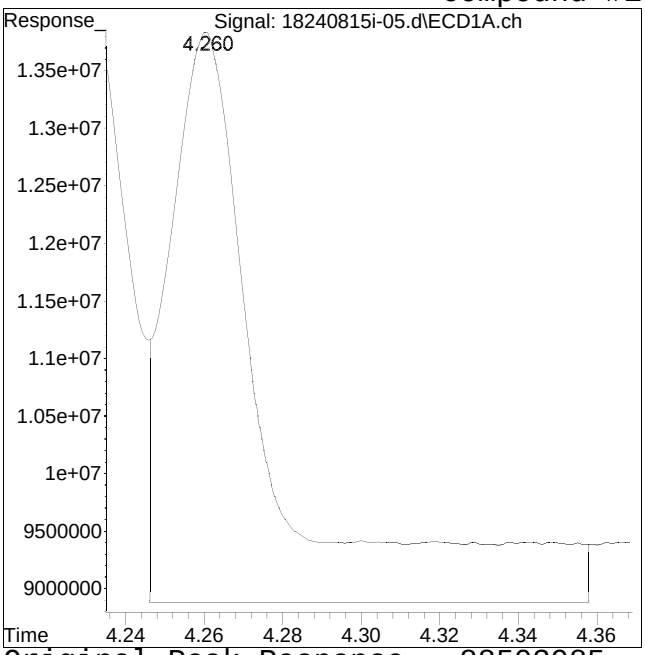


Original Peak Response = 31472629 Manual Peak Response = 31658166 M4
M4 = Poor automated baseline construction.

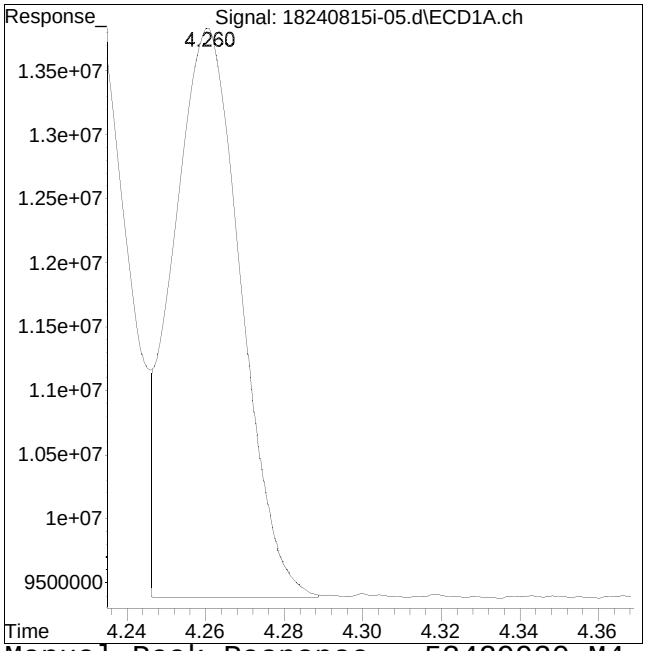
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #16: Endosulfan I



Original Peak Response = 88503985

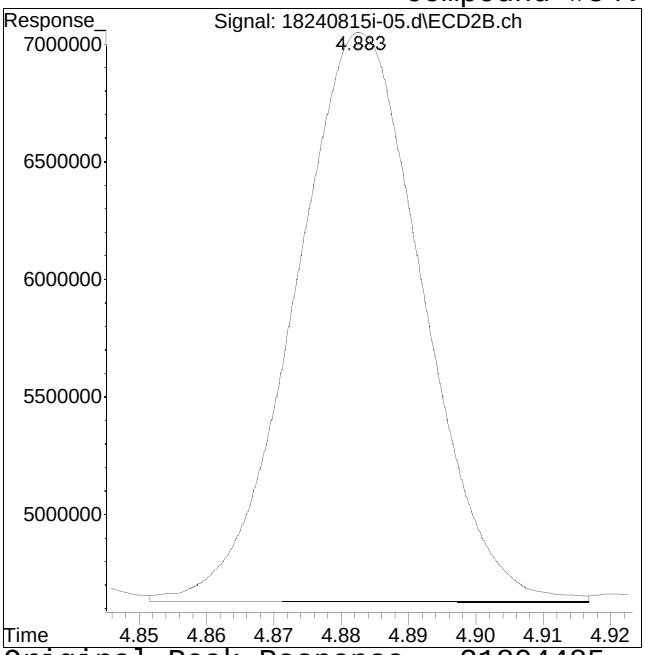


Manual Peak Response = 53429920 M4
M4 = Poor automated baseline construction.

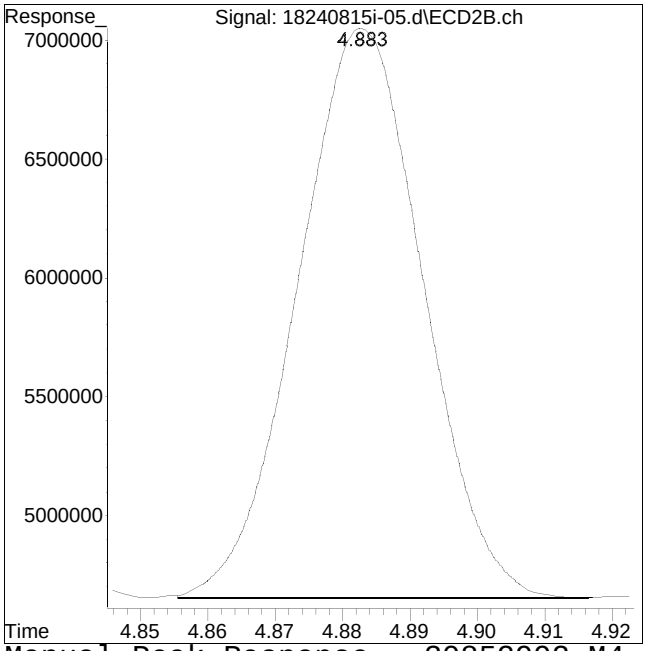
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #54: Endosulfan I #2



Original Peak Response = 31804485



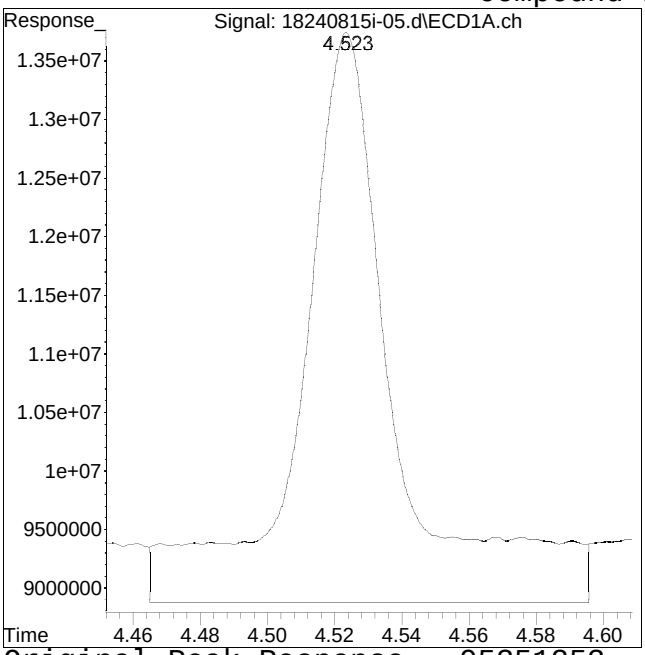
Manual Peak Response = 30852992 M4

M4 = Poor automated baseline construction.

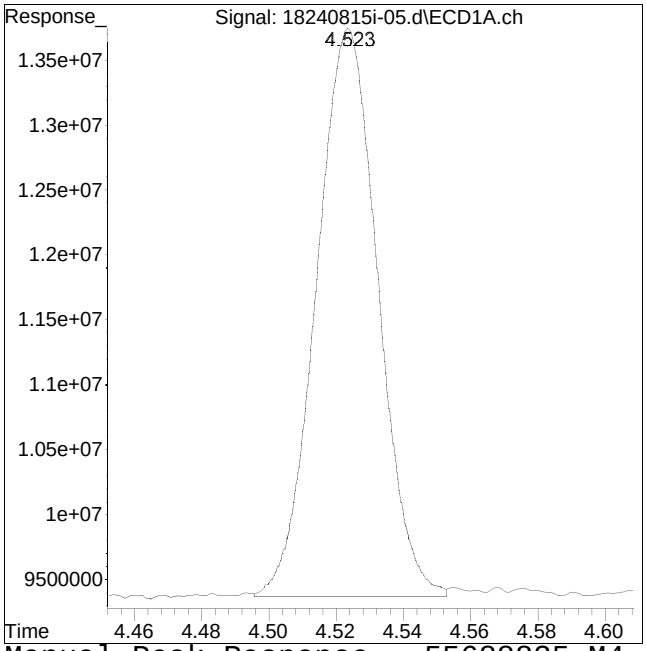
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #17: Dieldrin



Original Peak Response = 95351253



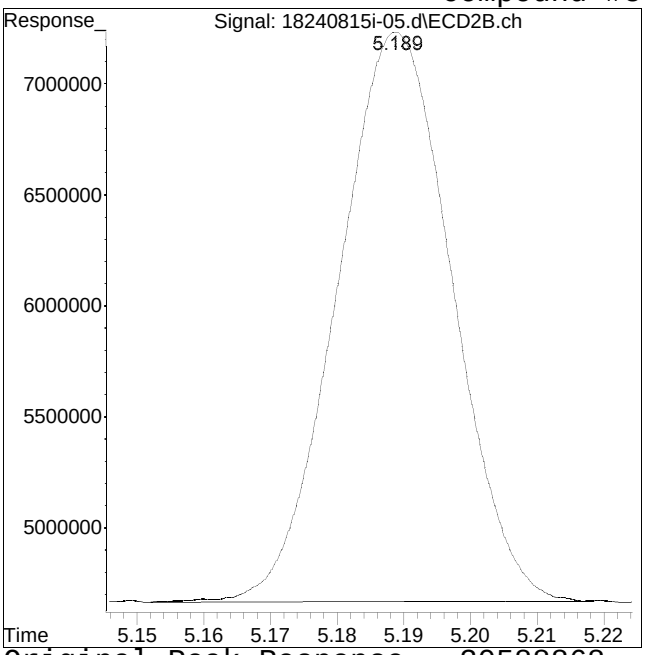
Manual Peak Response = 55688835 M4

M4 = Poor automated baseline construction.

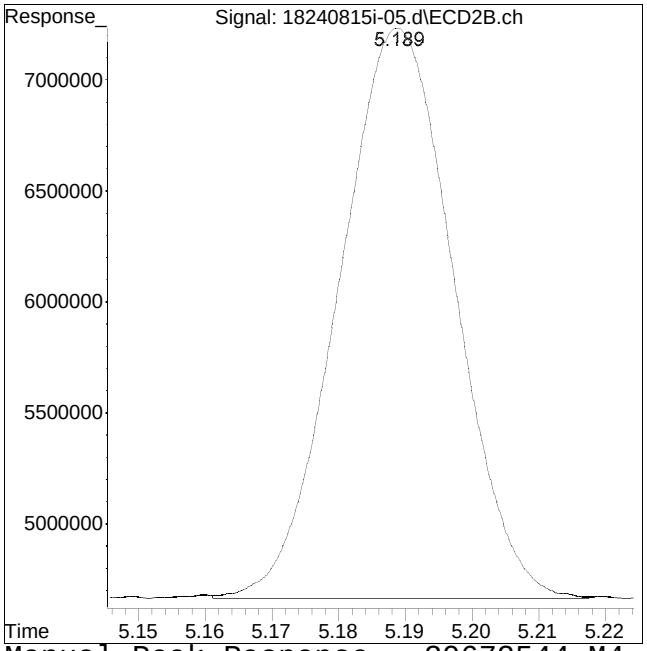
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #55: Dieldrin #2



Original Peak Response = 30588868



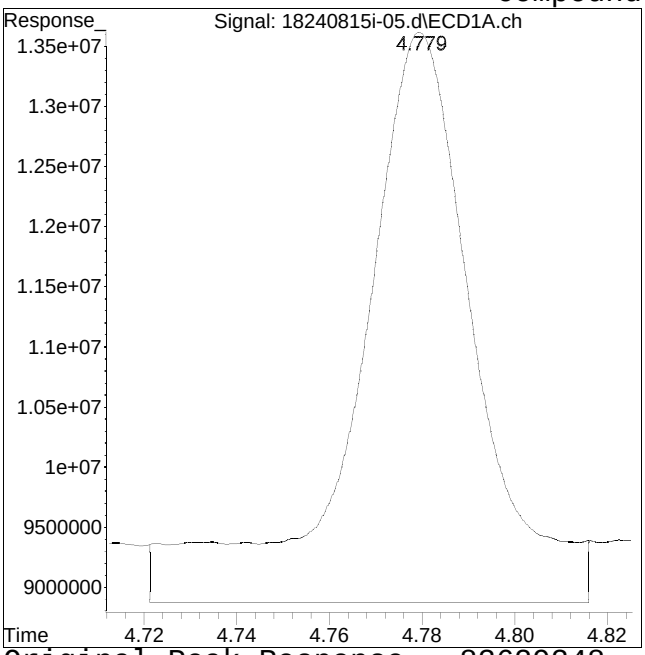
Manual Peak Response = 30672544 M4

M4 = Poor automated baseline construction.

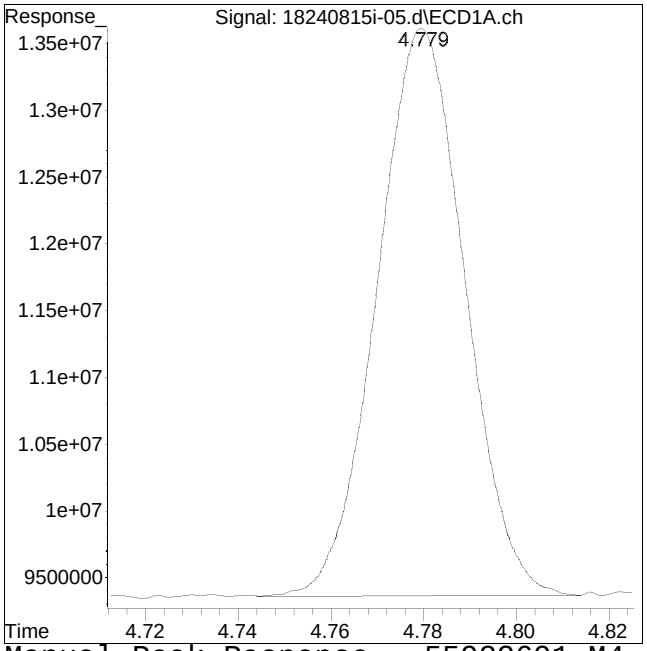
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #18: Endrin



Original Peak Response = 83629248



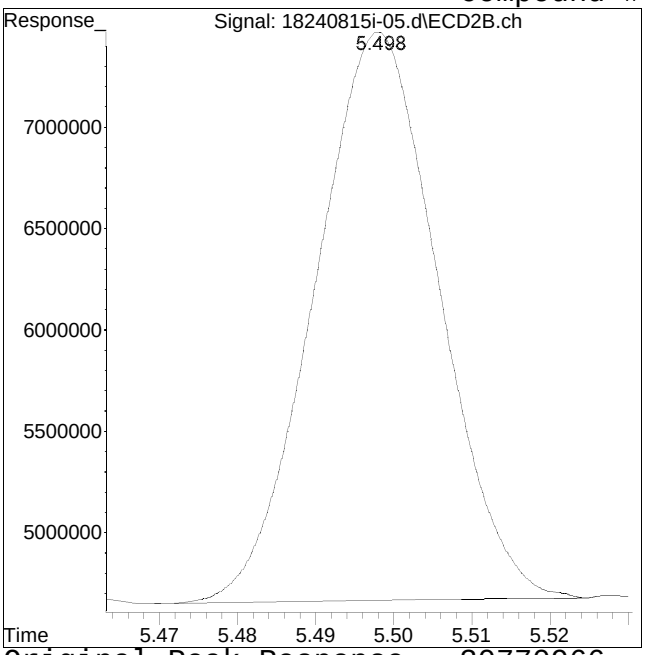
Manual Peak Response = 55922691 M4

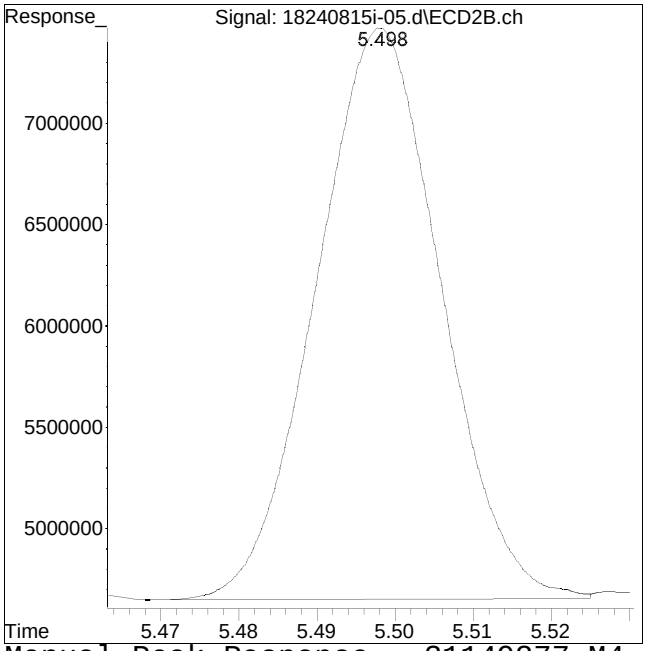
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #56: Endrin #2



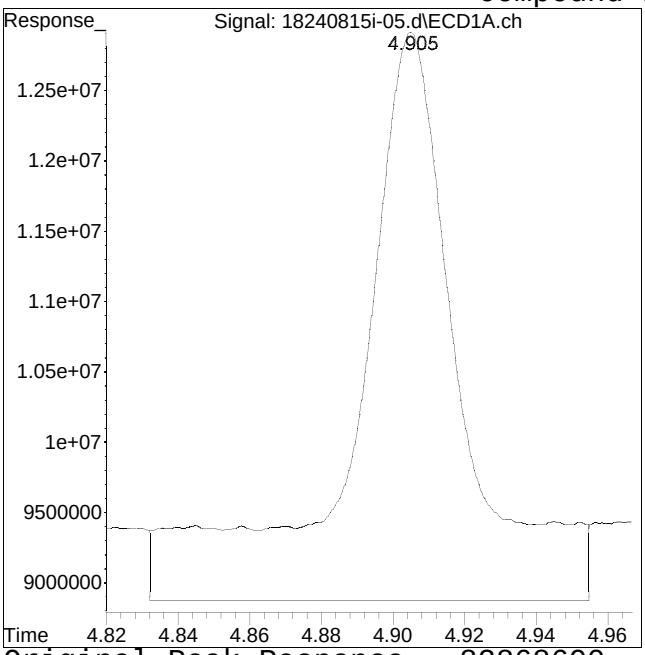


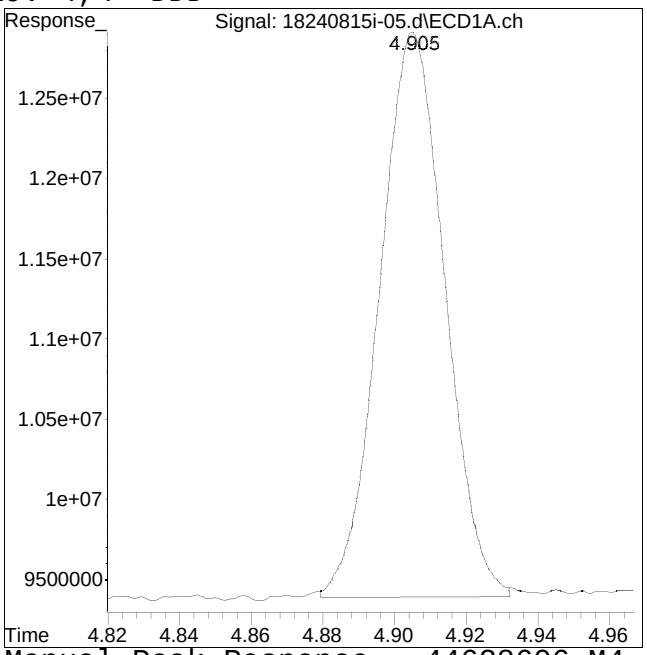
Original Peak Response = 30770966 Manual Peak Response = 31149377 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #19: 4,4'-DDD



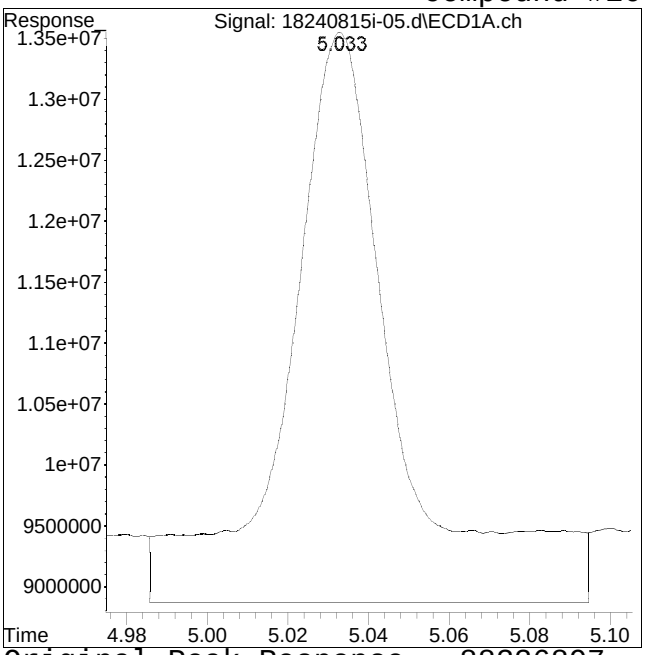


Original Peak Response = 82868690 Manual Peak Response = 44628606 M4
M4 = Poor automated baseline construction.

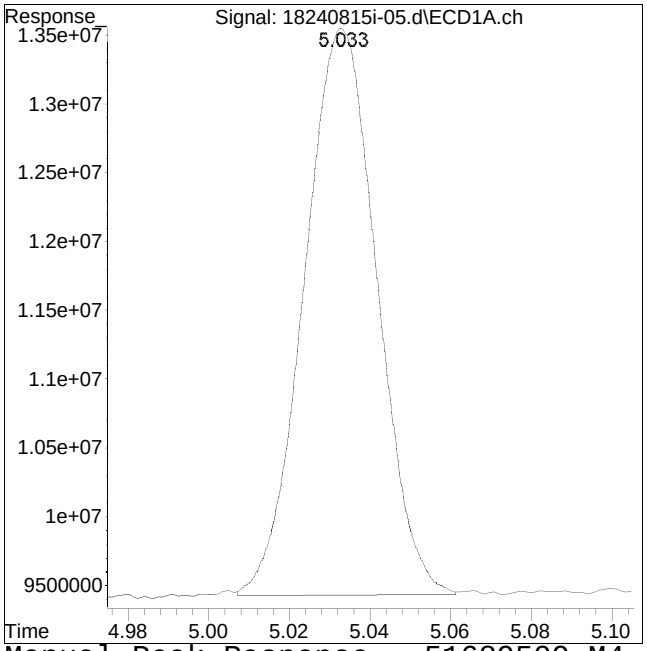
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #20: Endosulfan II



Original Peak Response = 88336897



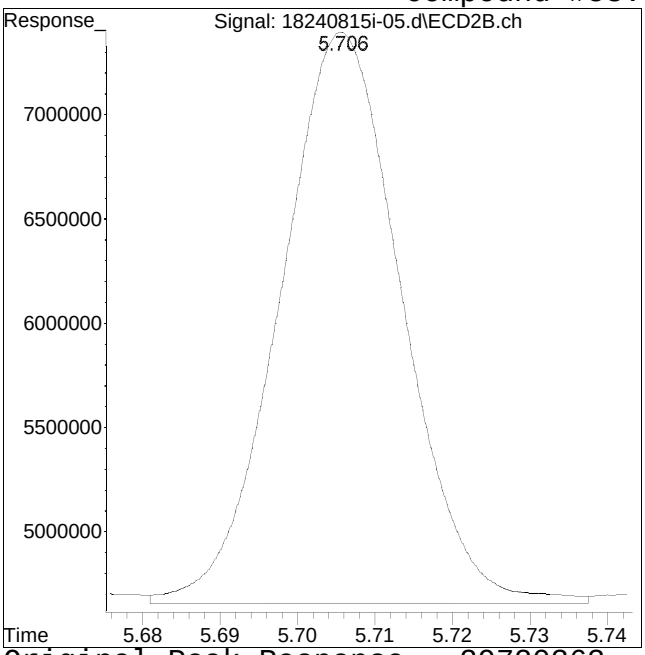
Manual Peak Response = 51689509 M4

M4 = Poor automated baseline construction.

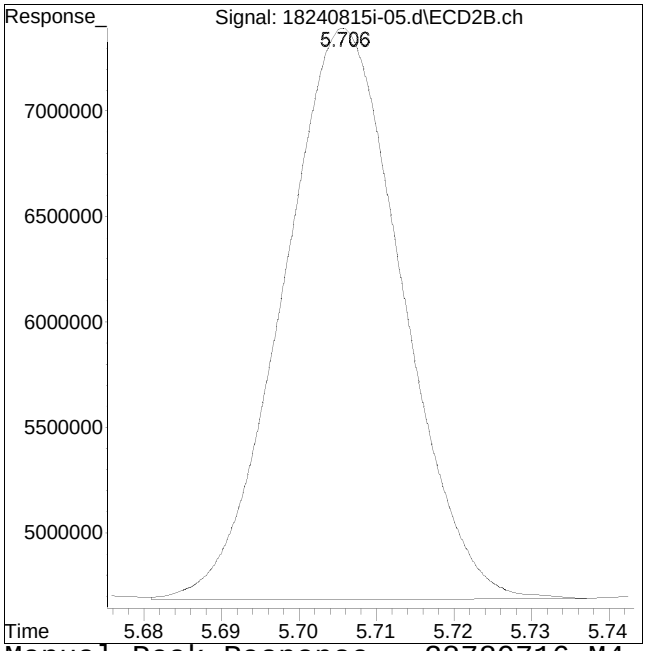
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #58: Endosulfan II #2



Original Peak Response = 29720363



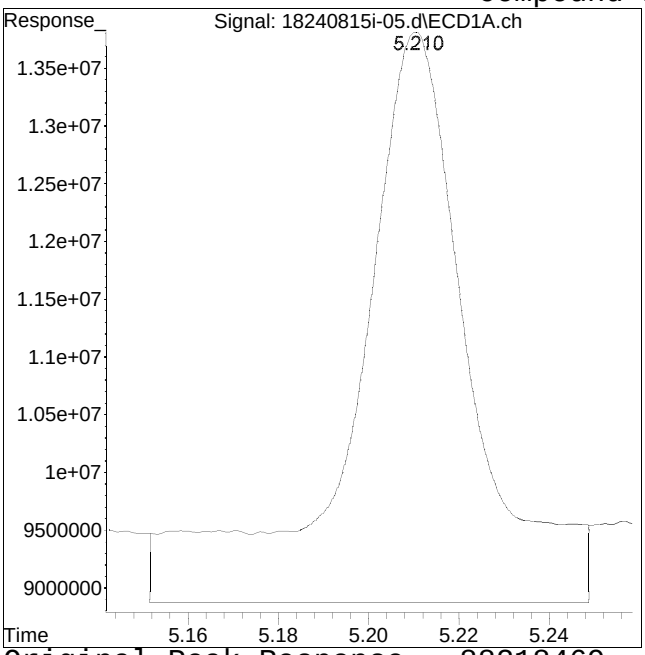
Manual Peak Response = 28780716 M4

M4 = Poor automated baseline construction.

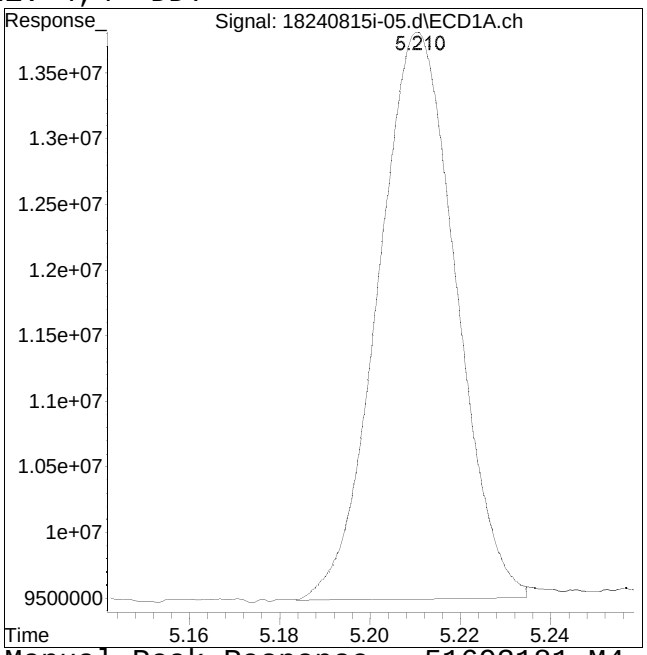
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #21: 4,4'-DDT



Original Peak Response = 88218469



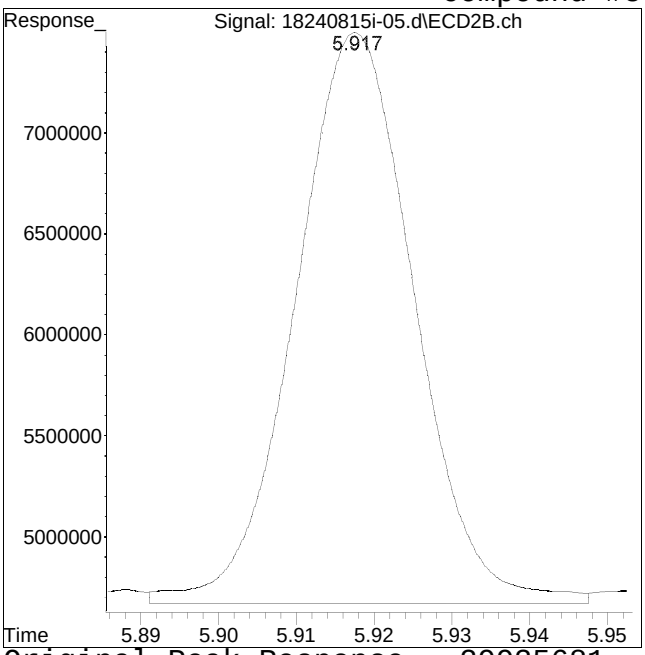
Manual Peak Response = 51693181 M4

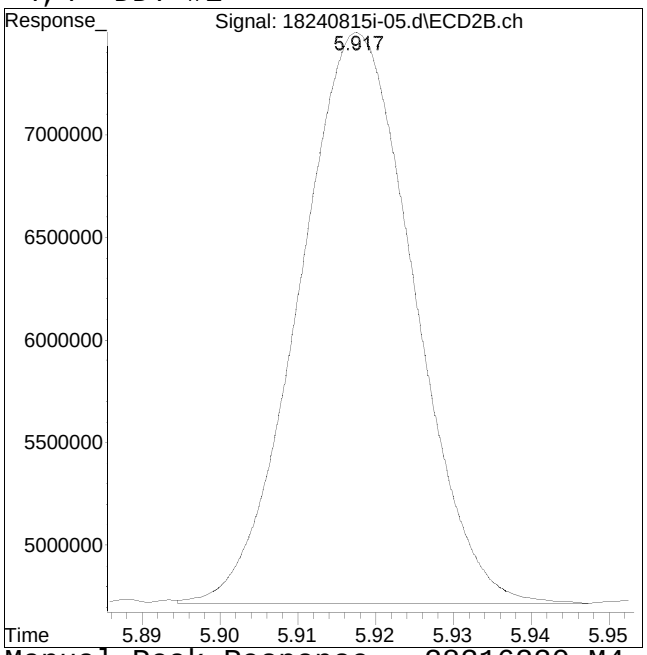
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #59: 4,4'-DDT #2





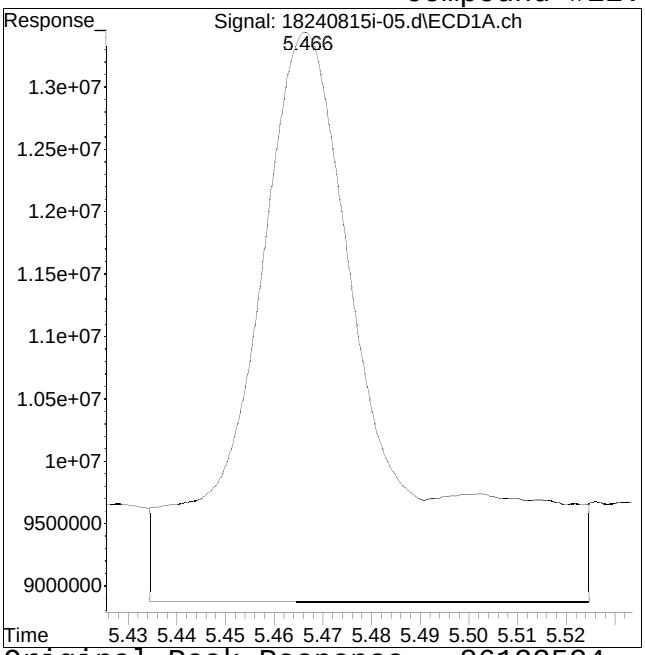
Original Peak Response = 29935681 Manual Peak Response = 28316230 M4
M4 = Poor automated baseline construction.

Manual Integration Report

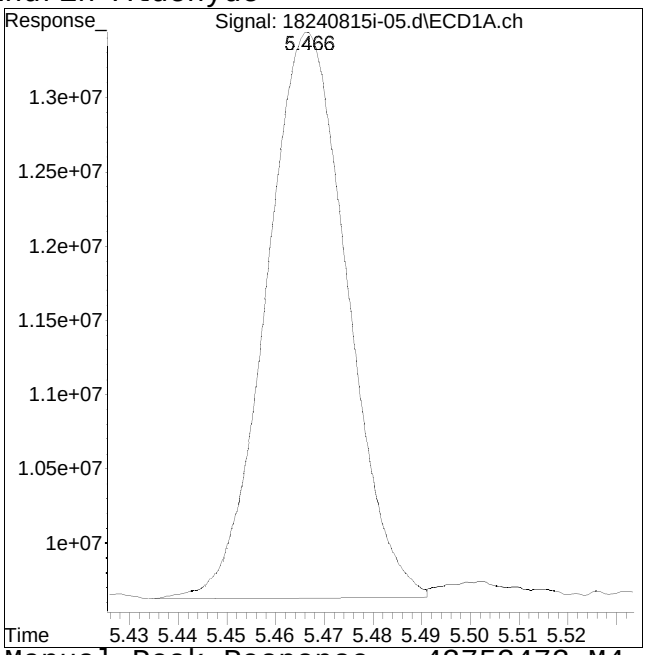
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-05.d
Date Inj'd : 8/15/2024 14:28
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 8:36 am

Compound #22: Endrin Aldehyde



Original Peak Response = 86122524



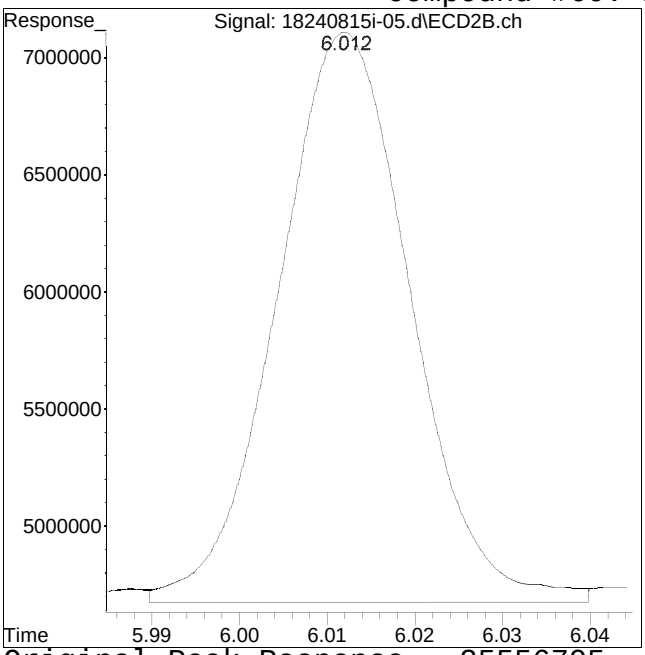
Manual Peak Response = 43753473 M4

M4 = Poor automated baseline construction.

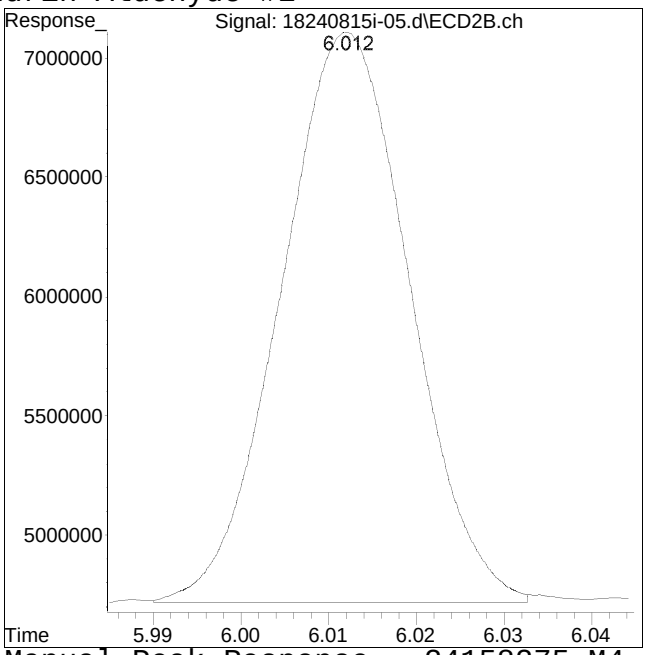
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 25556795



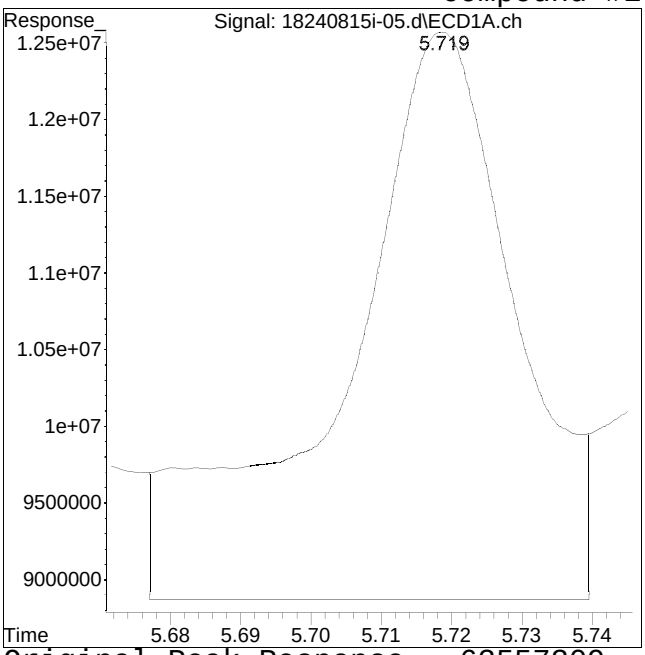
Manual Peak Response = 24158275 M4

M4 = Poor automated baseline construction.

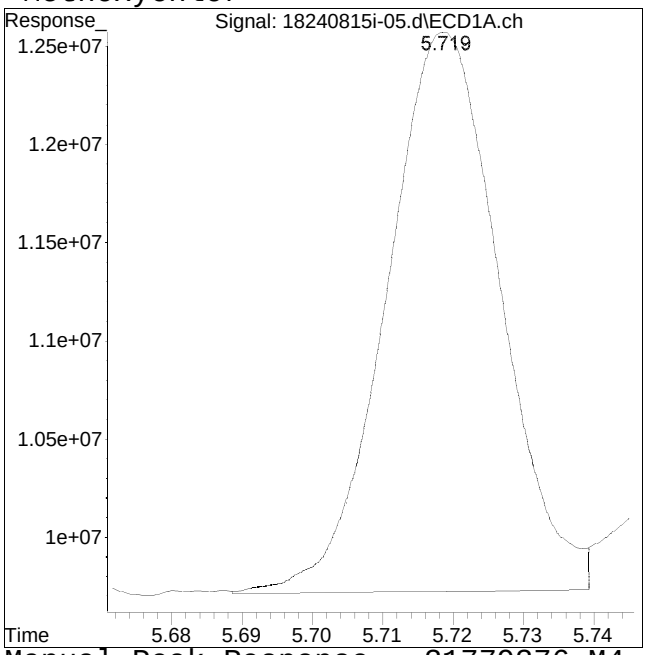
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #23: Methoxychlor



Original Peak Response = 63557309



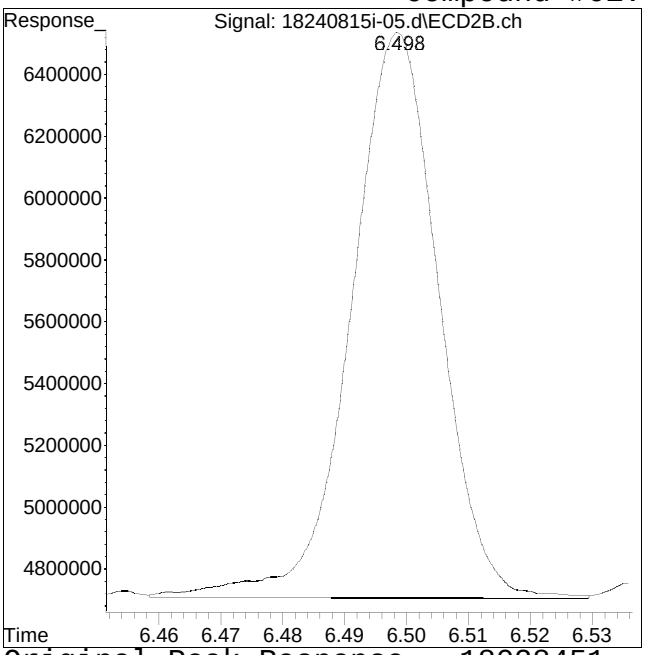
Manual Peak Response = 31779376 M4

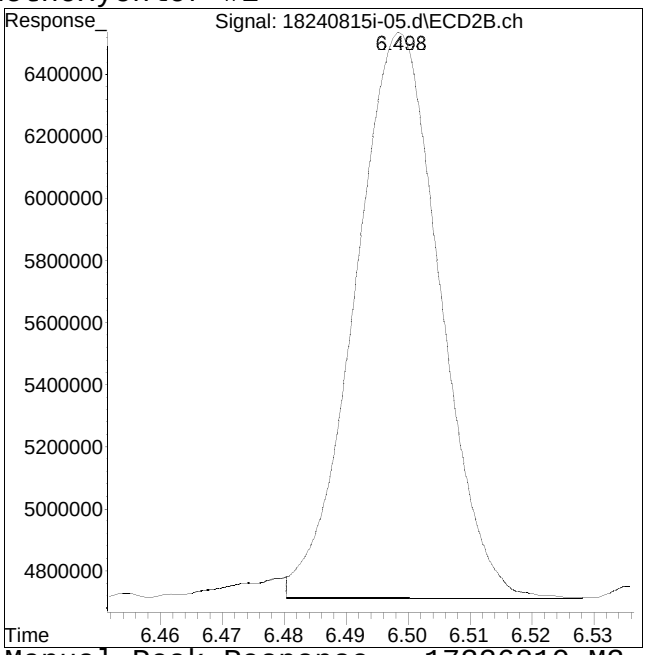
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #61: Methoxychlor #2



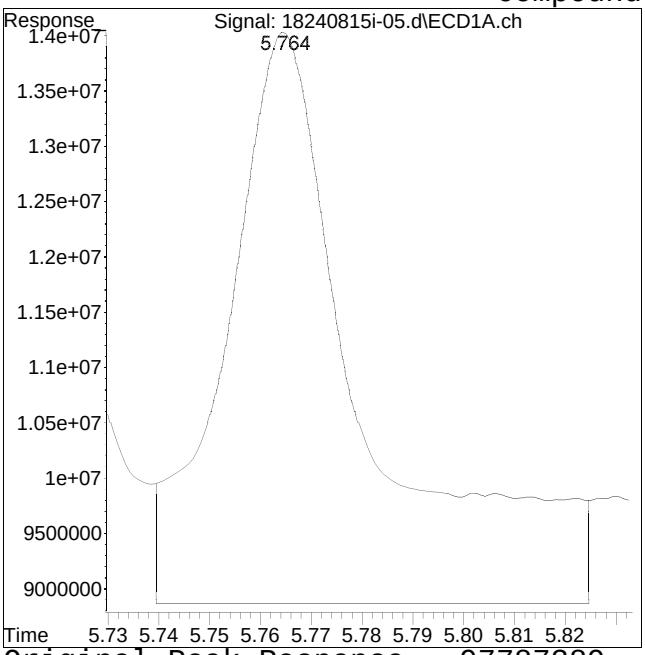


Original Peak Response = 18028451 Manual Peak Response = 17336810 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

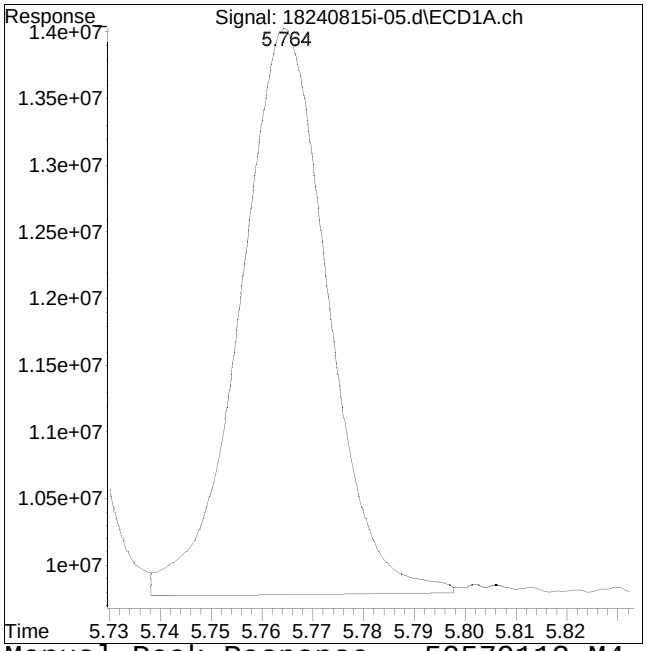
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #24: Mirex



Original Peak Response = 97787389



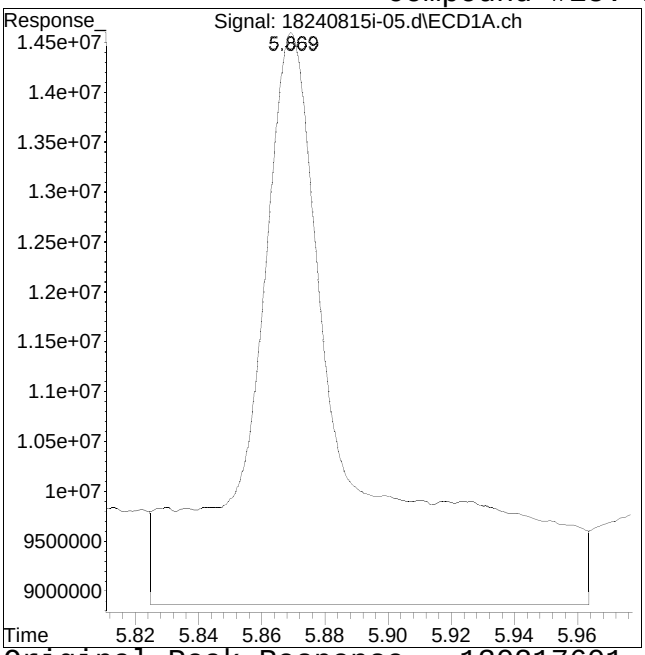
Manual Peak Response = 50579112 M4

M4 = Poor automated baseline construction.

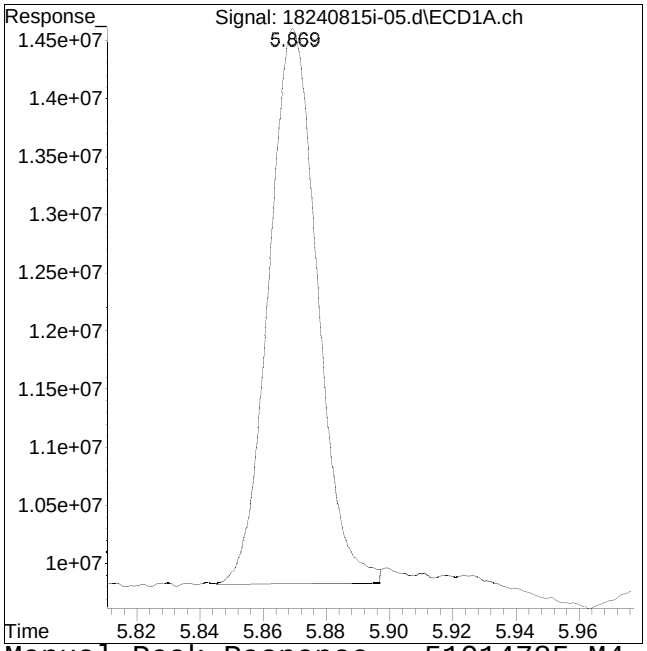
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 130217601



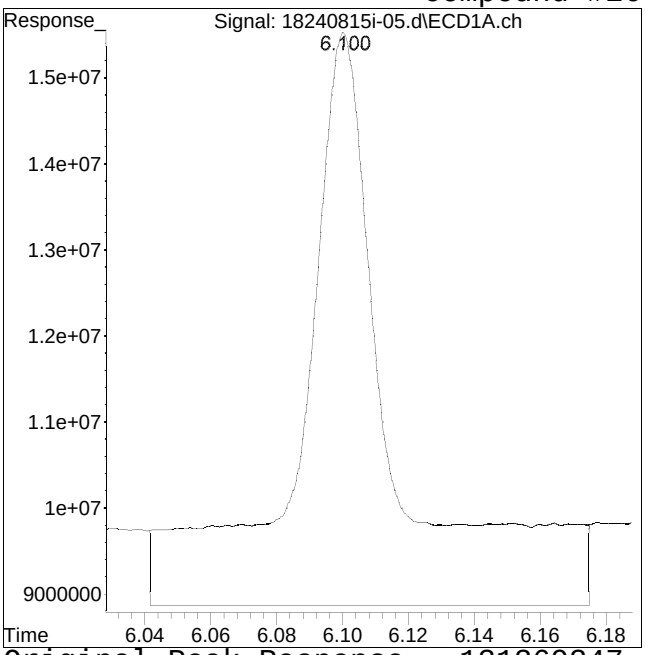
Manual Peak Response = 51014785 M4

M4 = Poor automated baseline construction.

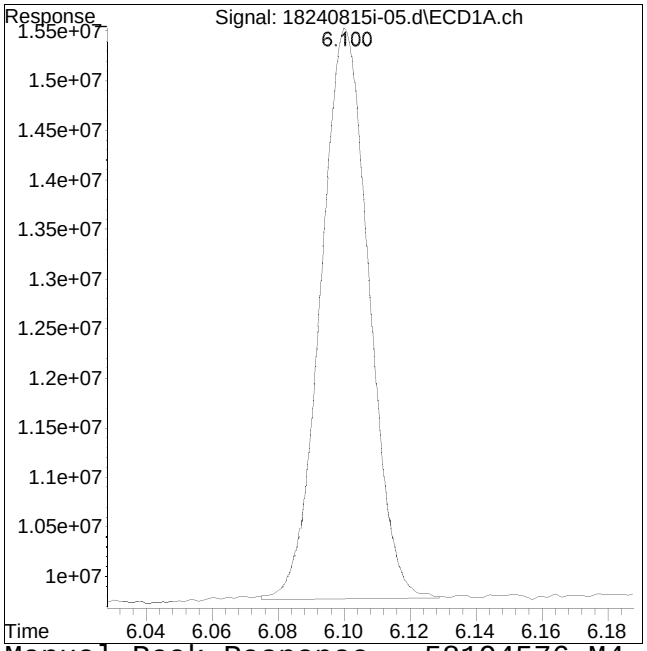
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #26: Endrin Ketone



Original Peak Response = 131369347



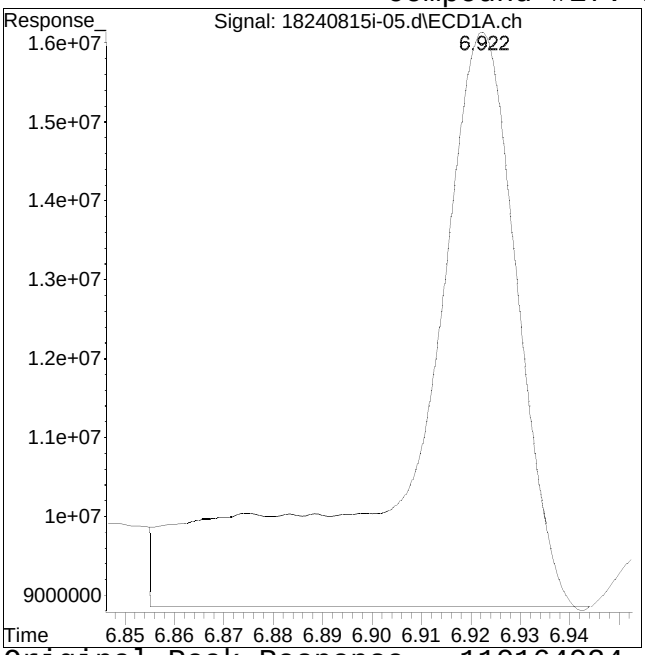
Manual Peak Response = 58194576 M4

M4 = Poor automated baseline construction.

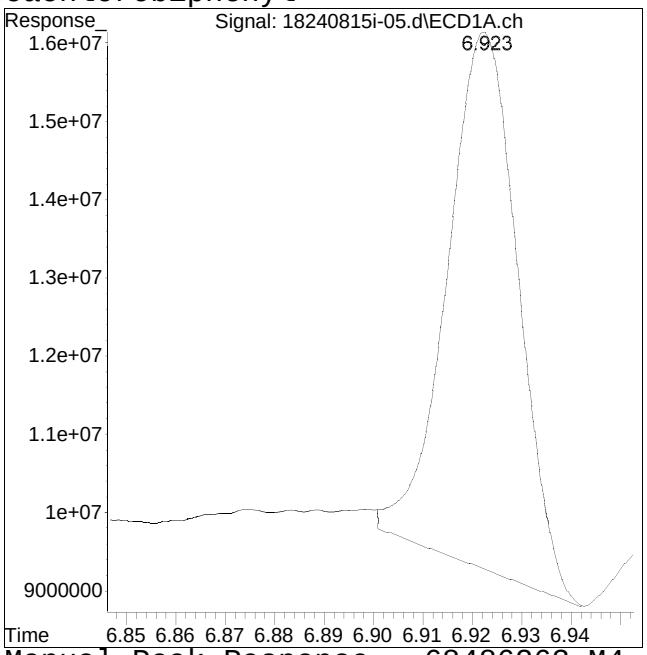
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 110164924



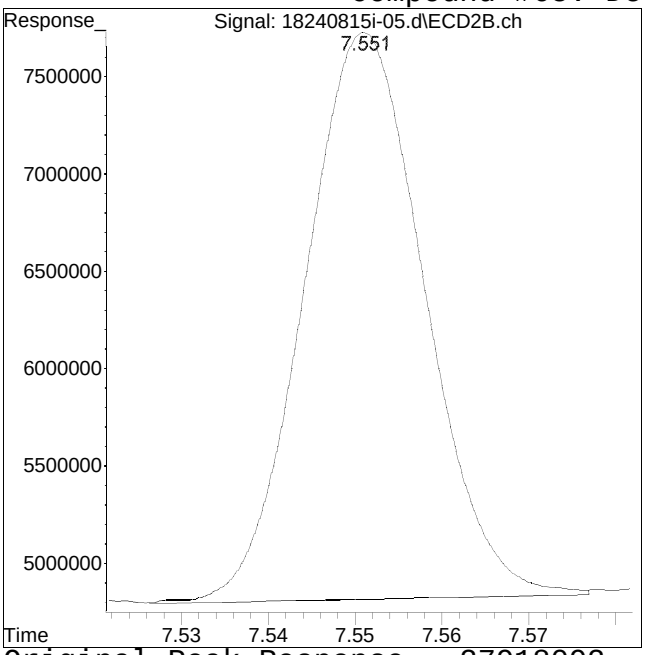
Manual Peak Response = 68486263 M4

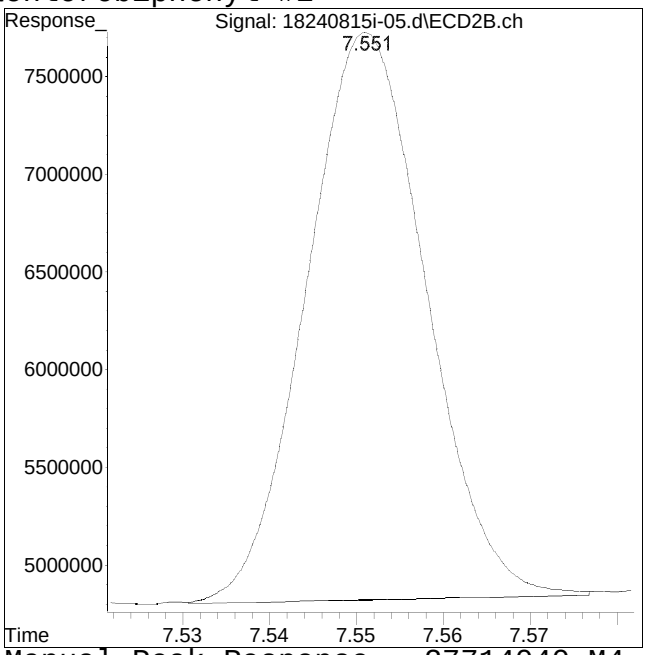
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-05.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:28 Instrument : Pest 18
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/16/2024 8:36 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 27918092 Manual Peak Response = 27714040 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:39
Operator : PEST18:peg
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:17:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:17:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.683	1.783	505.9E6	308.0E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.117	2.339	77206153	45433324	3.201M4	3.190M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.40%#	6.38%#
27) s	Decachlorobi	6.922	7.550	95217073	39579770	3.554M4	3.524M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.11%#	7.05%#
	Target Compounds						
3)	Hexachlorobe	2.357	2.683	95908187	50579961	3.437M4	3.377M4
4)	alpha-BHC	2.469	2.786	95318392	56324148	3.099M4	2.891M4
5)	gamma-BHC (l	2.688	3.082	87088144	53044653	3.086M4	2.940M4
6)	beta-BHC	2.752	3.155	38526041	27255065	3.126M3	3.368M4
7)	delta-BHC	2.884	3.425	86988338	52190217	3.102M3	2.935M4
8)	Heptachlor	3.053	3.483	86517994	51025847	3.360M3	3.201
9)	Aldrin	3.303	3.803	82261529	48701221	3.226M3	3.035M4
10)	Alachlor	3.441	3.699	13457275	8017936	3.740M4	3.541M3
11)	Chlorpyrifos	3.536	4.055	42706087	27757132	3.703M3	3.693M4

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:39
Operator : PEST18:peg
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:17:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:17:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.861	4.423	78452252	48685649	3.430M4	3.252M4
13)		gamma-Chlord	3.988	4.646	75046529	43453760	3.358M4	3.142
14)		alpha-Chlord	4.125	4.820	84439717	48739754	3.361M4	3.168M4
15)		4,4'-DDE	4.230	5.034	80950410	46005854	3.183M4	3.000M4
16)		Endosulfan I	4.259	4.882	77106924	45086579	3.442M4	3.189
17)		Dieldrin	4.522	5.190	79103154	44965990	3.314M4	3.071
18)		Endrin	4.779	5.497	79838531	45531325	3.339M4	3.131M4
19)		4,4'-DDD	4.905	5.633	63899308	36551042	3.270M4	3.078M4
20)		Endosulfan I	5.032	5.706	74116976	41567537	3.439M4	3.215M4
21)		4,4'-DDT	5.210	5.917	72491010	40360529	3.304M4	3.099M4
22)		Endrin Aldeh	5.466	6.011	62188932	35366150	3.415M4	3.257M4
23)		Methoxychlor	5.718	6.498	45531132	25377856	3.774M4	3.598
24)		Mirex	5.764	6.625	70558668	37609830	3.743M4	3.548
25)		Endosulfan S	5.869	6.245	71256066	40050458	3.326M3	3.225M3
26)		Endrin Keton	6.099	6.664	82644783	43687749	3.483M4	3.250
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:39
Operator : PEST18:peg
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:17:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:17:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

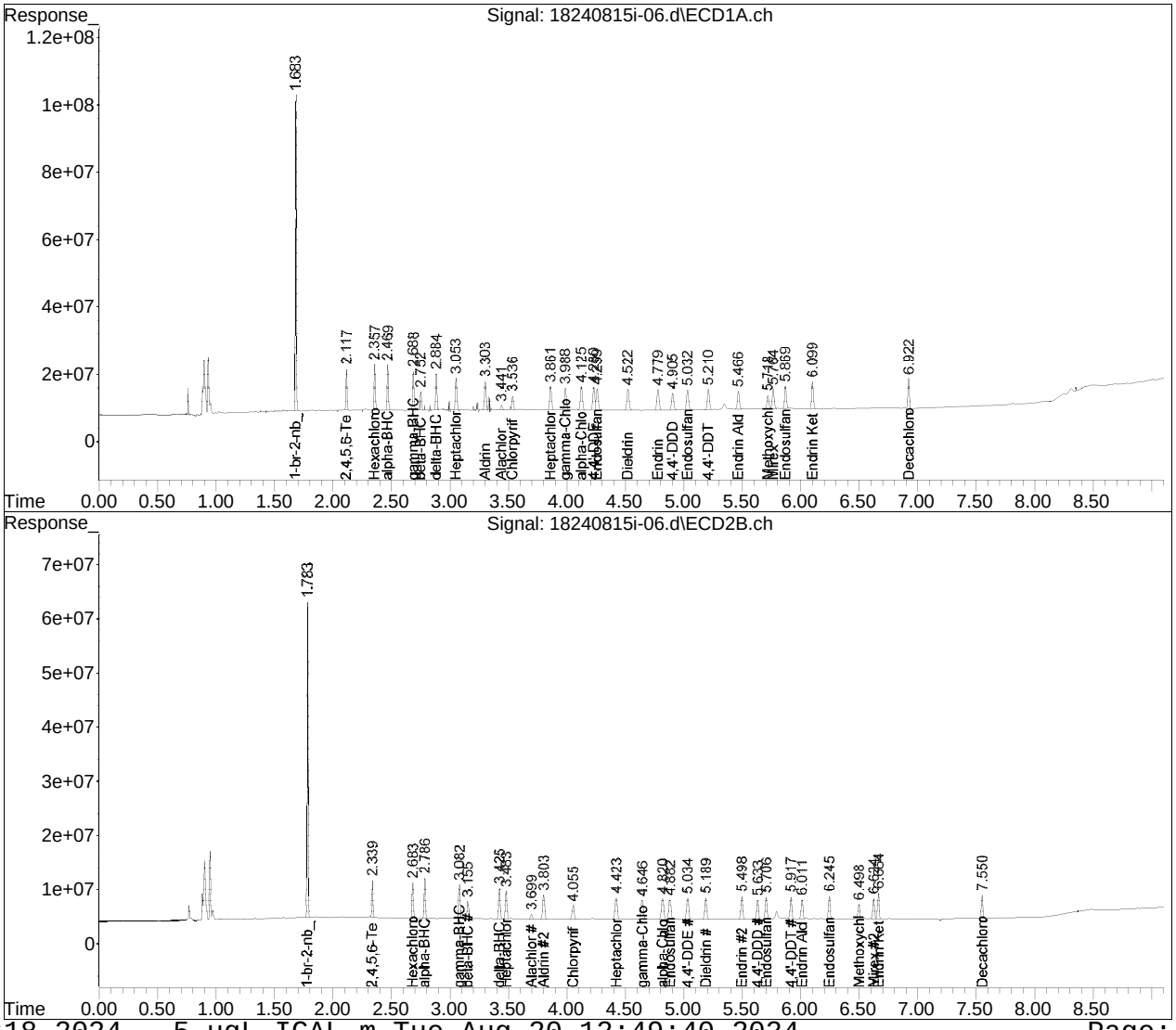
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:39
Operator : PEST18:peg
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 08:17:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 08:17:06 2024
Response via : Initial Calibration
Integrator: ChemStation

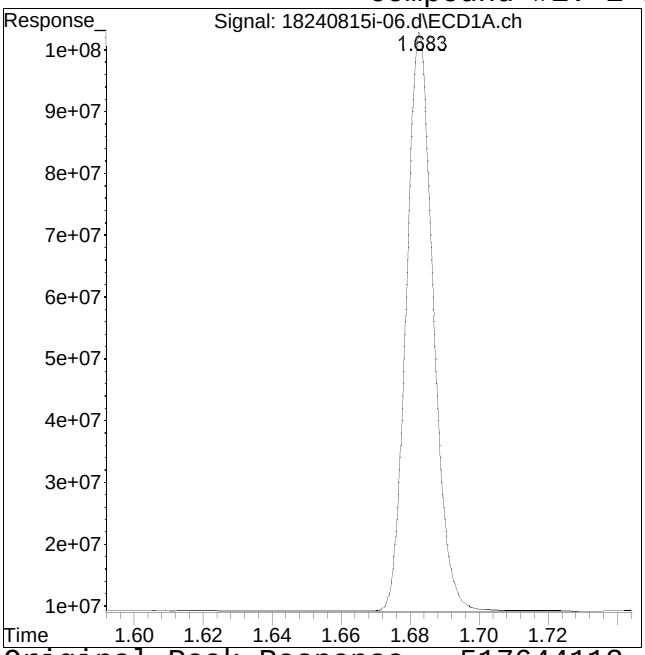
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

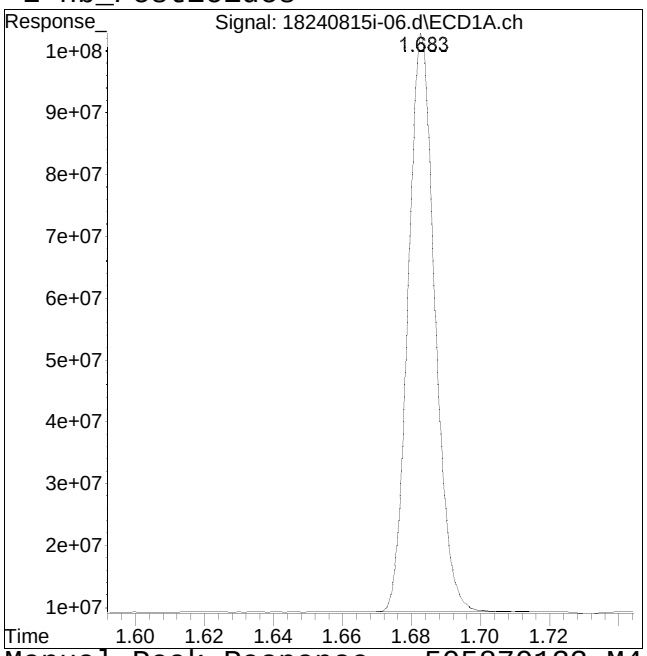


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #1: 1-br-2-nb_Pesticides



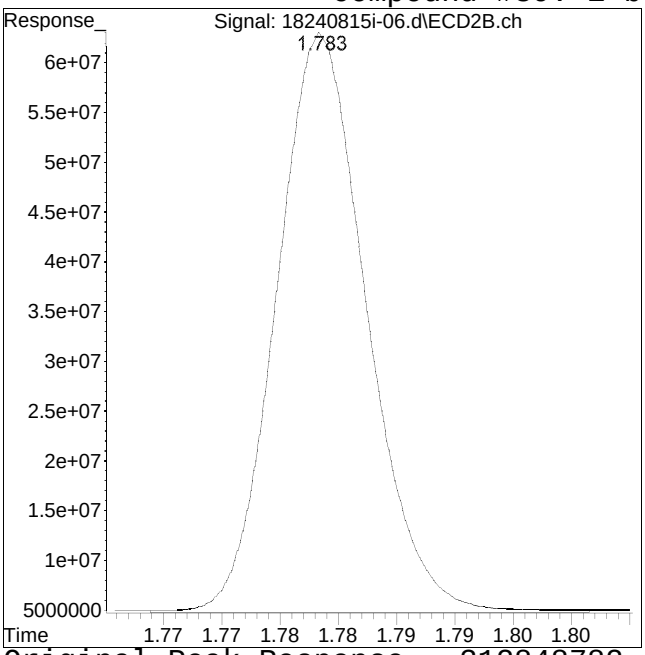


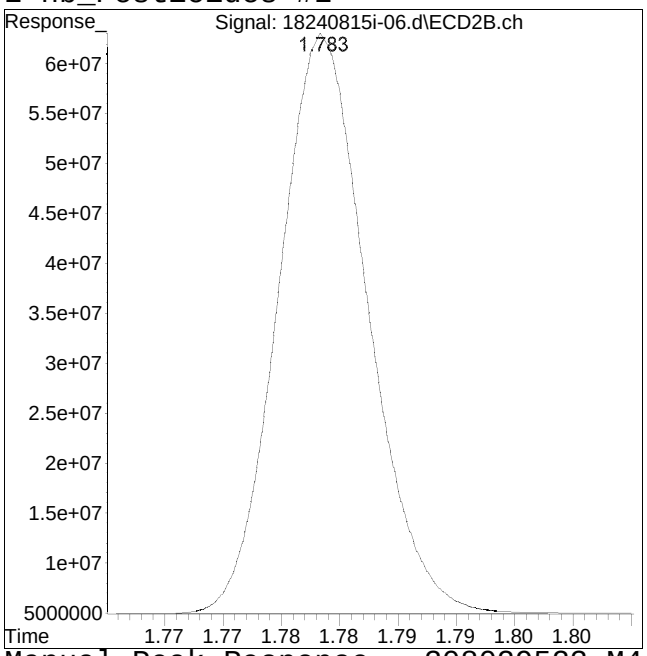
Original Peak Response = 517644112 Manual Peak Response = 505870133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #39: 1-br-2-nb_Pesticides #2



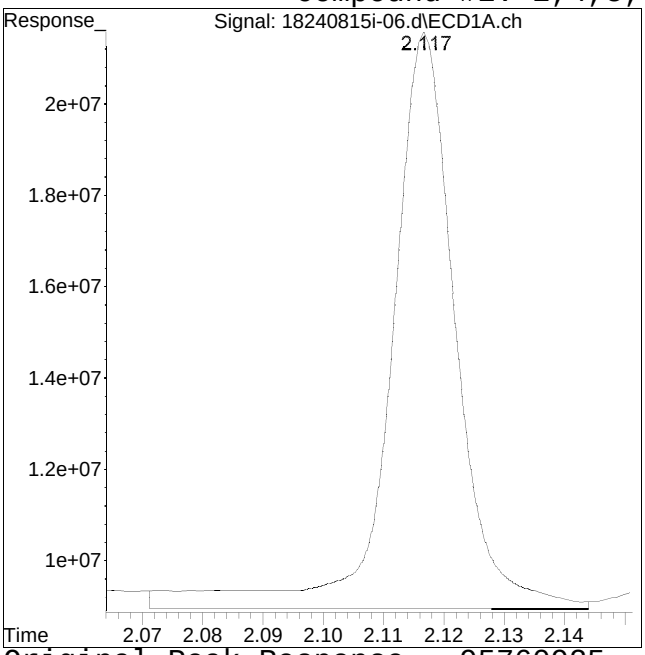


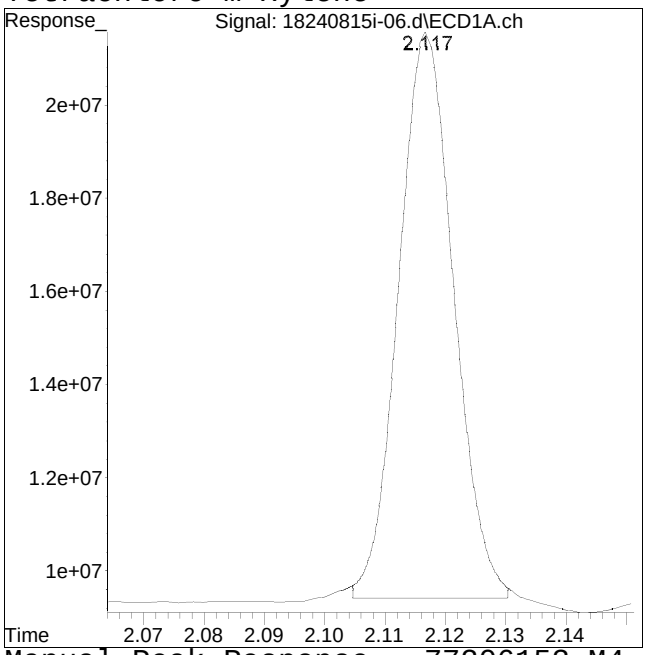
Original Peak Response = 312848782 Manual Peak Response = 308029523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



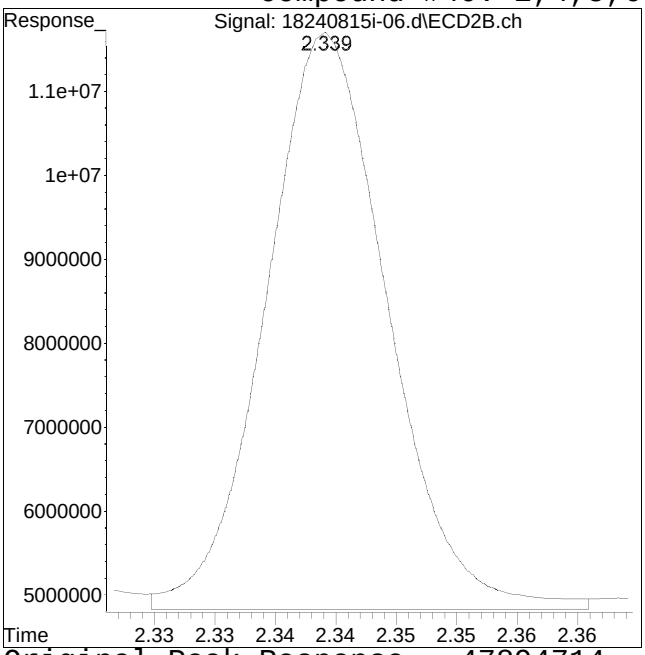


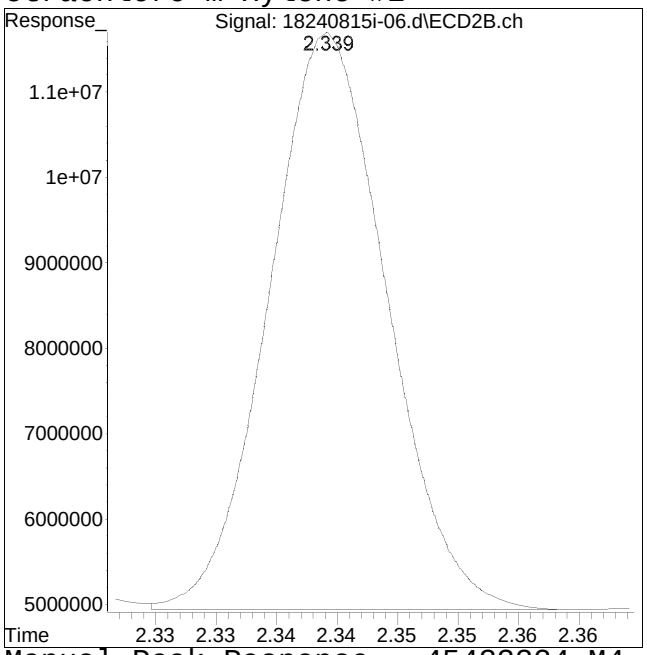
Original Peak Response = 95760925 Manual Peak Response = 77206153 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



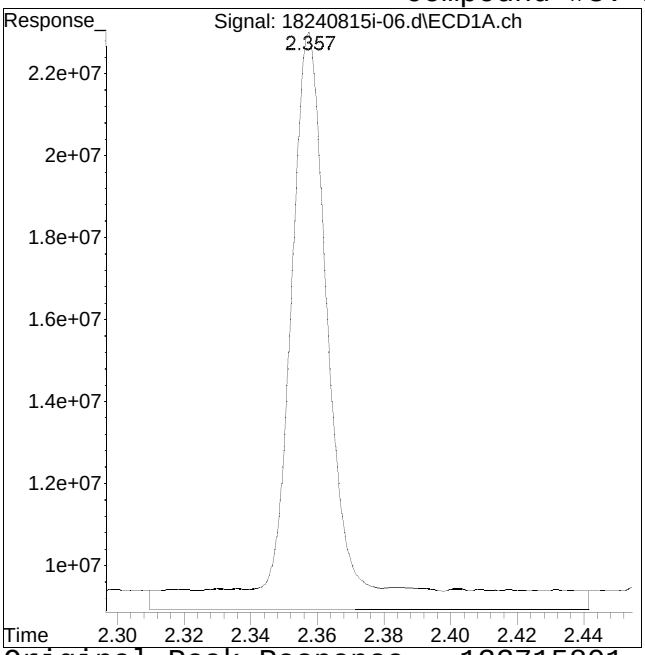


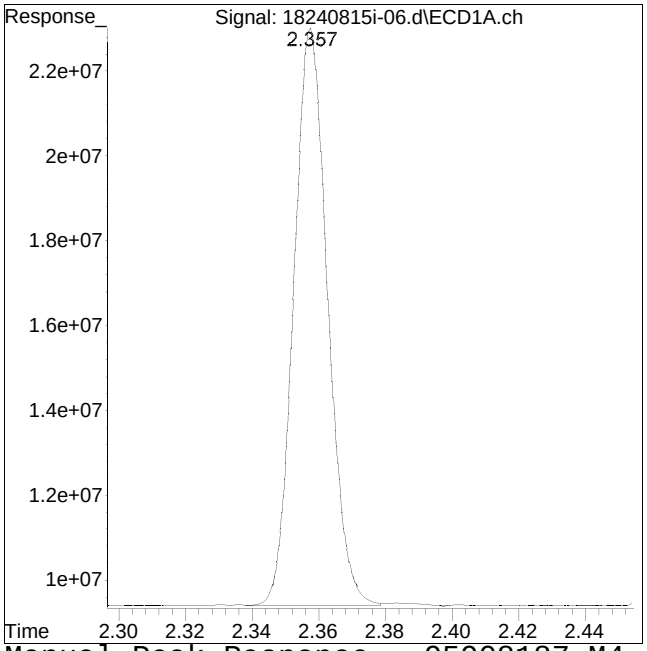
Original Peak Response = 47894714 Manual Peak Response = 45433324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #3: Hexachlorobenzene



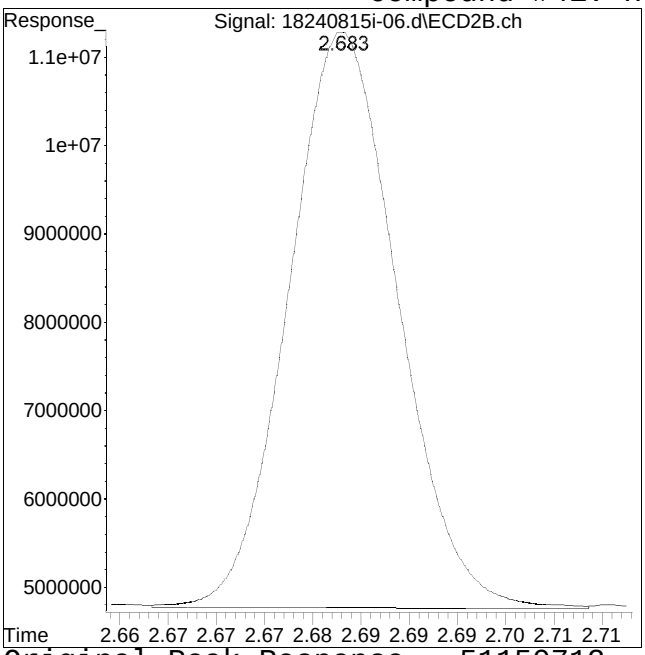


Original Peak Response = 133715801 Manual Peak Response = 95908187 M4
M4 = Poor automated baseline construction.

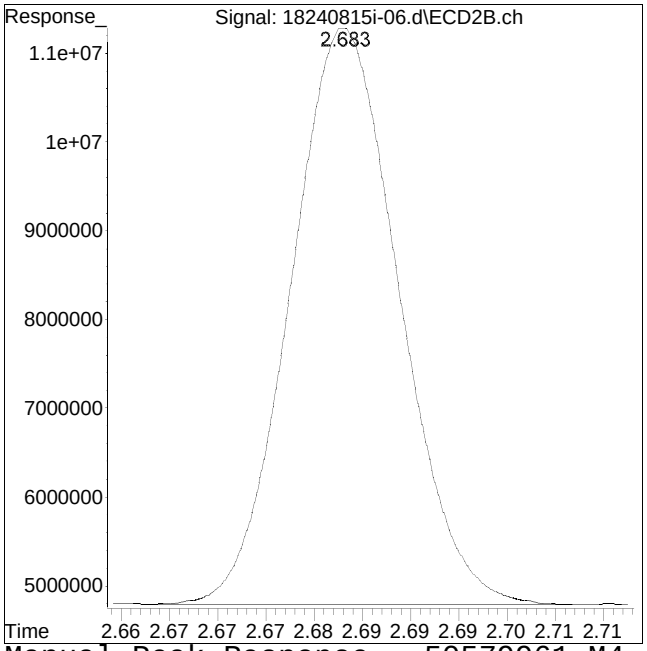
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 51150712



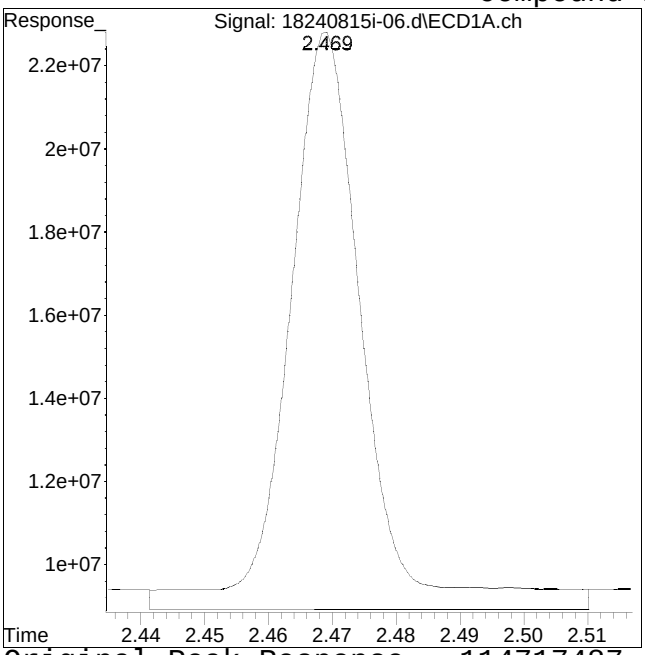
Manual Peak Response = 50579961 M4

M4 = Poor automated baseline construction.

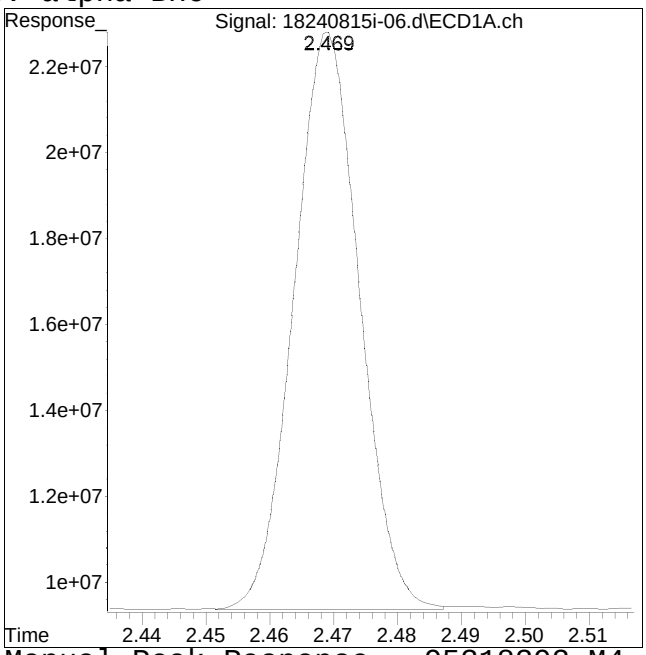
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #4: alpha-BHC



Original Peak Response = 114717487

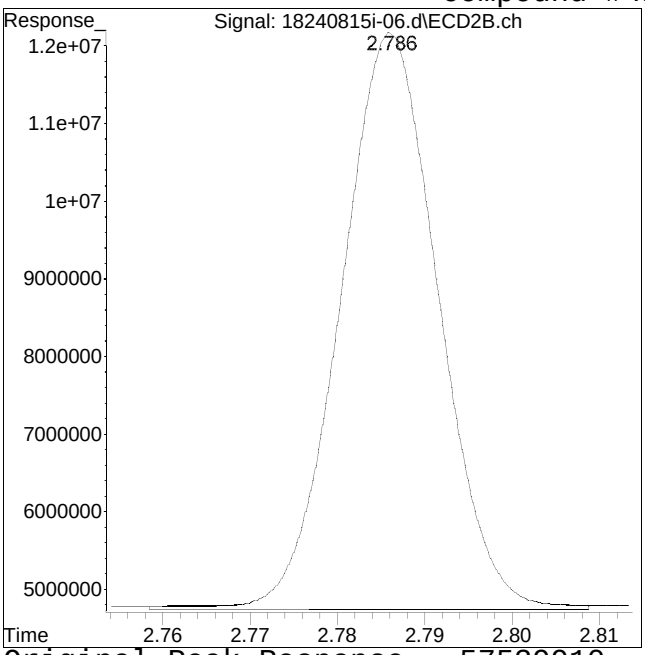


Manual Peak Response = 95318392 M4
M4 = Poor automated baseline construction.

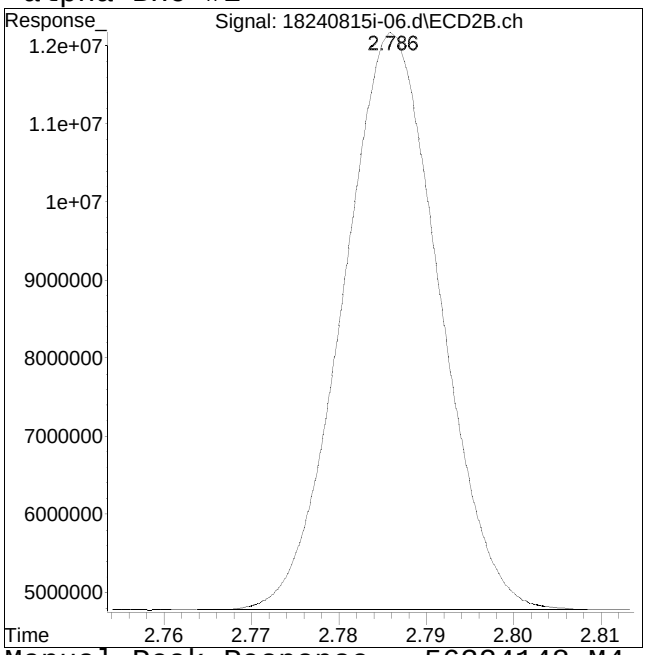
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #42: alpha-BHC #2



Original Peak Response = 57539910



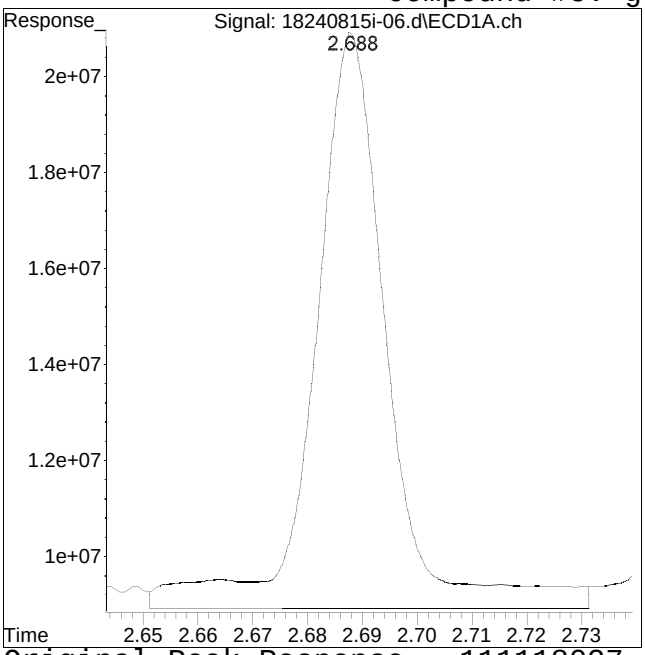
Manual Peak Response = 56324148 M4

M4 = Poor automated baseline construction.

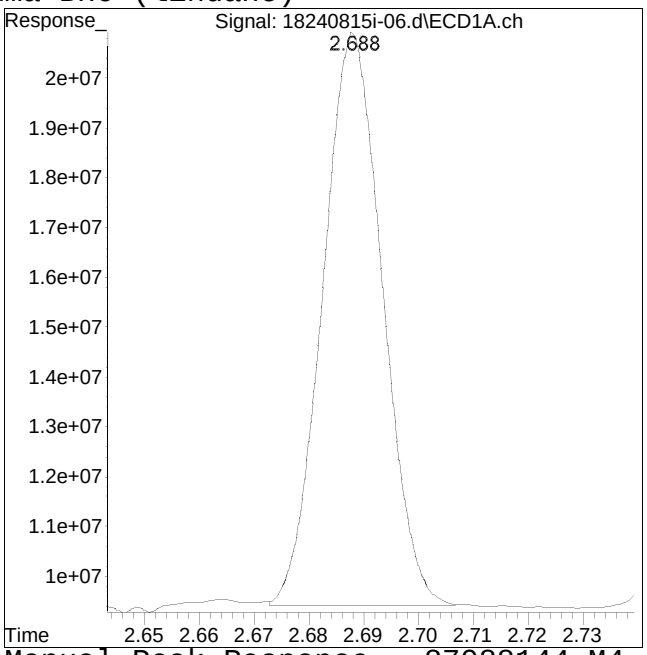
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 111118027



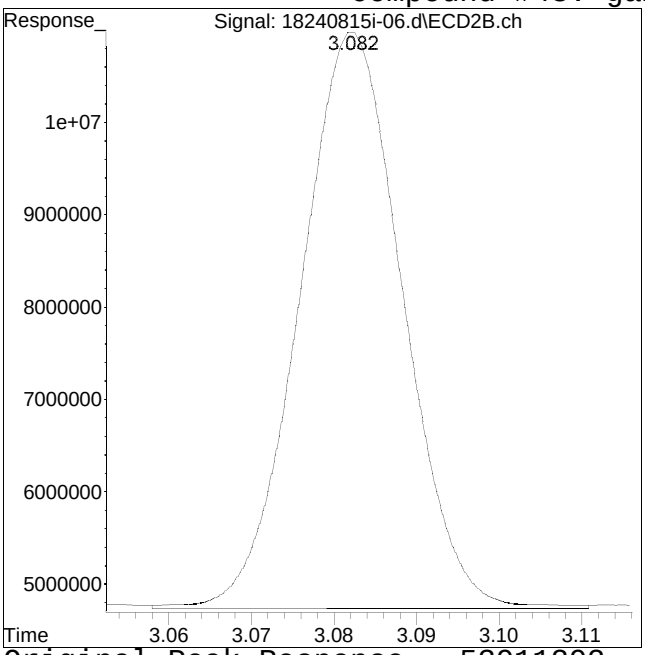
Manual Peak Response = 87088144 M4

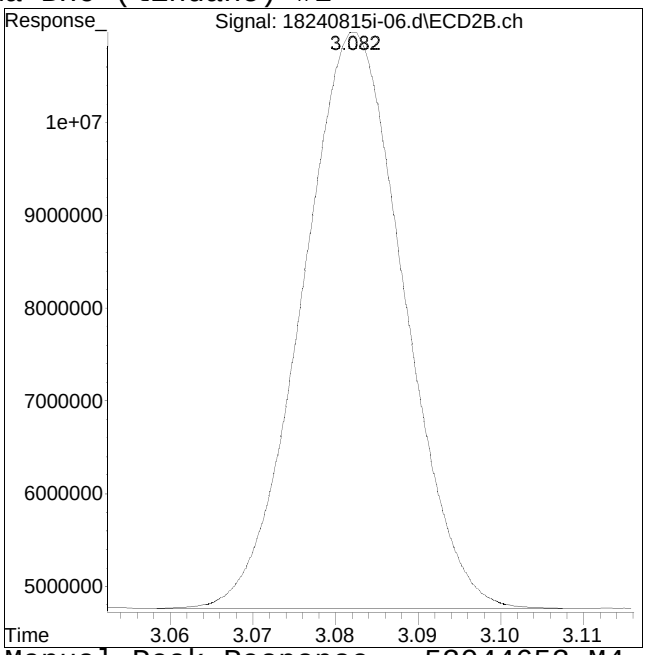
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #43: gamma-BHC (lindane) #2



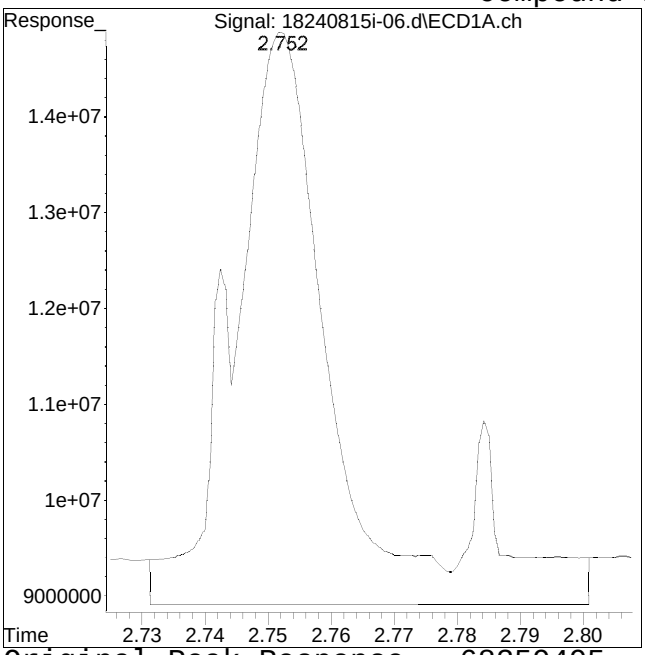


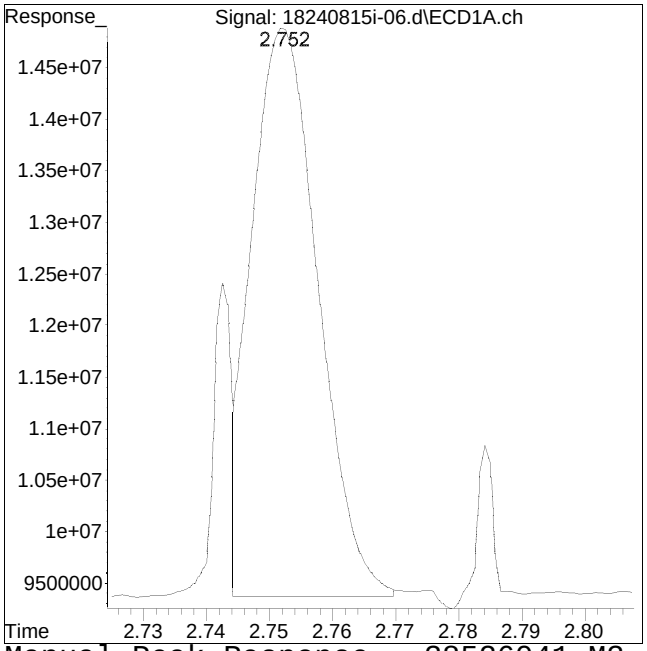
Original Peak Response = 53911292 Manual Peak Response = 53044653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #6: beta-BHC



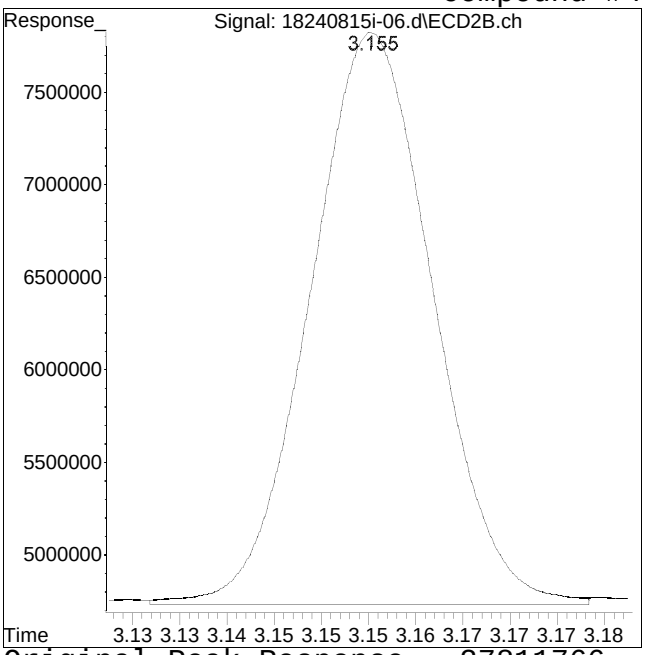


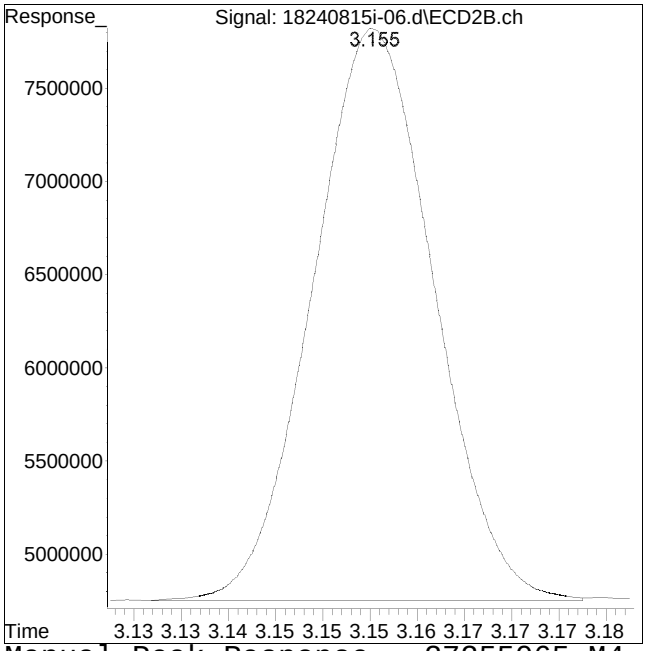
Original Peak Response = 68359495 Manual Peak Response = 38526041 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #44: beta-BHC #2



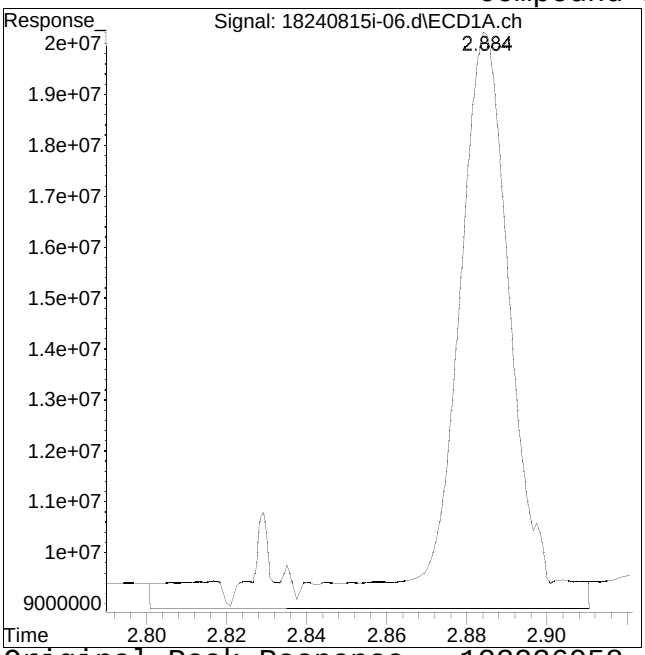


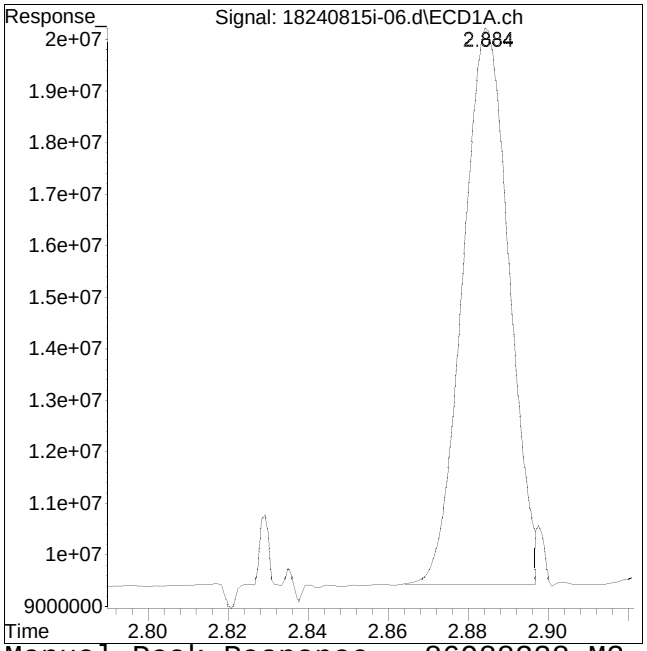
Original Peak Response = 27811766 Manual Peak Response = 27255065 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #7: delta-BHC



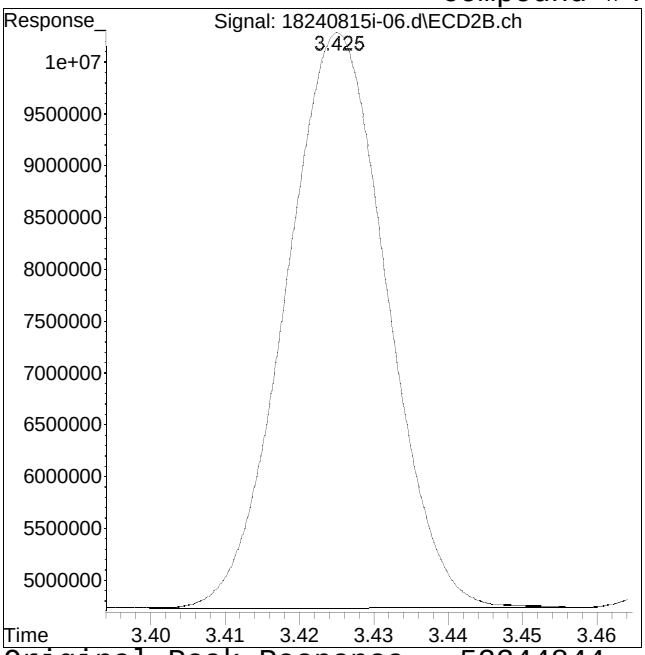


Original Peak Response = 123236958 Manual Peak Response = 86988338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

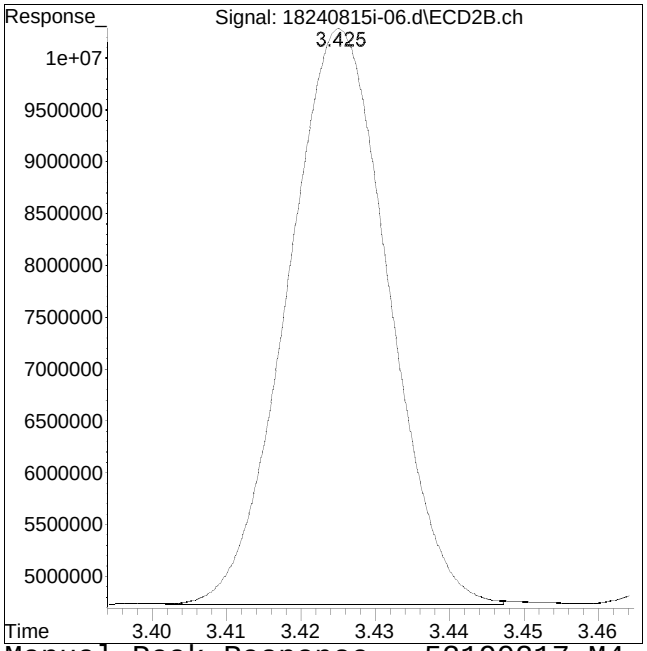
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #45: delta-BHC #2



Original Peak Response = 52344844



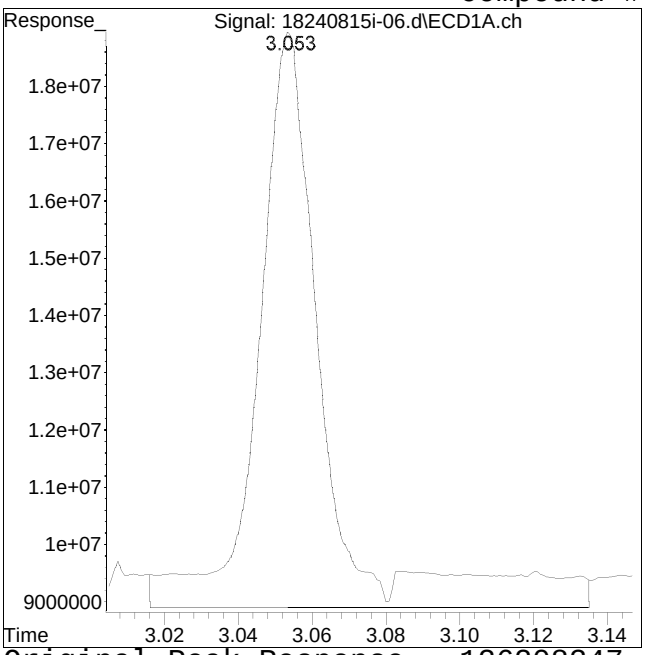
Manual Peak Response = 52190217 M4

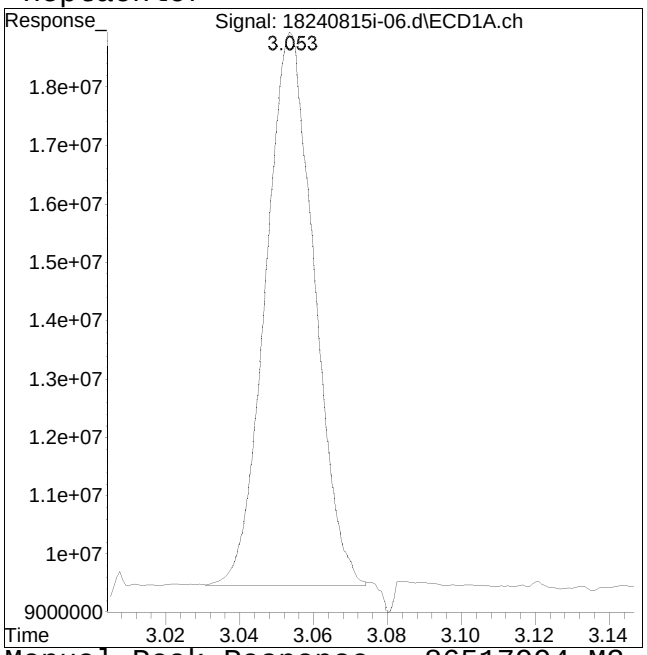
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #8: Heptachlor



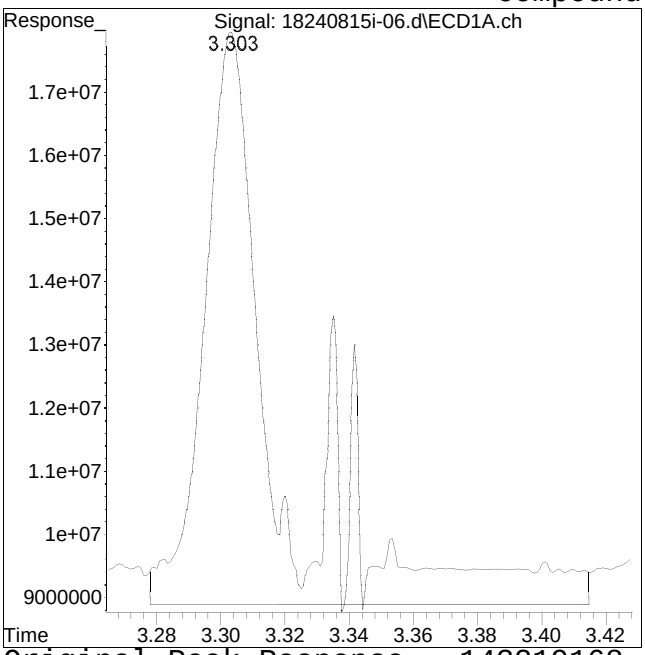


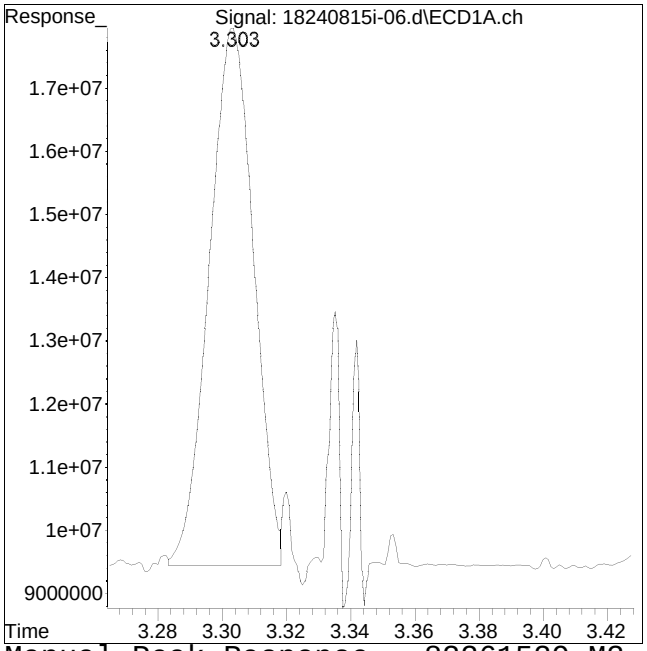
Original Peak Response = 126208347 Manual Peak Response = 86517994 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #9: Aldrin



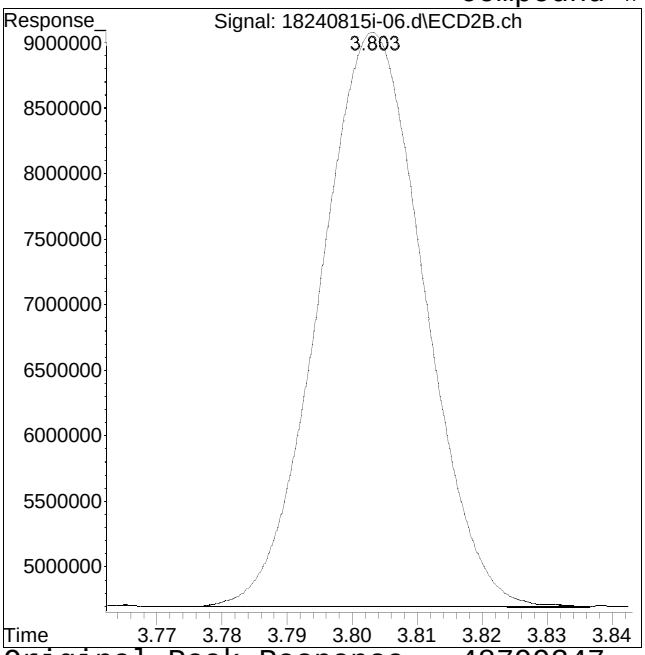


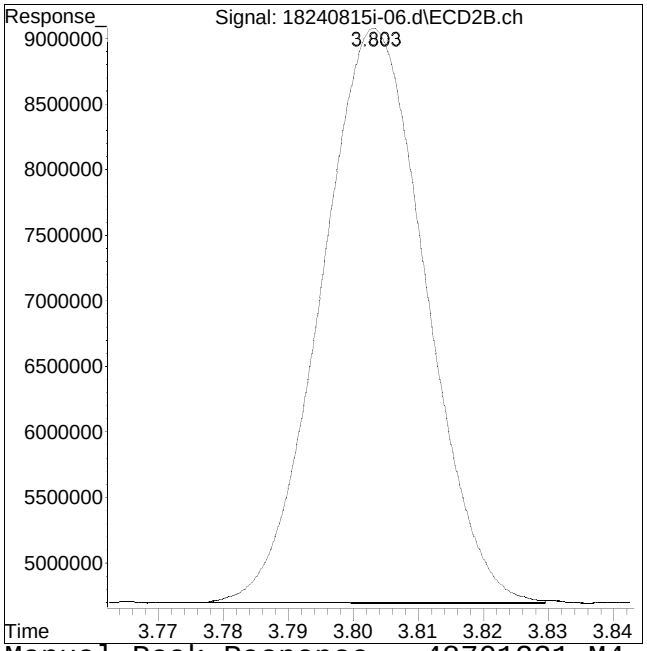
Original Peak Response = 143219168 Manual Peak Response = 82261529 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #47: Aldrin #2



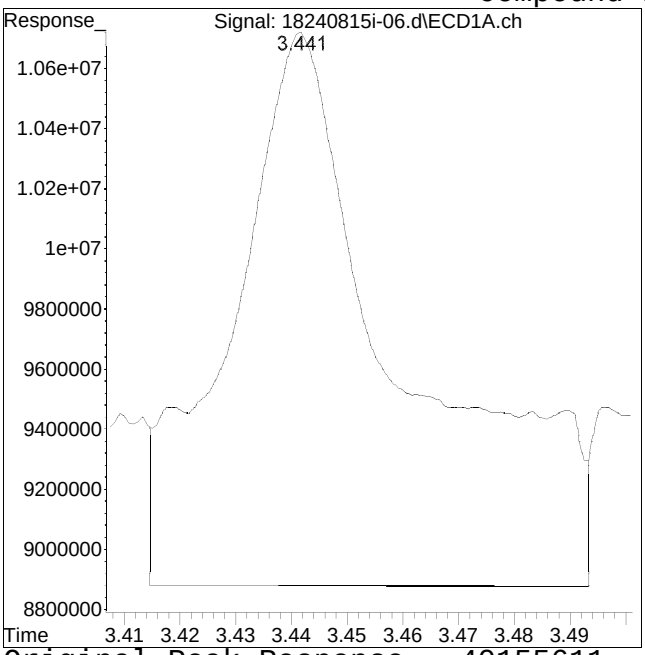


Original Peak Response = 48799347 Manual Peak Response = 48701221 M4
M4 = Poor automated baseline construction.

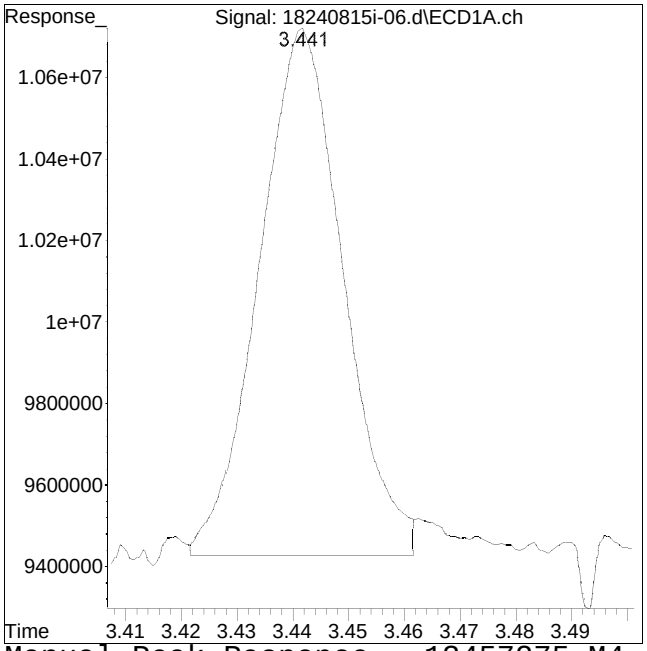
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #10: Alachlor



Original Peak Response = 40155611



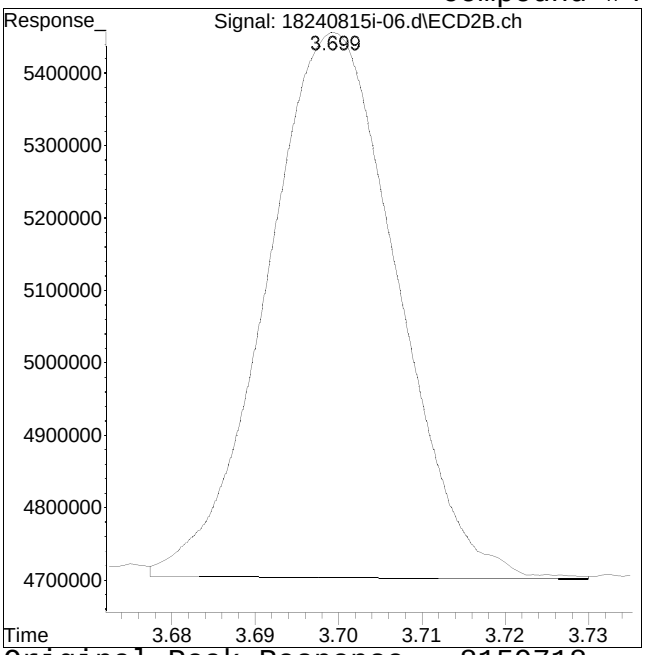
Manual Peak Response = 13457275 M4

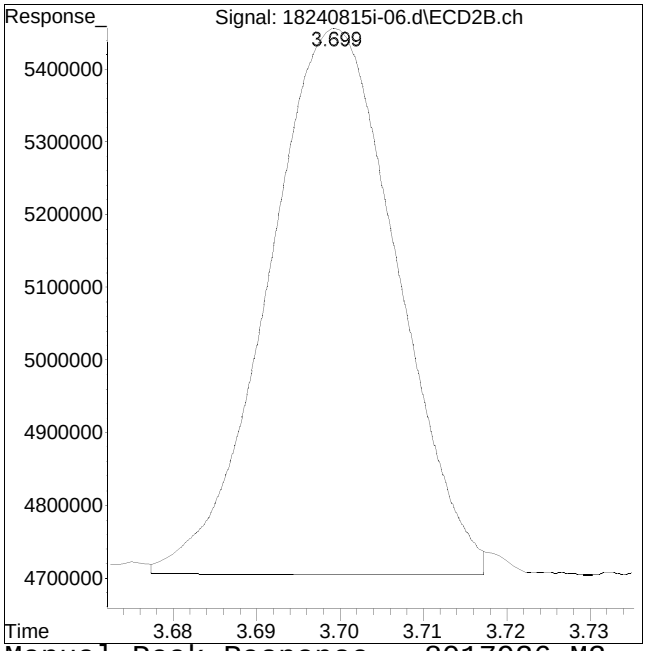
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #48: Alachlor #2



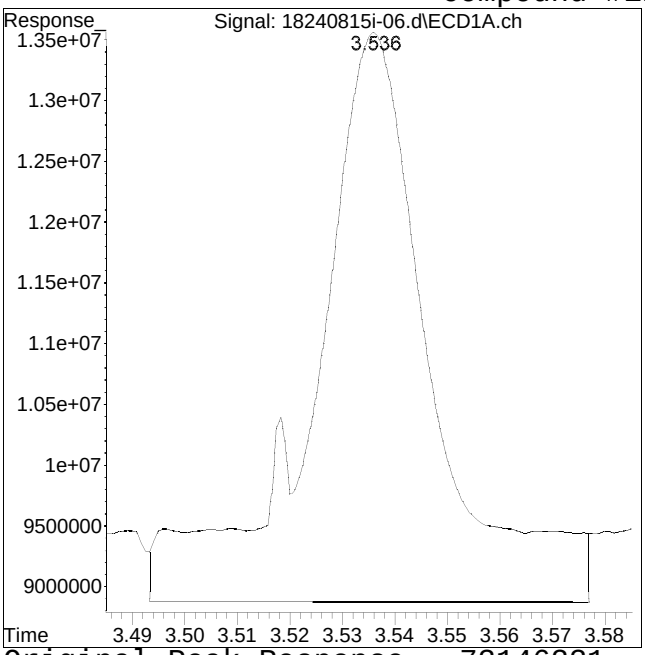


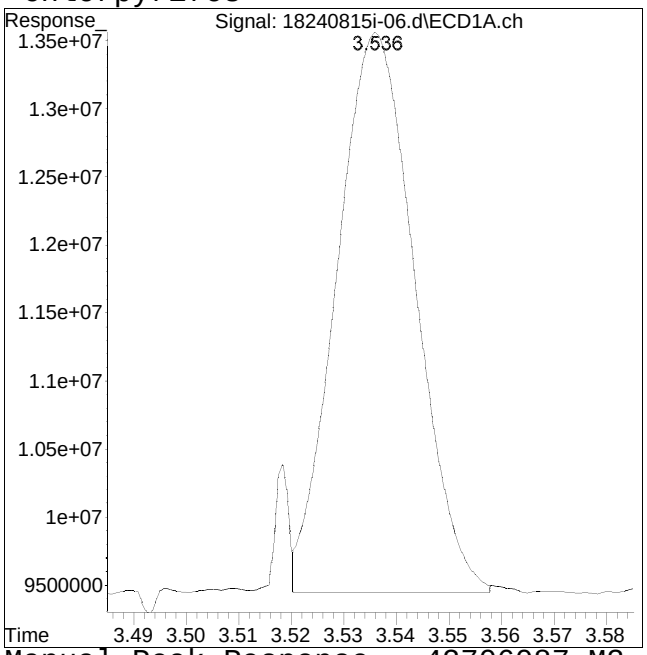
Original Peak Response = 8159718 Manual Peak Response = 8017936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #11: Chlorpyrifos



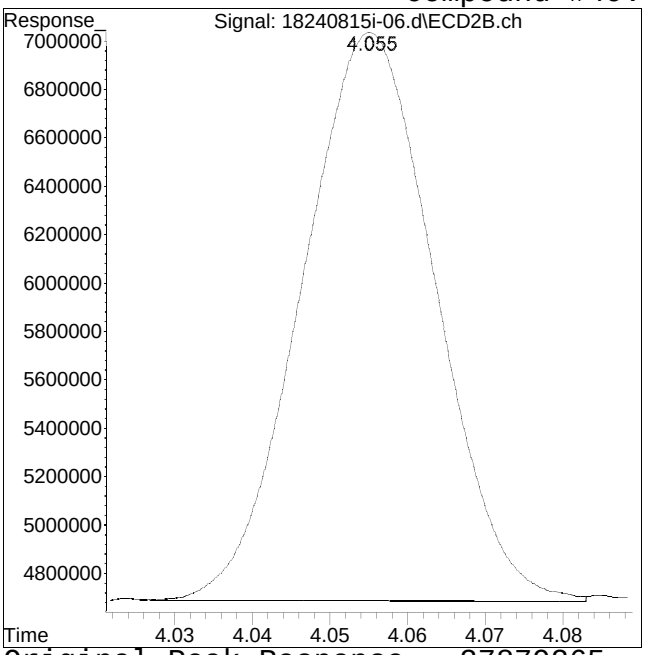


Original Peak Response = 73146231 Manual Peak Response = 42706087 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

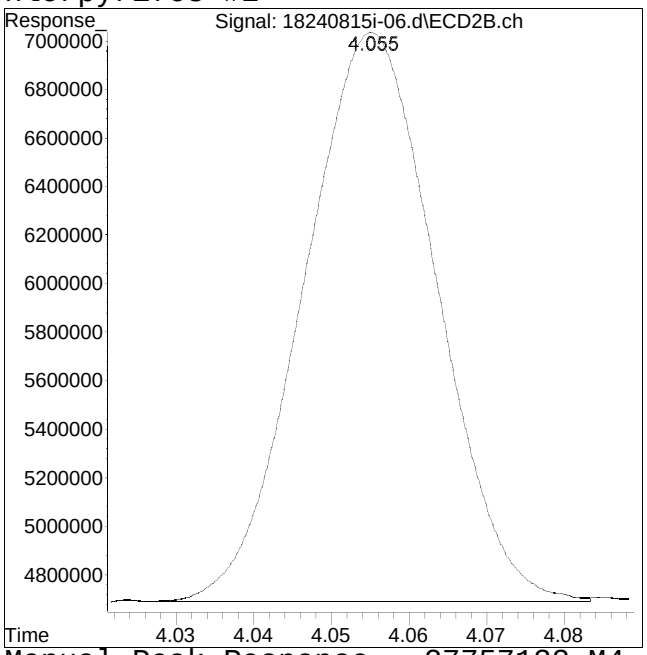
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 27879265



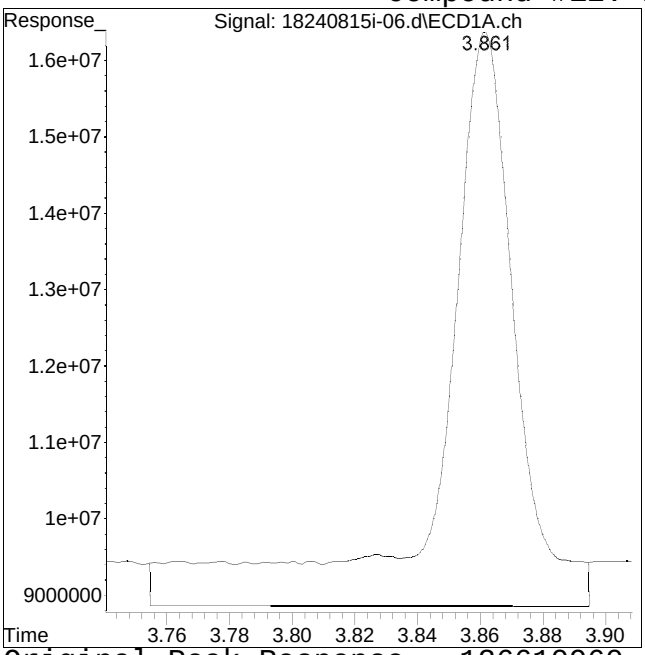
Manual Peak Response = 27757132 M4

M4 = Poor automated baseline construction.

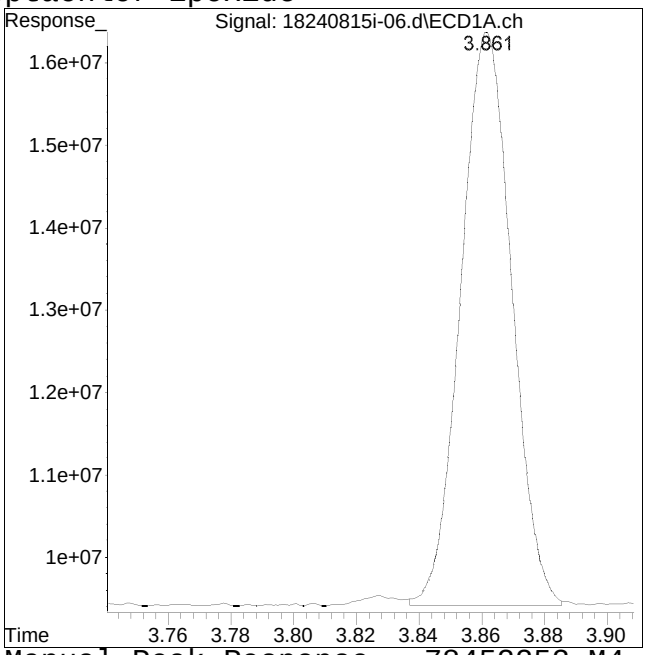
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 126610960

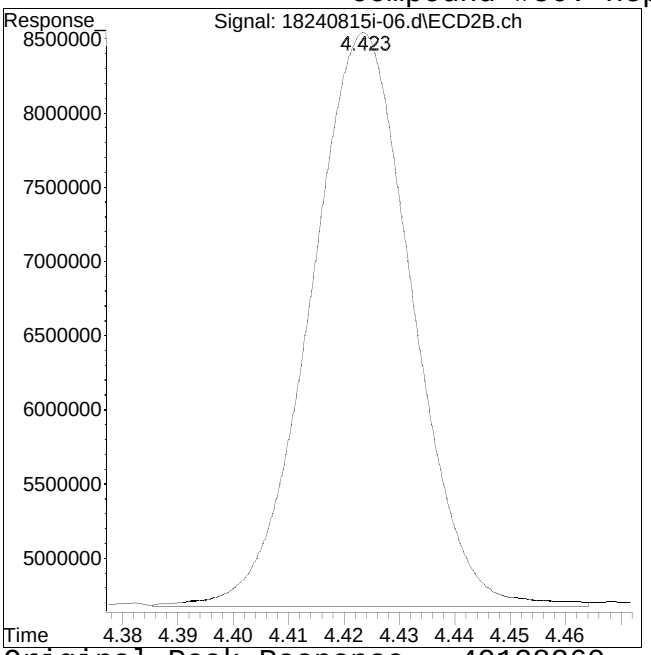


Manual Peak Response = 78452252 M4
M4 = Poor automated baseline construction.

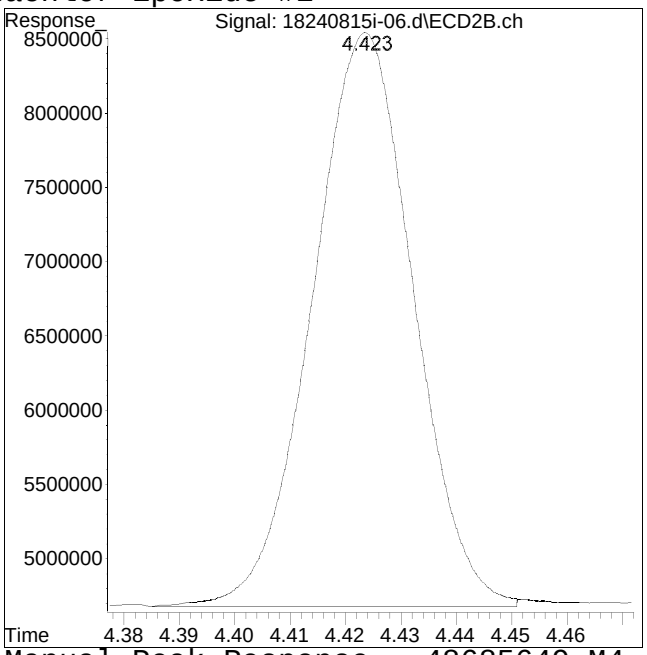
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 49128260



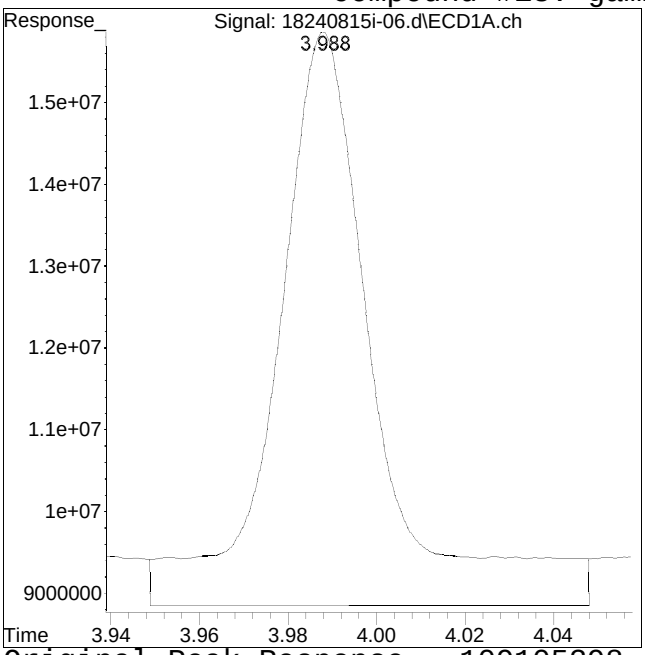
Manual Peak Response = 48685649 M4

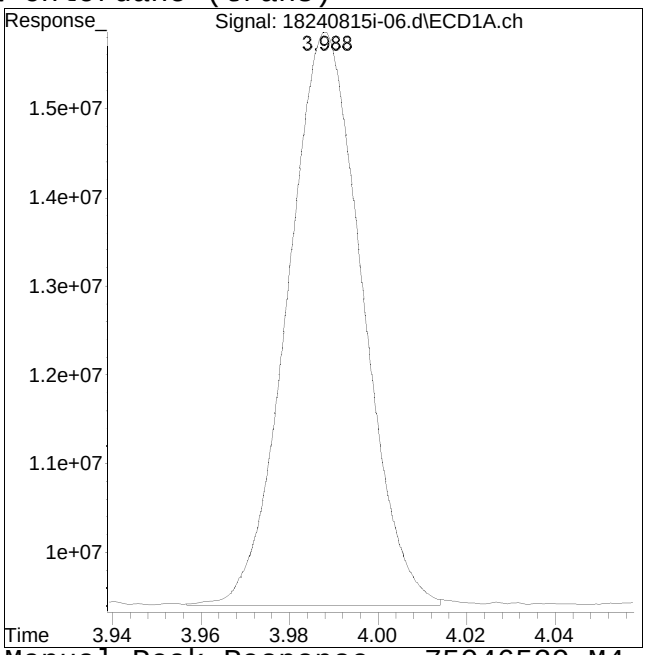
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #13: gamma-Chlordane (trans)



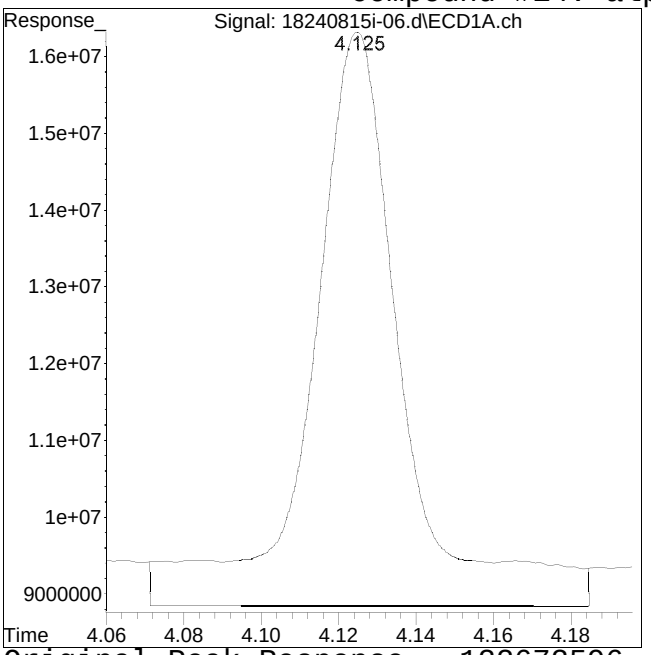


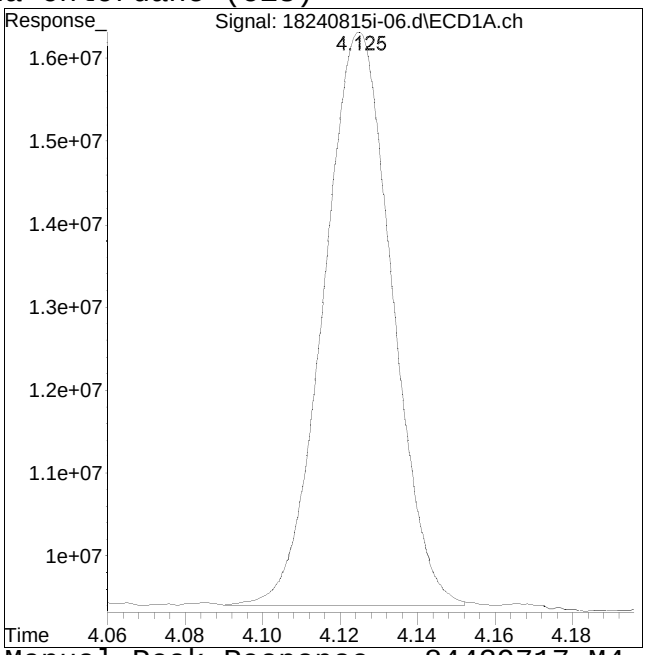
Original Peak Response = 109105398 Manual Peak Response = 75046529 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #14: alpha-Chlordane (cis)



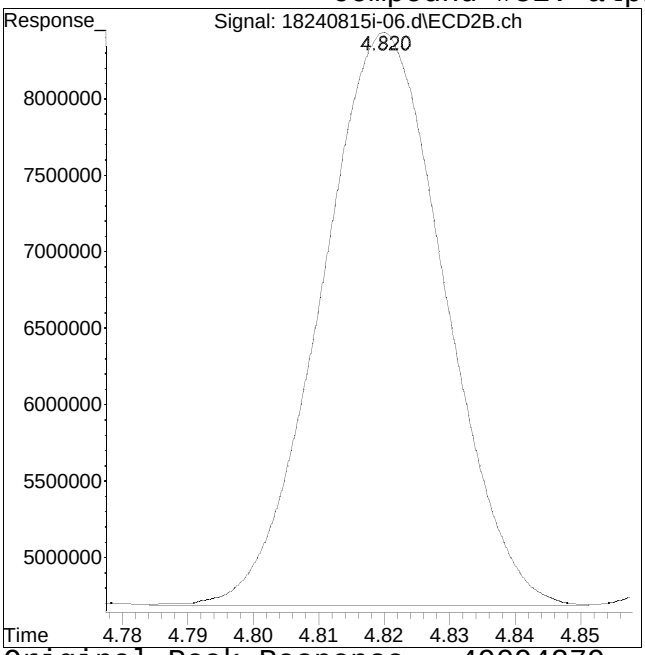


Original Peak Response = 122672596 Manual Peak Response = 84439717 M4
M4 = Poor automated baseline construction.

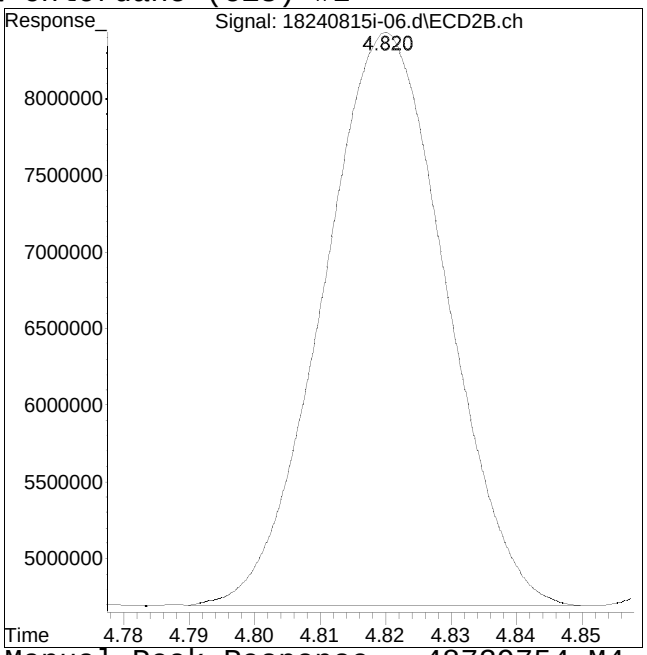
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 49094279



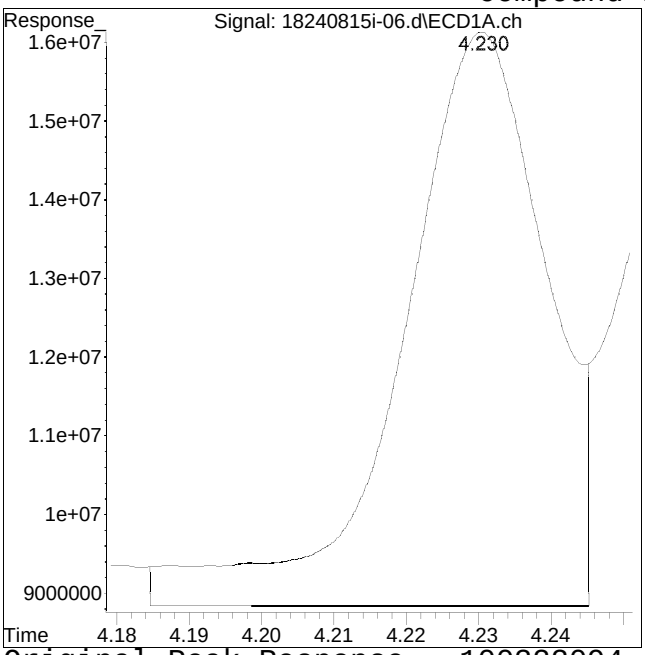
Manual Peak Response = 48739754 M4

M4 = Poor automated baseline construction.

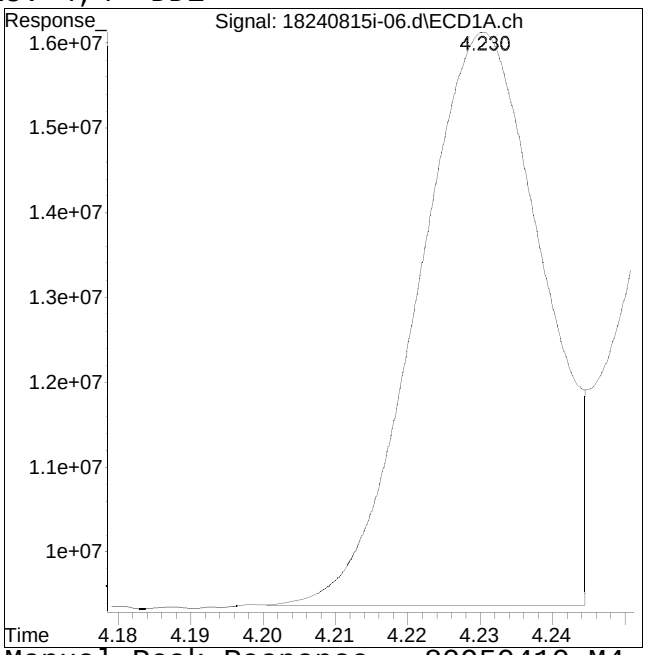
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #15: 4,4'-DDE



Original Peak Response = 100322094

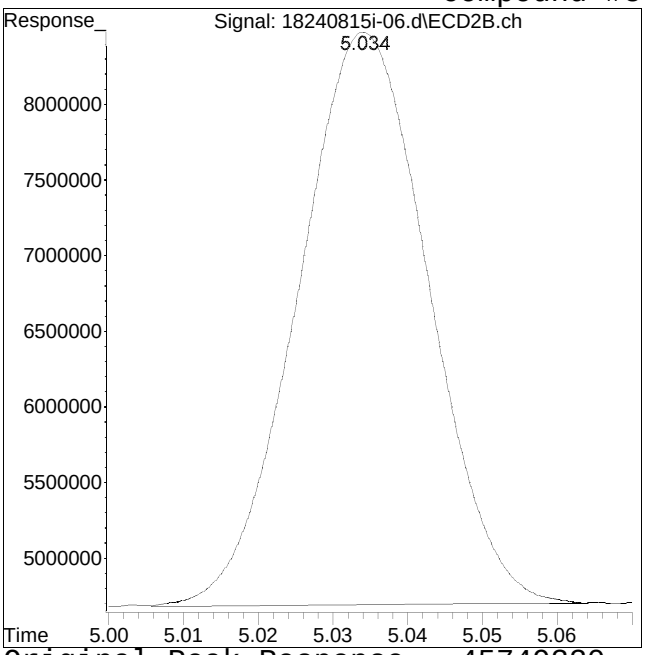


Manual Peak Response = 80950410 M4
M4 = Poor automated baseline construction.

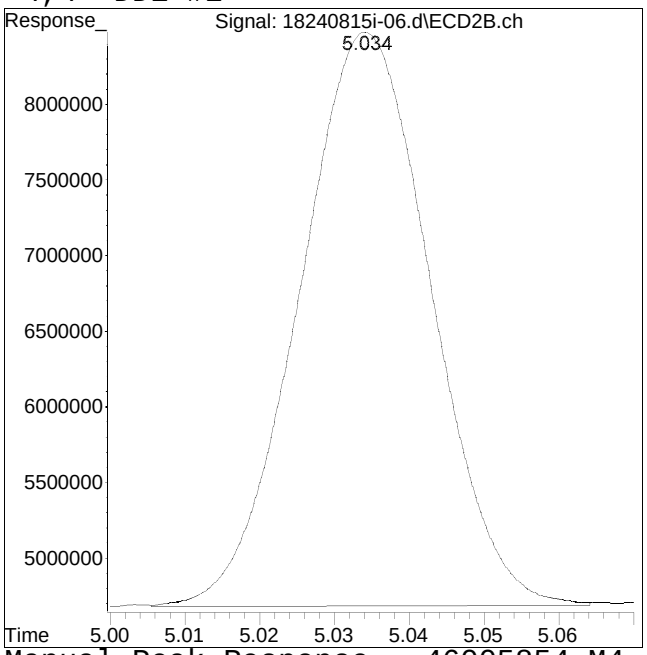
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 45749330



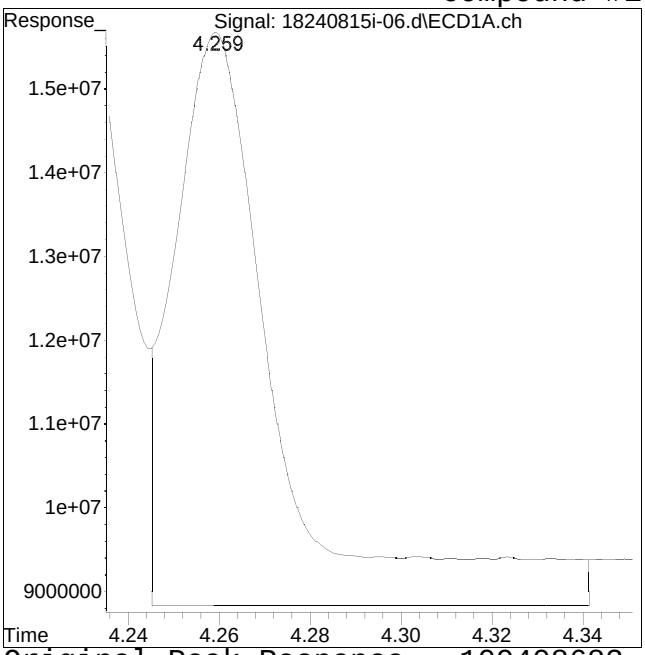
Manual Peak Response = 46005854 M4

M4 = Poor automated baseline construction.

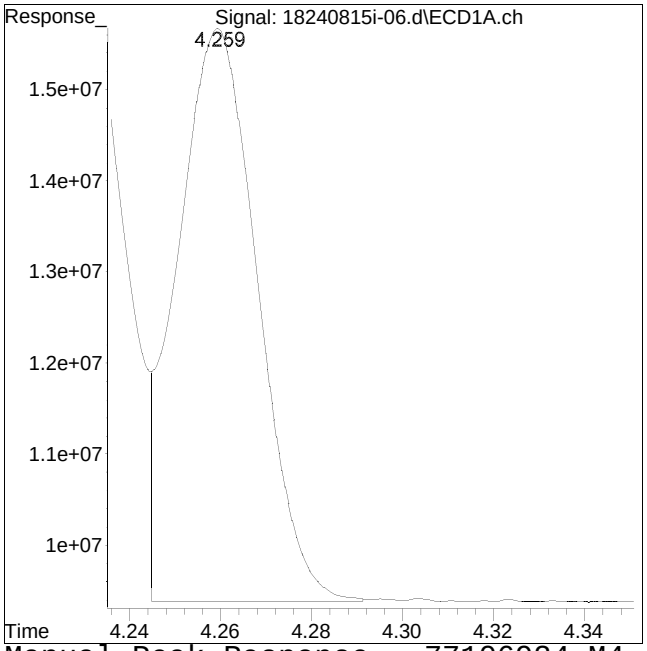
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #16: Endosulfan I



Original Peak Response = 109408683

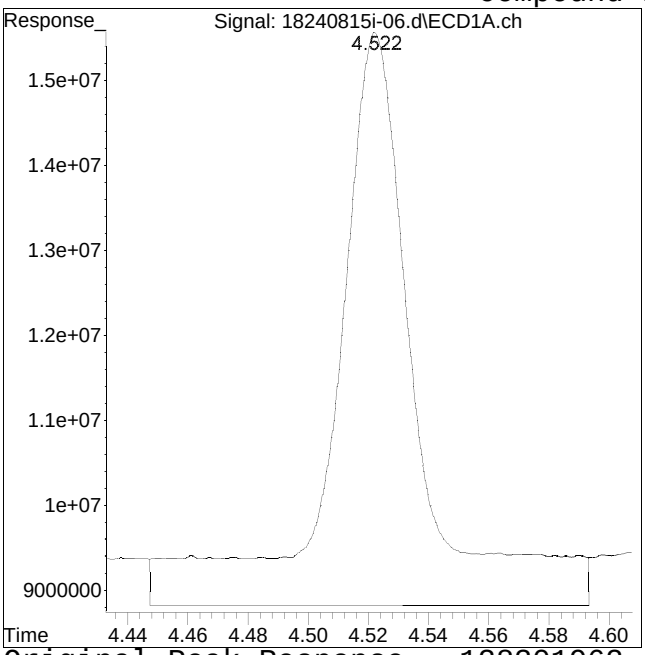


Manual Peak Response = 77106924 M4
M4 = Poor automated baseline construction.

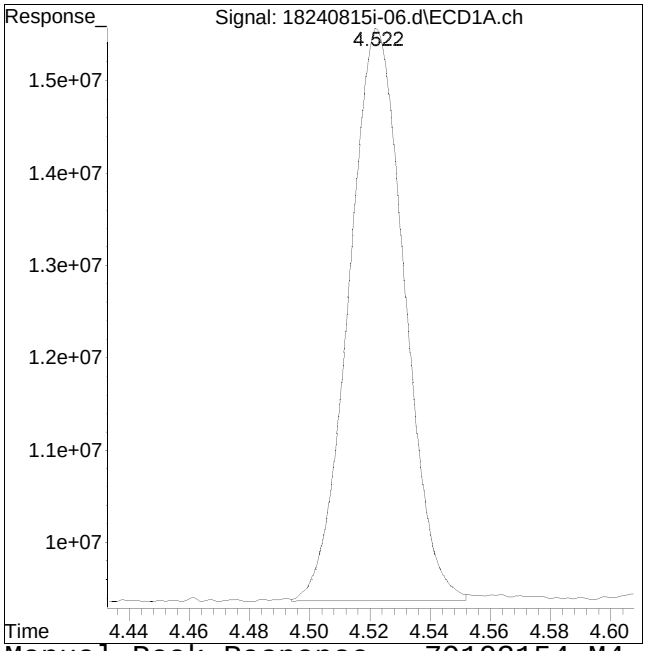
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #17: Dieldrin



Original Peak Response = 128301962



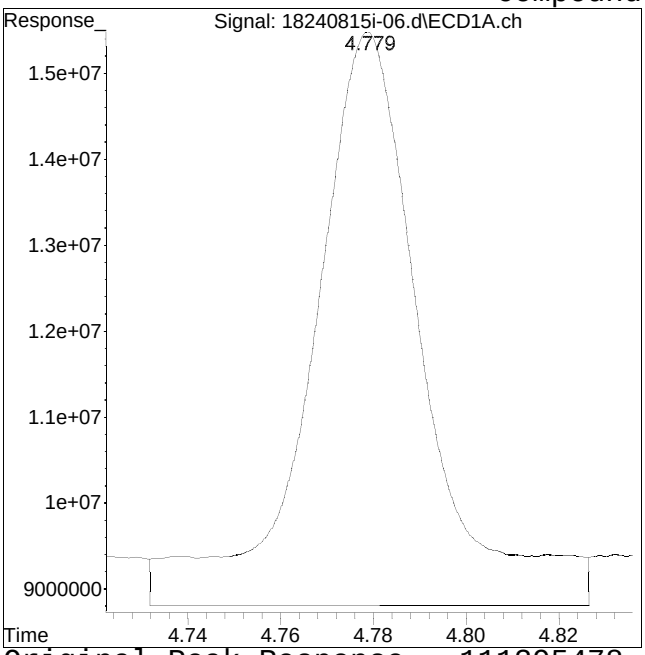
Manual Peak Response = 79103154 M4

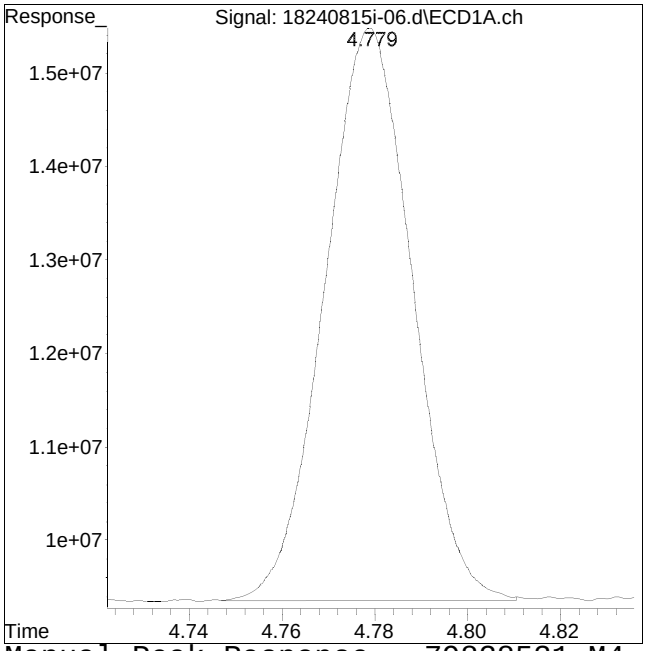
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #18: Endrin



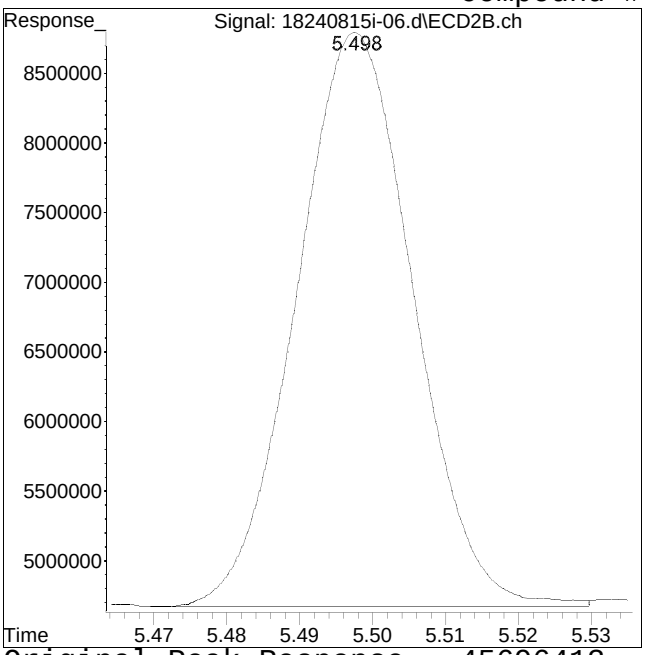


Original Peak Response = 111395478 Manual Peak Response = 79838531 M4
M4 = Poor automated baseline construction.

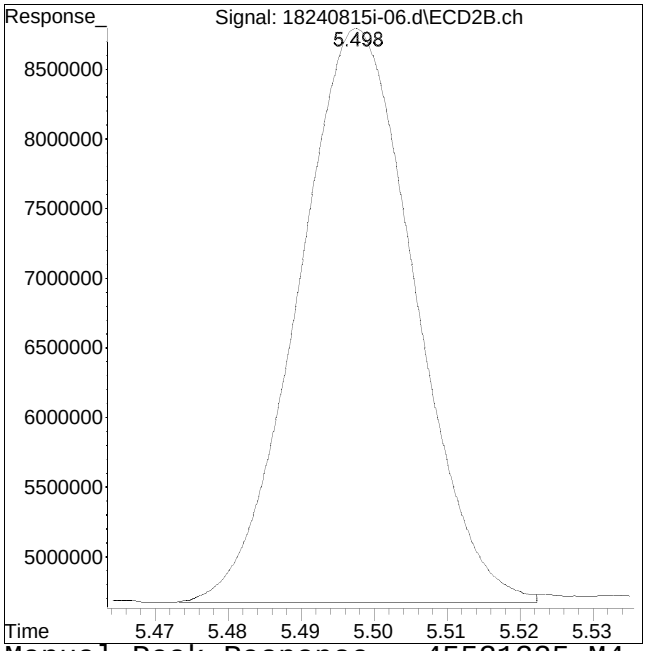
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #56: Endrin #2



Original Peak Response = 45696413



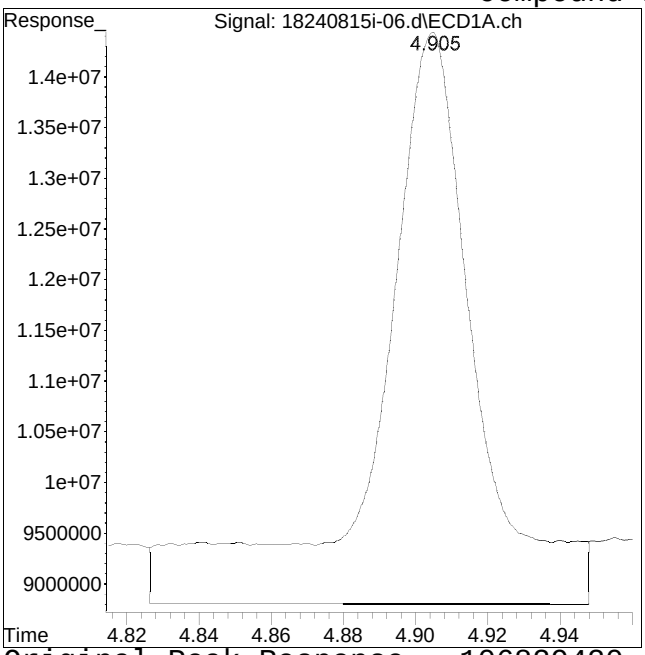
Manual Peak Response = 45531325 M4

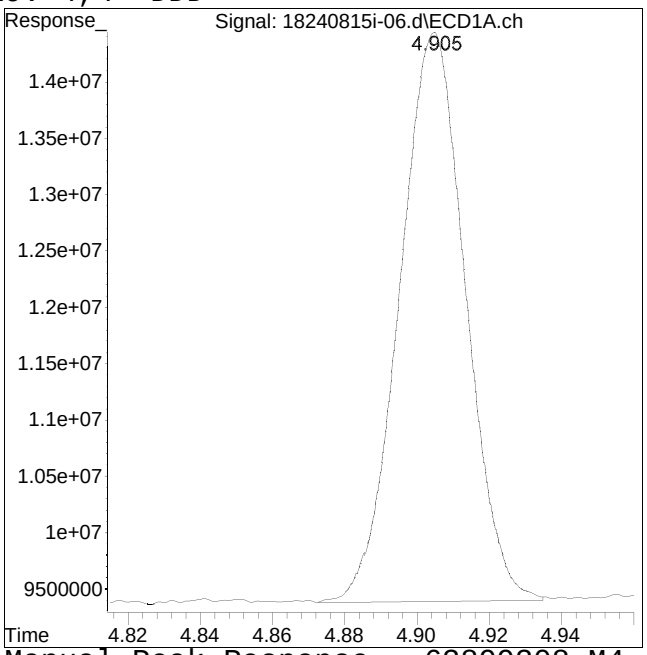
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #19: 4,4'-DDD



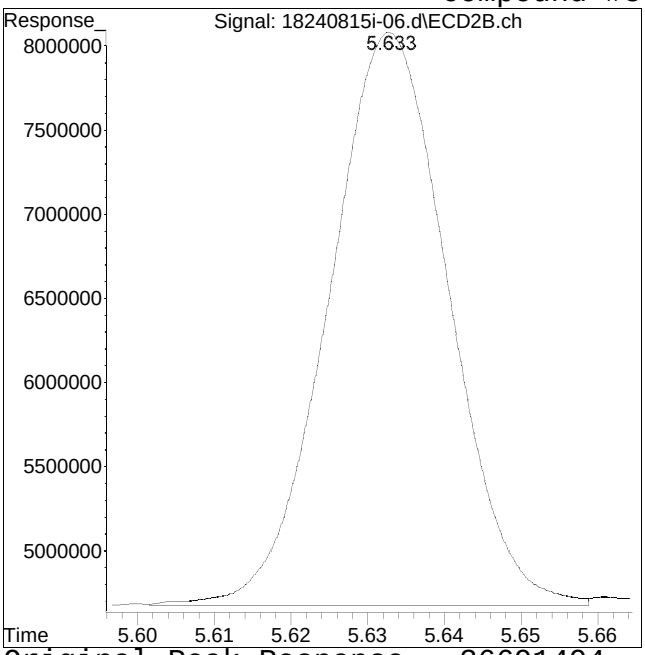


Original Peak Response = 106829420 Manual Peak Response = 63899308 M4
M4 = Poor automated baseline construction.

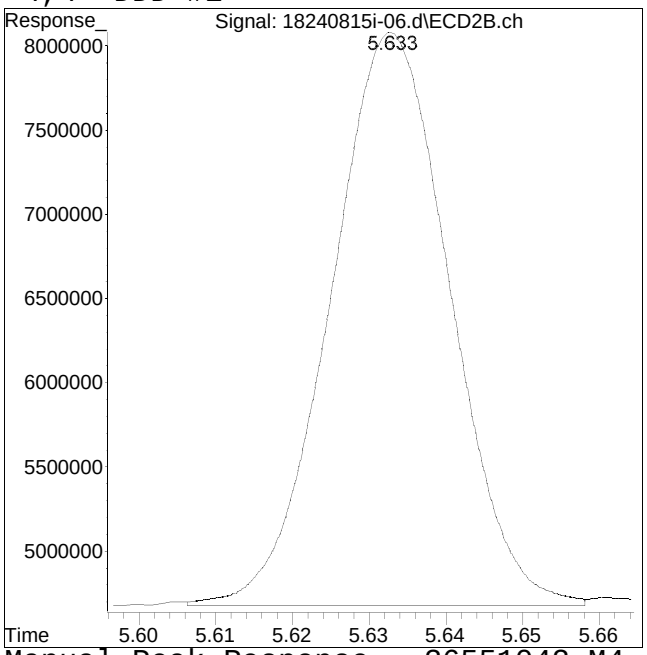
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 36691494



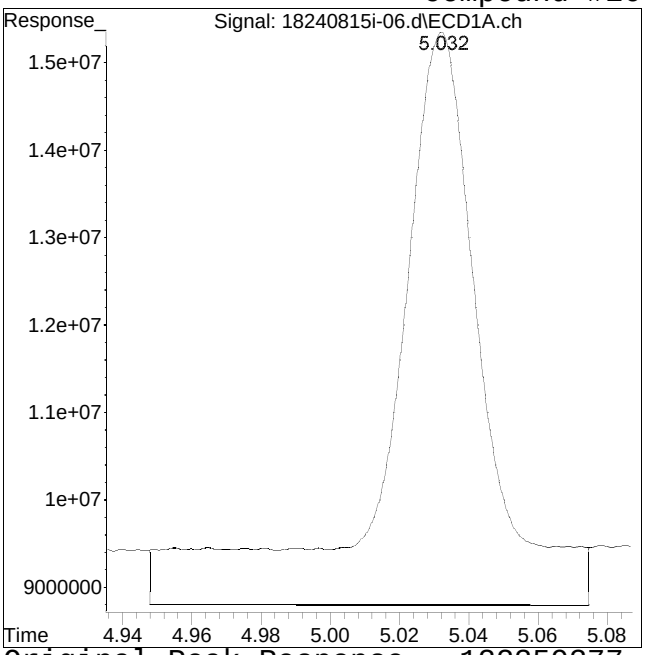
Manual Peak Response = 36551042 M4

M4 = Poor automated baseline construction.

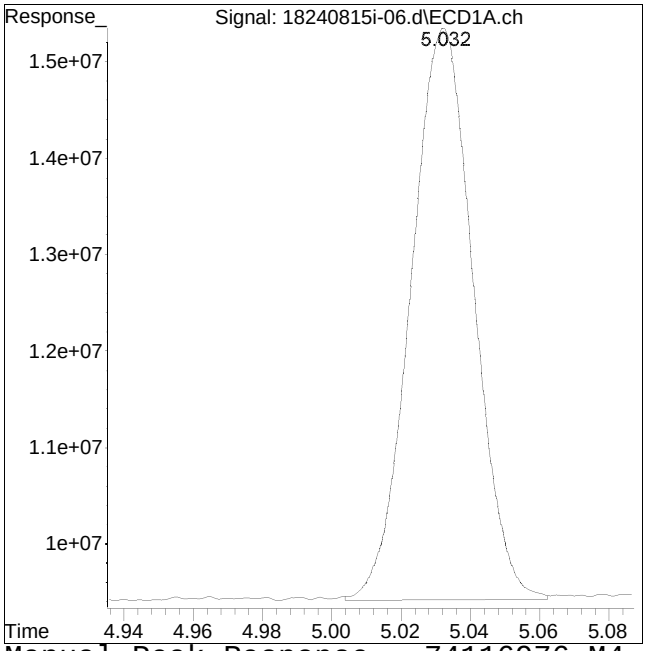
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #20: Endosulfan II



Original Peak Response = 122359377

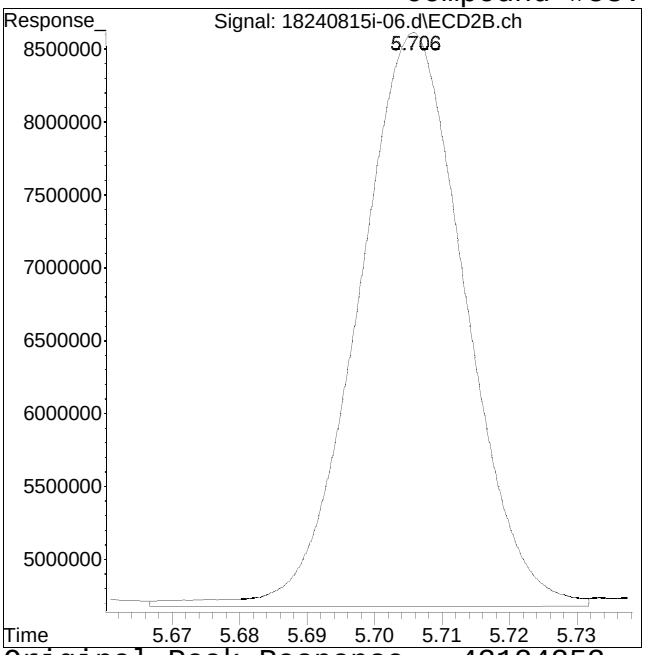


Manual Peak Response = 74116976 M4
M4 = Poor automated baseline construction.

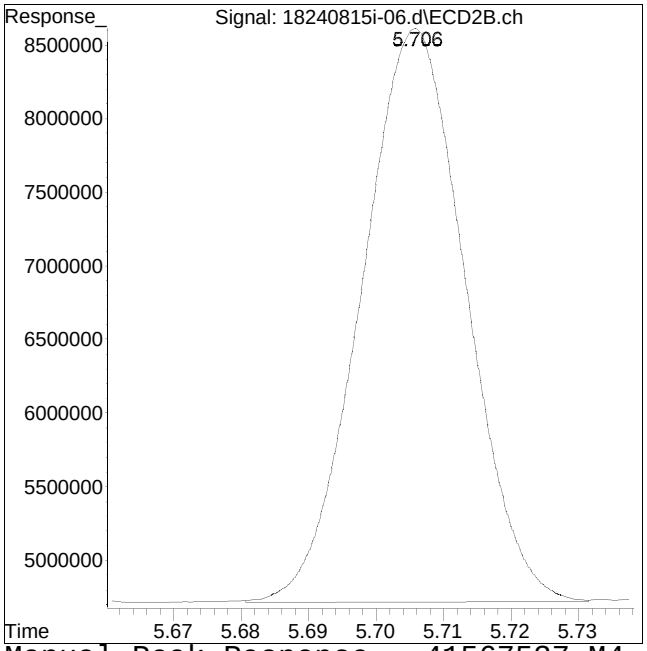
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #58: Endosulfan II #2



Original Peak Response = 43124253



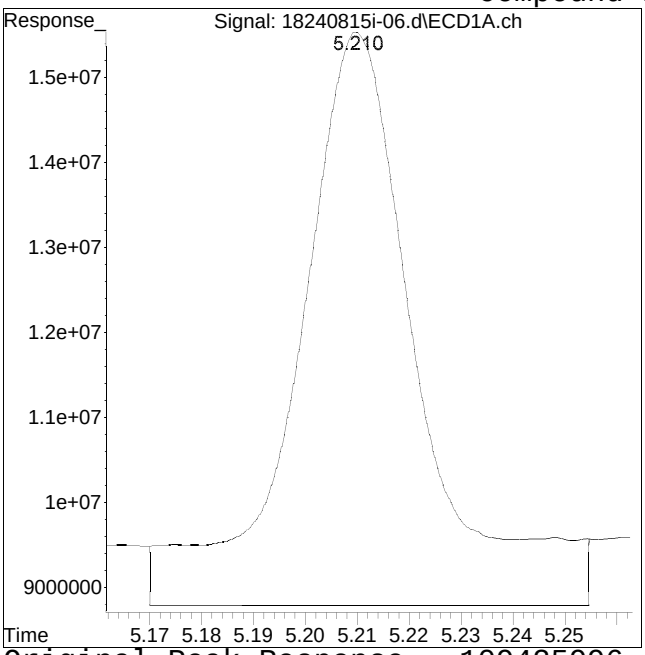
Manual Peak Response = 41567537 M4

M4 = Poor automated baseline construction.

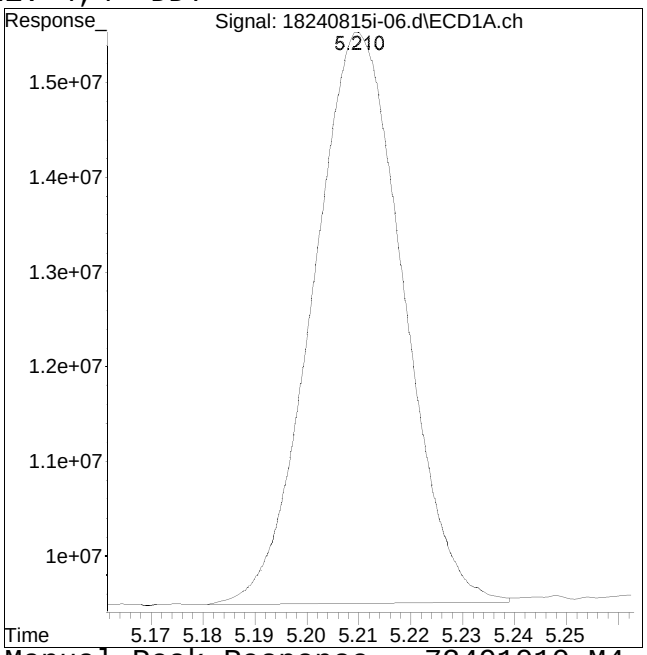
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #21: 4,4'-DDT



Original Peak Response = 109425996

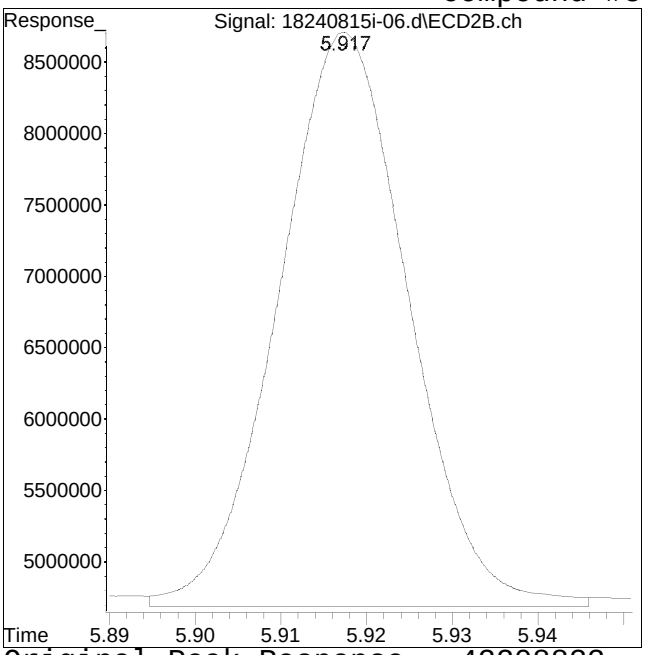


Manual Peak Response = 72491010 M4
M4 = Poor automated baseline construction.

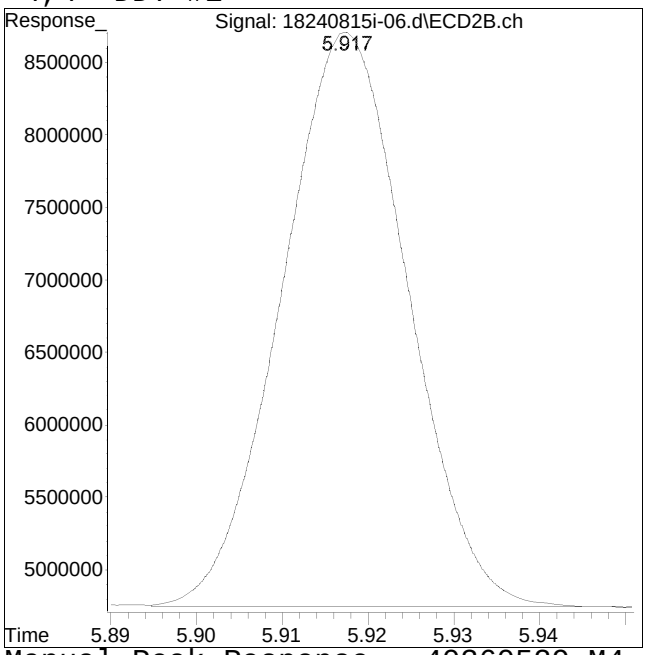
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 42208833



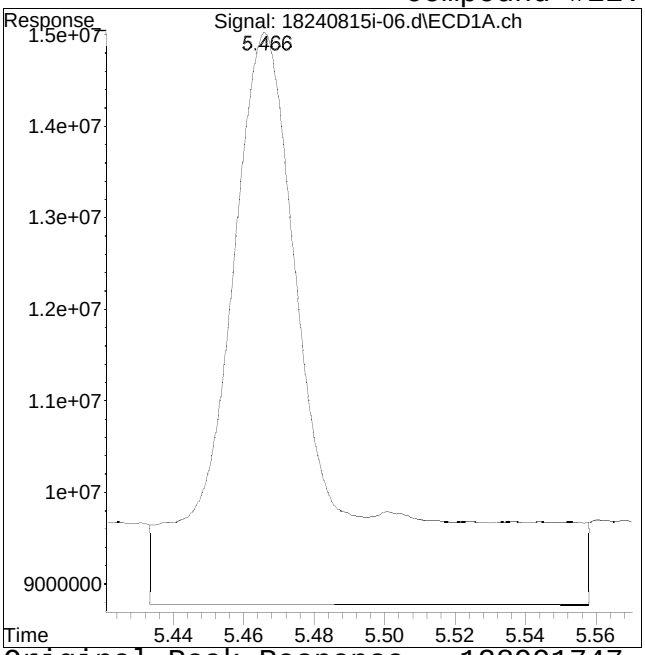
Manual Peak Response = 40360529 M4

M4 = Poor automated baseline construction.

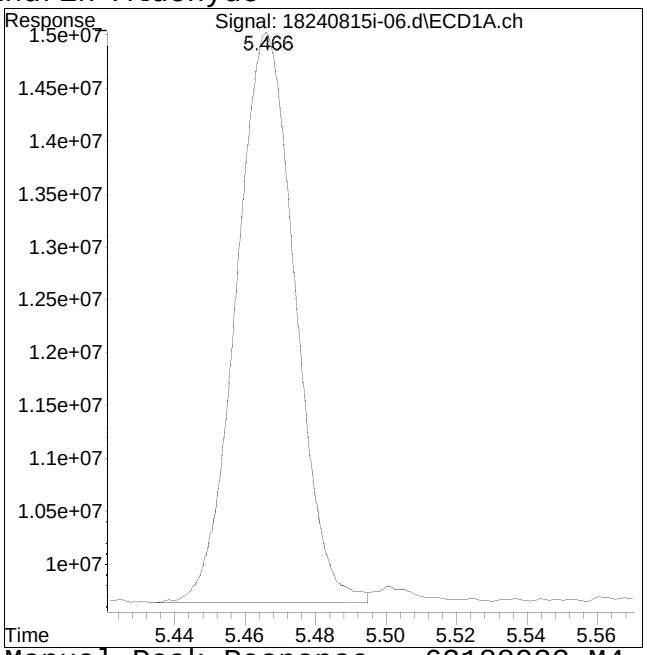
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #22: Endrin Aldehyde



Original Peak Response = 128991747

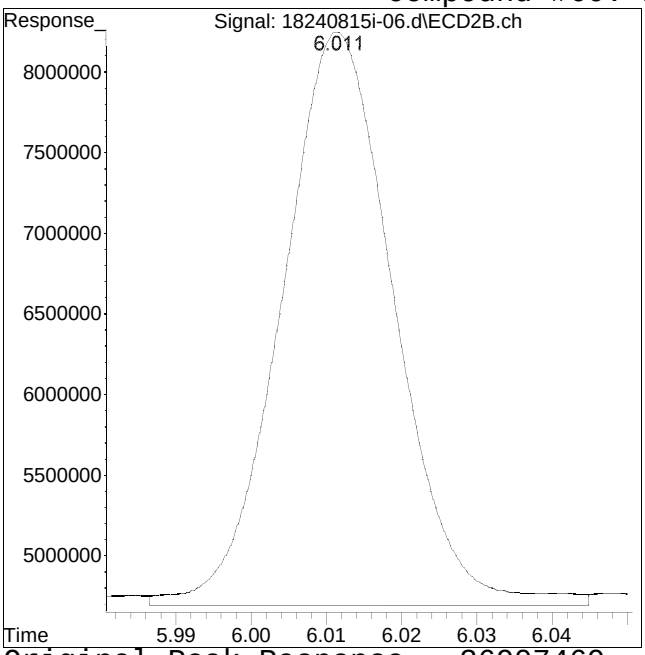


Manual Peak Response = 62188932 M4
M4 = Poor automated baseline construction.

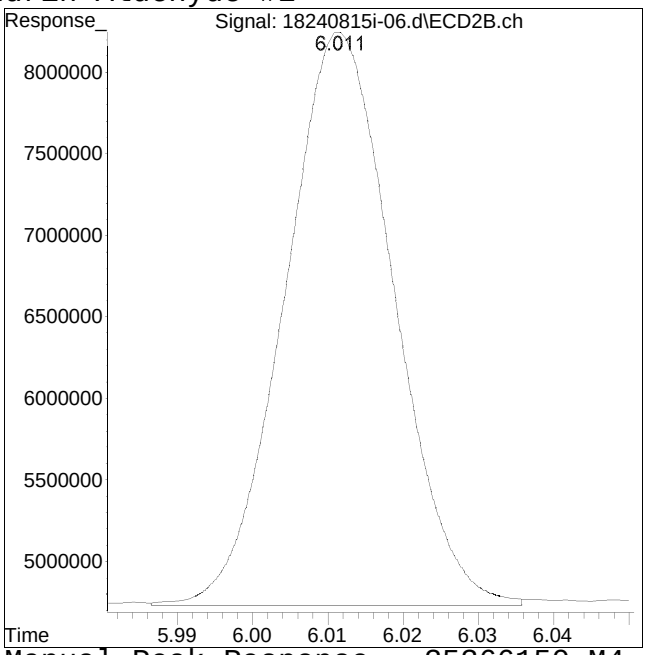
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 36907469



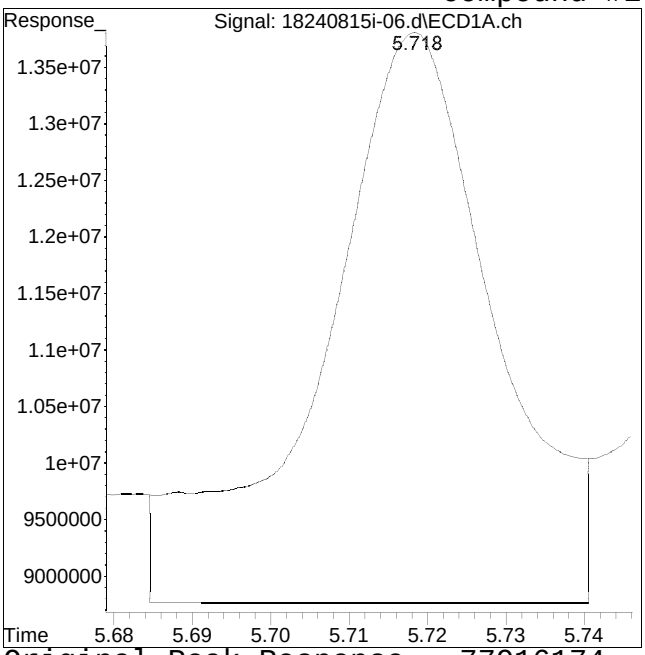
Manual Peak Response = 35366150 M4

M4 = Poor automated baseline construction.

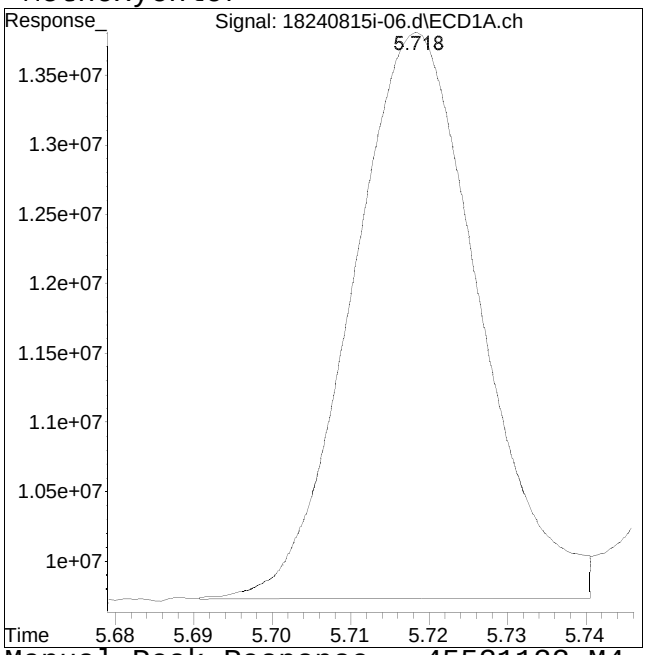
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #23: Methoxychlor



Original Peak Response = 77916174

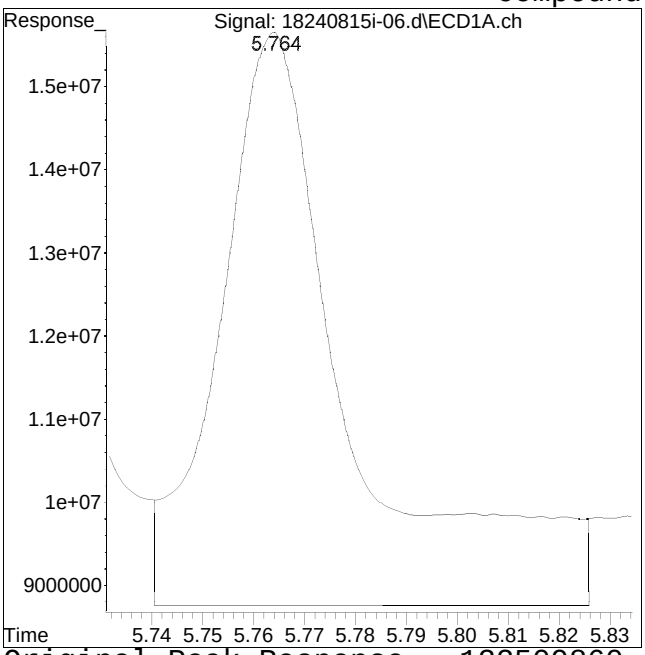


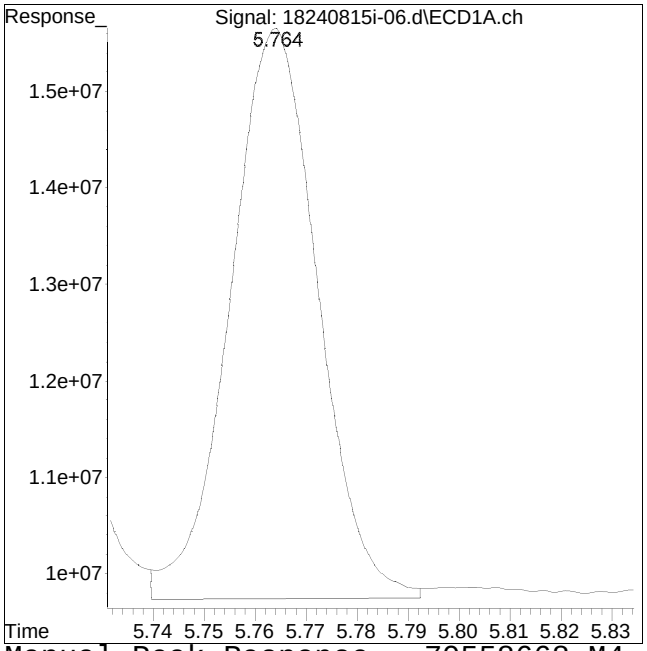
Manual Peak Response = 45531132 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #24: Mirex



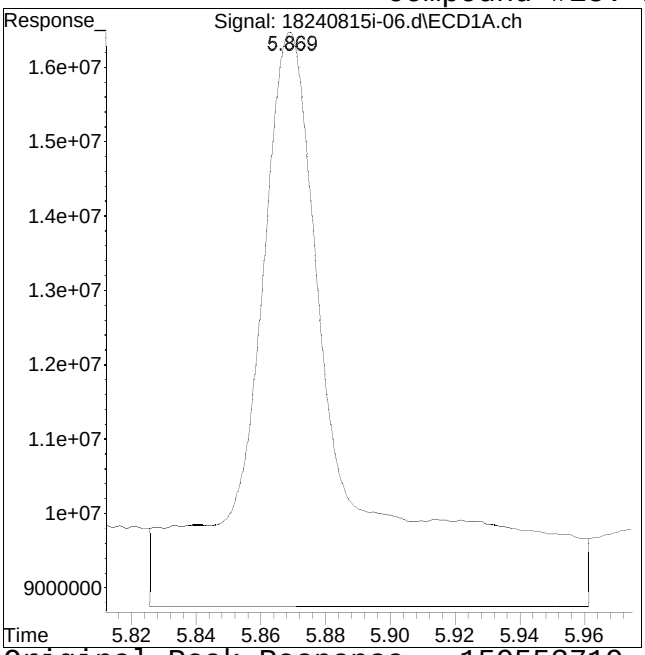


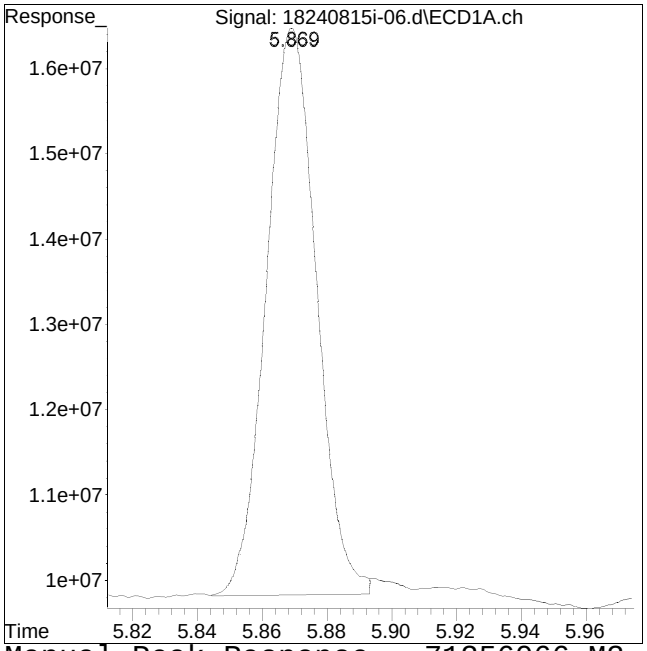
Original Peak Response = 122509860 Manual Peak Response = 70558668 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #25: Endosulfan Sulfate



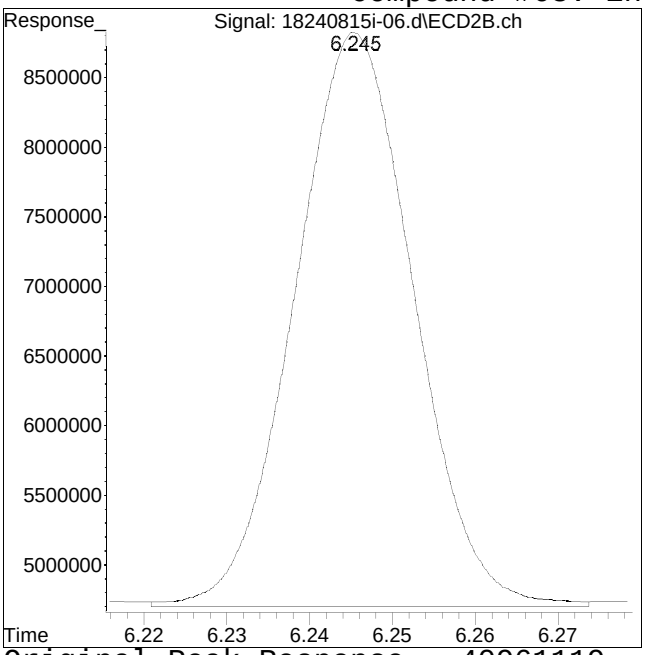


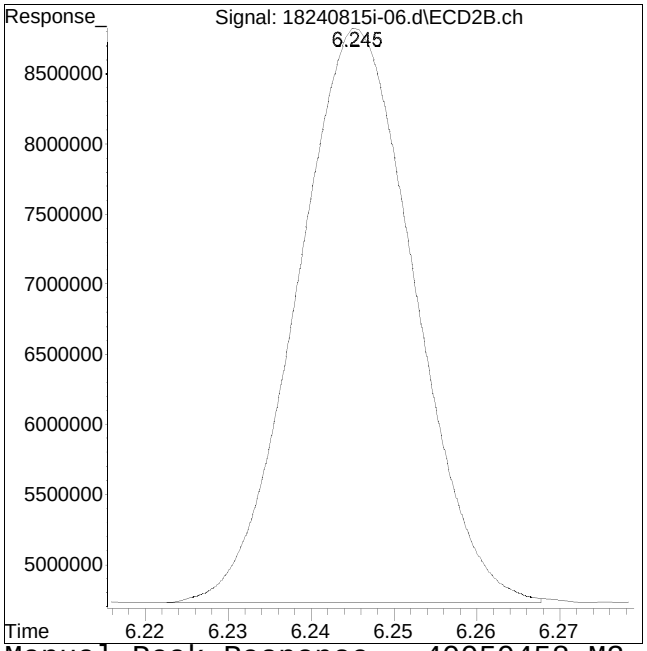
Original Peak Response = 159553719 Manual Peak Response = 71256066 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #63: Endosulfan Sulfate #2



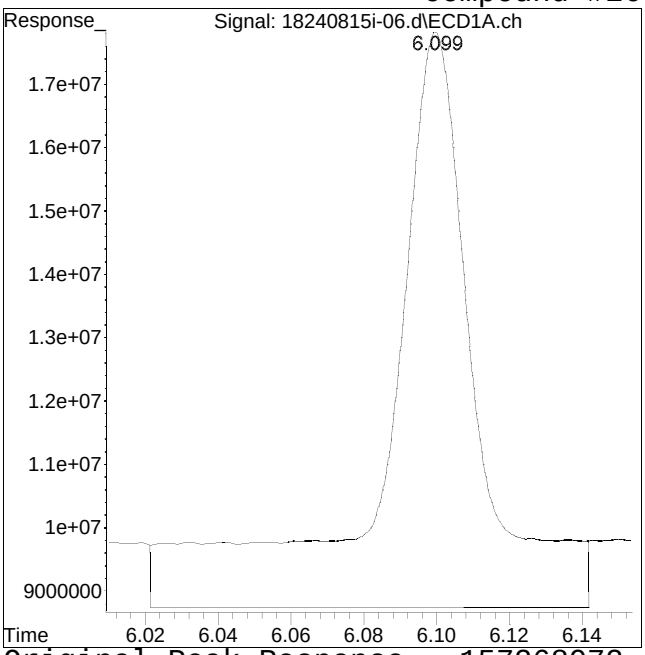


Original Peak Response = 40961119 Manual Peak Response = 40050458 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

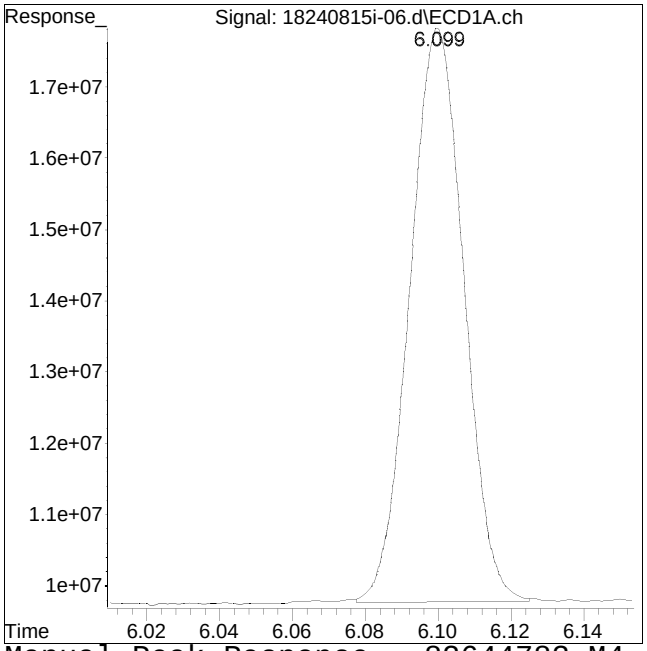
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #26: Endrin Ketone



Original Peak Response = 157268972

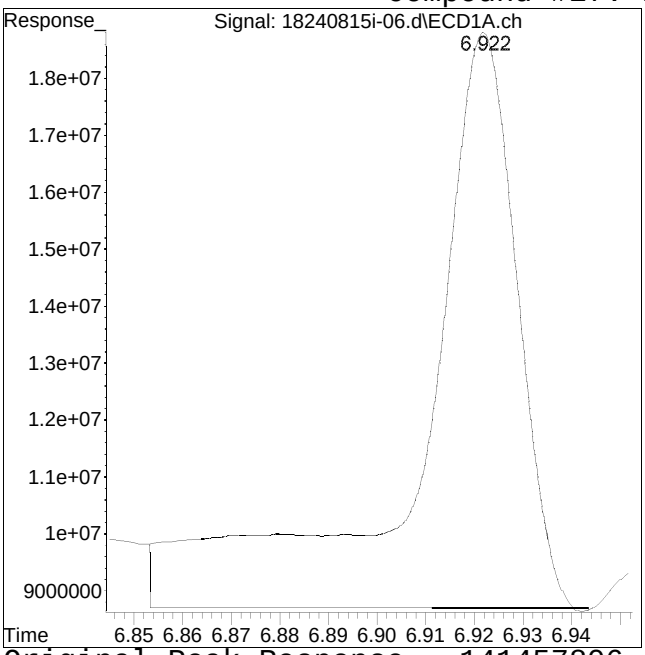


Manual Peak Response = 82644783 M4
M4 = Poor automated baseline construction.

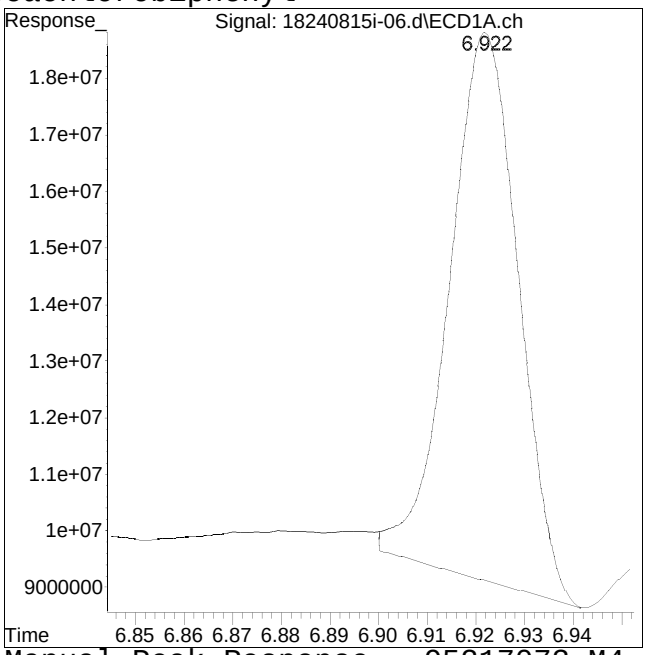
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 141457806



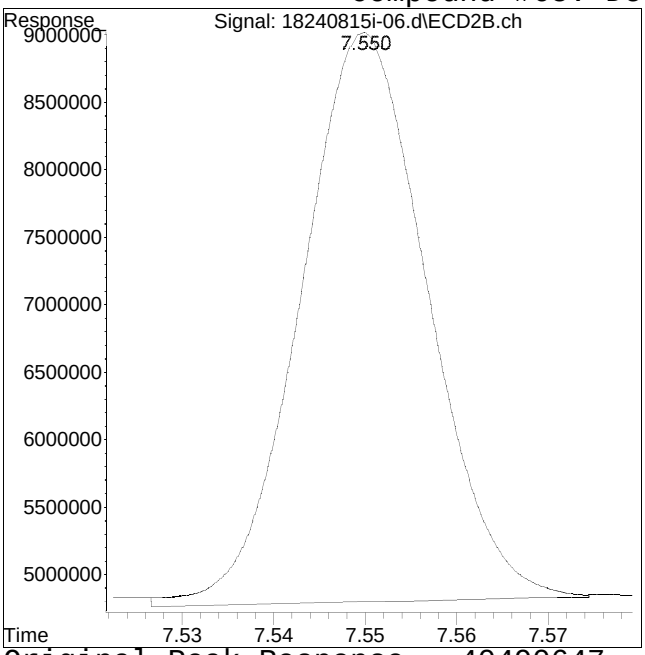
Manual Peak Response = 95217073 M4

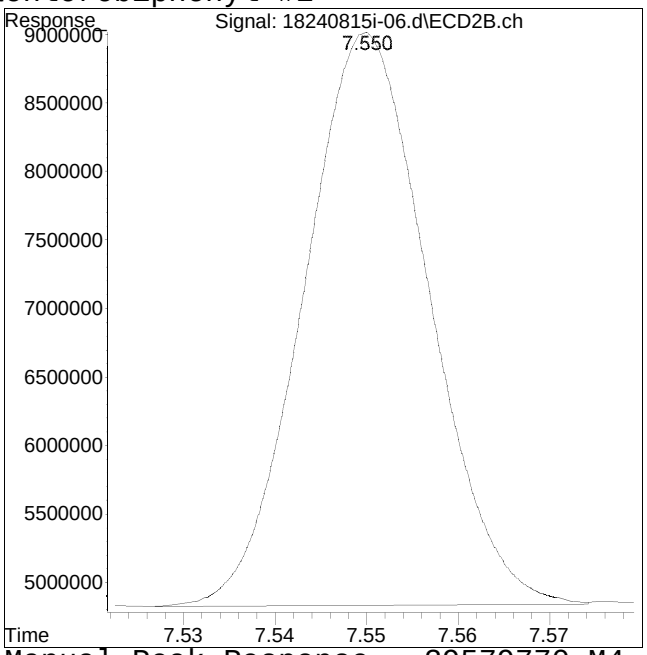
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-06.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:39 Instrument : Pest 18
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/16/2024 8:17 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 40490647 Manual Peak Response = 39579770 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:51
Operator : PEST18:peg
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:48:15 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.683	1.783	515.8E6	311.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.117	2.339	111.2E6	59029472	4.571M4	4.142M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.14%#	8.28%#
27) s	Decachlorobi	6.922	7.550	119.2E6	50589797	4.630M4	4.589M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.26%#	9.18%#
	Target Compounds						
3)	Hexachlorobe	2.358	2.683	122.4E6	64439263	4.409M4	4.346M4
4)	alpha-BHC	2.469	2.786	123.1E6	73248450	3.946M4	3.696M4
5)	gamma-BHC (l	2.688	3.082	112.3E6	68557318	4.019M3	3.843M4
6)	beta-BHC	2.753	3.156	55657705	34568294	4.461M4	4.312M4
7)	delta-BHC	2.885	3.426	113.0E6	67597660	3.974M4	3.746
8)	Heptachlor	3.054	3.484	110.9E6	64981099	4.311M3	4.077
9)	Aldrin	3.303	3.804	105.6E6	62424950	4.115M4	3.855
10)	Alachlor	3.442	3.700	16218761	10356908	4.611M4	4.665M4
11)	Chlorpyrifos	3.537	4.055	54473531	35164077	4.822M4	4.813M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:51
Operator : PEST18:peg
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:48:15 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.423	99198028	61303342	4.359M4	4.108M4
13)		gamma-Chlord	3.989	4.646	94018299	55259331	4.211M4	3.983M4
14)		alpha-Chlord	4.125	4.820	106.9E6	62017303	4.259M4	4.024M4
15)		4,4'-DDE	4.231	5.035	106.5E6	58995096	4.149M4	3.805M4
16)		Endosulfan I	4.260	4.883	97885818	57457457	4.393M4	4.062M4
17)		Dieldrin	4.523	5.189	100.4E6	57255885	4.200M3	3.883M3
18)		Endrin	4.780	5.499	102.8E6	59007733	4.297M4	4.042
19)		4,4'-DDD	4.906	5.633	81055731	46031867	4.130M4	3.850M4
20)		Endosulfan I	5.033	5.706	94697720	53216746	4.417M4	4.120M4
21)		4,4'-DDT	5.210	5.918	91413169	51368726	4.156M4	3.923M4
22)		Endrin Aldeh	5.466	6.012	78681356	44230939	4.338M4	4.087M4
23)		Methoxychlor	5.718	6.498	56768720	32200593	4.822M4	4.671M4
24)		Mirex	5.764	6.625	86844361	47559188	4.713M4	4.577M4
25)		Endosulfan S	5.869	6.246	91411938	51343864	4.263M3	4.141
26)		Endrin Keton	6.100	6.665	105.1E6	56243218	4.463M4	4.196M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:51
Operator : PEST18:peg
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:48:15 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

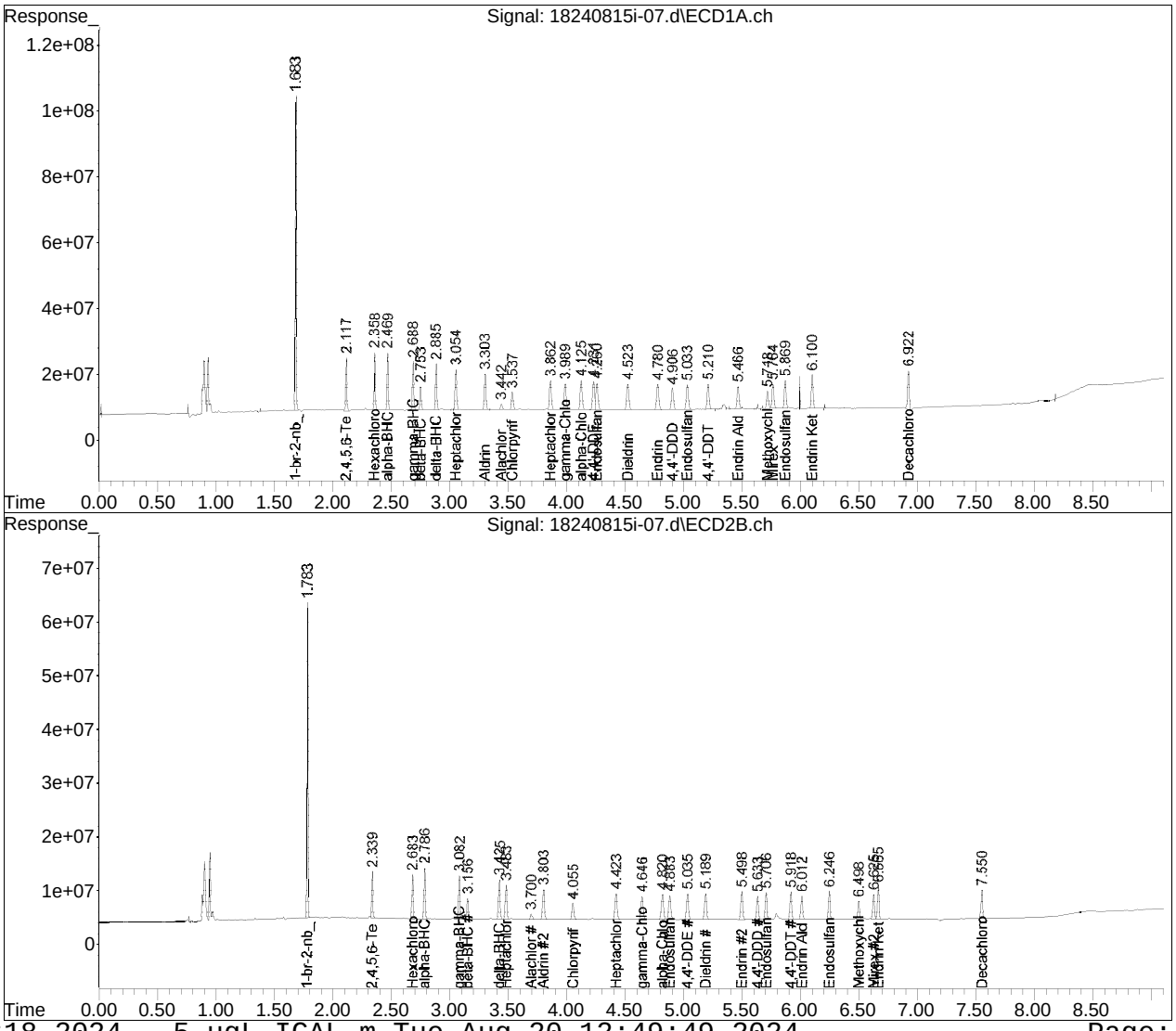
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 14:51
Operator : PEST18:peg
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:48:15 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation

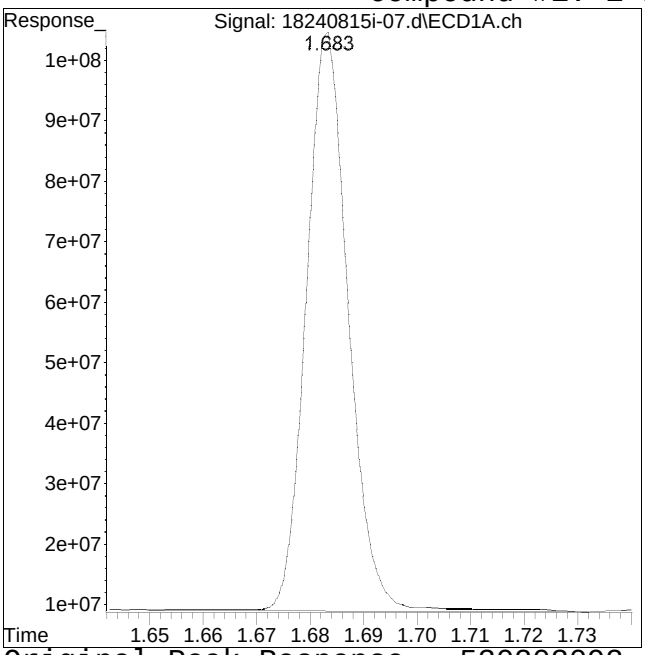
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



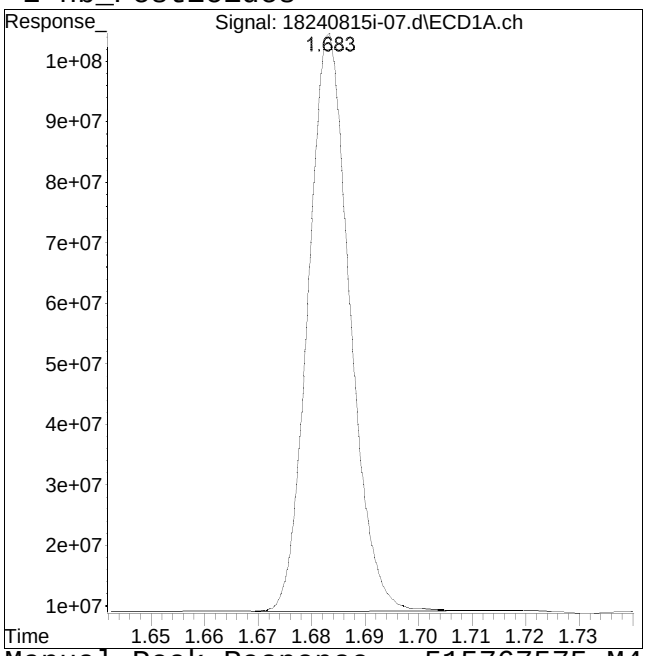
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 530203092



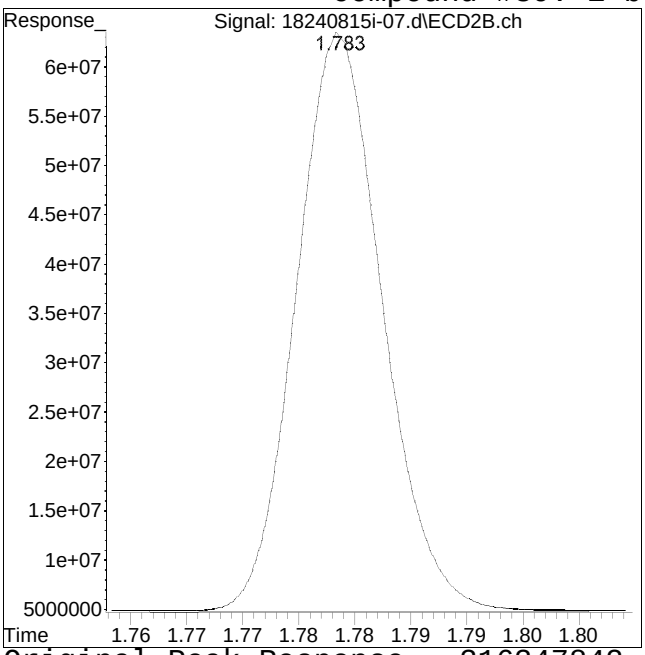
Manual Peak Response = 515767575 M4

M4 = Poor automated baseline construction.

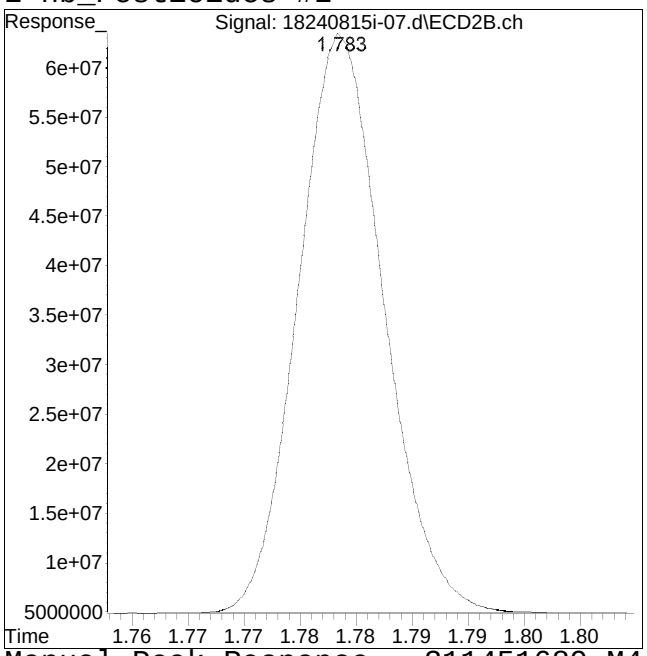
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 316347842



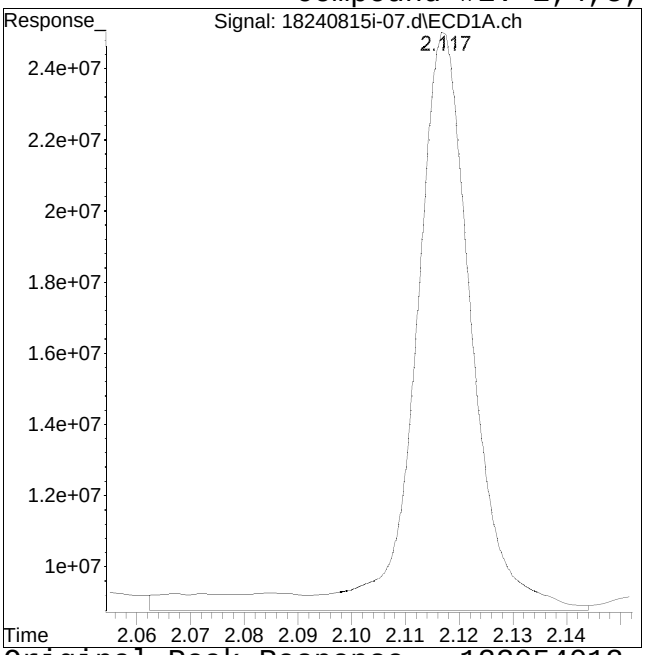
Manual Peak Response = 311451689 M4

M4 = Poor automated baseline construction.

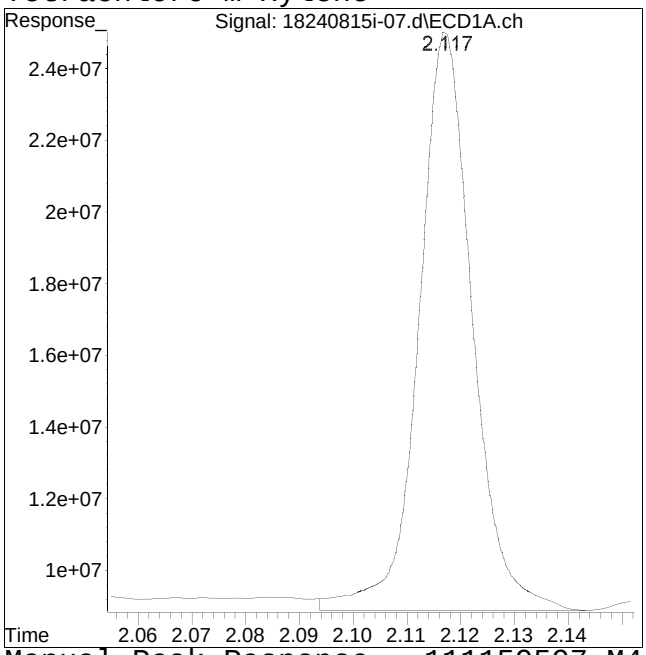
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 123054012



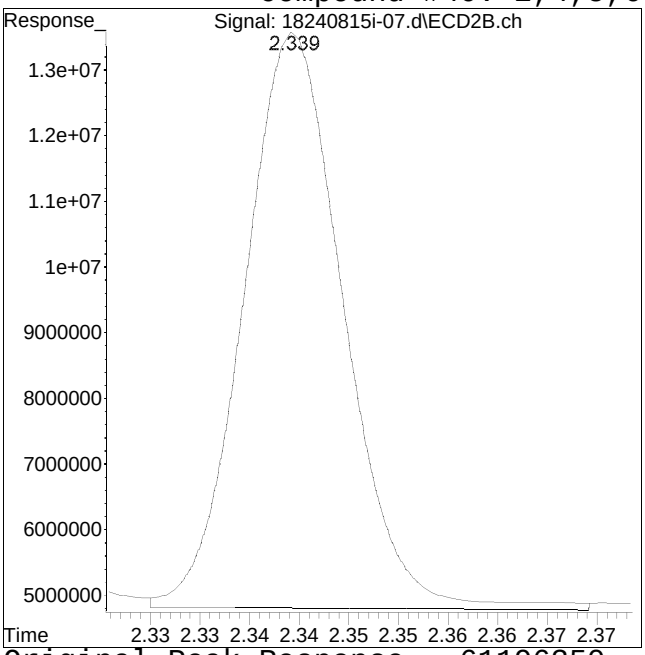
Manual Peak Response = 111159597 M4

M4 = Poor automated baseline construction.

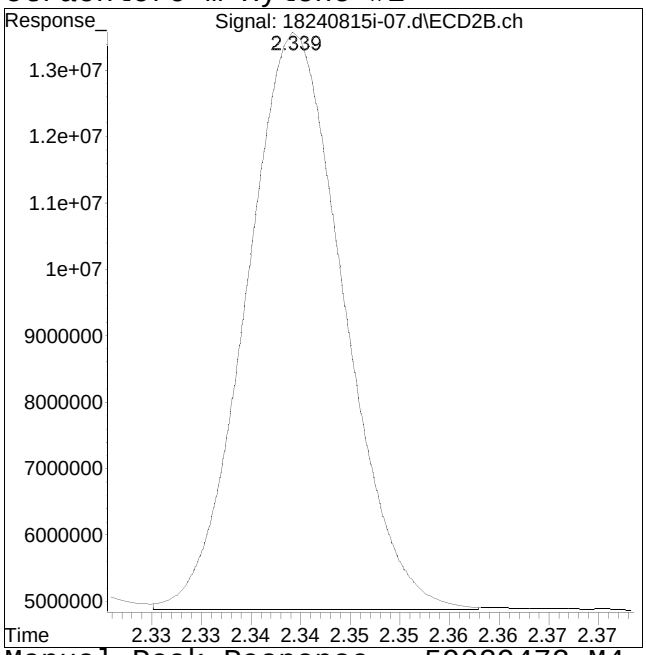
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 61196350

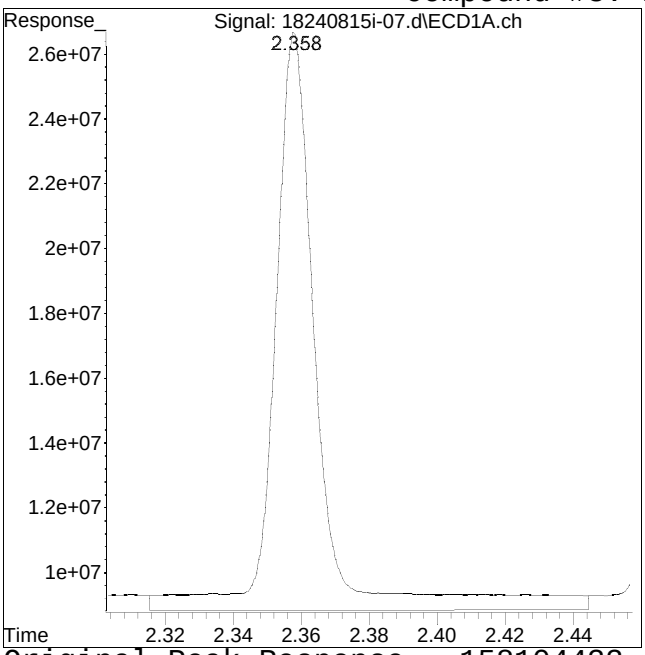


Manual Peak Response = 59029472 M4
M4 = Poor automated baseline construction.

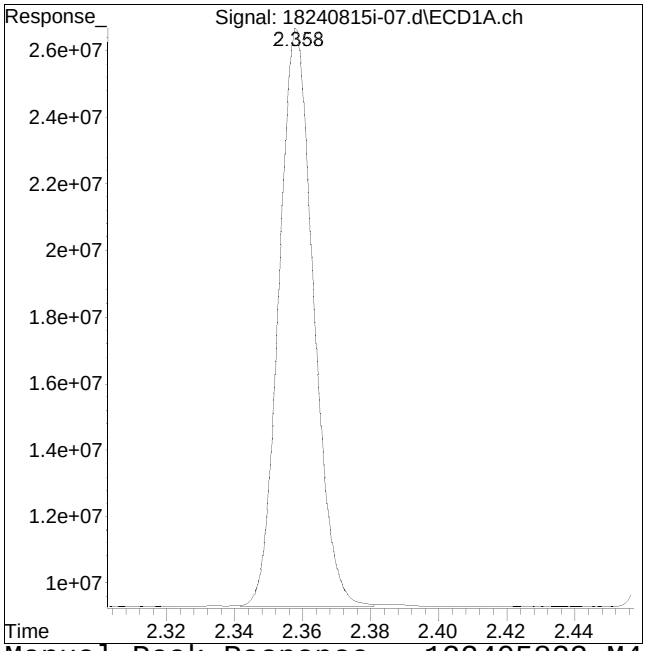
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #3: Hexachlorobenzene



Original Peak Response = 158104433



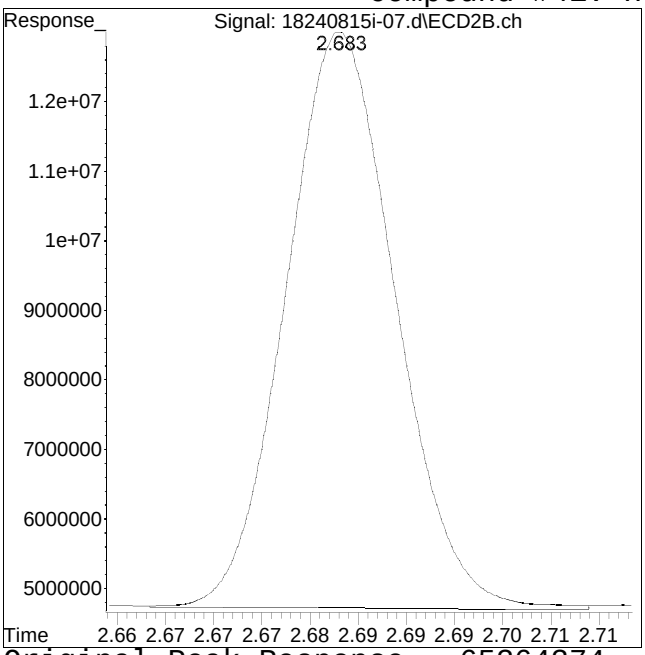
Manual Peak Response = 122405823 M4

M4 = Poor automated baseline construction.

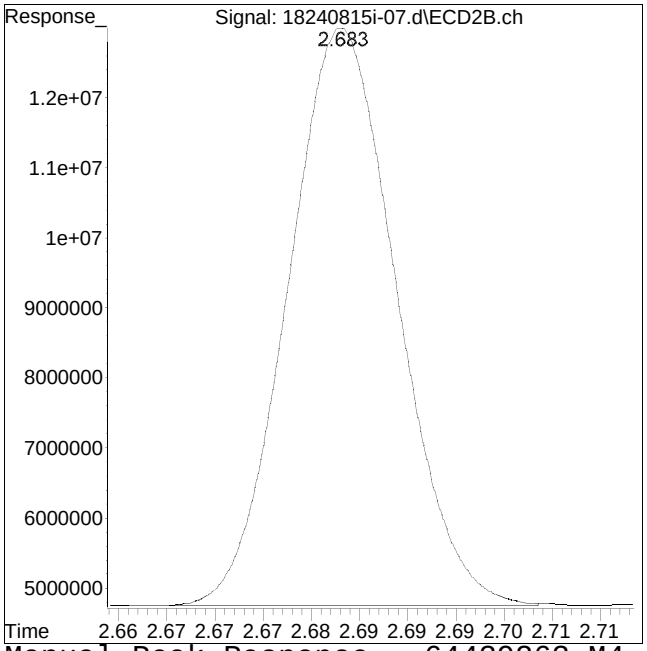
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 65364374



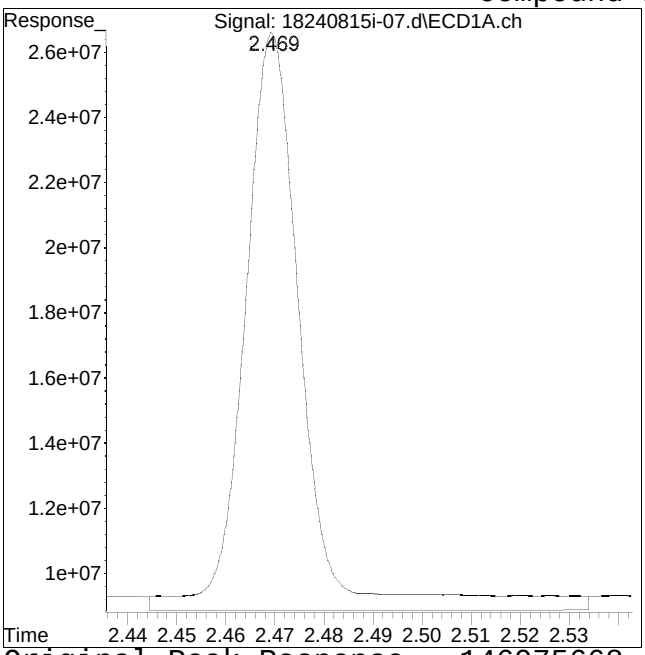
Manual Peak Response = 64439263 M4

M4 = Poor automated baseline construction.

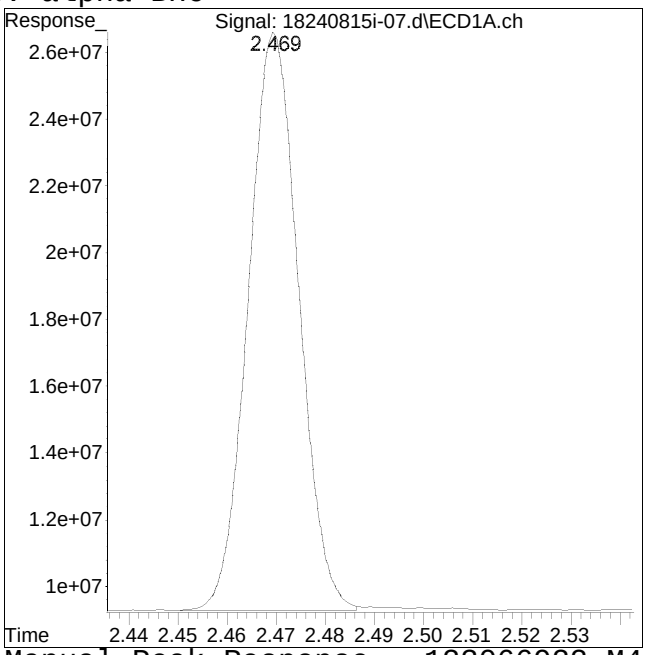
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #4: alpha-BHC



Original Peak Response = 146075668



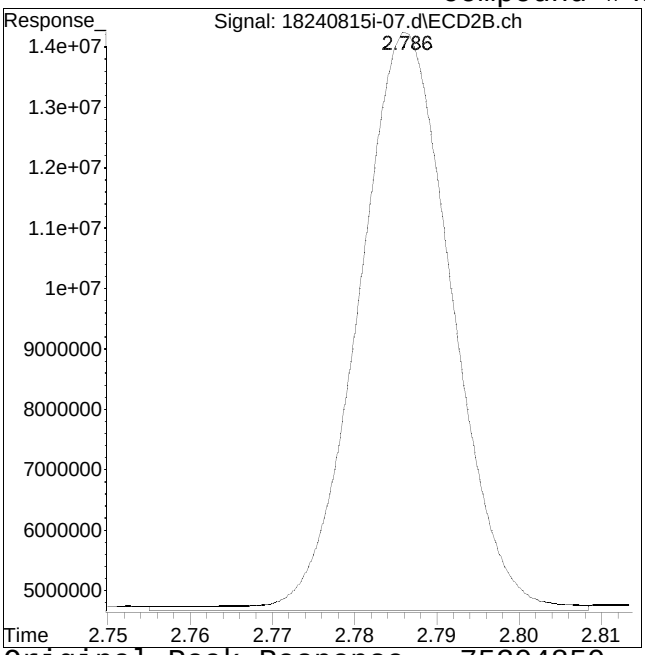
Manual Peak Response = 123066922 M4

M4 = Poor automated baseline construction.

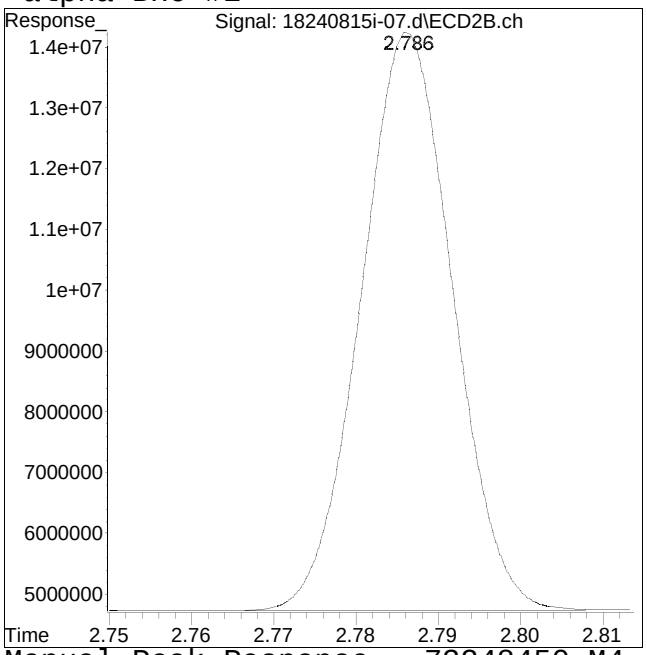
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #42: alpha-BHC #2



Original Peak Response = 75304850



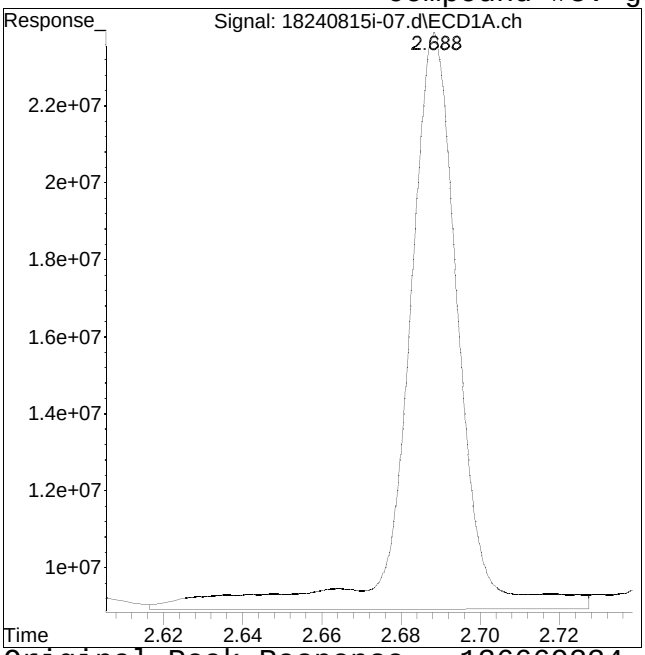
Manual Peak Response = 73248450 M4

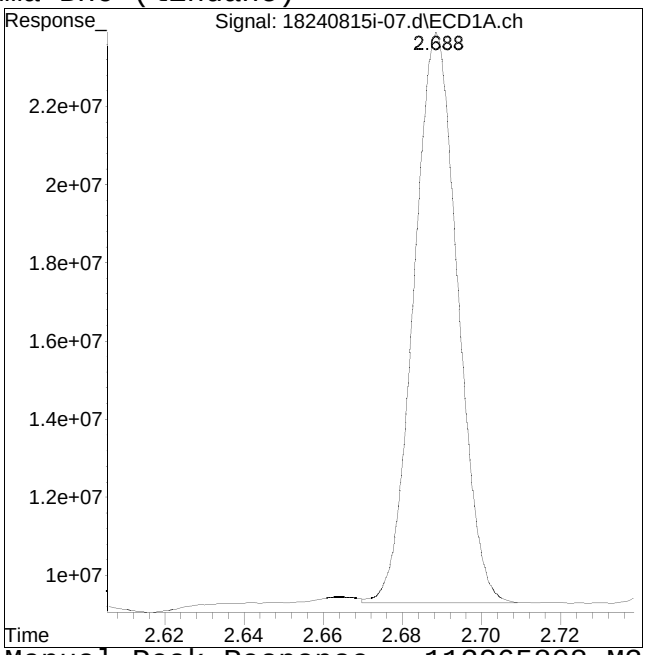
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #5: gamma-BHC (lindane)





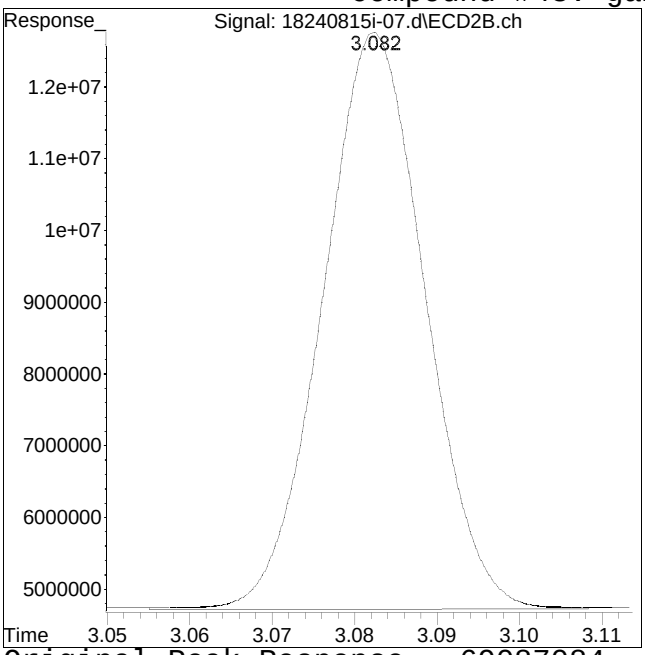
Original Peak Response = 136669334 Manual Peak Response = 112265808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

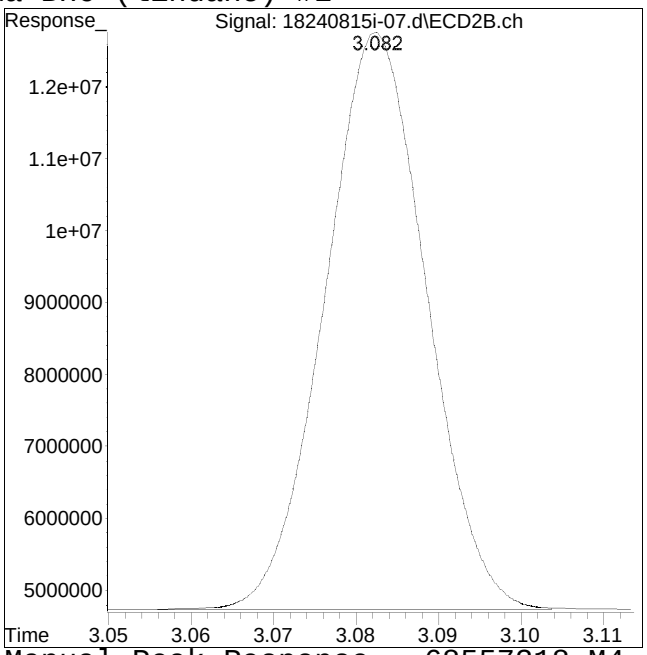
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-07.d
Date Inj'd : 8/15/2024 14:51
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:48 am

Compound #43: gamma-BHC (lindane) #2



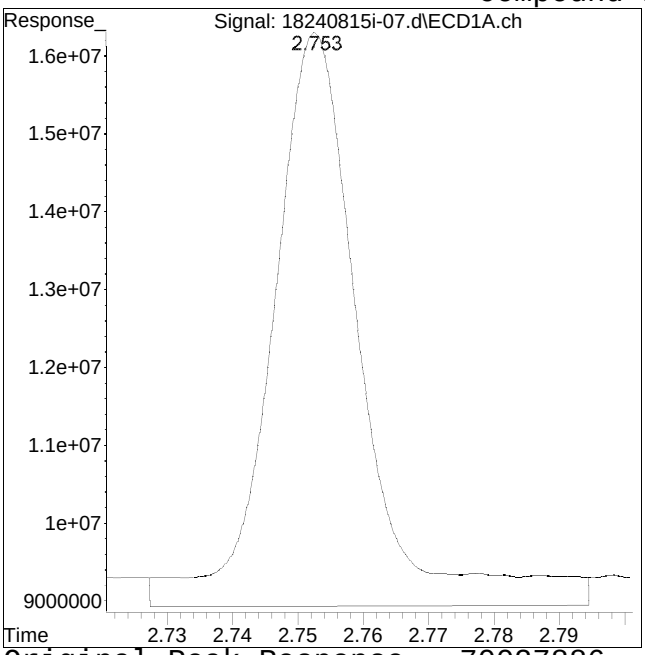


Original Peak Response = 69087084 Manual Peak Response = 68557318 M4
M4 = Poor automated baseline construction.

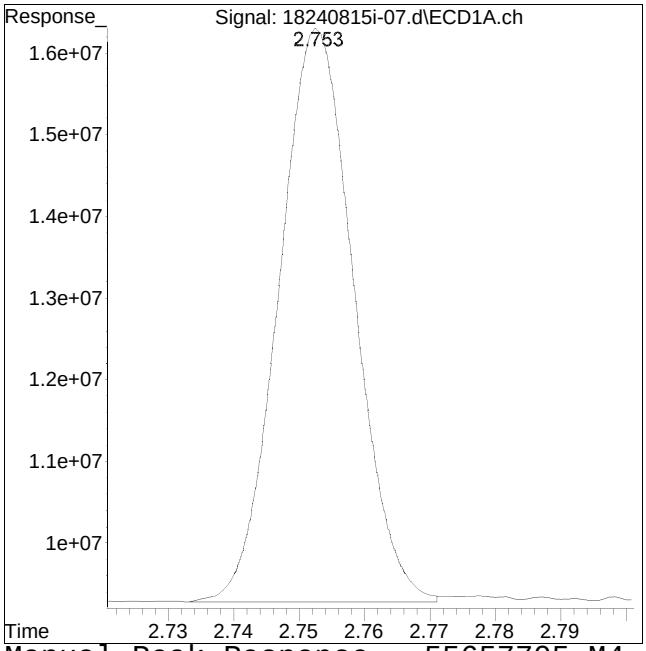
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #6: beta-BHC



Original Peak Response = 70027886



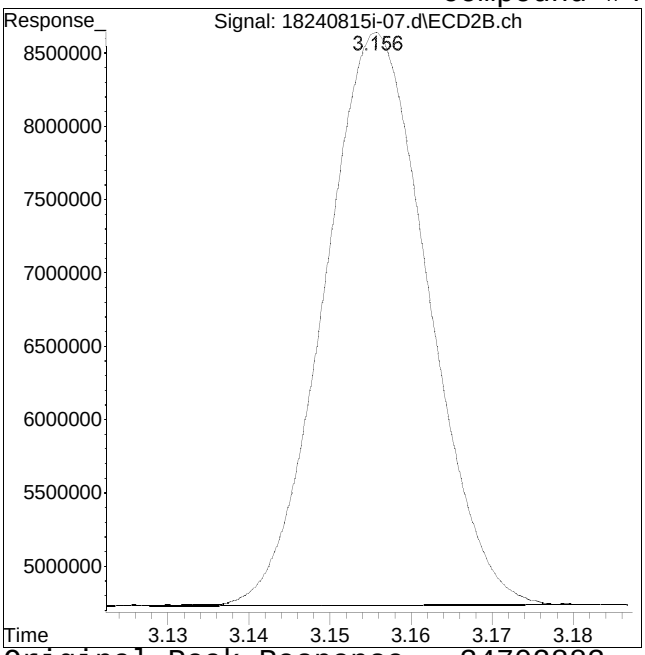
Manual Peak Response = 55657705 M4

M4 = Poor automated baseline construction.

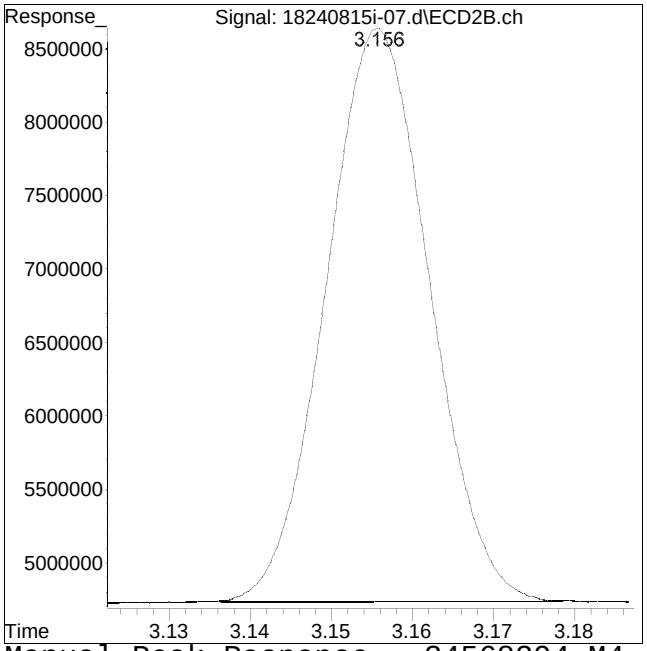
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #44: beta-BHC #2



Original Peak Response = 34702883



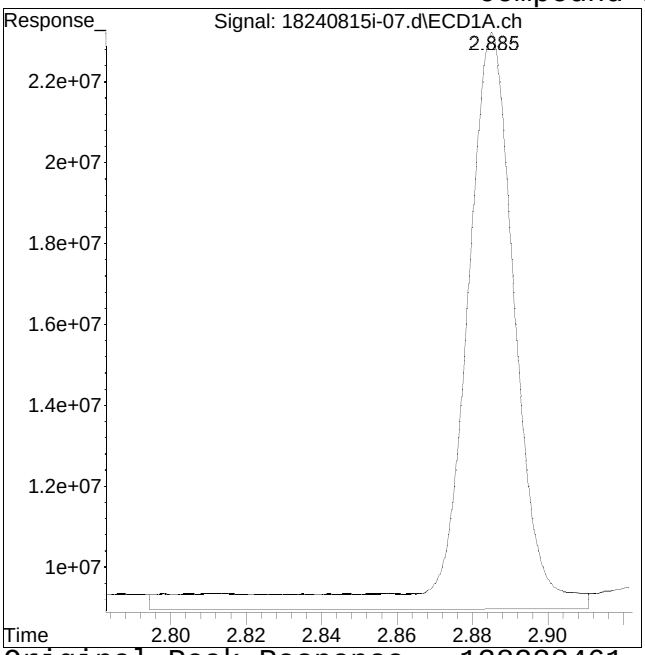
Manual Peak Response = 34568294 M4

M4 = Poor automated baseline construction.

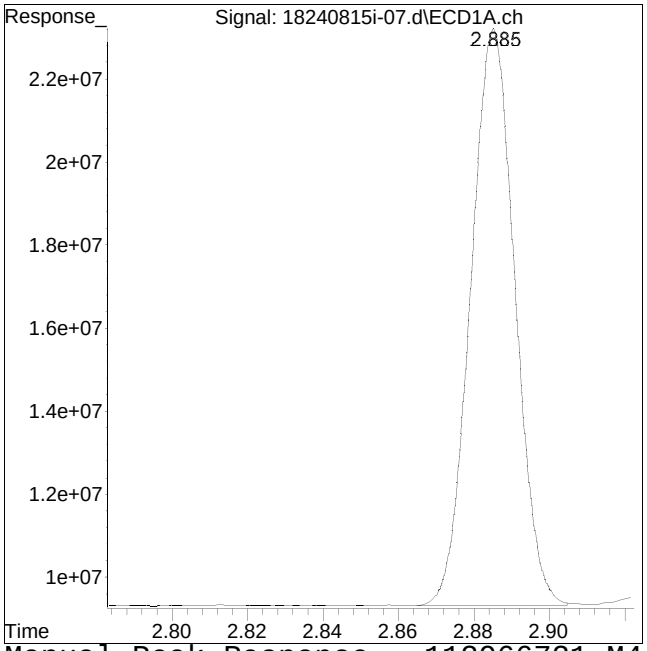
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #7: delta-BHC



Original Peak Response = 138222461

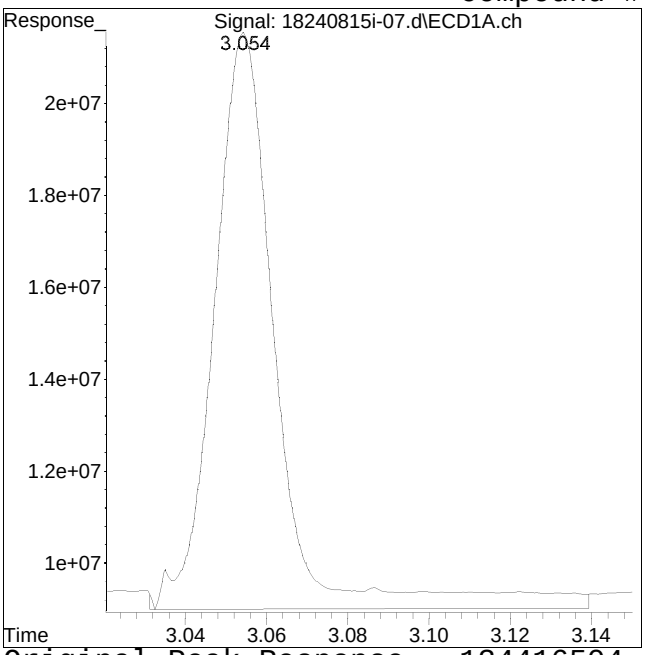


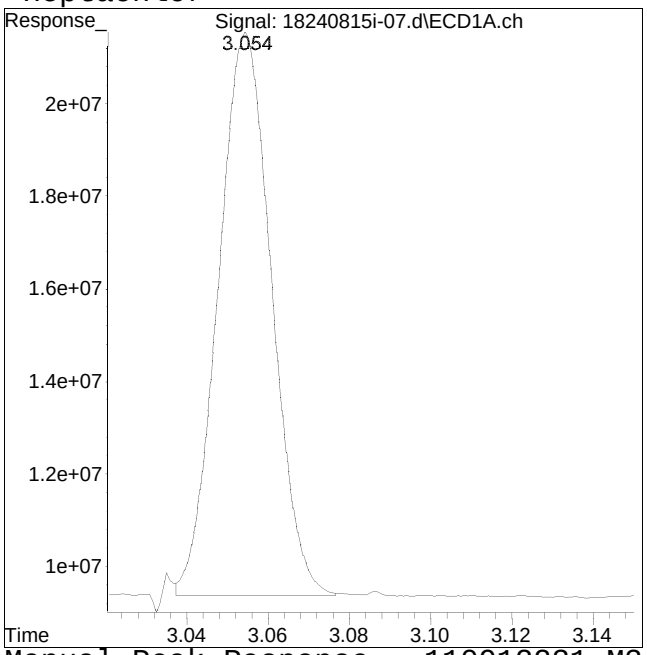
Manual Peak Response = 112966721 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #8: Heptachlor



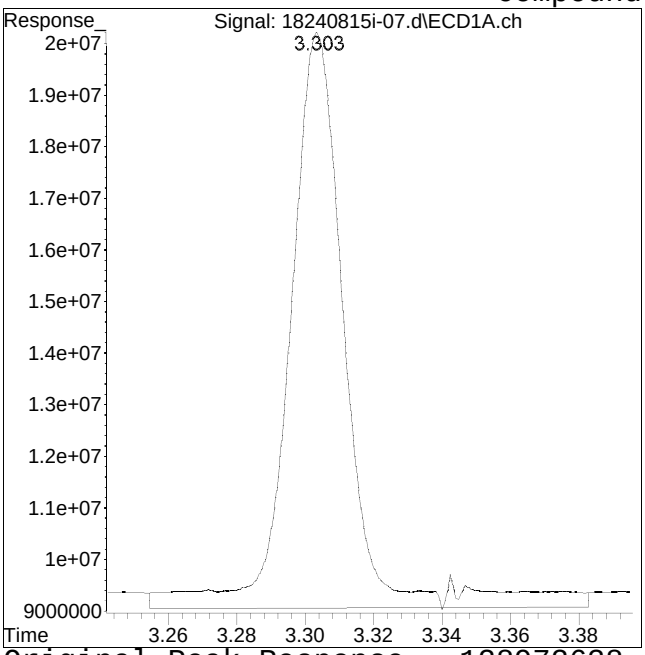


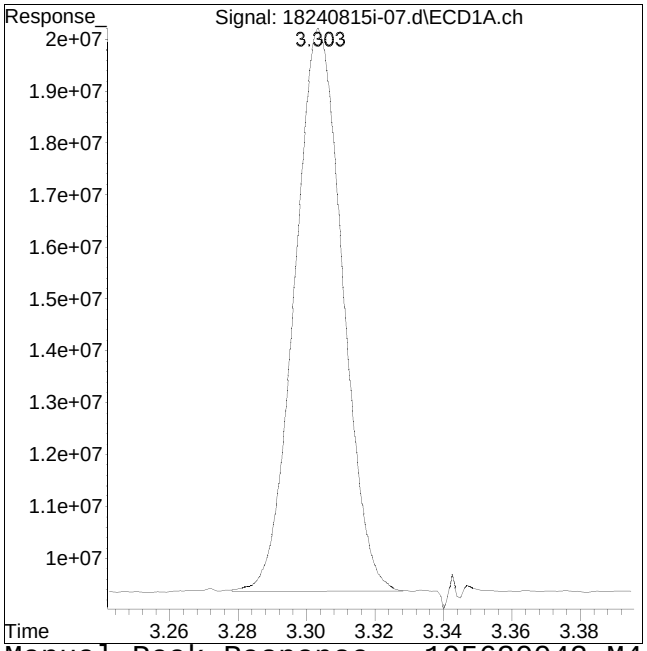
Original Peak Response = 134416504 Manual Peak Response = 110912231 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #9: Aldrin



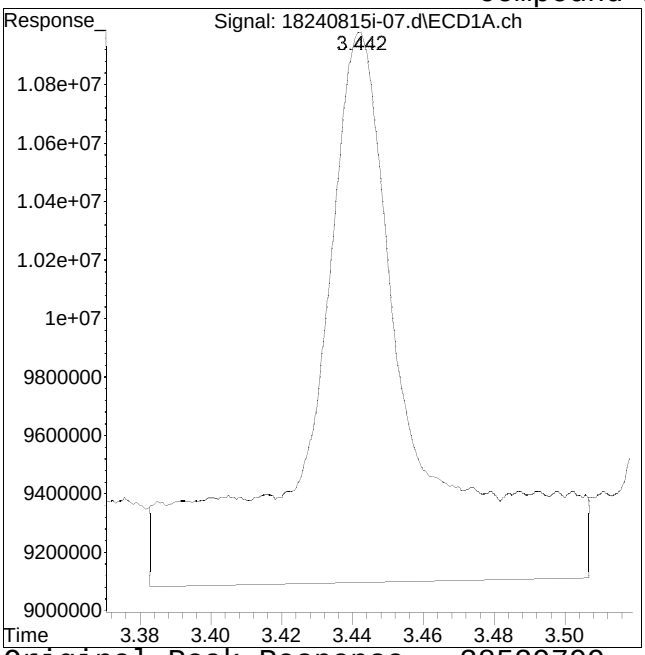


Original Peak Response = 128972638 Manual Peak Response = 105630042 M4
M4 = Poor automated baseline construction.

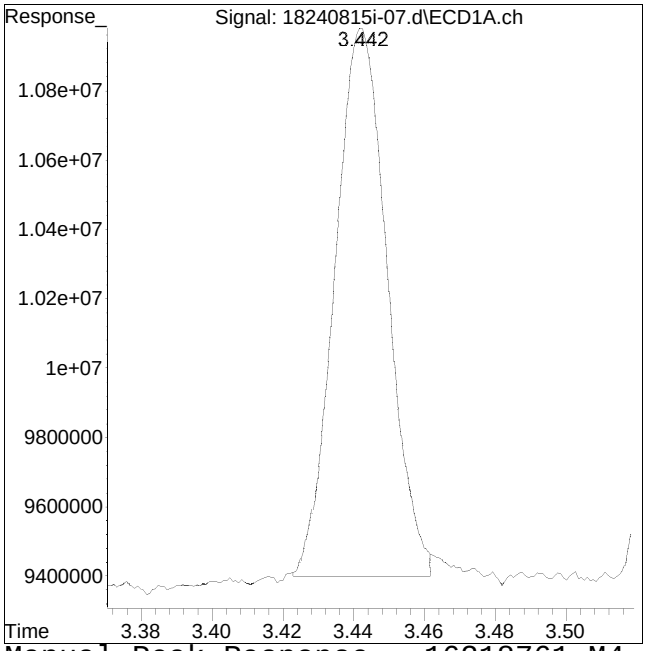
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #10: Alachlor



Original Peak Response = 38529799

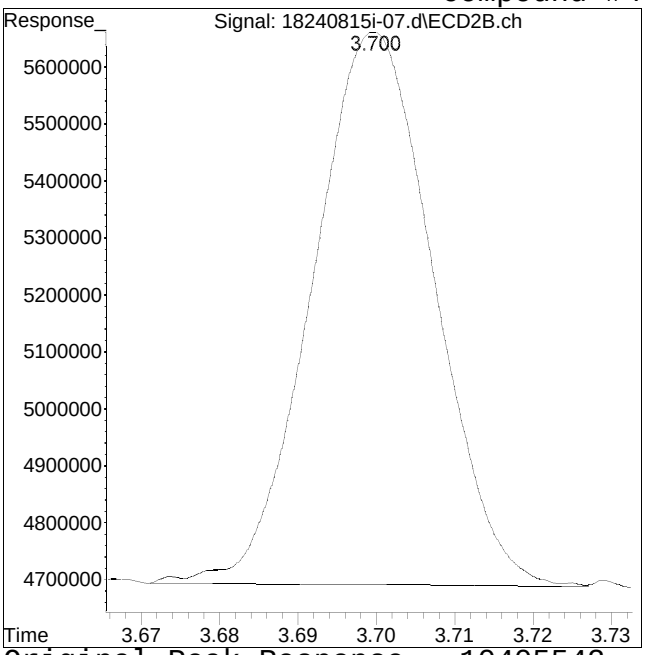


Manual Peak Response = 16218761 M4
M4 = Poor automated baseline construction.

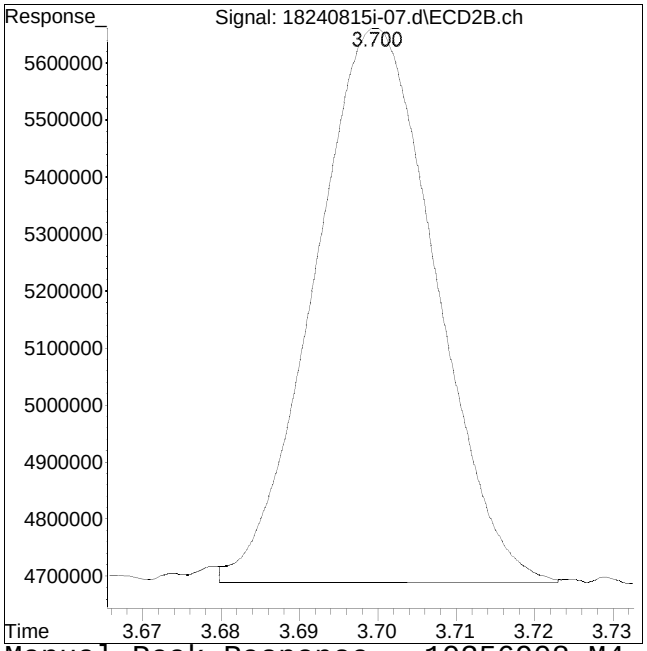
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #48: Alachlor #2



Original Peak Response = 10405542



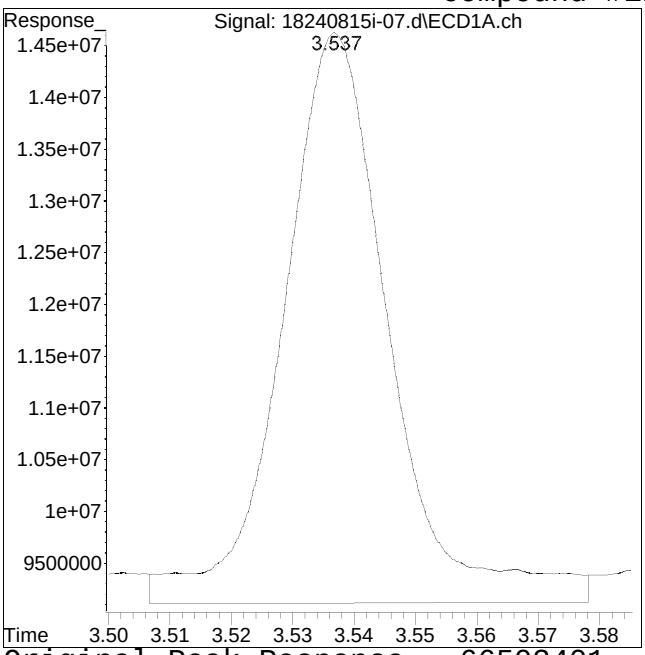
Manual Peak Response = 10356908 M4

M4 = Poor automated baseline construction.

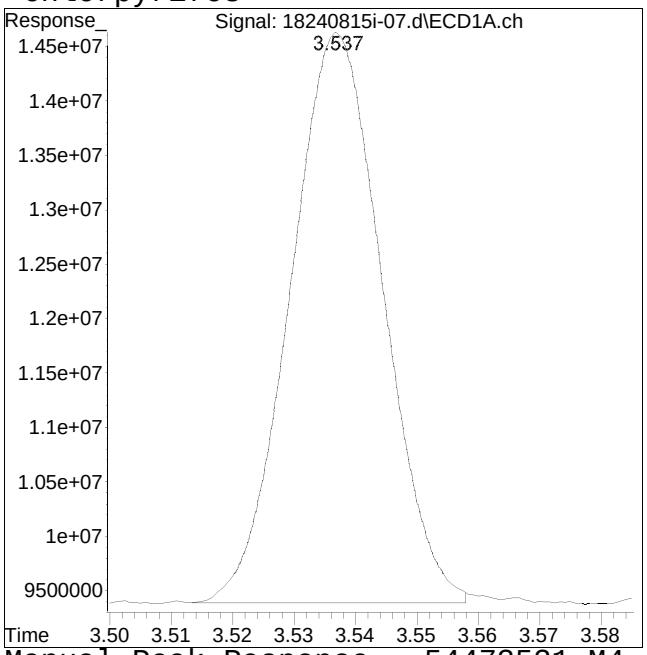
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #11: Chlorpyrifos



Original Peak Response = 66503401



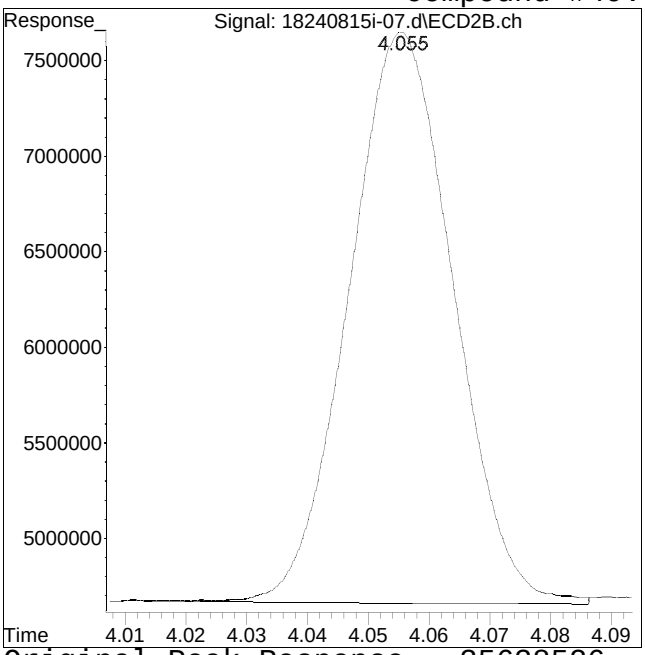
Manual Peak Response = 54473531 M4

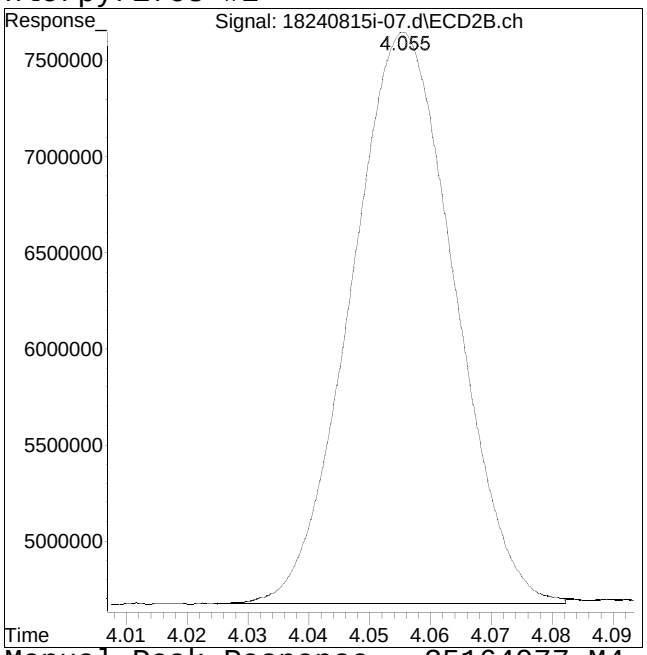
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #49: Chlorpyrifos #2



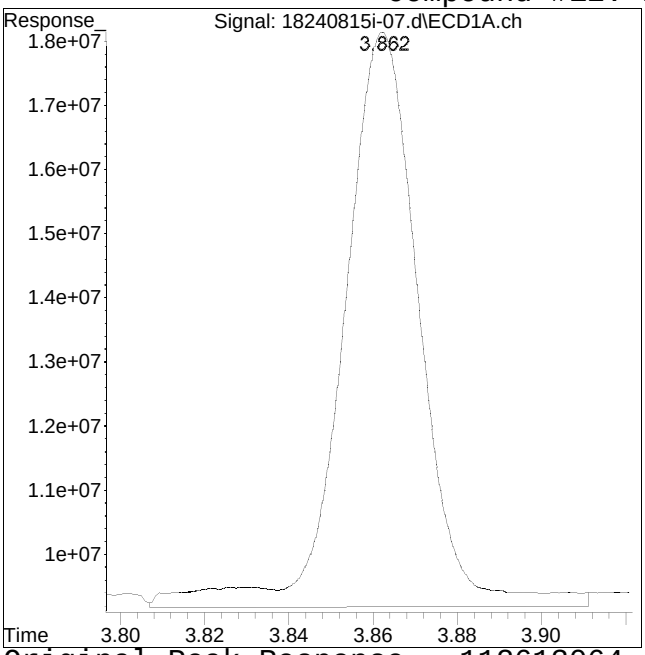


Original Peak Response = 35638526 Manual Peak Response = 35164077 M4
M4 = Poor automated baseline construction.

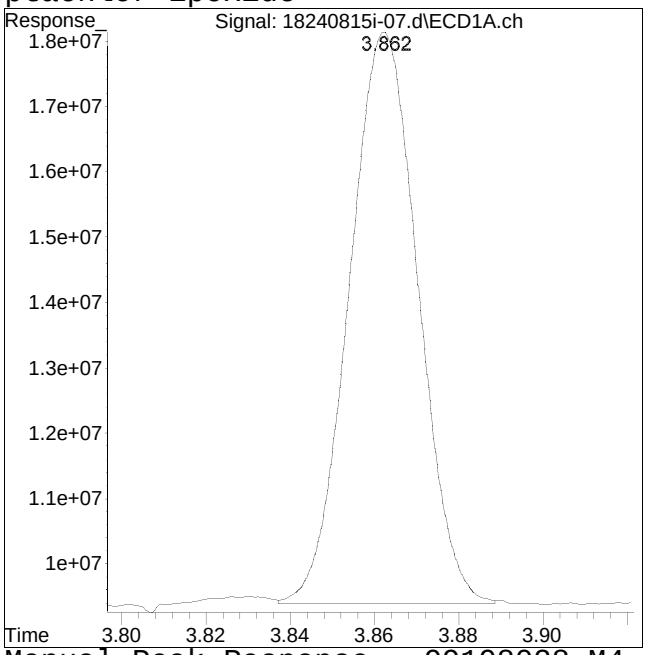
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 112613064



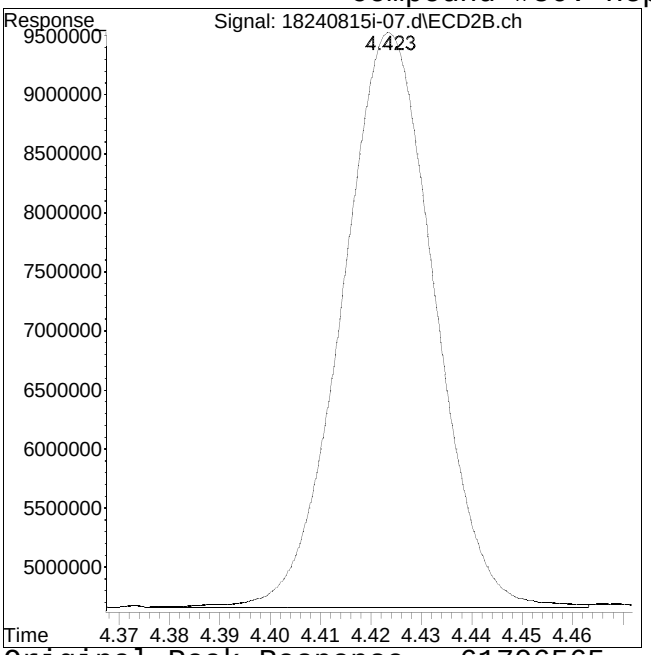
Manual Peak Response = 99198028 M4

M4 = Poor automated baseline construction.

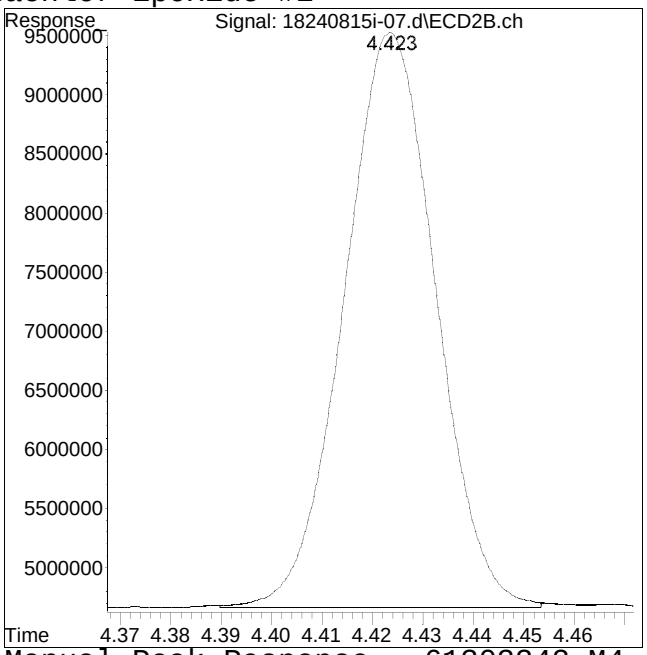
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 61706565



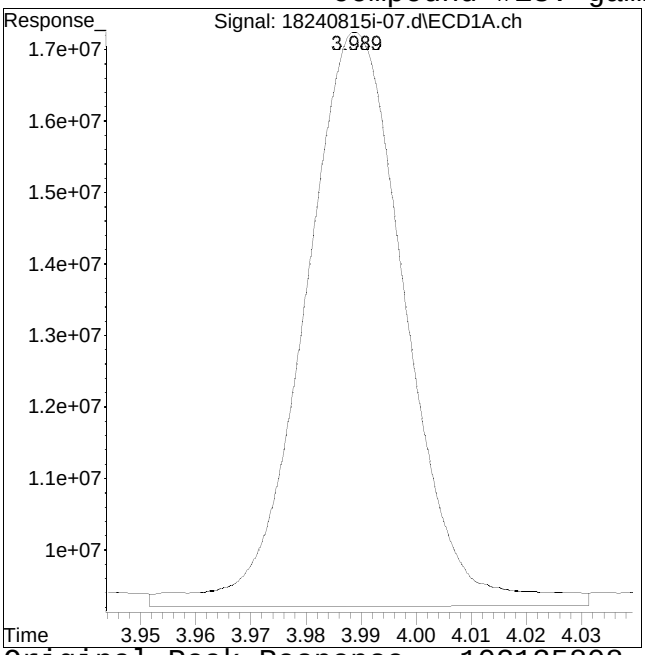
Manual Peak Response = 61303342 M4

M4 = Poor automated baseline construction.

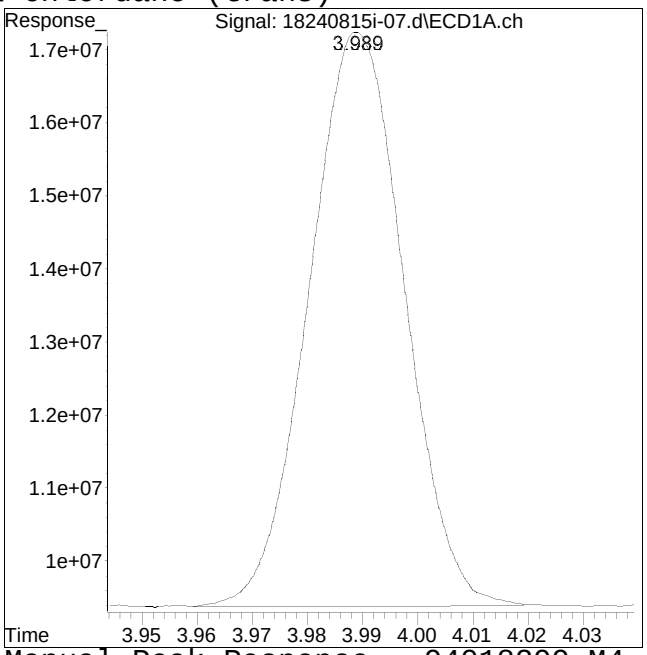
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 102135808

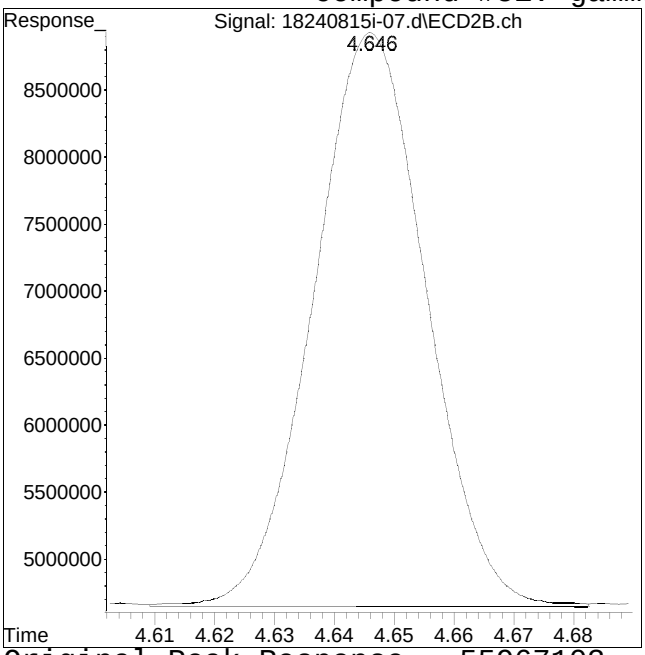


Manual Peak Response = 94018299 M4
M4 = Poor automated baseline construction.

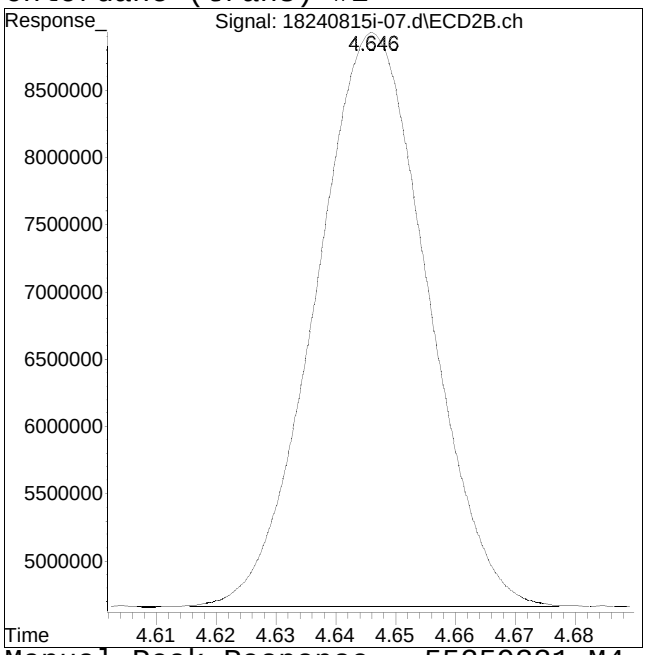
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 55967103



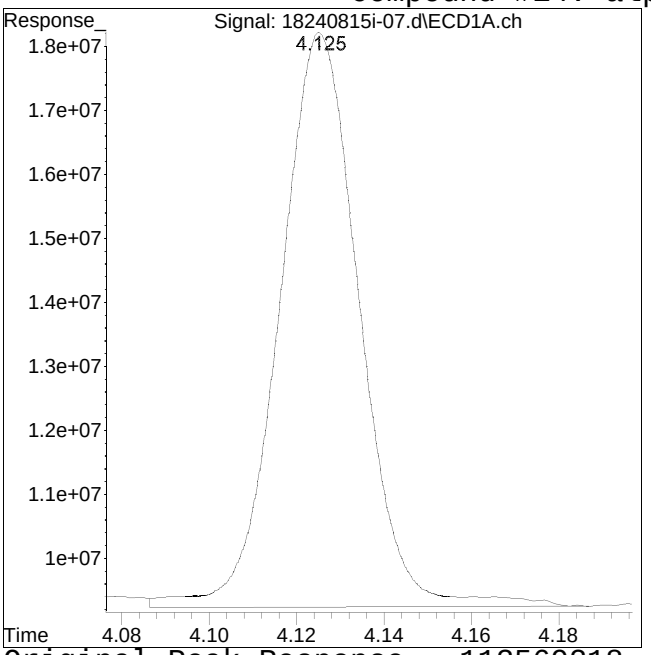
Manual Peak Response = 55259331 M4

M4 = Poor automated baseline construction.

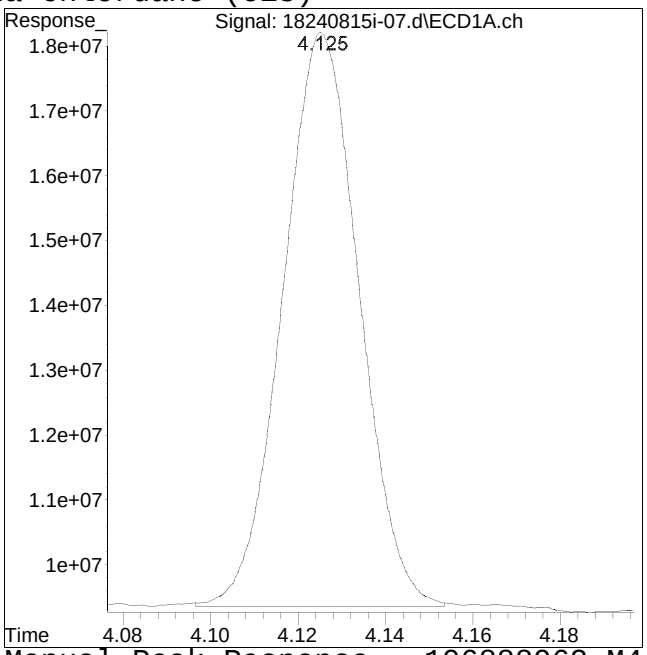
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 113569218



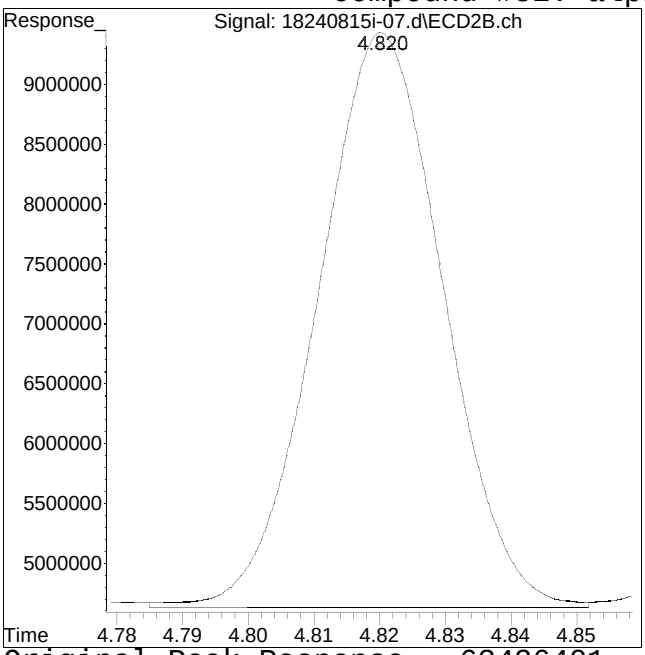
Manual Peak Response = 106888962 M4

M4 = Poor automated baseline construction.

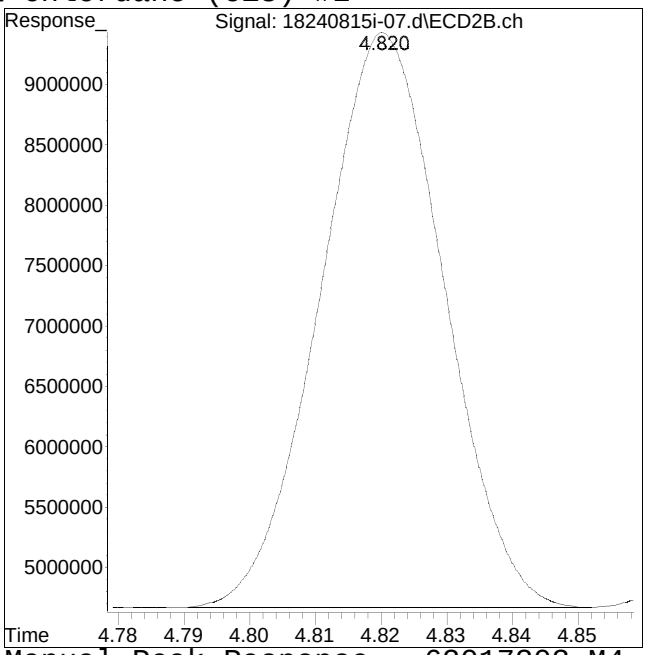
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 63426401



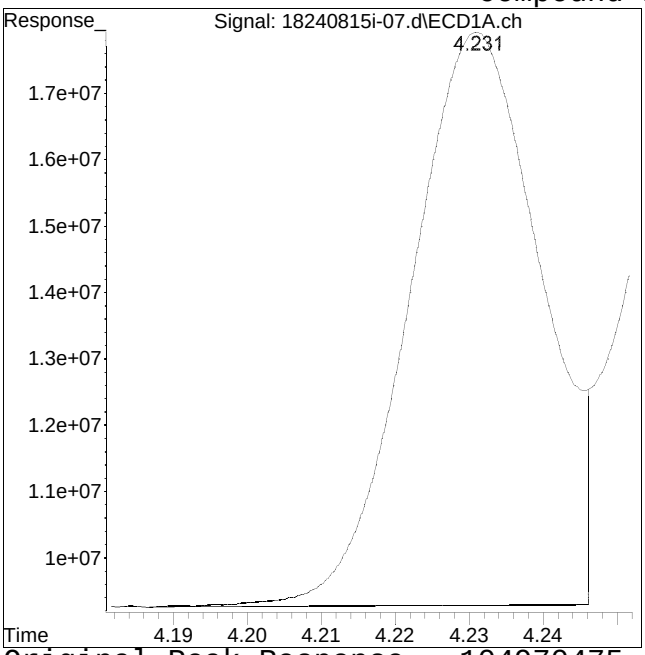
Manual Peak Response = 62017303 M4

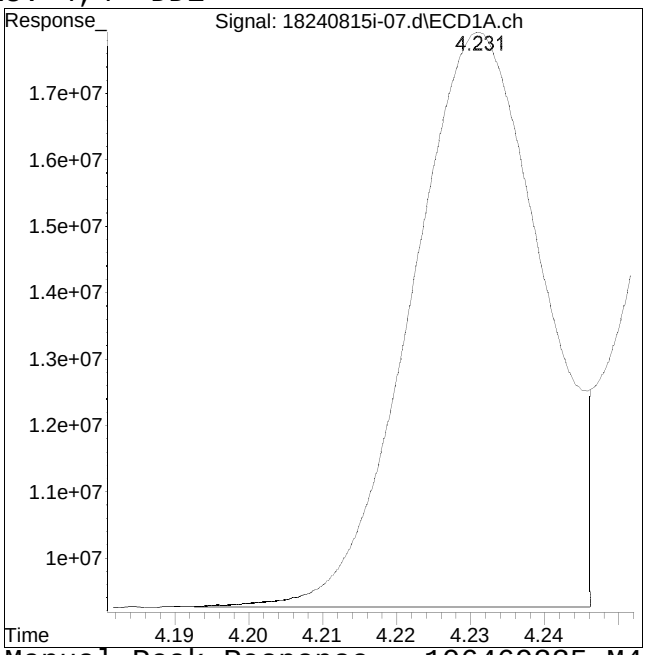
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #15: 4,4'-DDE



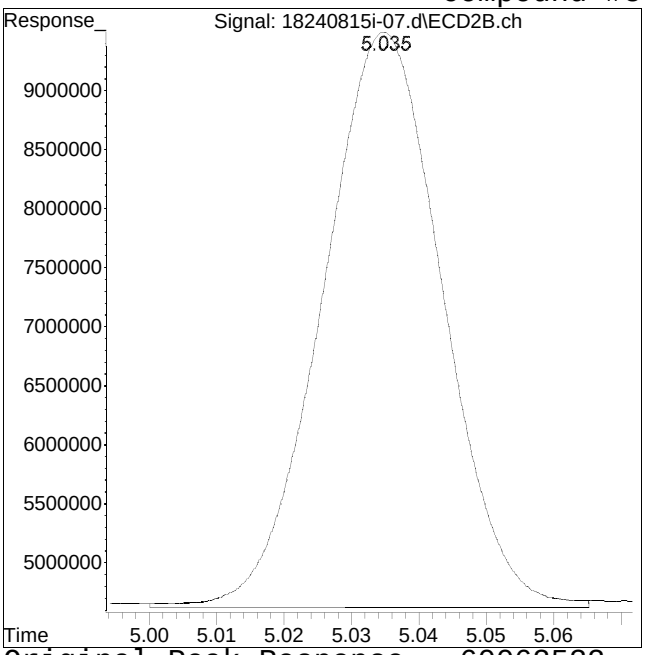


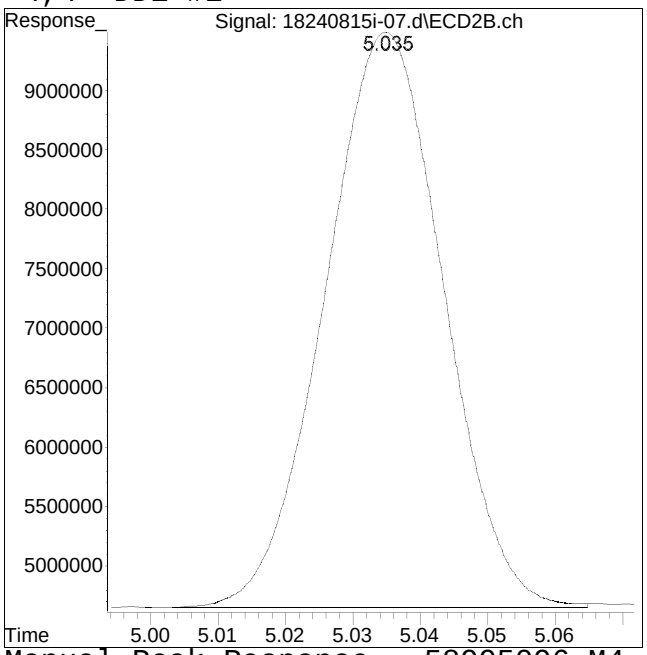
Original Peak Response = 104970475 Manual Peak Response = 106469335 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #53: 4,4'-DDE #2



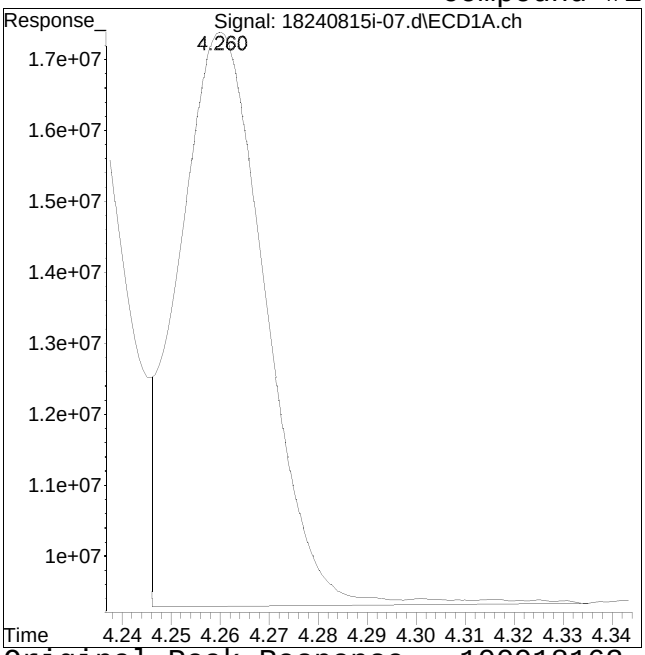


Original Peak Response = 60062532 Manual Peak Response = 58995096 M4
M4 = Poor automated baseline construction.

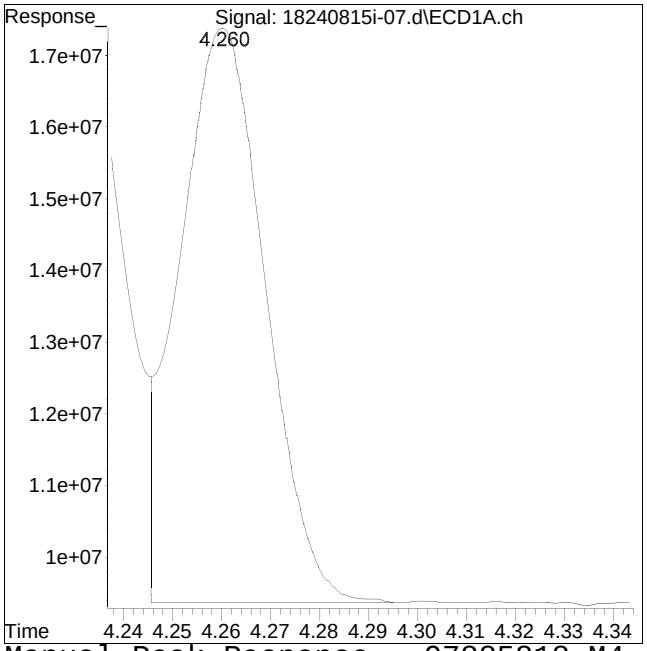
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q Method : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0 Quant Date : 8/16/2024 7:48 am

Compound #16: Endosulfan I



Original Peak Response = 100918163



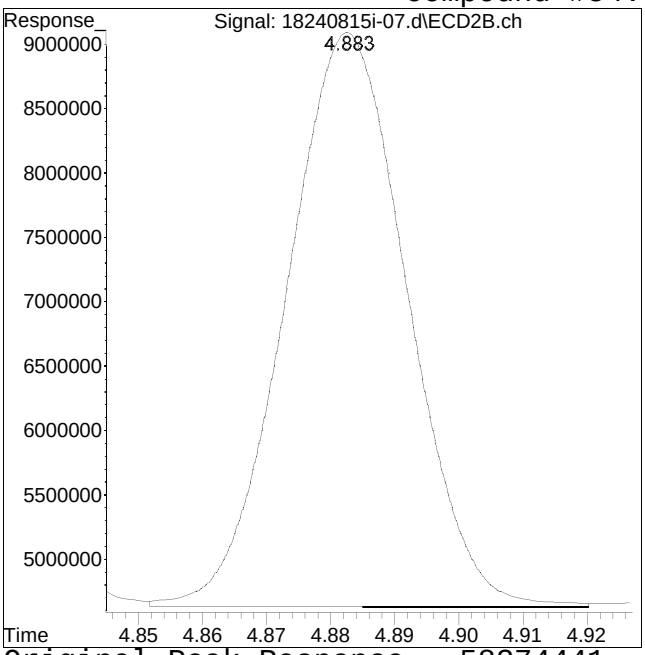
Manual Peak Response = 97885818 M4

M4 = Poor automated baseline construction.

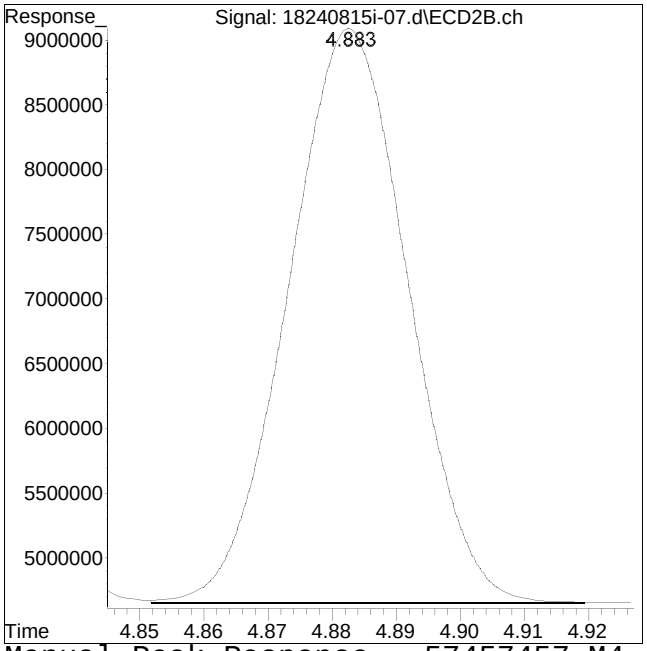
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #54: Endosulfan I #2



Original Peak Response = 58374441



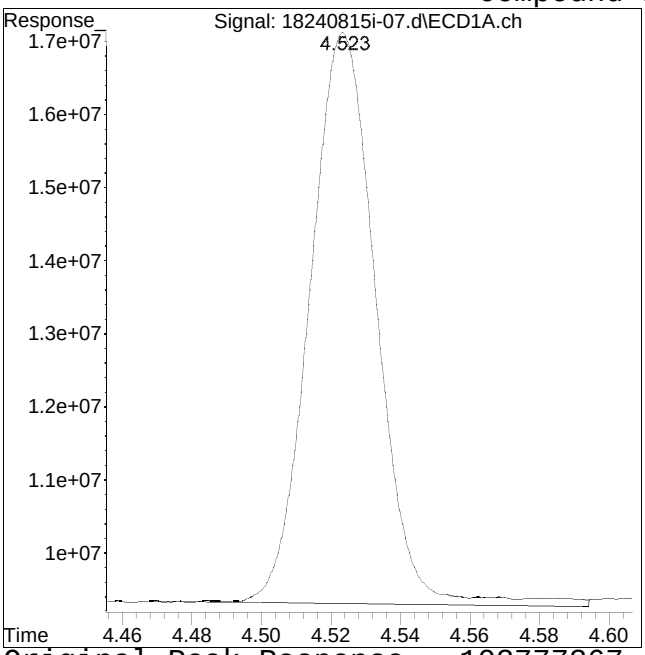
Manual Peak Response = 57457457 M4

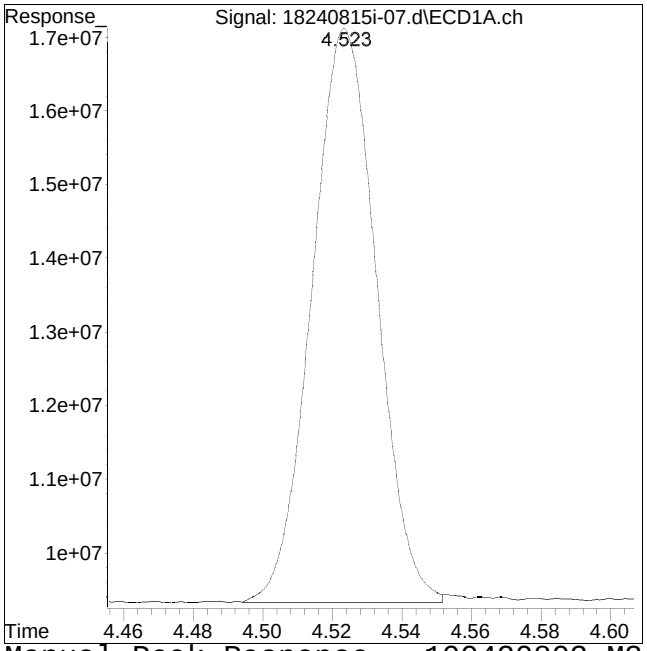
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #17: Dieldrin



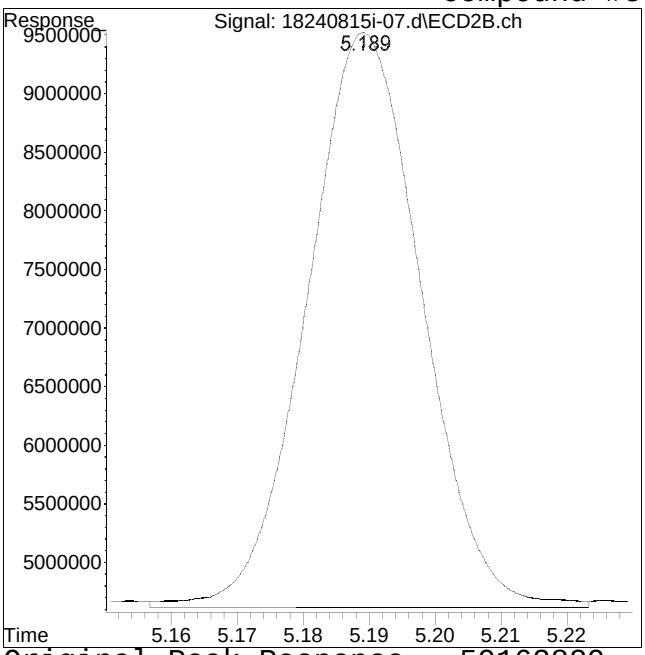


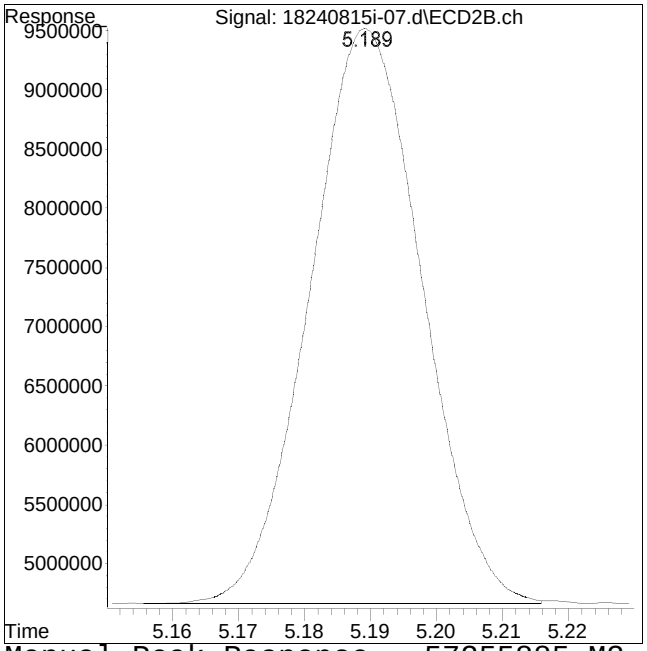
Original Peak Response = 103777367 Manual Peak Response = 100420803 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #55: Dieldrin #2



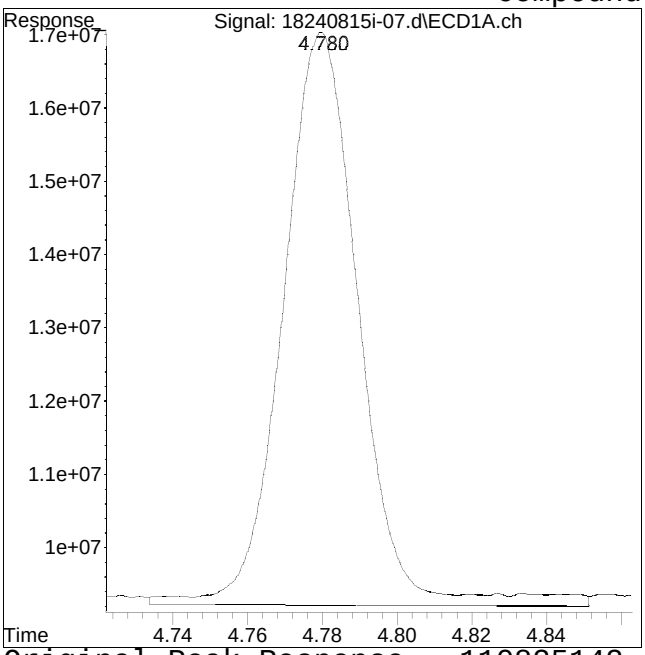


Original Peak Response = 59162829 Manual Peak Response = 57255885 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

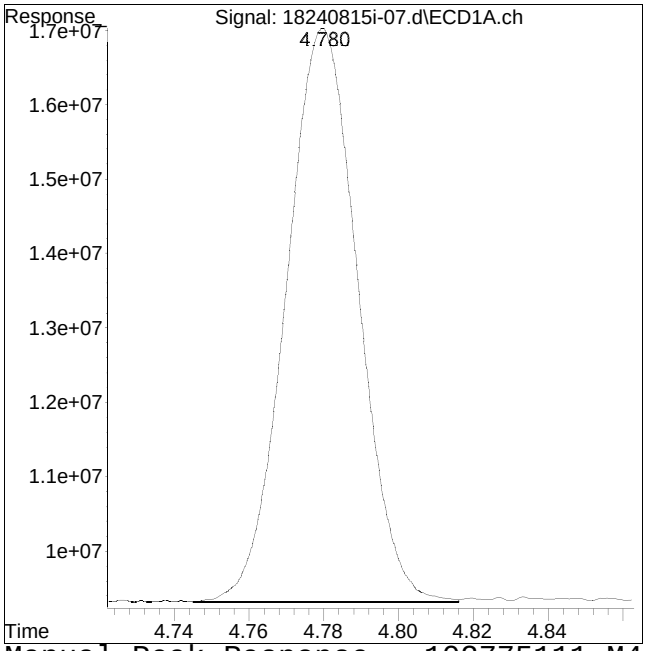
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #18: Endrin



Original Peak Response = 110825142



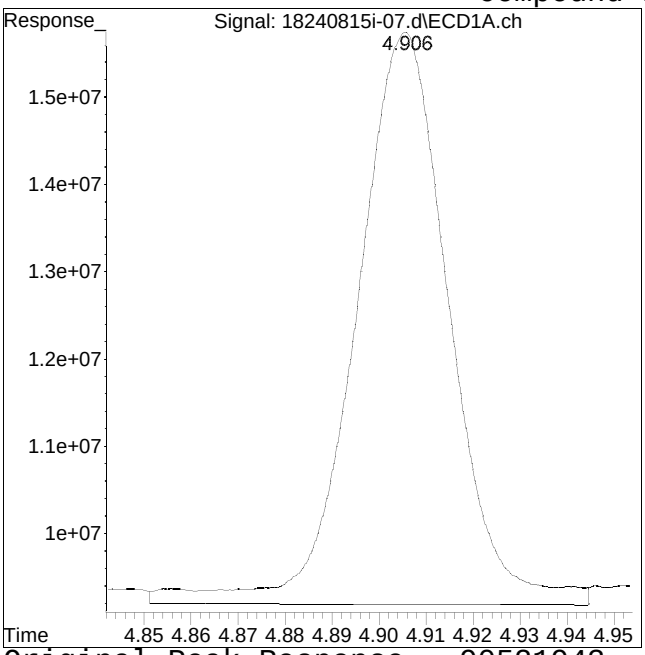
Manual Peak Response = 102775111 M4

M4 = Poor automated baseline construction.

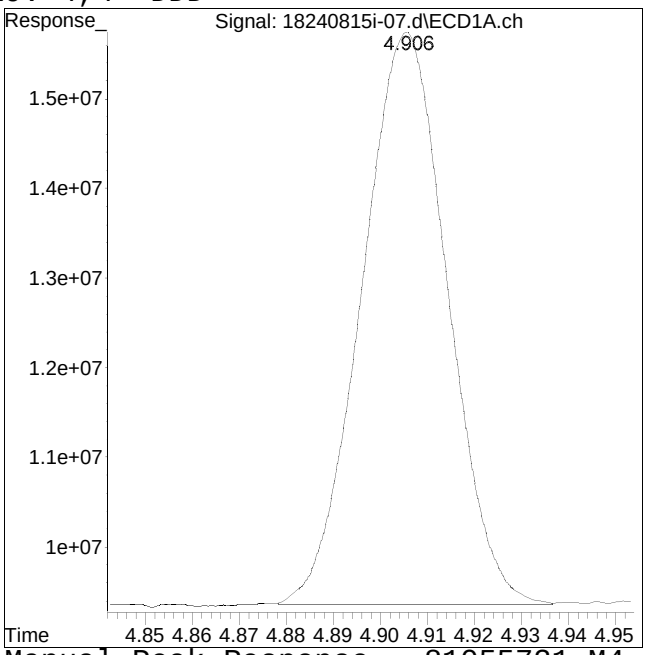
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #19: 4,4'-DDD



Original Peak Response = 90521943



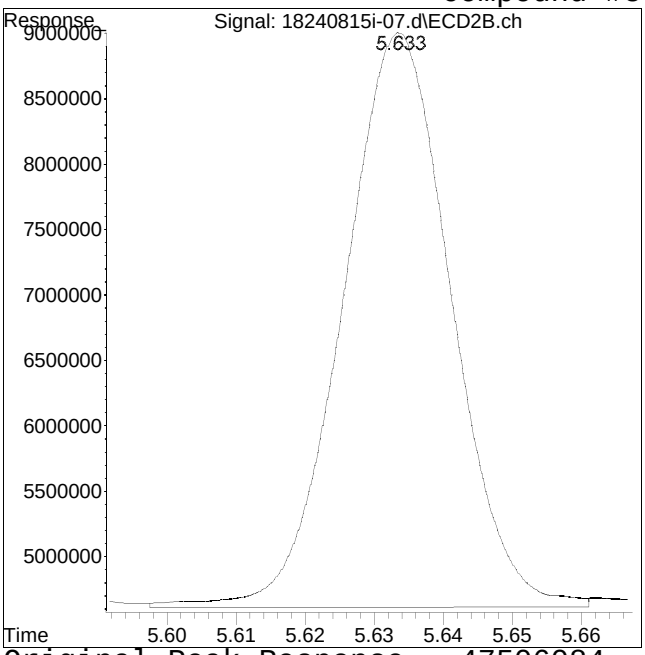
Manual Peak Response = 81055731 M4

M4 = Poor automated baseline construction.

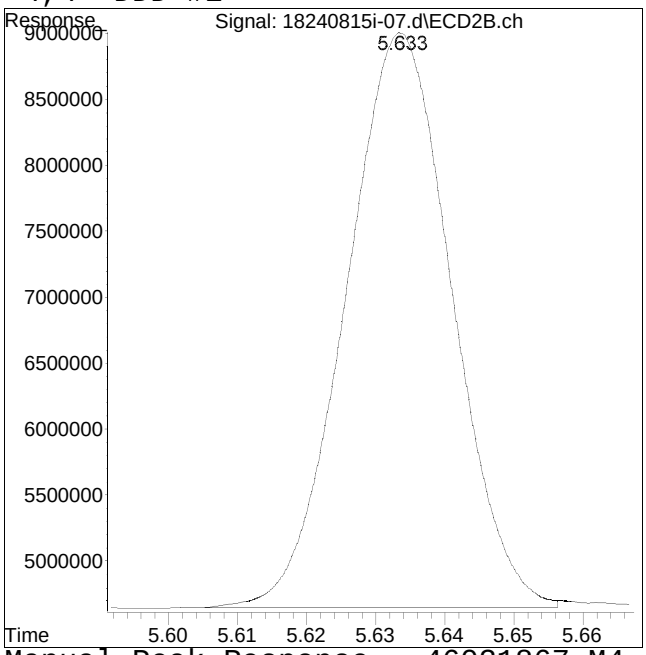
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 47506084



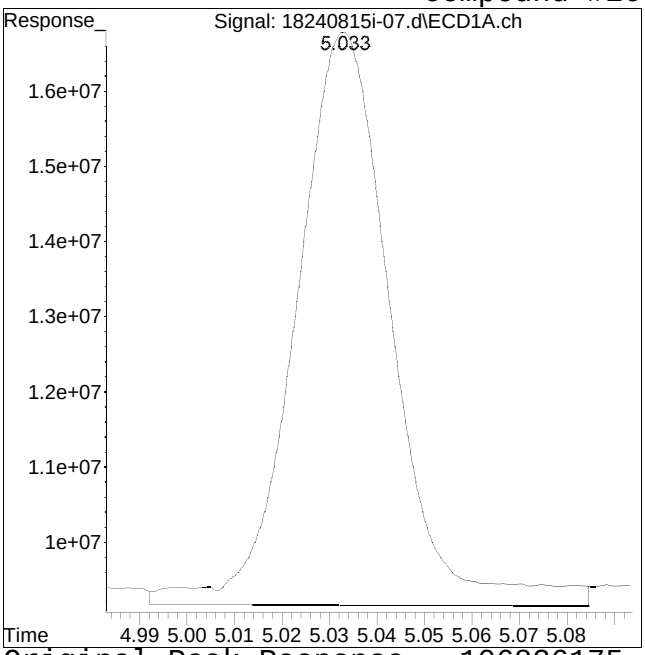
Manual Peak Response = 46031867 M4

M4 = Poor automated baseline construction.

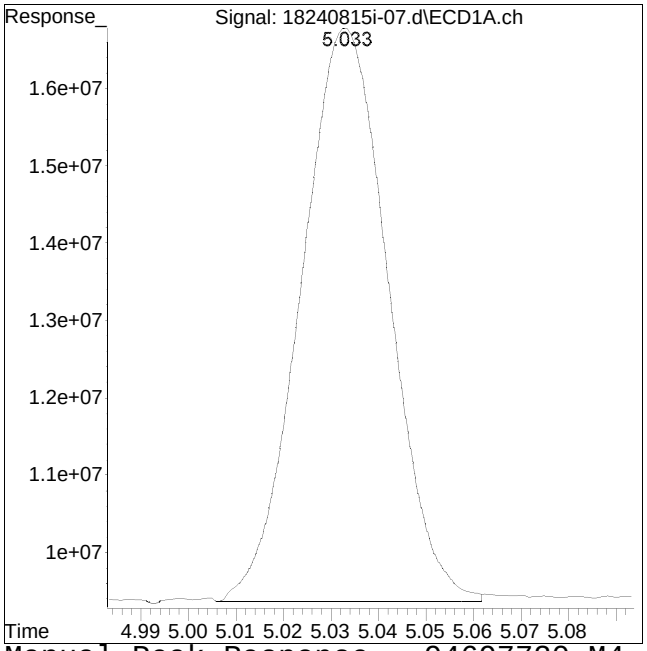
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #20: Endosulfan II



Original Peak Response = 106826175



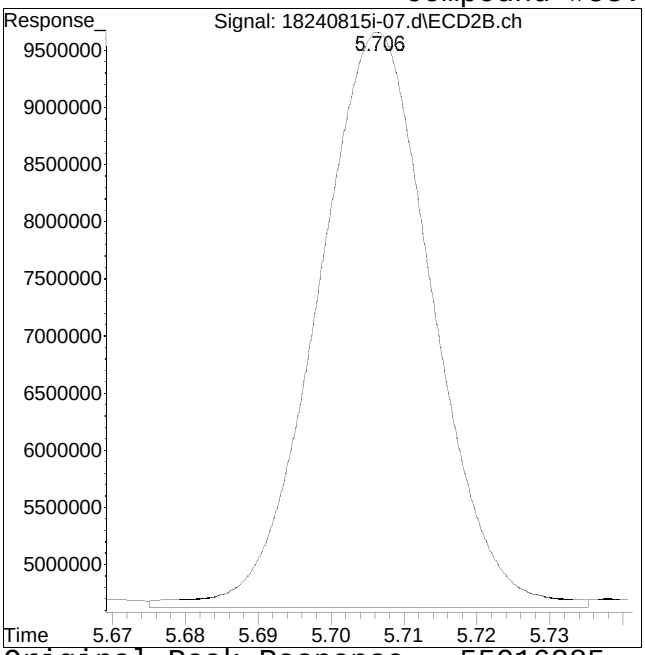
Manual Peak Response = 94697720 M4

M4 = Poor automated baseline construction.

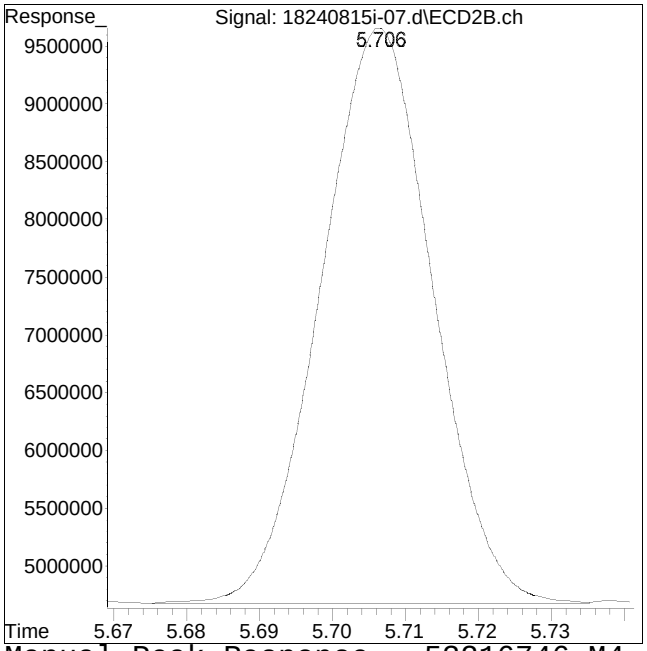
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #58: Endosulfan II #2



Original Peak Response = 55016285



Manual Peak Response = 53216746 M4

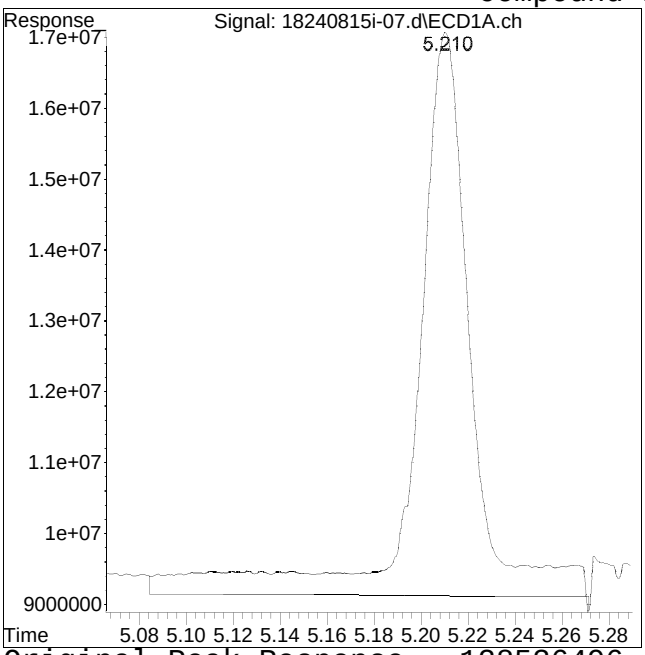
M4 = Poor automated baseline construction.

Manual Integration Report

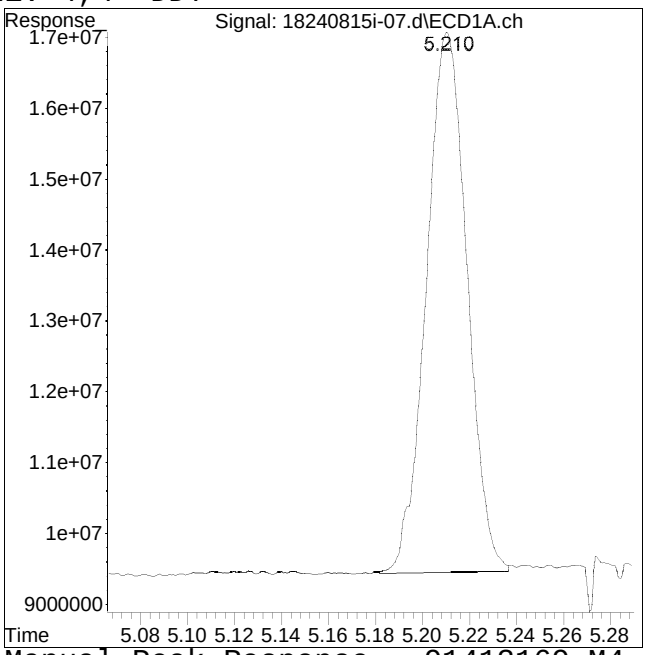
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-07.d
Date Inj'd : 8/15/2024 14:51
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:48 am

Compound #21: 4,4'-DDT



Original Peak Response = 128536496



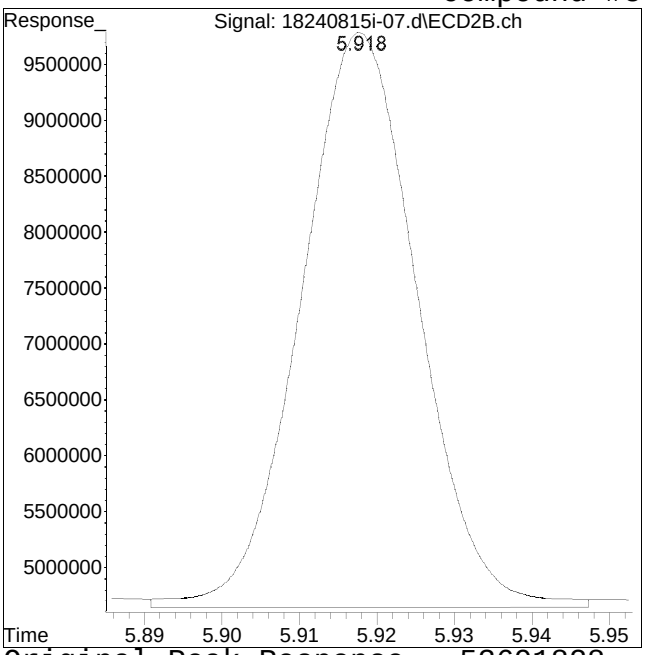
Manual Peak Response = 91413169 M4

M4 = Poor automated baseline construction.

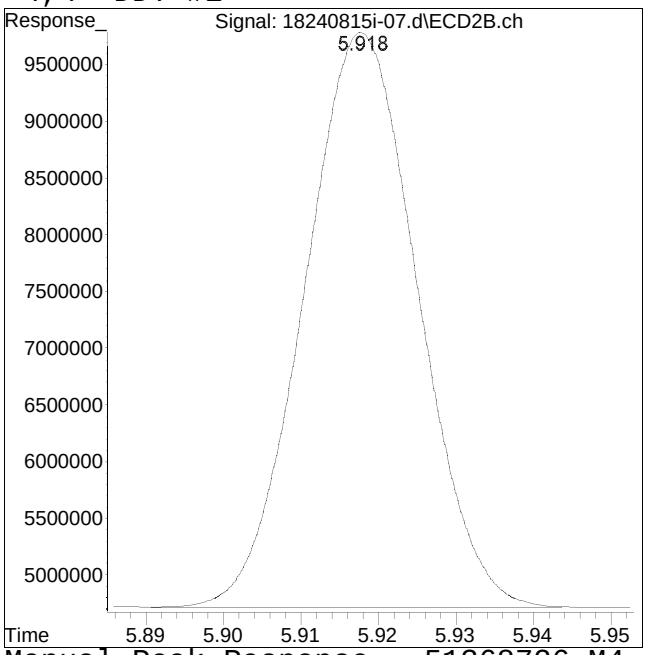
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 53691828



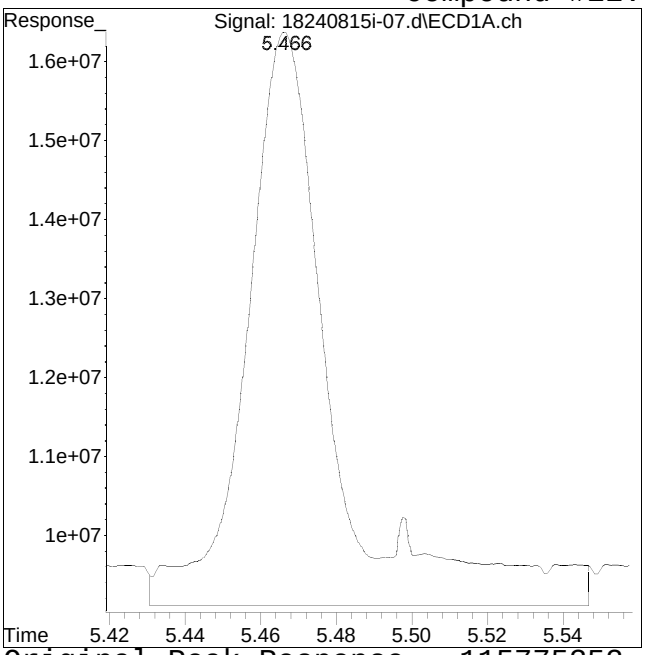
Manual Peak Response = 51368726 M4

M4 = Poor automated baseline construction.

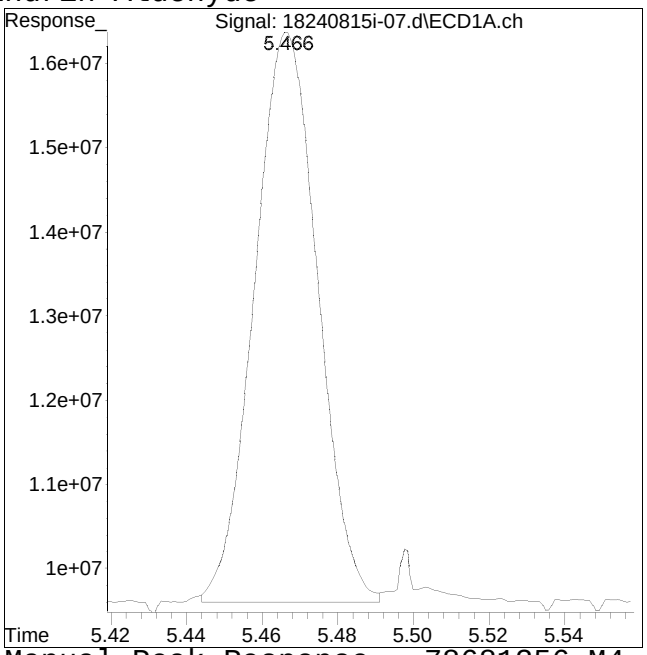
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #22: Endrin Aldehyde



Original Peak Response = 115775352

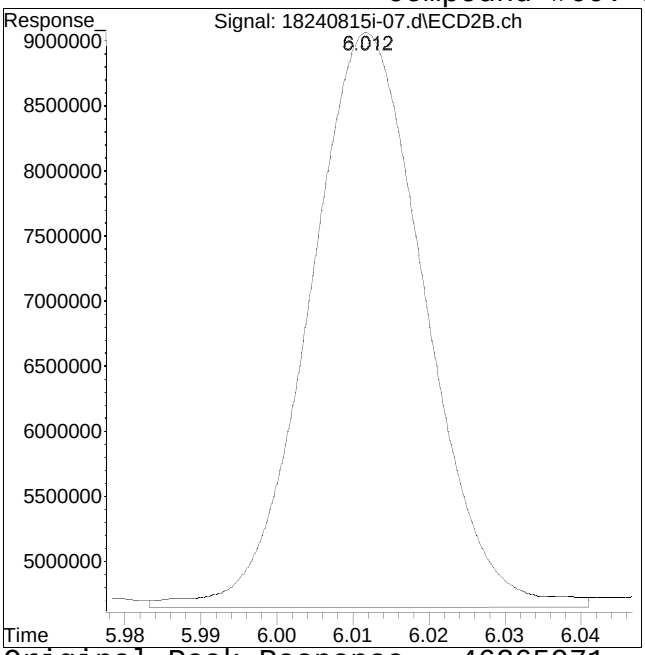


Manual Peak Response = 78681356 M4
M4 = Poor automated baseline construction.

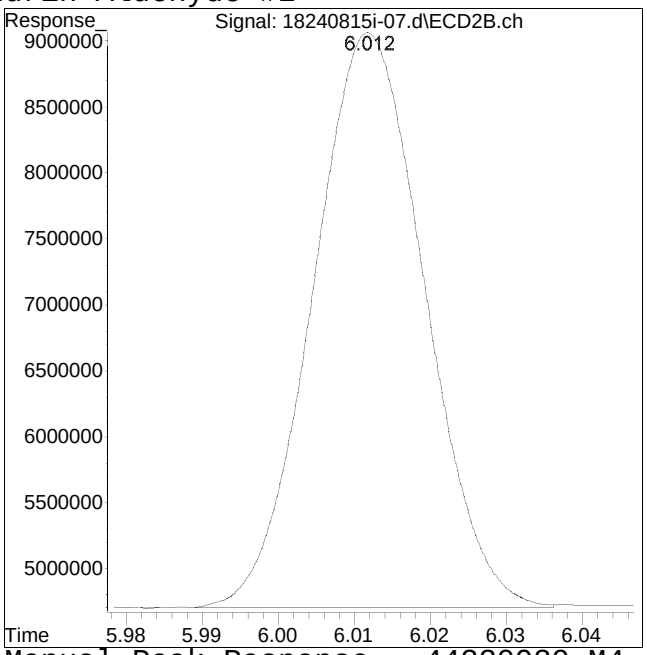
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 46265971



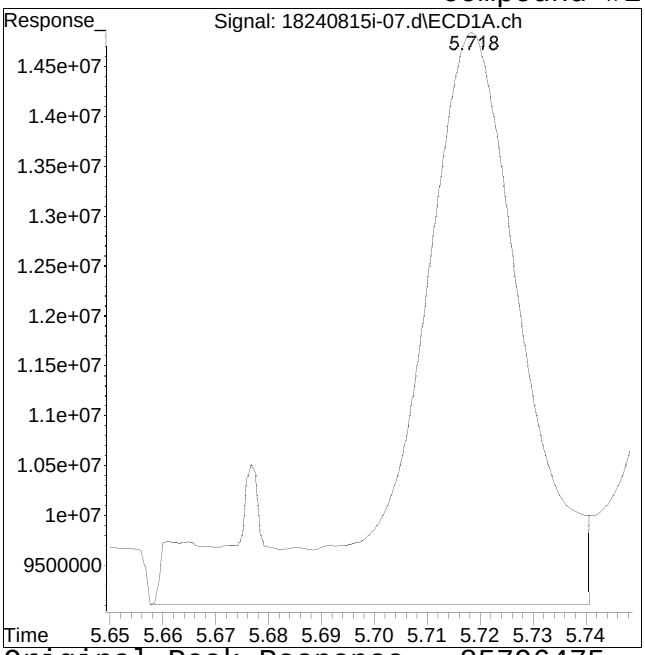
Manual Peak Response = 44230939 M4

M4 = Poor automated baseline construction.

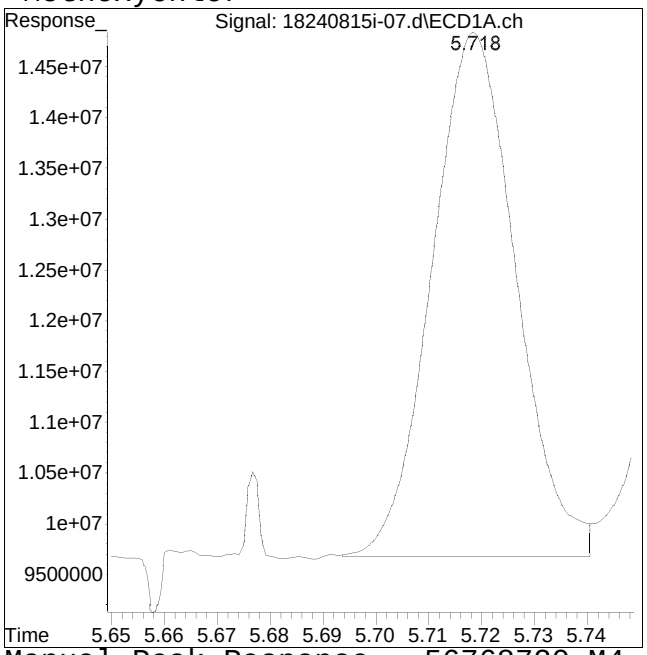
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #23: Methoxychlor



Original Peak Response = 85796475



Manual Peak Response = 56768720 M4

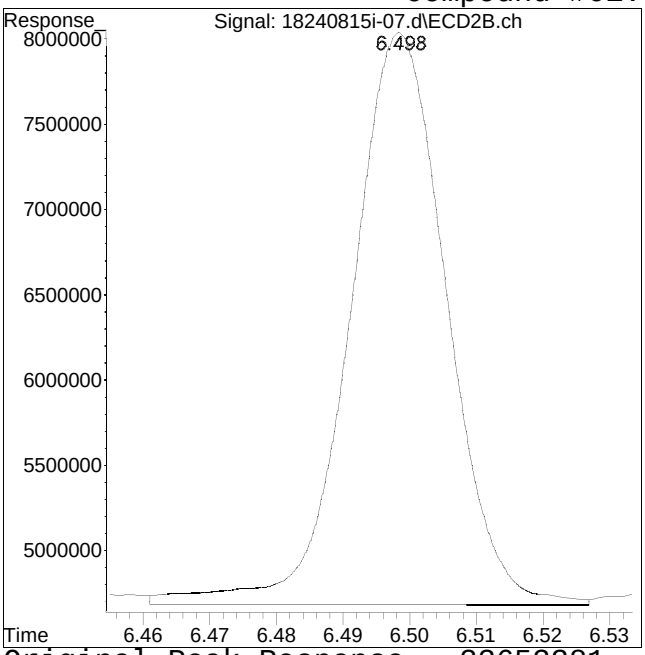
M4 = Poor automated baseline construction.

Manual Integration Report

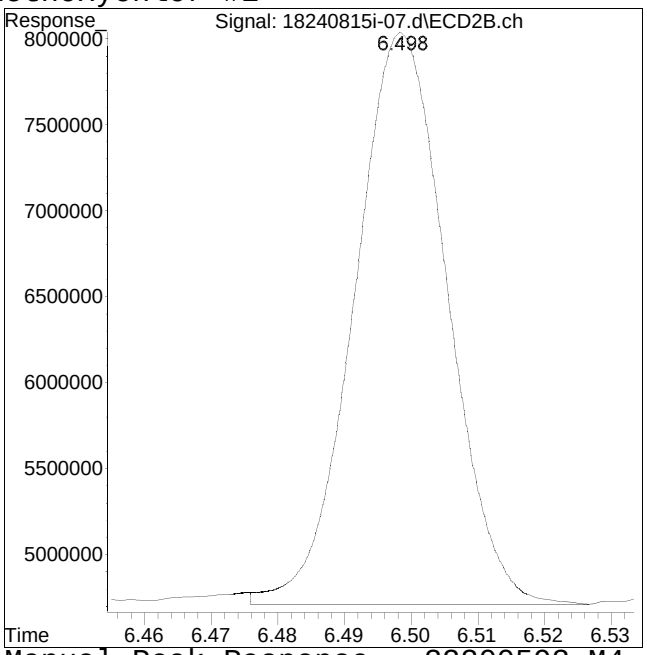
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-07.d
Date Inj'd : 8/15/2024 14:51
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:48 am

Compound #61: Methoxychlor #2



Original Peak Response = 33653381



Manual Peak Response = 32200593 M4

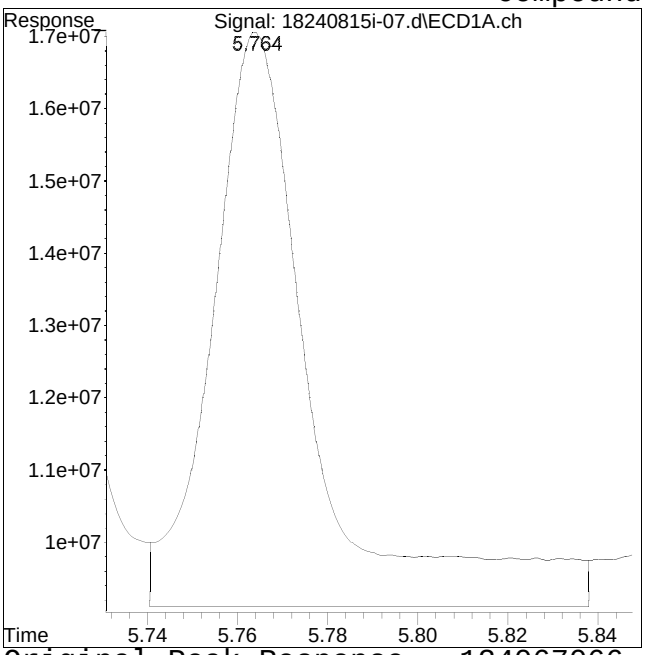
M4 = Poor automated baseline construction.

Manual Integration Report

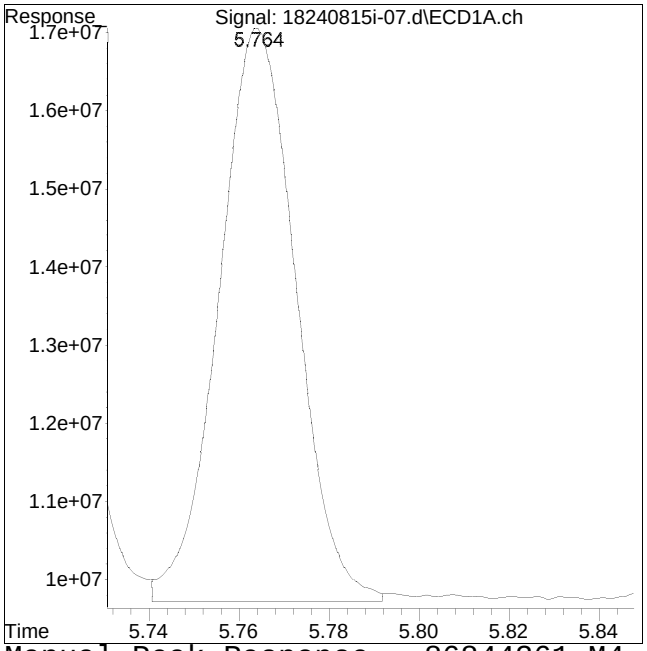
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-07.d
Date Inj'd : 8/15/2024 14:51
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:48 am

Compound #24: Mirex



Original Peak Response = 124067066



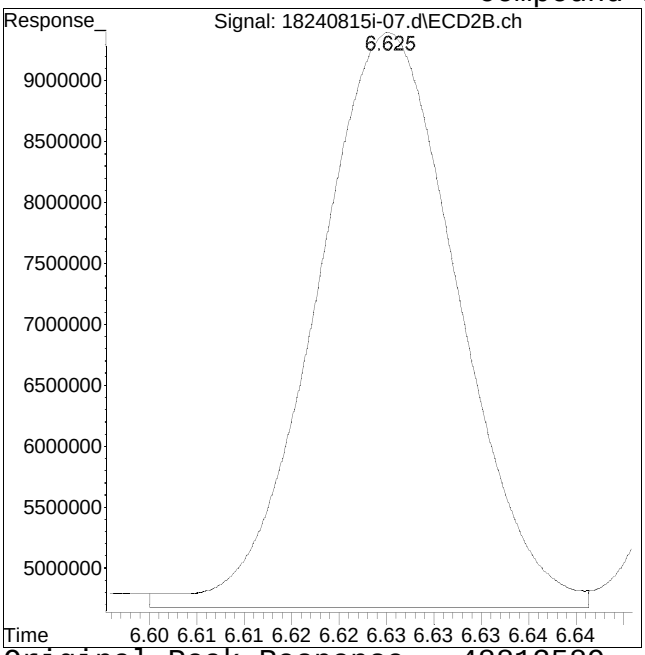
Manual Peak Response = 86844361 M4

M4 = Poor automated baseline construction.

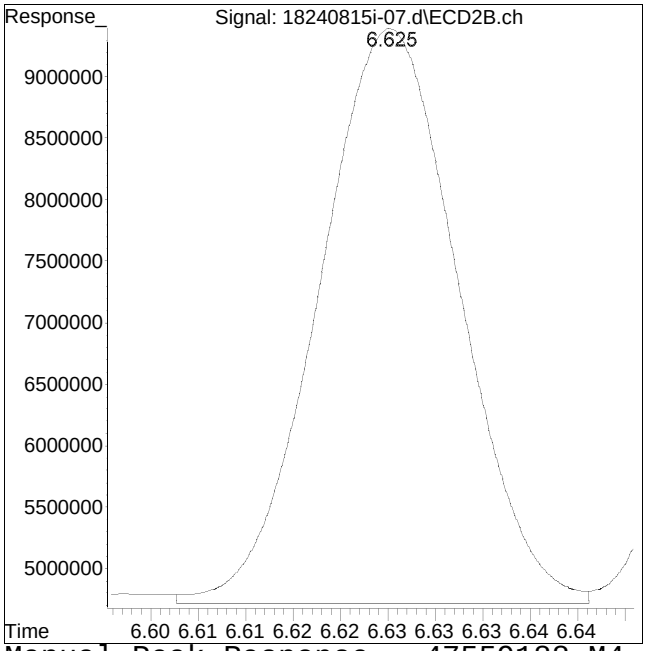
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #62: Mirex #2



Original Peak Response = 48813589



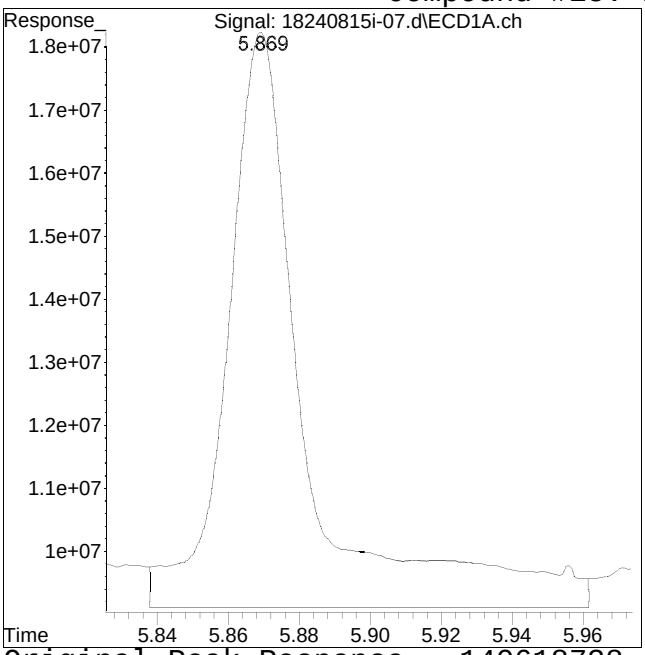
Manual Peak Response = 47559188 M4

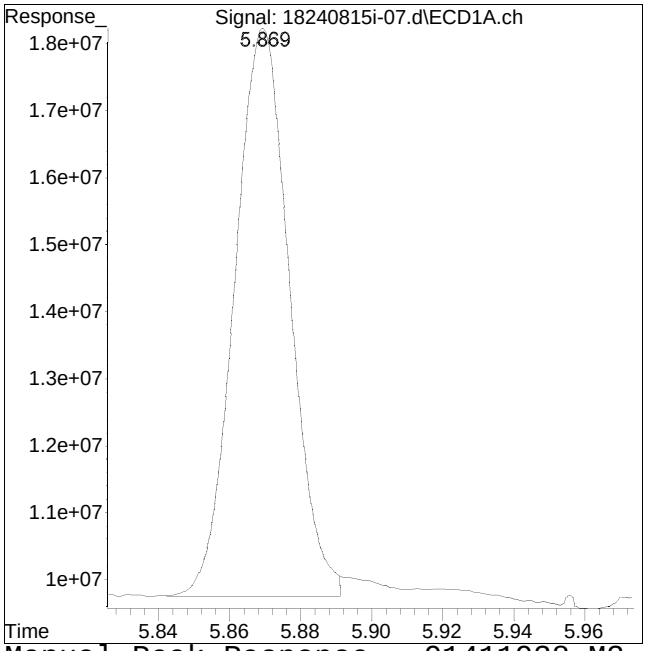
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #25: Endosulfan Sulfate



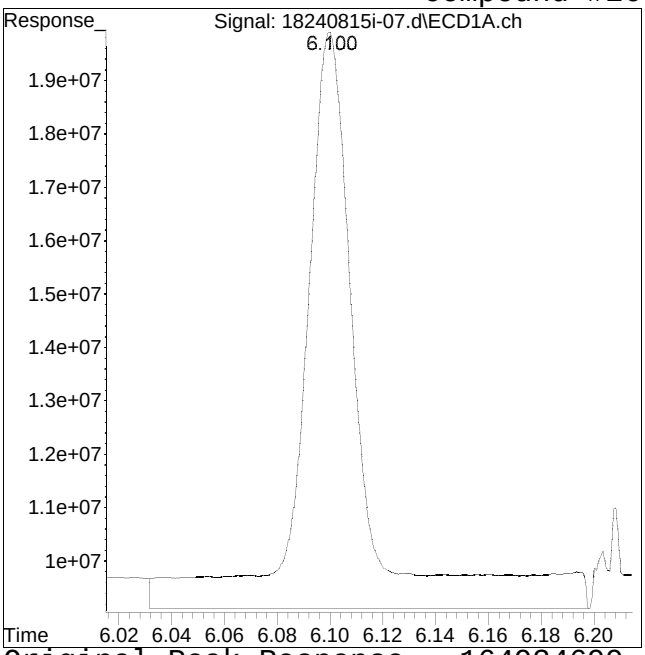


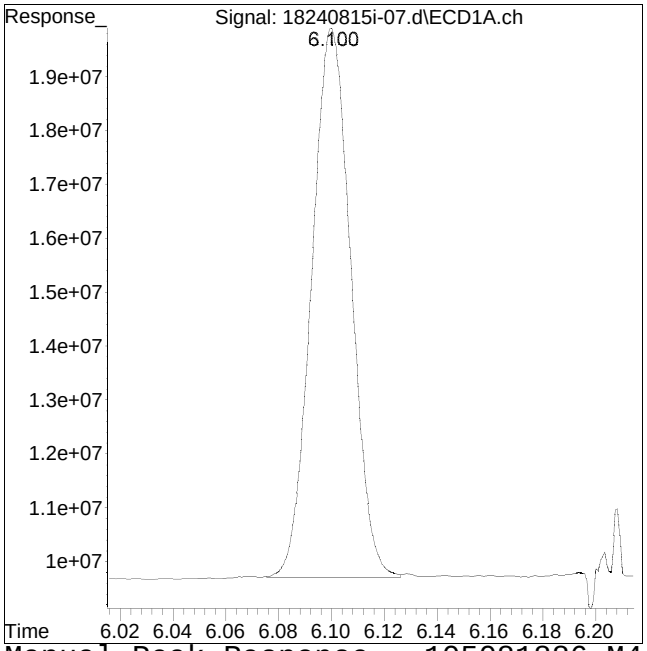
Original Peak Response = 140618738 Manual Peak Response = 91411938 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #26: Endrin Ketone



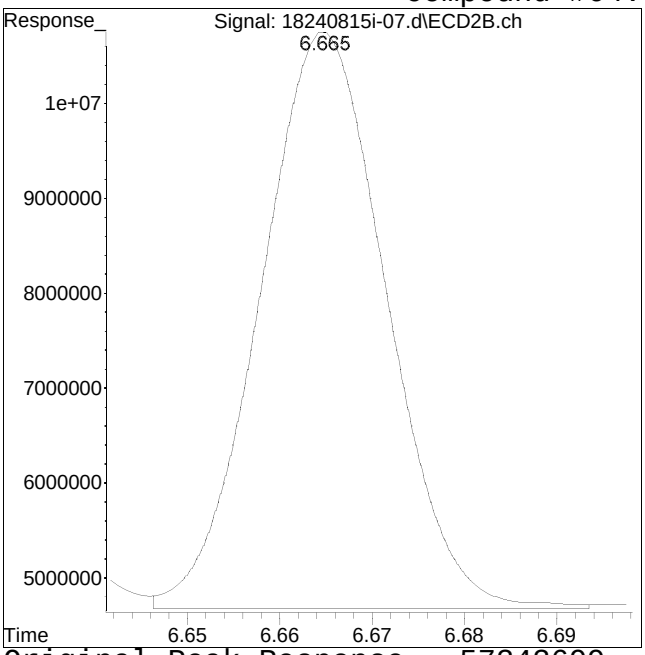


Original Peak Response = 164934699 Manual Peak Response = 105081886 M4
M4 = Poor automated baseline construction.

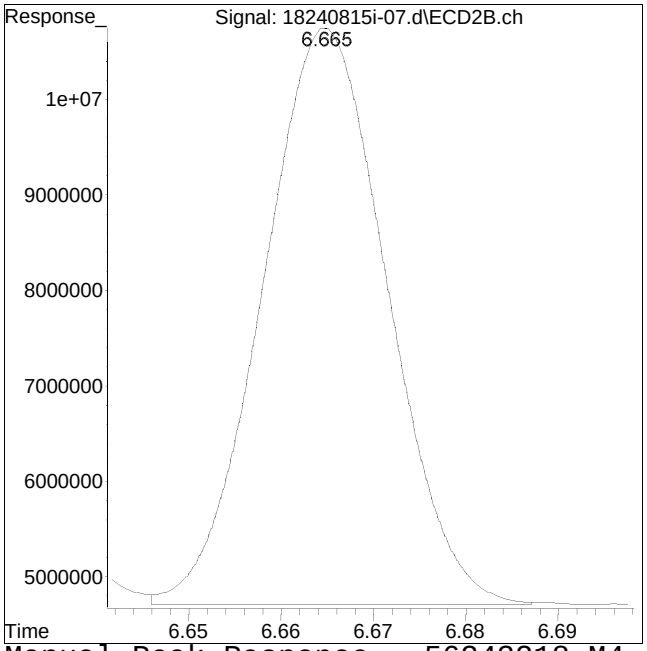
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #64: Endrin Ketone #2



Original Peak Response = 57343699



Manual Peak Response = 56243218 M4

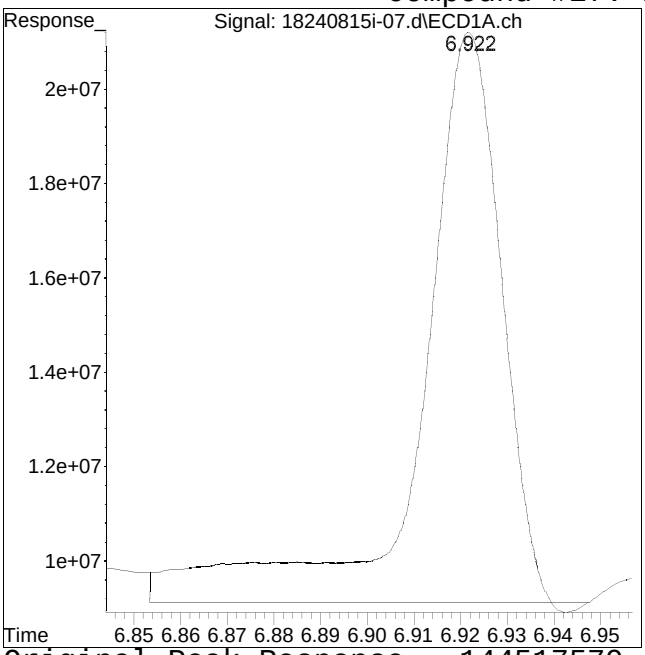
M4 = Poor automated baseline construction.

Manual Integration Report

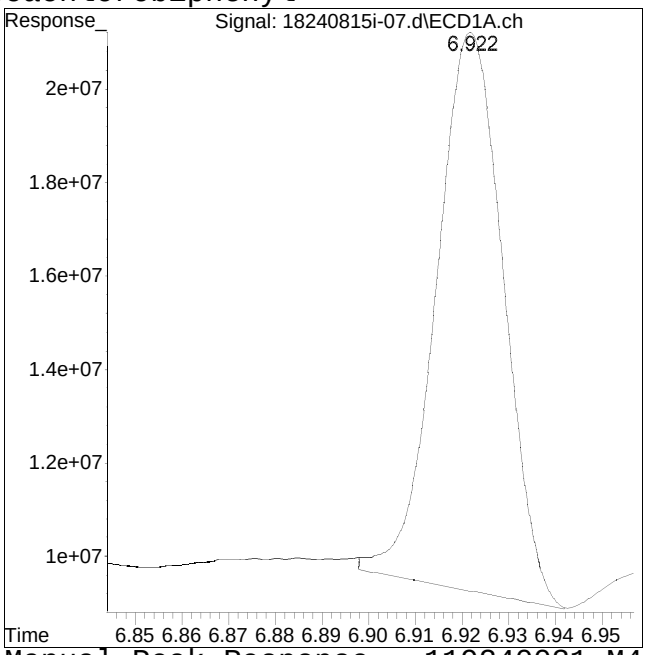
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-07.d
Date Inj'd : 8/15/2024 14:51
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:48 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 144517579



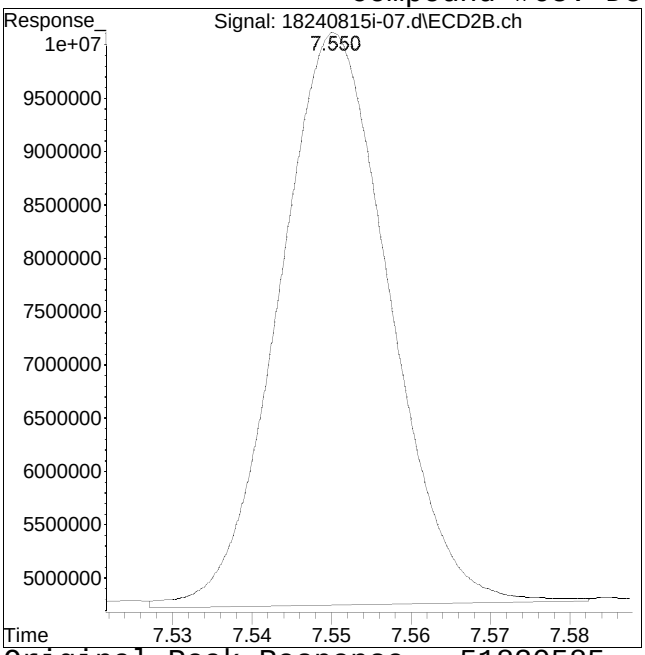
Manual Peak Response = 119240031 M4

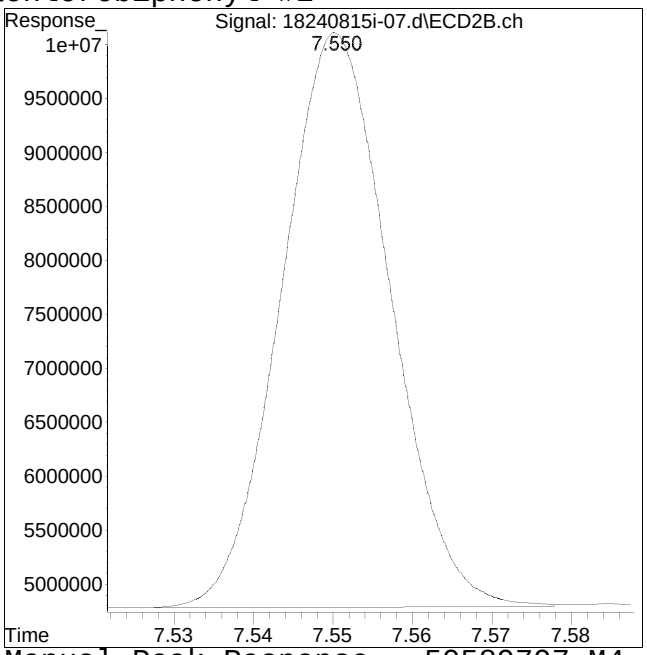
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-07.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 14:51 Instrument : Pest 18
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/16/2024 7:48 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 51830585 Manual Peak Response = 50589797 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:02
Operator : PEST18:peg
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:24:14 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:24:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	549.1E6	330.8E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.339	280.2E6	154.3E6	11.142M4	10.266M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		22.28%#	20.53%#
27)	s	Decachlorobi	6.922	7.549	273.7E6	120.5E6	10.526M4	10.601M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		21.05%#	21.20%#
		Target Compounds						
3)		Hexachlorobe	2.358	2.683	312.5E6	163.9E6	10.794M4	10.589M4
4)		alpha-BHC	2.469	2.786	330.5E6	201.6E6	9.928M4	9.433M4
5)		gamma-BHC (l	2.688	3.082	301.4E6	184.0E6	10.146M3	9.636M4
6)		beta-BHC	2.752	3.155	141.6E6	89084523	10.910M4	10.628M4
7)		delta-BHC	2.885	3.425	302.9E6	184.0E6	9.997M4	9.478M4
8)		Heptachlor	3.054	3.483	290.8E6	169.1E6	10.784M4	10.027
9)		Aldrin	3.303	3.804	278.5E6	167.7E6	10.252M4	9.680
10)		Alachlor	3.442	3.699	43625236	26774061	12.018M4	11.742
11)		Chlorpyrifos	3.536	4.055	136.7E6	87699702	11.849M4	11.779M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:02
Operator : PEST18:peg
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:24:14 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:24:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.861	4.423	249.5E6	159.8E6	10.487M3	10.134M4
13)		gamma-Chlord	3.988	4.646	240.3E6	144.7E6	10.216M3	9.809M4
14)		alpha-Chlord	4.125	4.820	271.1E6	161.7E6	10.278M3	9.887M4
15)		4,4'-DDE	4.231	5.034	267.2E6	157.0E6	9.853M4	9.442M4
16)		Endosulfan I	4.260	4.882	246.0E6	150.6E6	10.581M4	10.052M4
17)		Dieldrin	4.523	5.189	257.9E6	152.3E6	10.234M4	9.666M4
18)		Endrin	4.779	5.498	260.1E6	153.4E6	10.368M3	9.916M4
19)		4,4'-DDD	4.904	5.633	207.0E6	120.6E6	9.976M4	9.429M4
20)		Endosulfan I	5.032	5.705	236.4E6	137.8E6	10.580M4	10.101M4
21)		4,4'-DDT	5.210	5.918	229.0E6	134.2E6	9.855M4	9.613M4
22)		Endrin Aldeh	5.466	6.011	194.4E6	112.6E6	10.245M3	9.840M4
23)		Methoxychlor	5.718	6.498	136.8E6	78139271	11.381M4	11.040M4
24)		Mirex	5.764	6.625	207.3E6	115.2E6	10.957M3	10.749M4
25)		Endosulfan S	5.868	6.246	232.4E6	131.0E6	10.314M3	10.015
26)		Endrin Keton	6.099	6.665	266.6E6	142.4E6	10.889M4	10.103M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:02
Operator : PEST18:peg
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:24:14 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:24:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

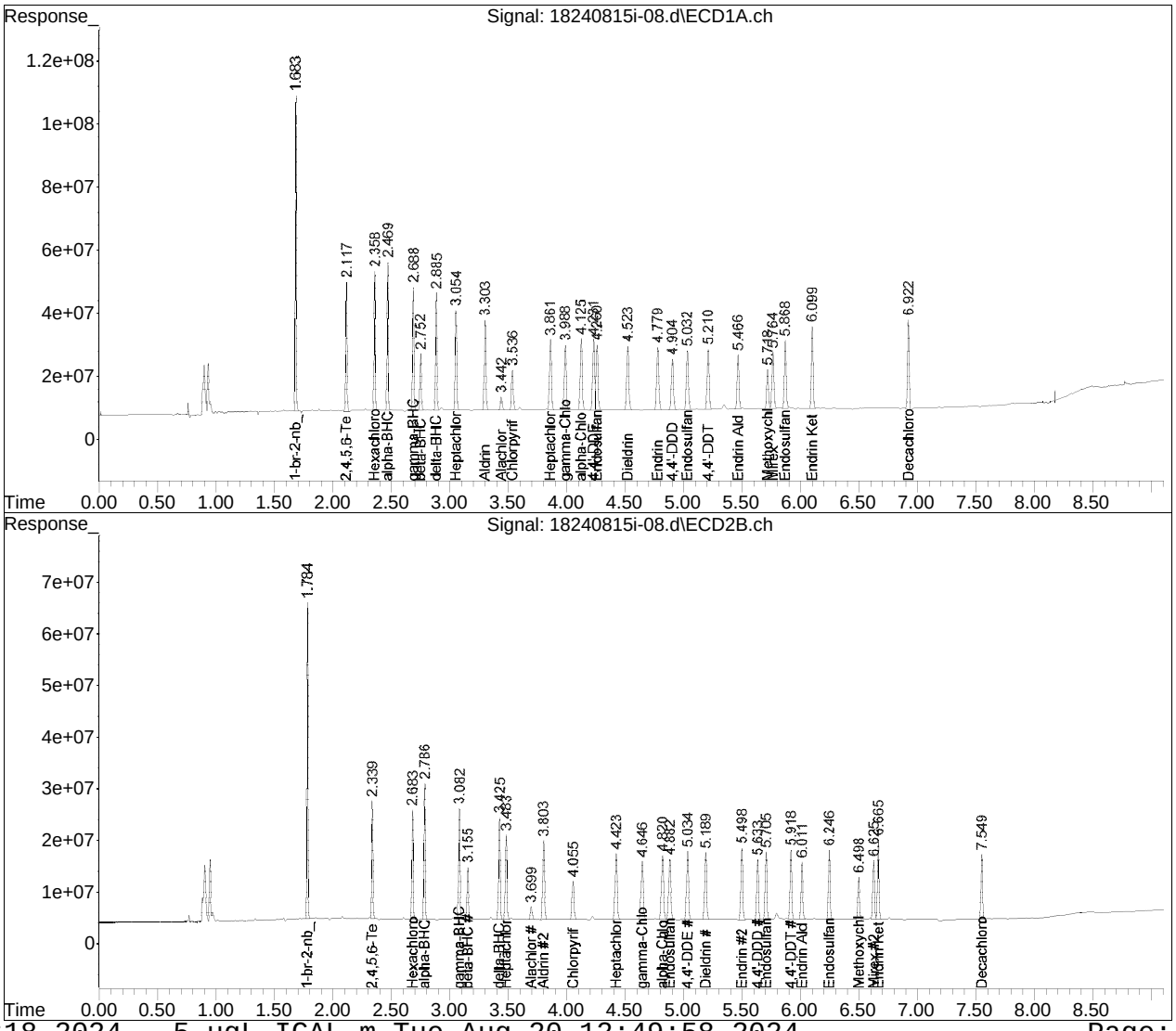
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:02
Operator : PEST18:peg
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 07:24:14 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 07:24:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

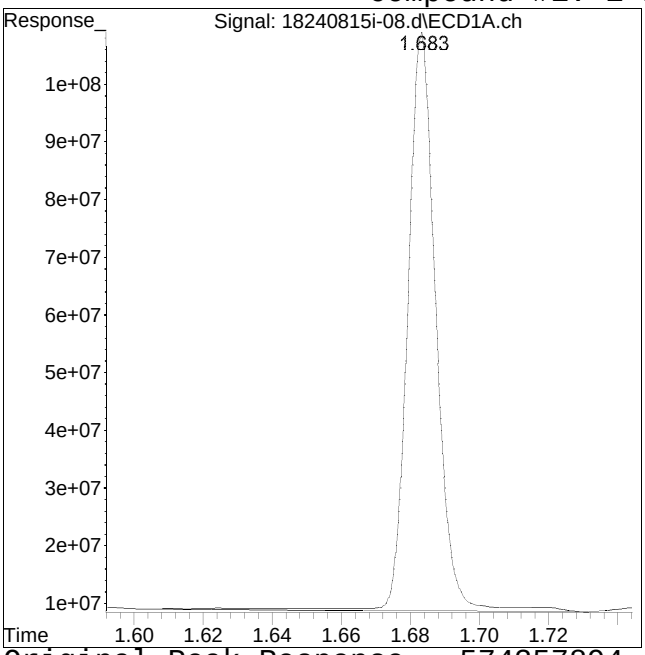


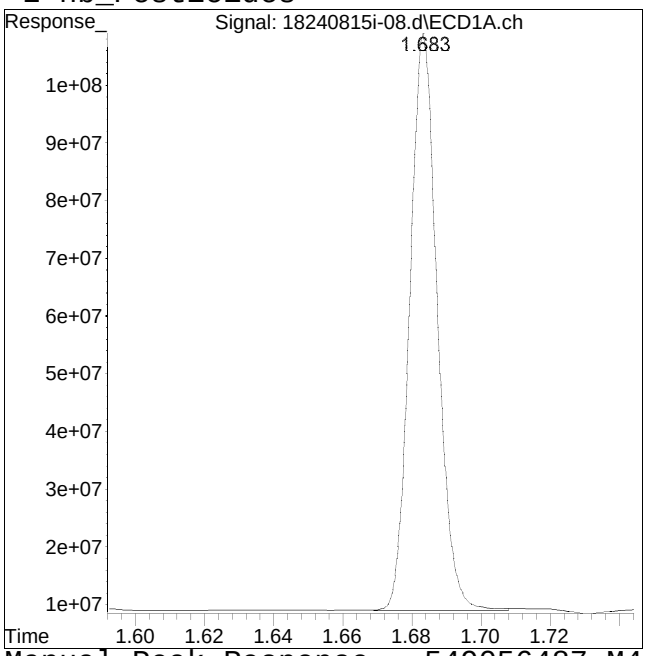
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #1: 1-br-2-nb_Pesticides



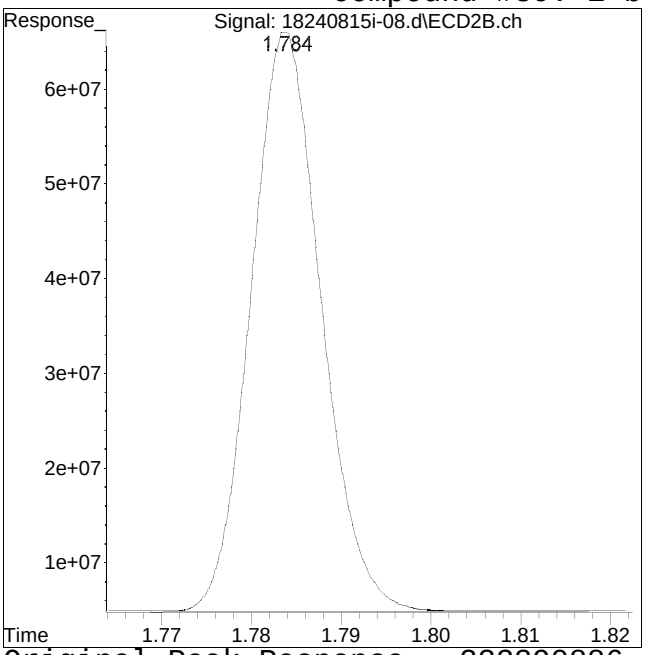


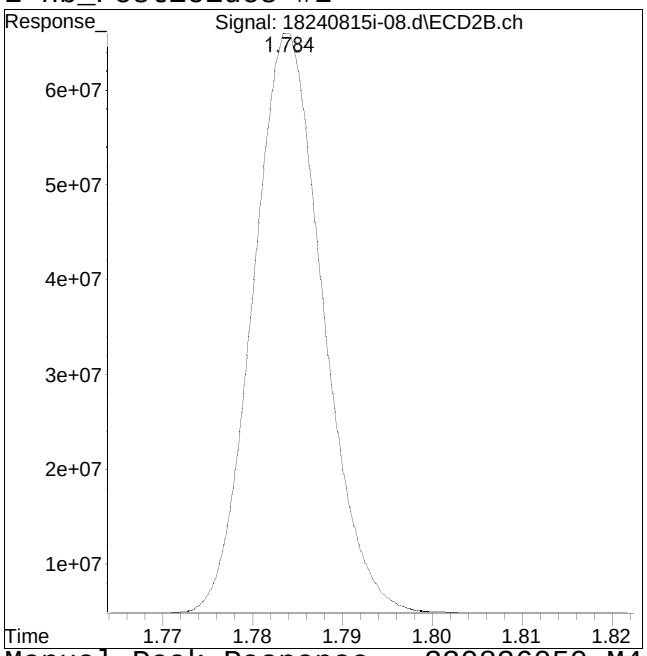
Original Peak Response = 574357894 Manual Peak Response = 549056487 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #39: 1-br-2-nb_Pesticides #2





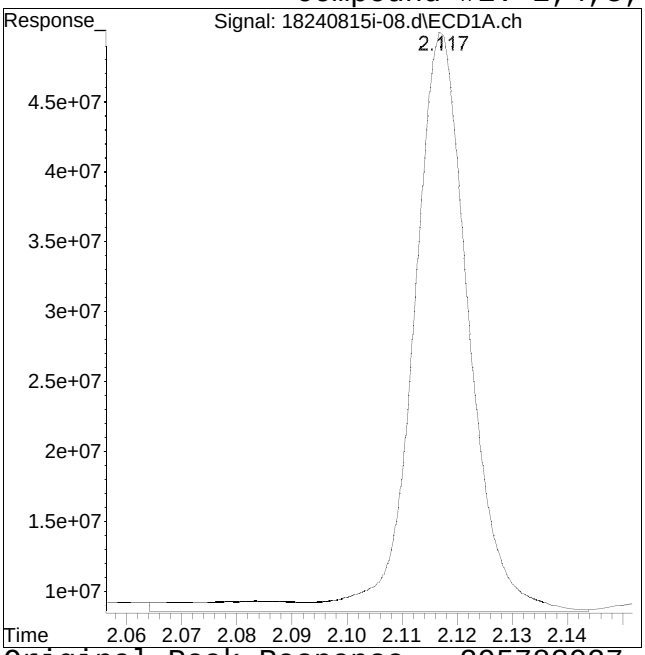
Original Peak Response = 333390886 Manual Peak Response = 330836050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

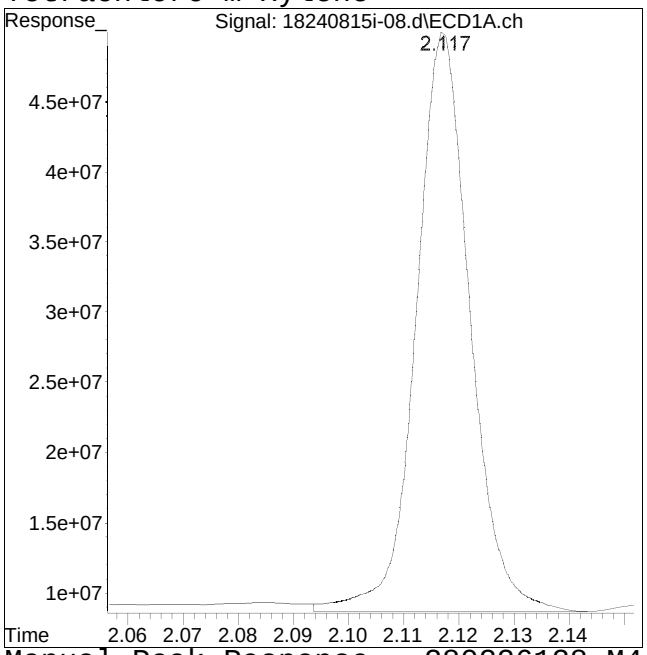
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 295783927



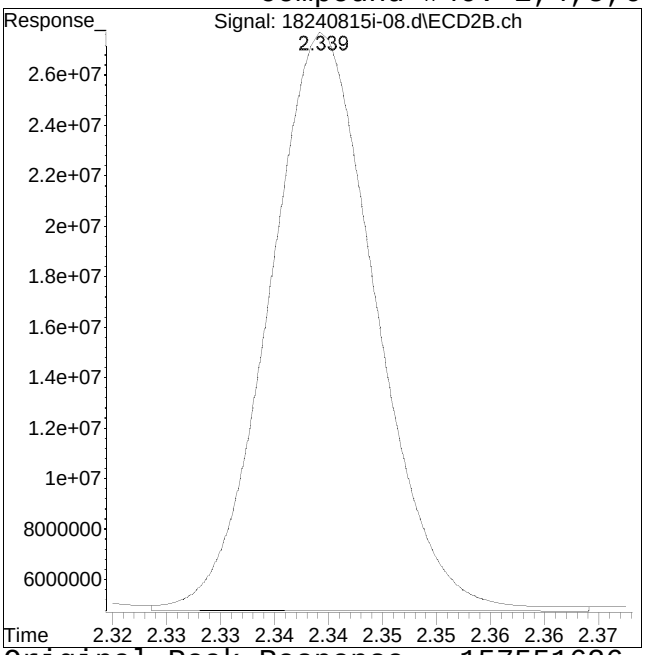
Manual Peak Response = 280226128 M4

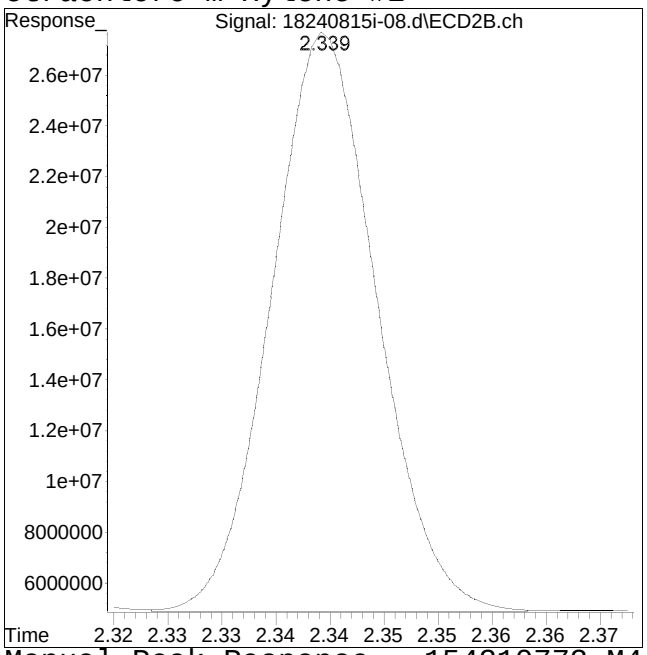
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



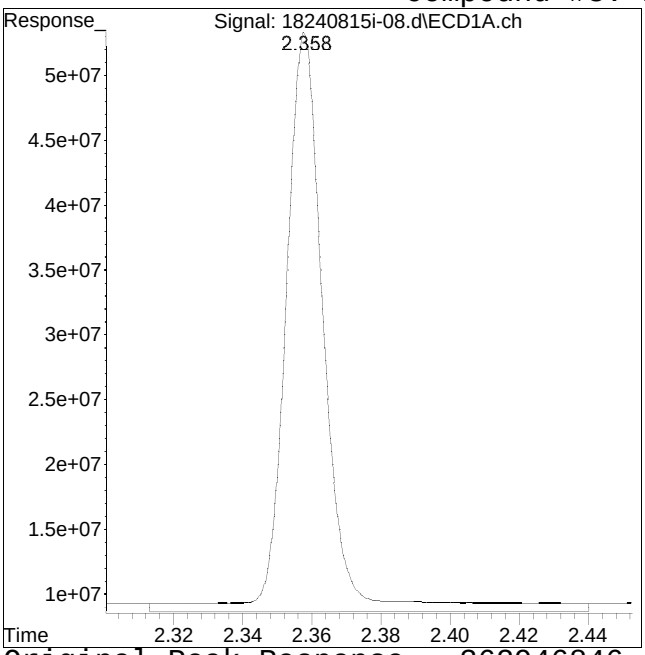


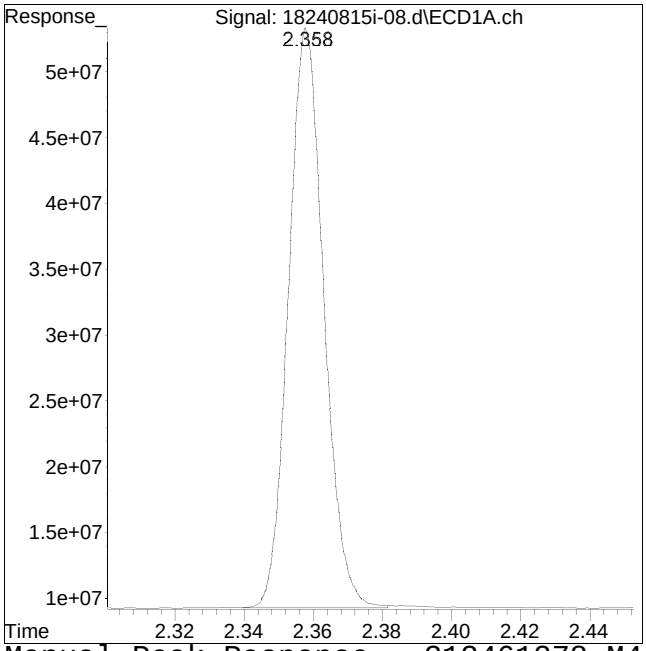
Original Peak Response = 157551626 Manual Peak Response = 154310773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #3: Hexachlorobenzene



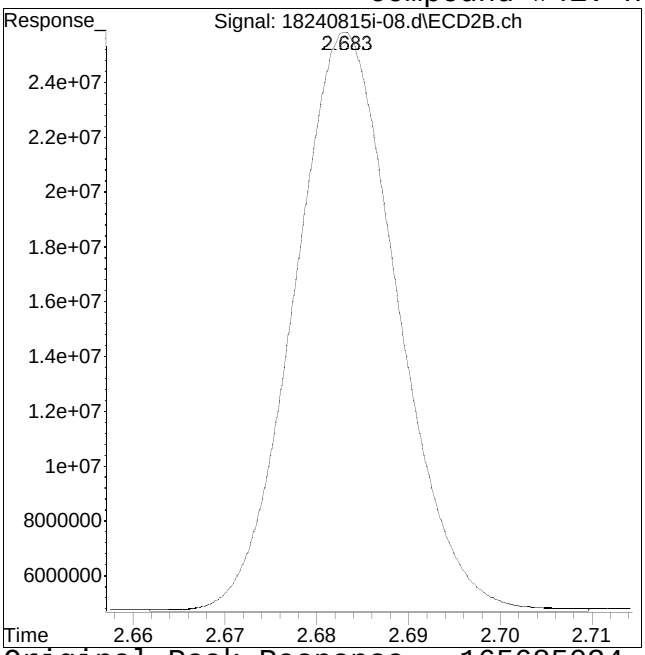


Original Peak Response = 362946846 Manual Peak Response = 312461278 M4
M4 = Poor automated baseline construction.

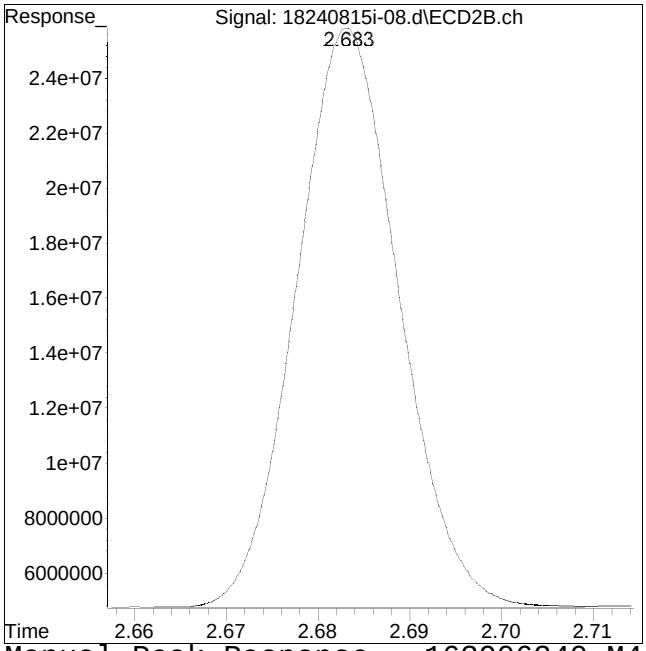
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 165685034



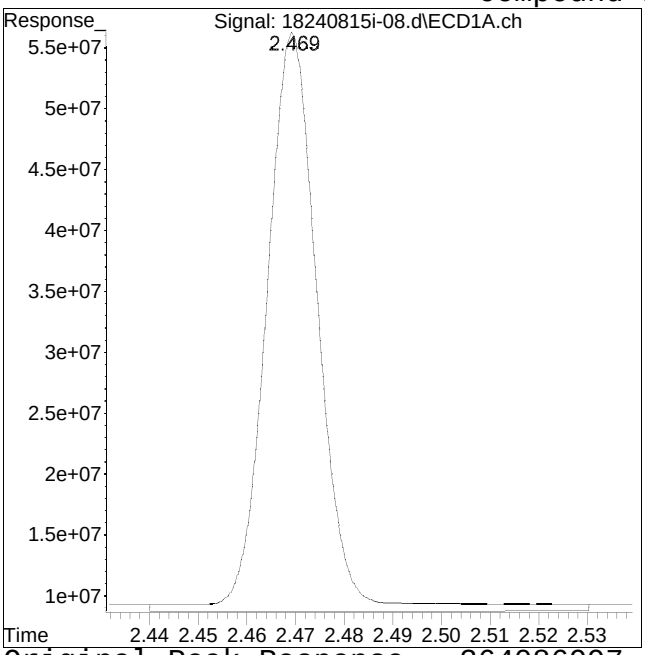
Manual Peak Response = 163906240 M4

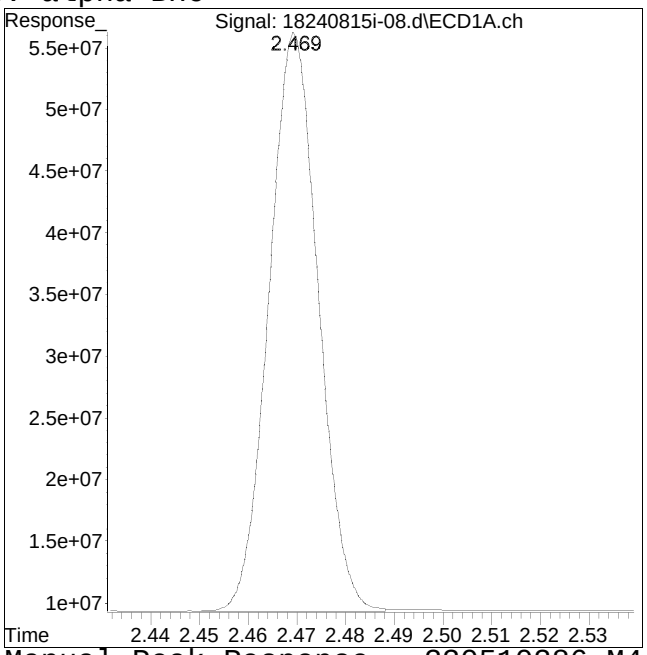
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #4: alpha-BHC



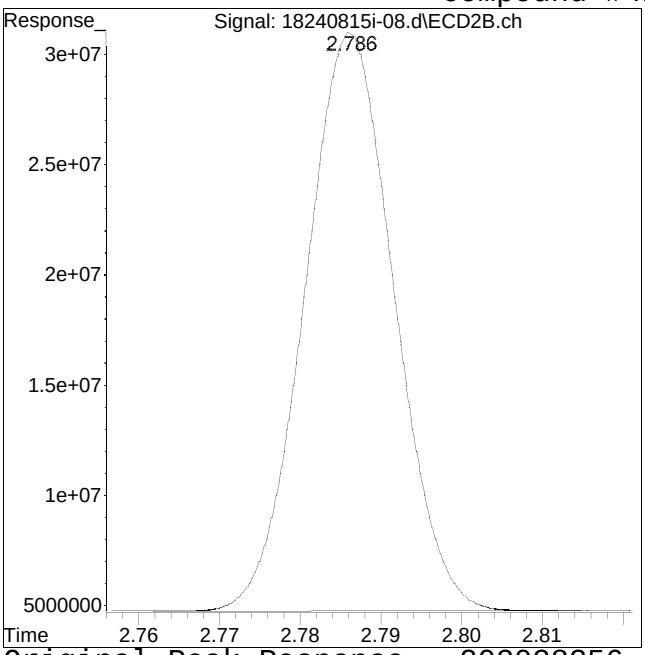


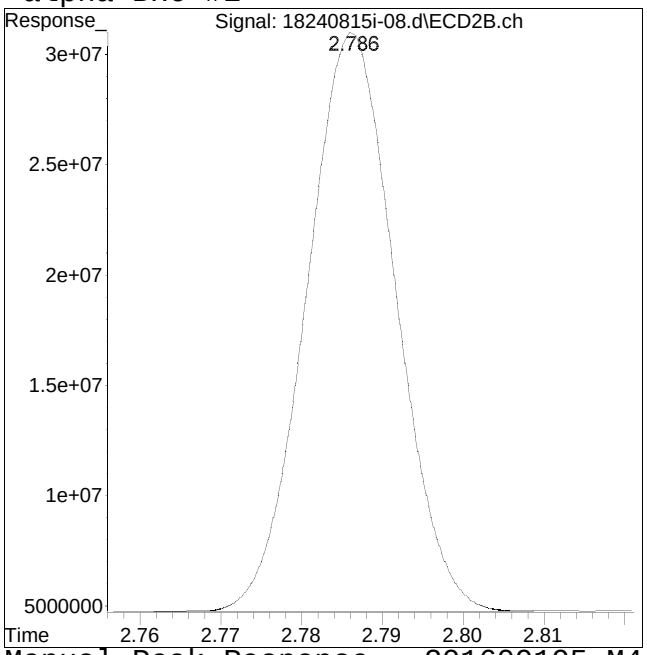
Original Peak Response = 364086997 Manual Peak Response = 330510386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #42: alpha-BHC #2



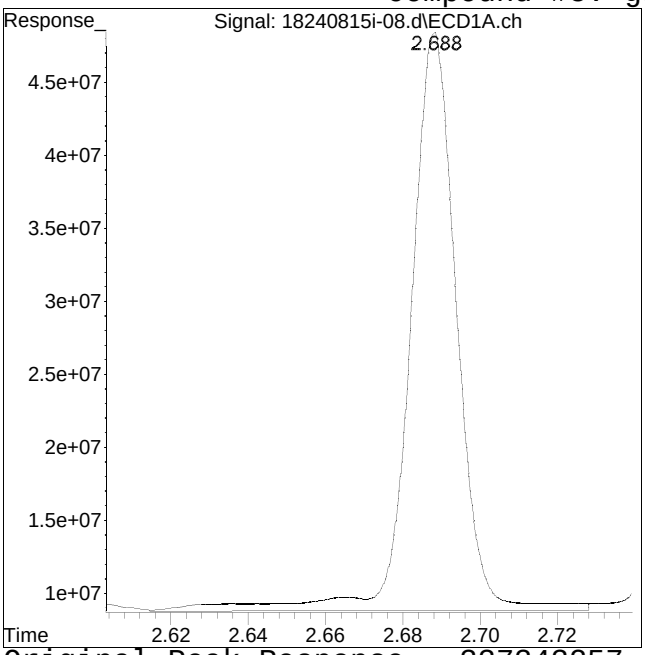


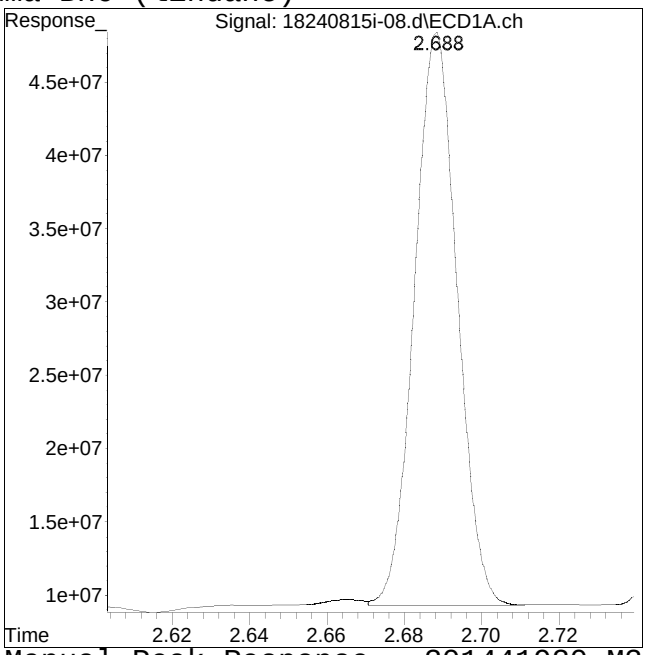
Original Peak Response = 202028356 Manual Peak Response = 201609195 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #5: gamma-BHC (lindane)



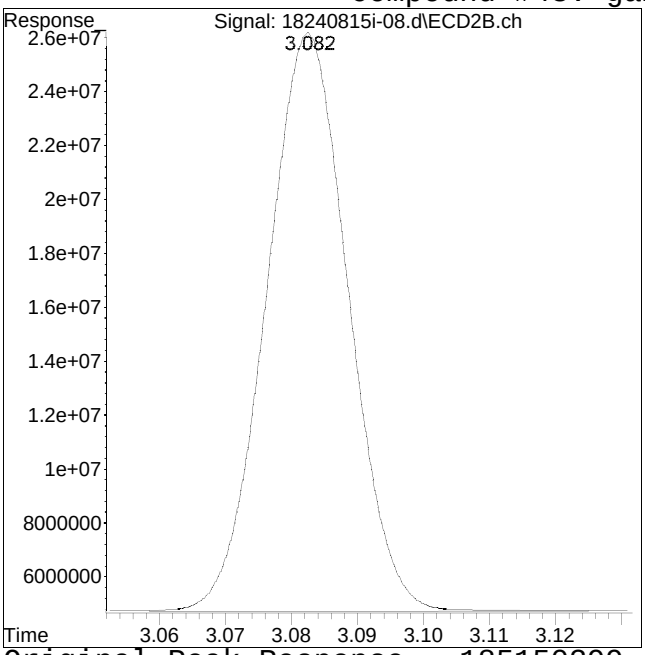


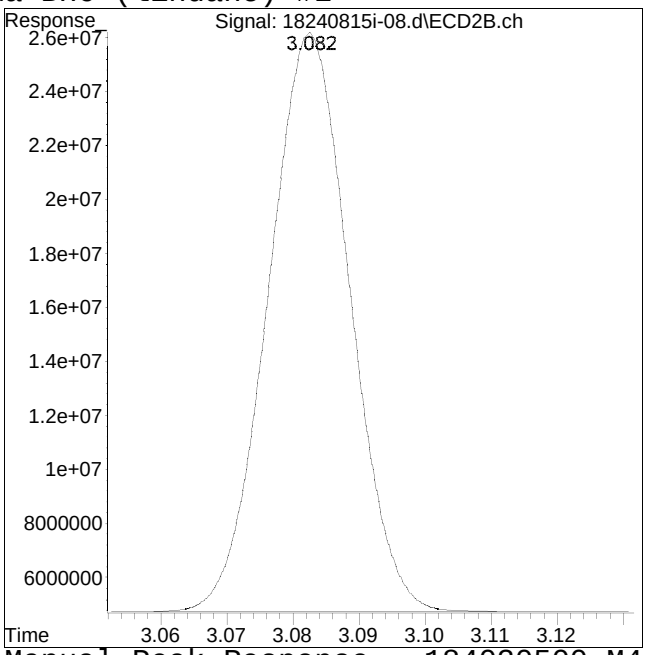
Original Peak Response = 337343257 Manual Peak Response = 301441920 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #43: gamma-BHC (lindane) #2



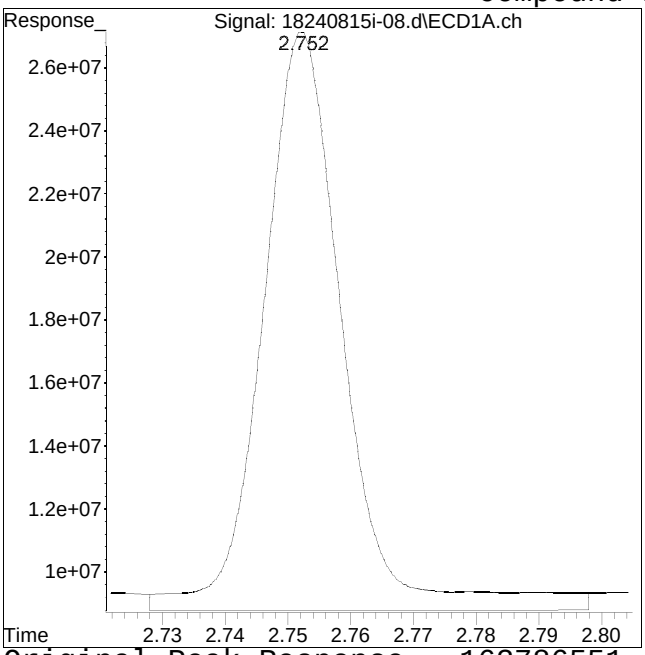


Original Peak Response = 185150399 Manual Peak Response = 184030500 M4
M4 = Poor automated baseline construction.

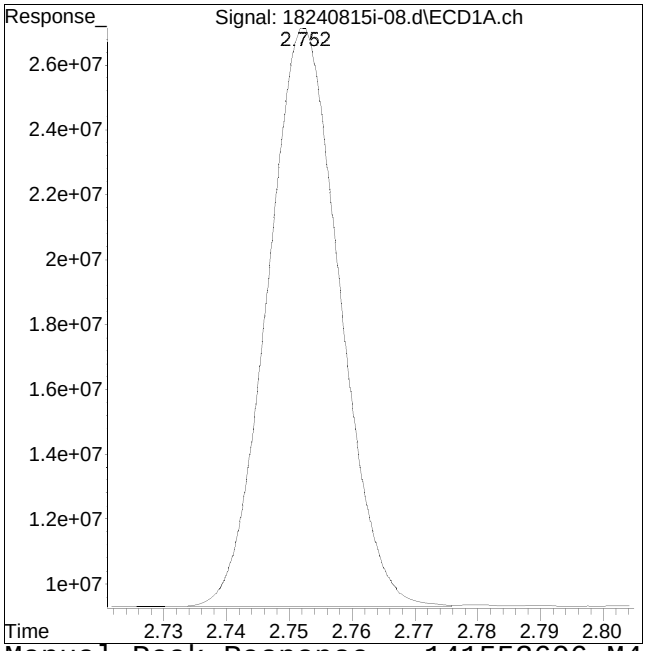
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #6: beta-BHC



Original Peak Response = 163786551



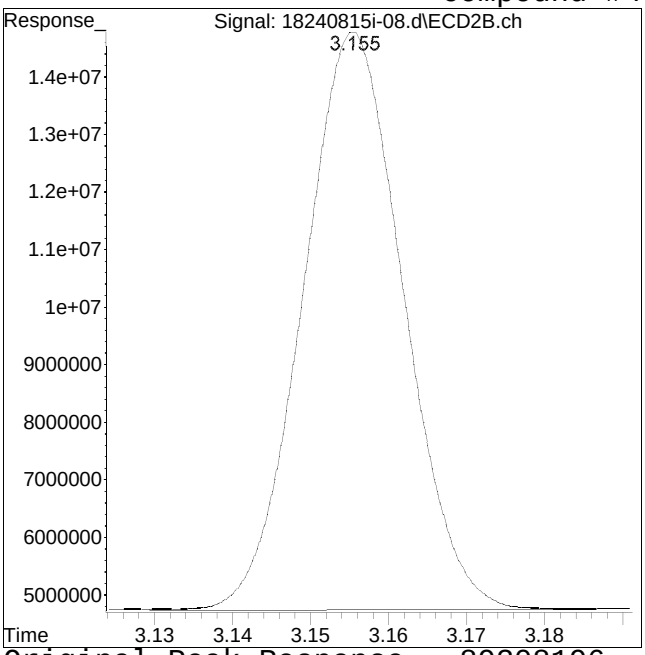
Manual Peak Response = 141553606 M4

M4 = Poor automated baseline construction.

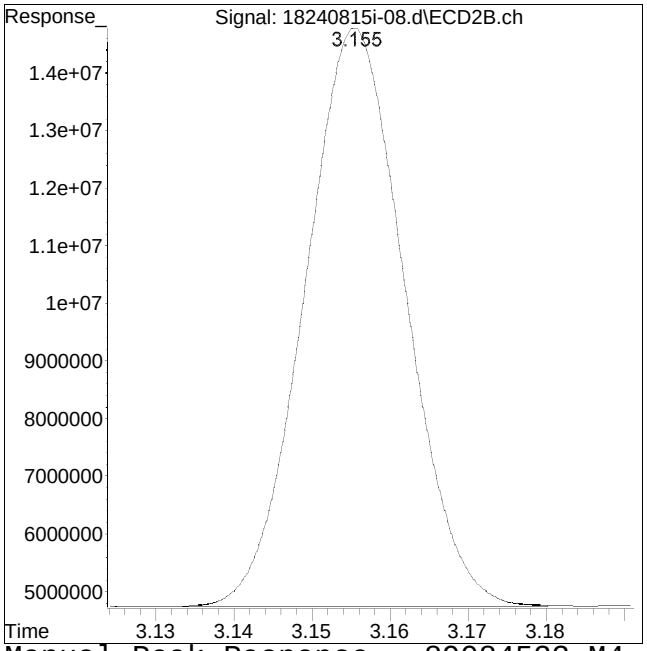
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #44: beta-BHC #2



Original Peak Response = 89308196

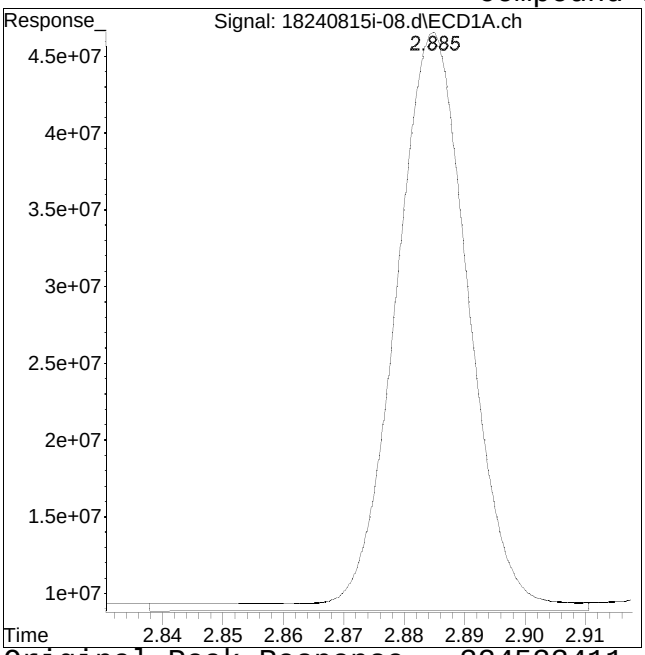


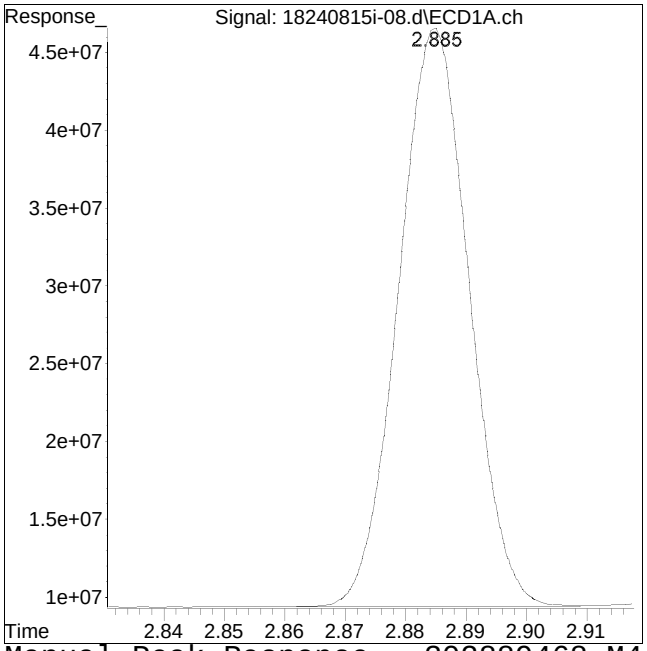
Manual Peak Response = 89084523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #7: delta-BHC



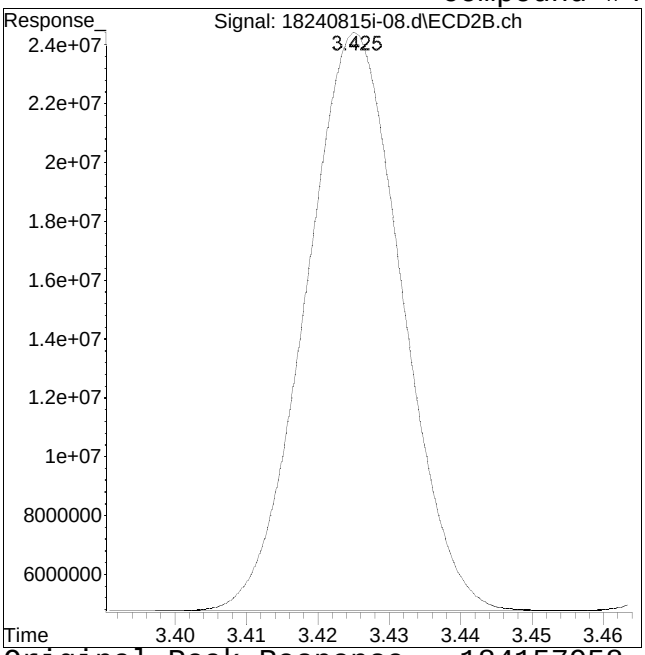


Original Peak Response = 324533411 Manual Peak Response = 302889468 M4
M4 = Poor automated baseline construction.

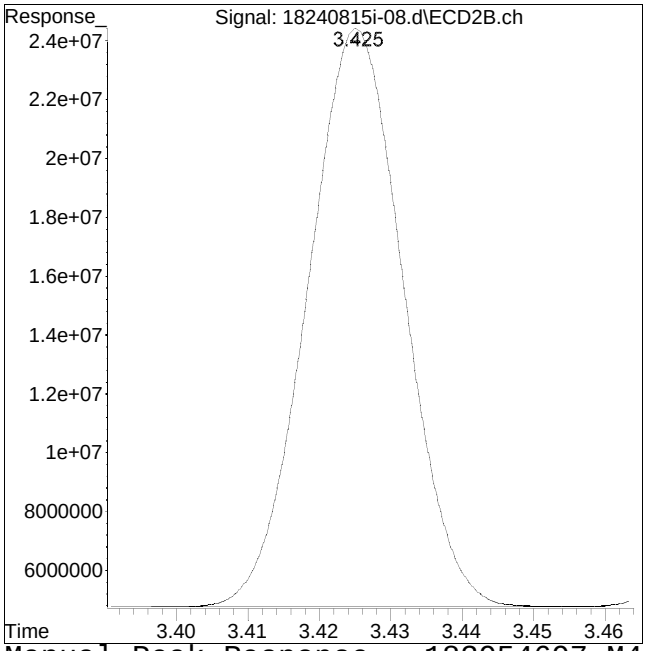
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #45: delta-BHC #2



Original Peak Response = 184157958

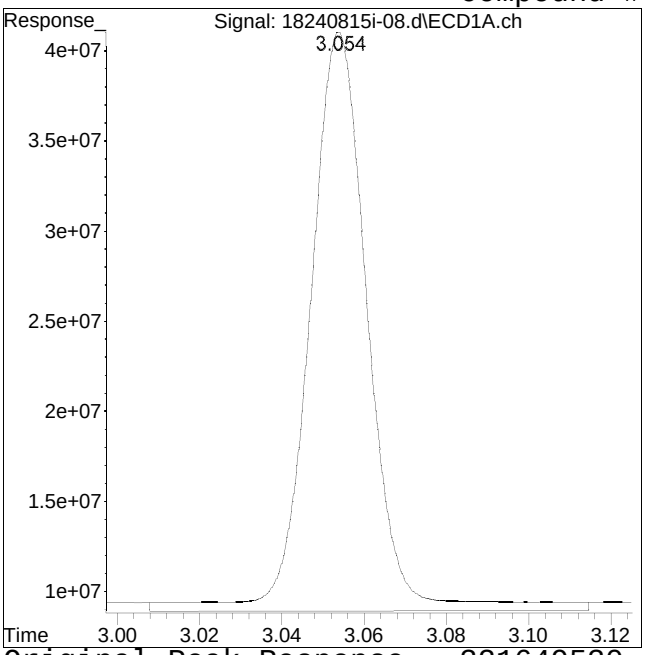


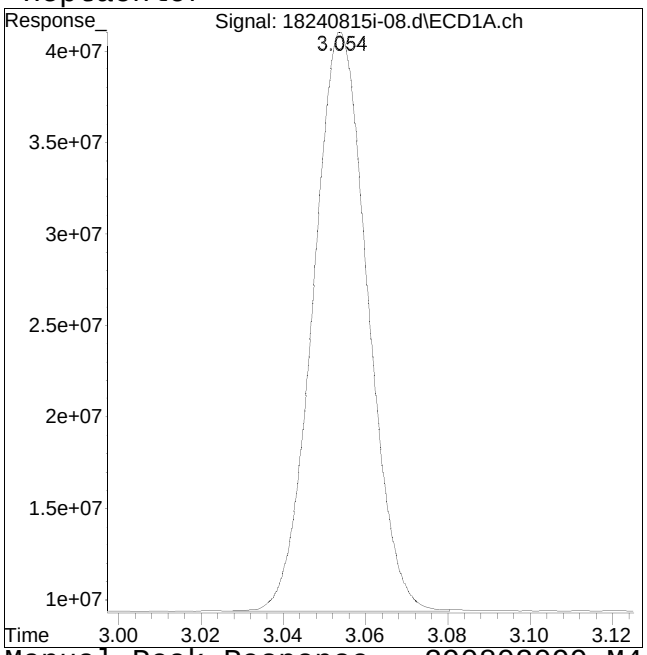
Manual Peak Response = 183954697 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #8: Heptachlor



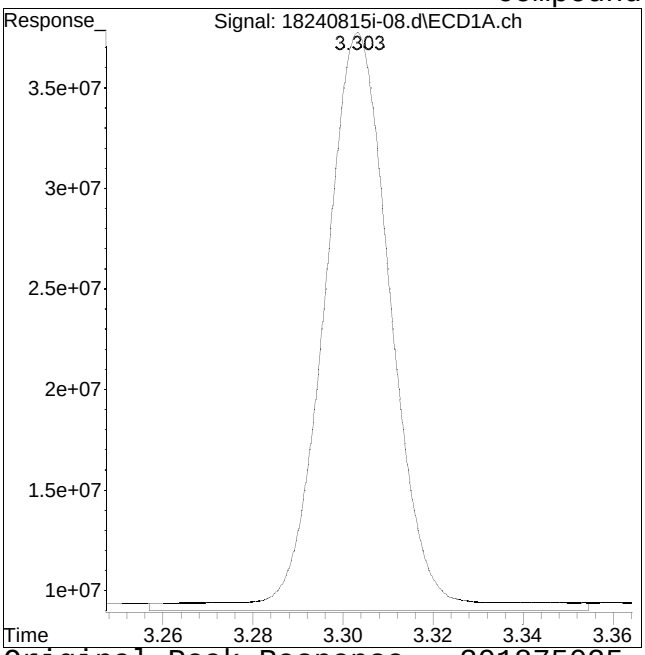


Original Peak Response = 321649530 Manual Peak Response = 290802099 M4
M4 = Poor automated baseline construction.

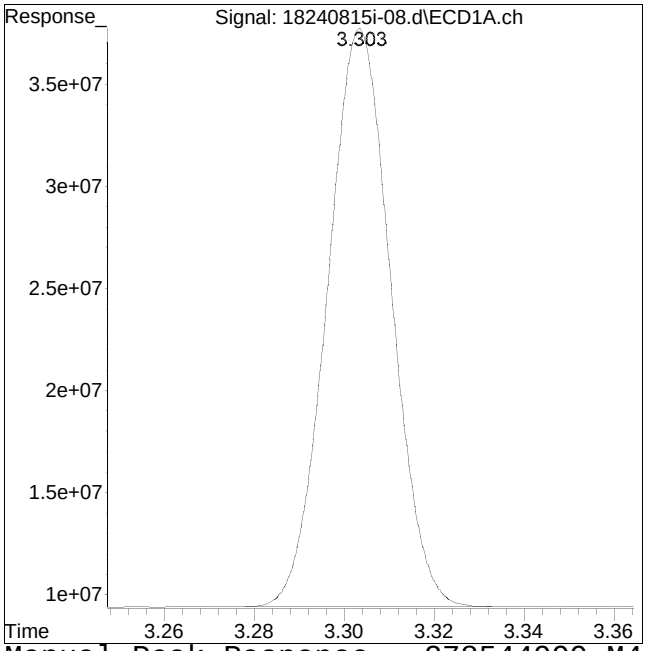
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #9: Aldrin



Original Peak Response = 301875025



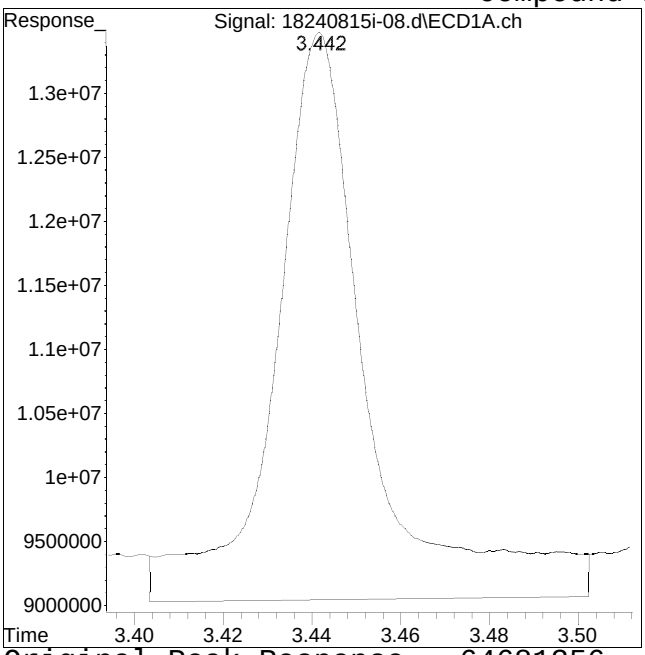
Manual Peak Response = 278544999 M4

M4 = Poor automated baseline construction.

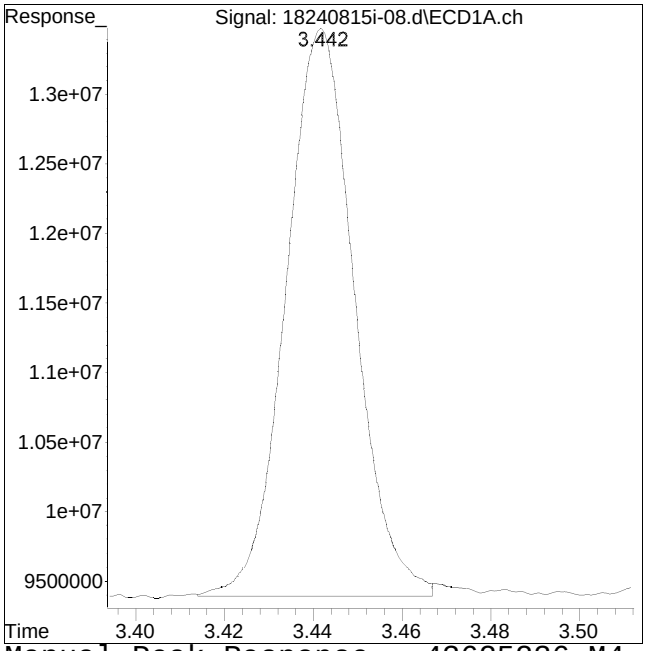
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #10: Alachlor



Original Peak Response = 64681356



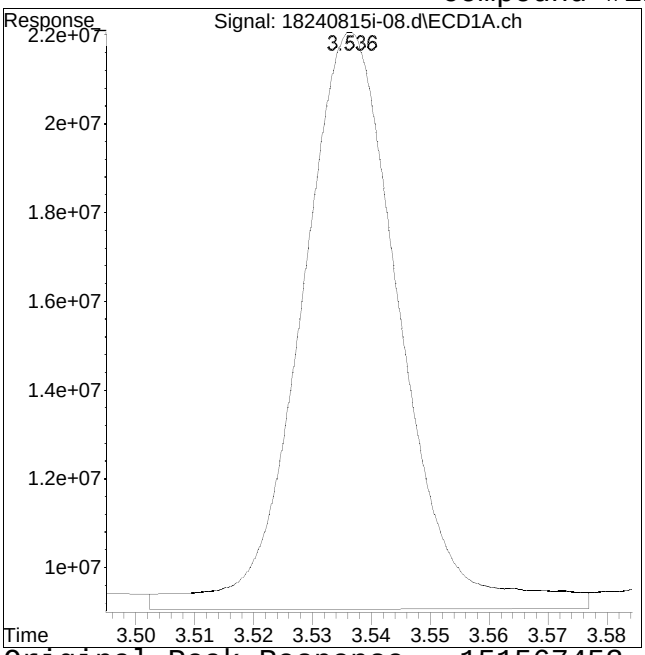
Manual Peak Response = 43625236 M4

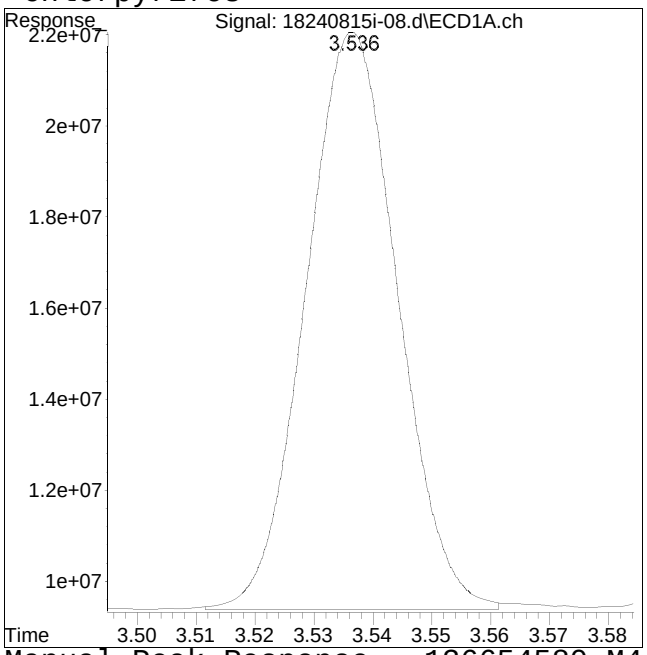
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #11: Chlorpyrifos



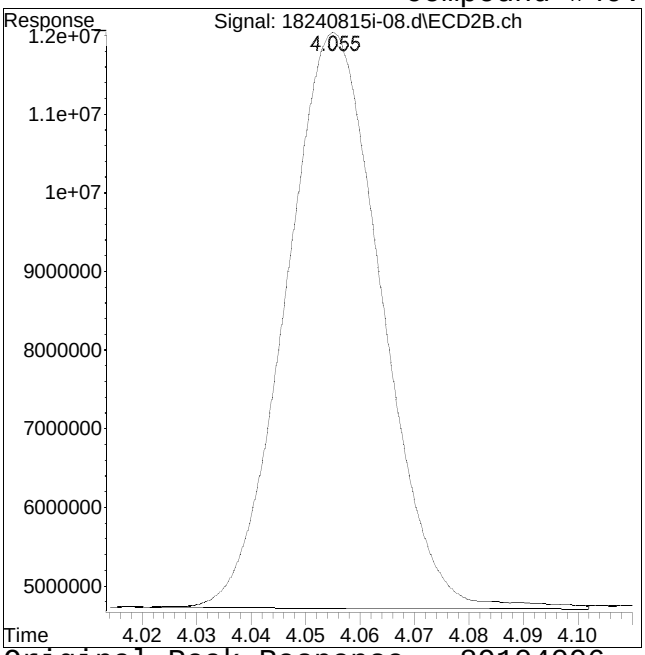


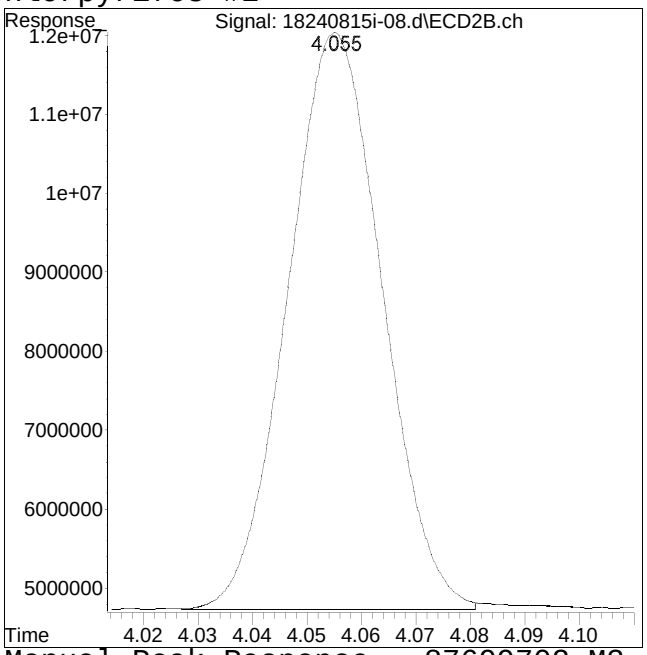
Original Peak Response = 151567453 Manual Peak Response = 136654580 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #49: Chlorpyrifos #2



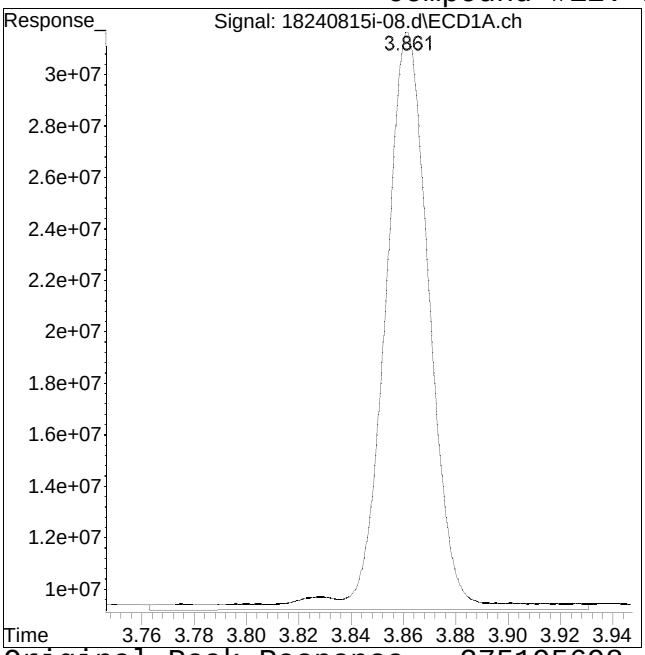


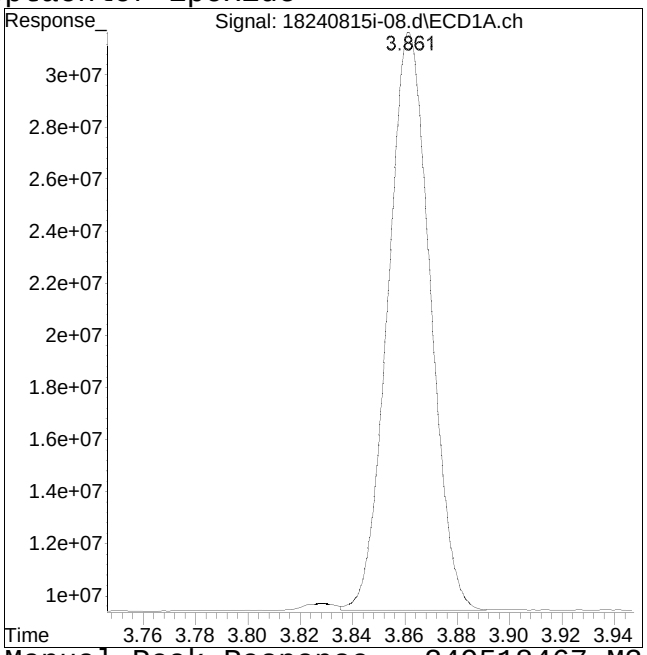
Original Peak Response = 89104096 Manual Peak Response = 87699702 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #12: Heptachlor Epoxide



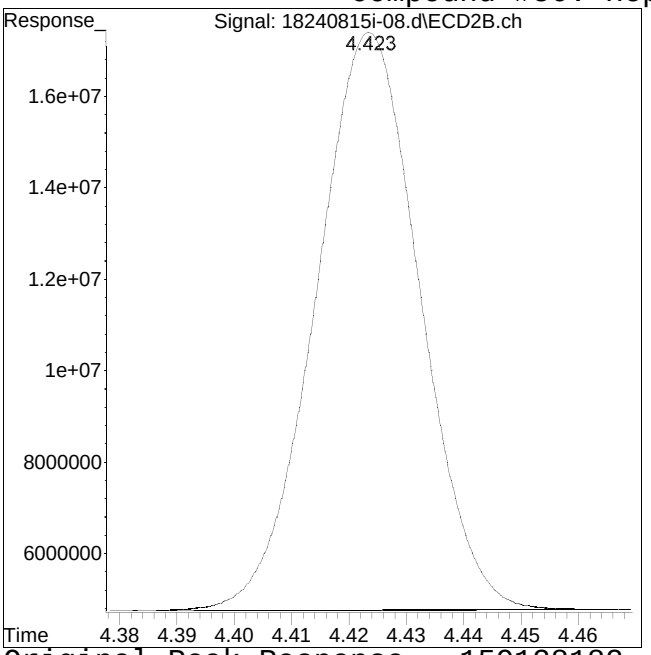


Original Peak Response = 275195698 Manual Peak Response = 249518467 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

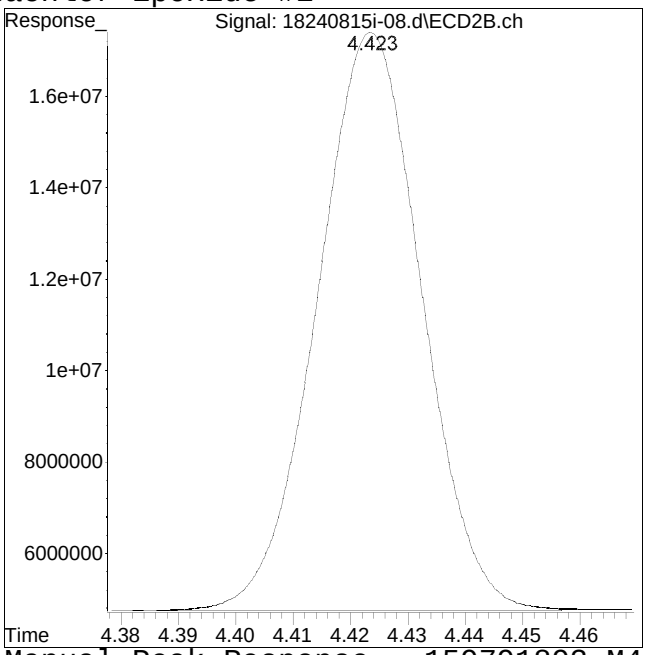
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 159128182



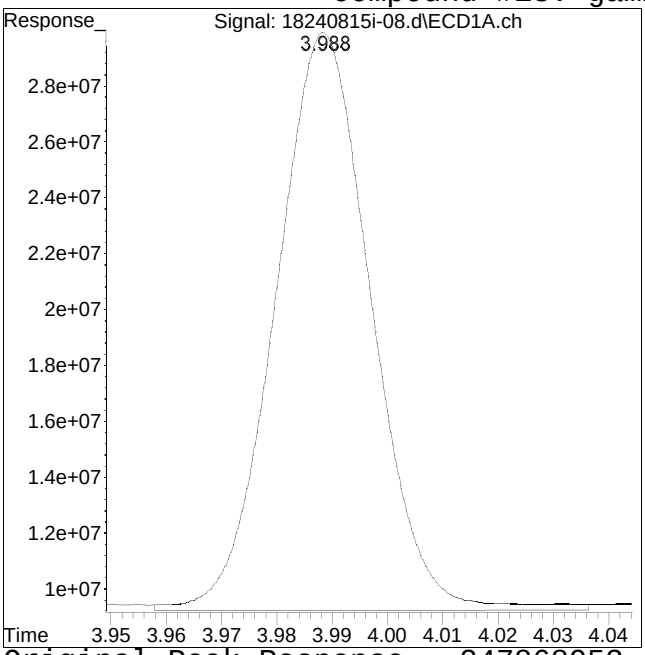
Manual Peak Response = 159791893 M4

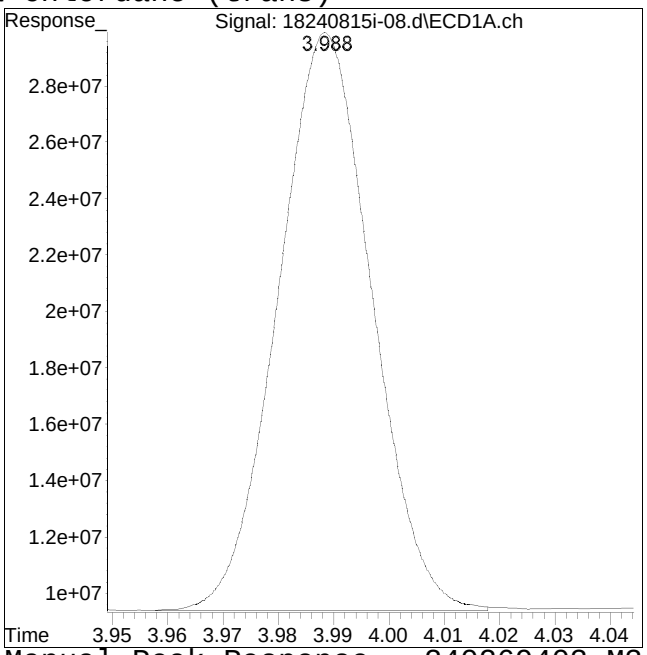
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #13: gamma-Chlordane (trans)



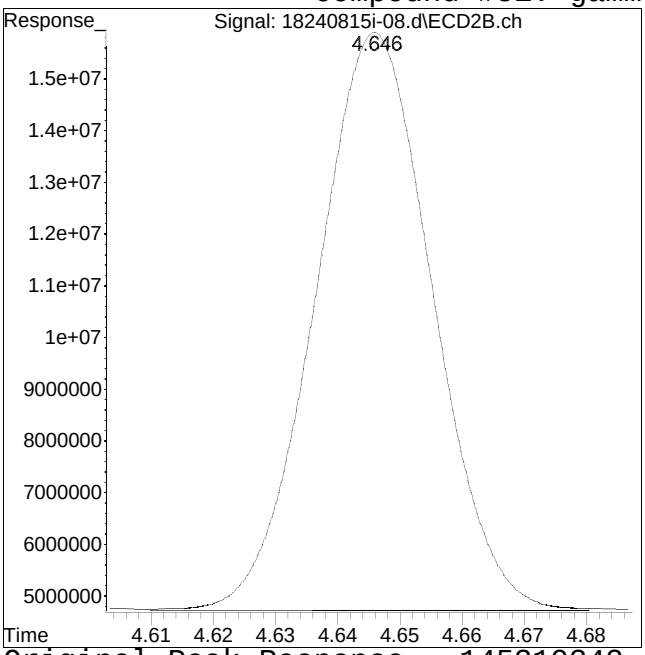


Original Peak Response = 247868953 Manual Peak Response = 240269403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

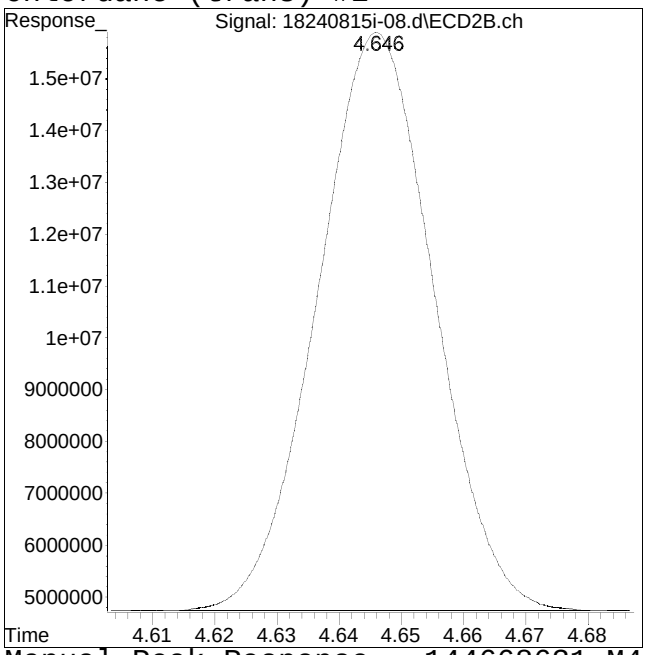
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 145319342



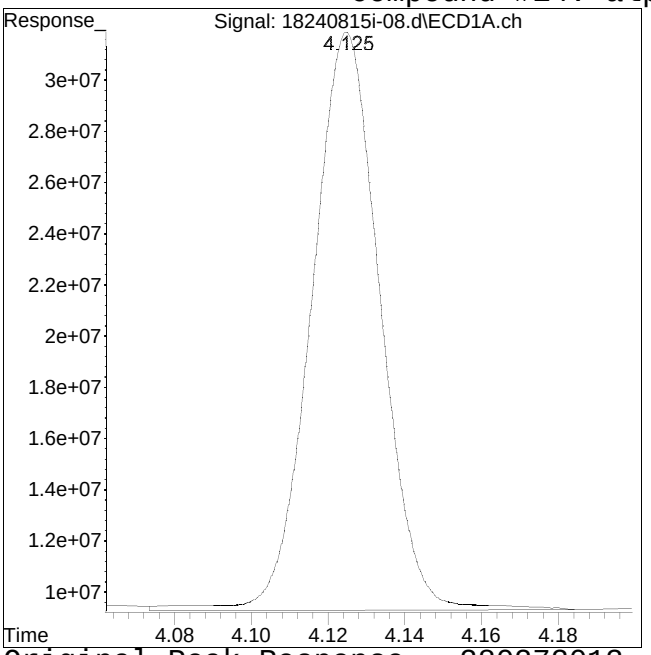
Manual Peak Response = 144668631 M4

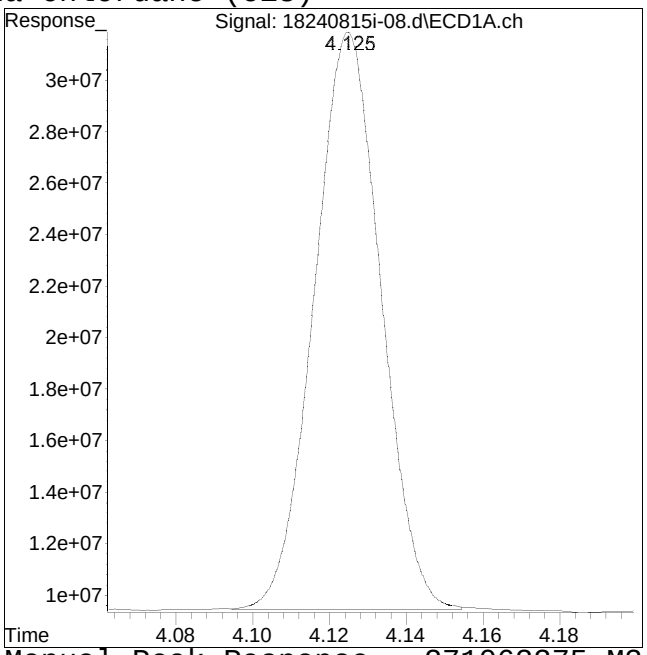
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #14: alpha-Chlordane (cis)



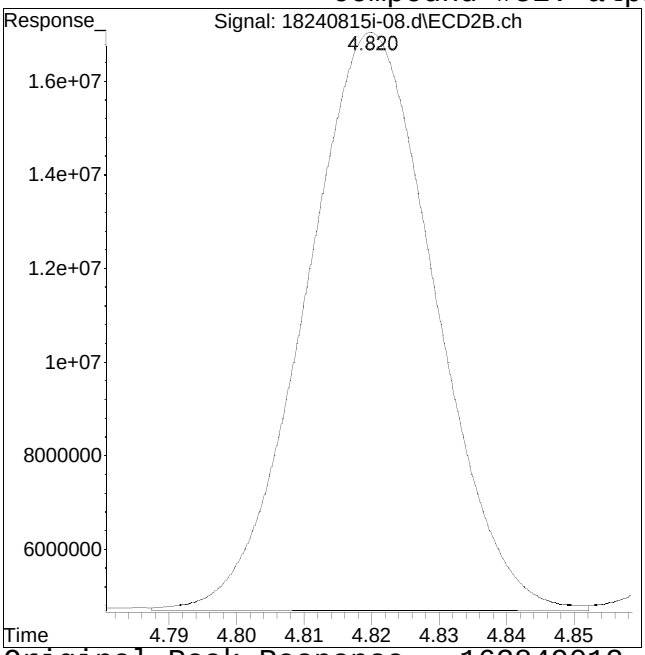


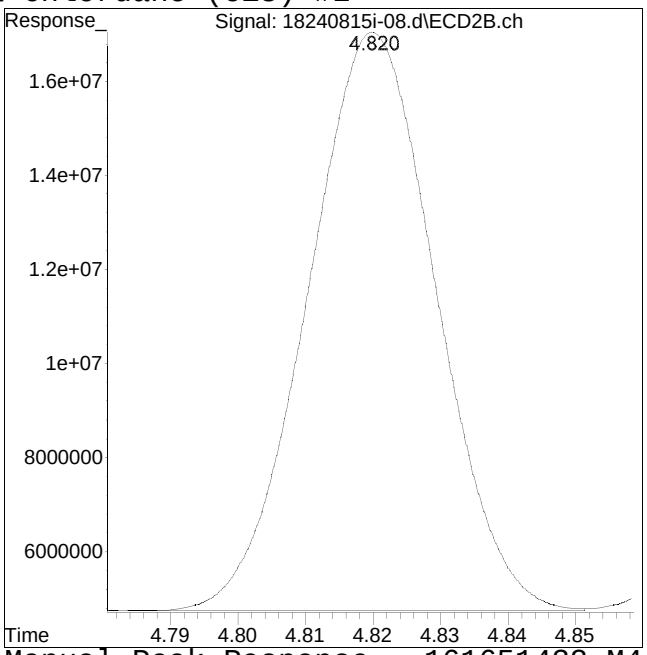
Original Peak Response = 280272013 Manual Peak Response = 271063375 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #52: alpha-Chlordane (cis) #2





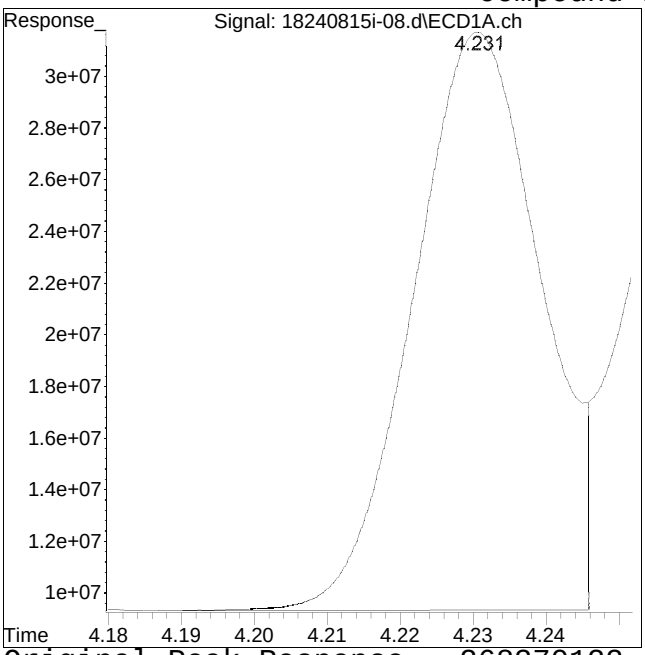
Original Peak Response = 163849012 Manual Peak Response = 161651432 M4
M4 = Poor automated baseline construction.

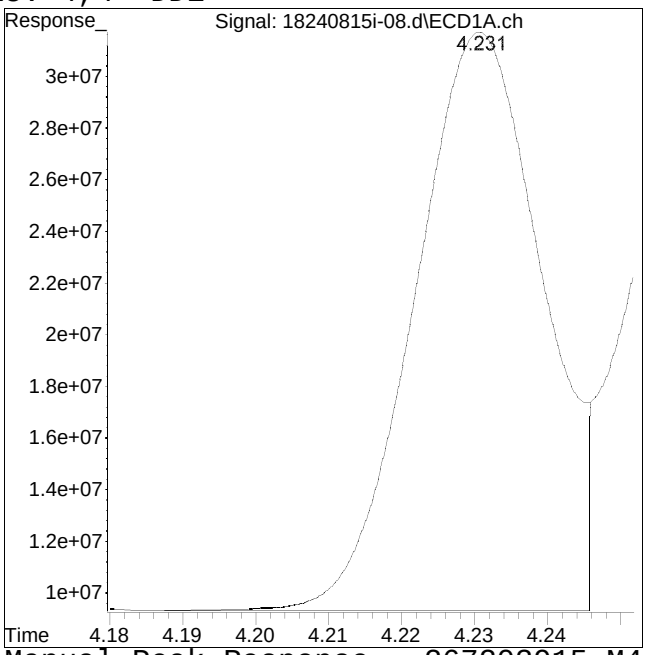
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #15: 4,4'-DDE



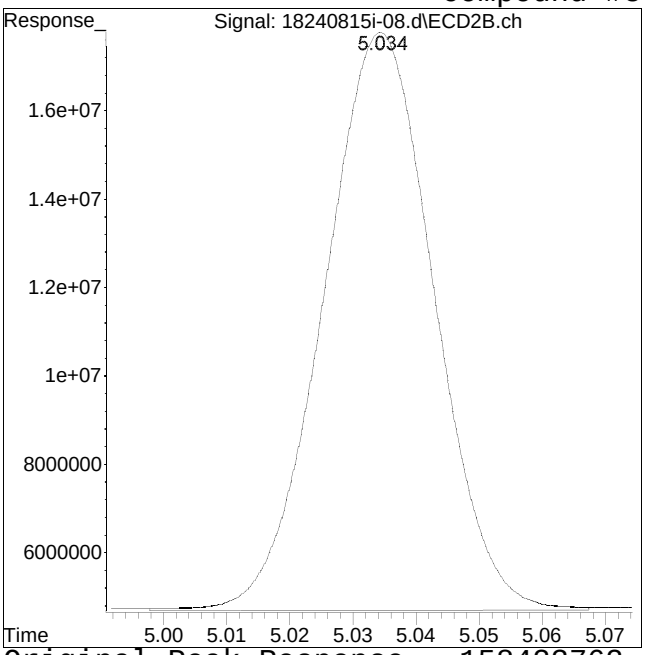


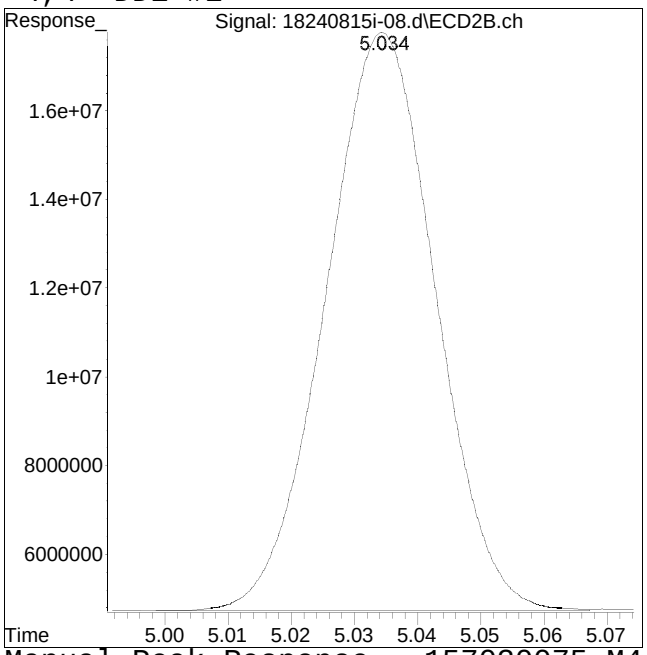
Original Peak Response = 268370122 Manual Peak Response = 267203915 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #53: 4,4'-DDE #2





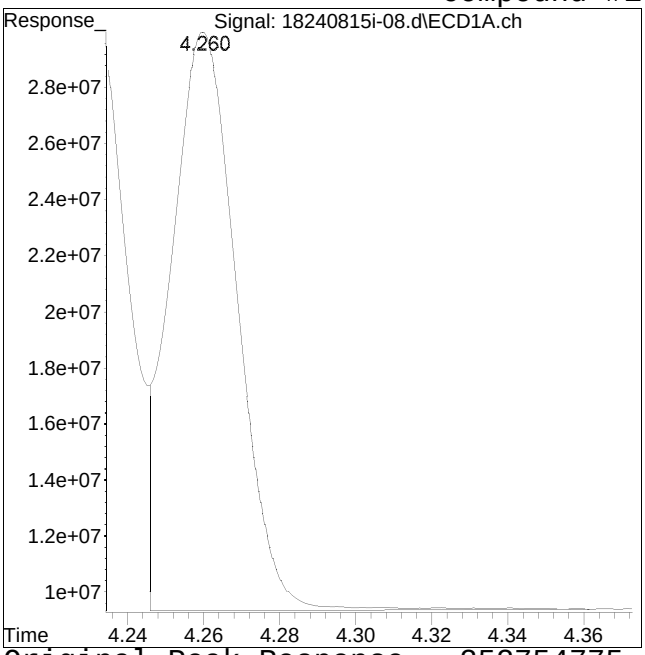
Original Peak Response = 158423762 Manual Peak Response = 157030075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

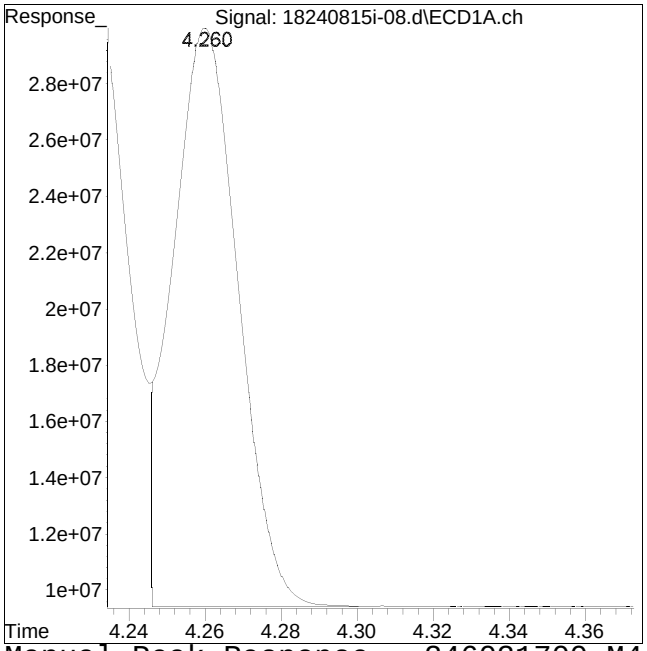
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #16: Endosulfan I



Original Peak Response = 252754775



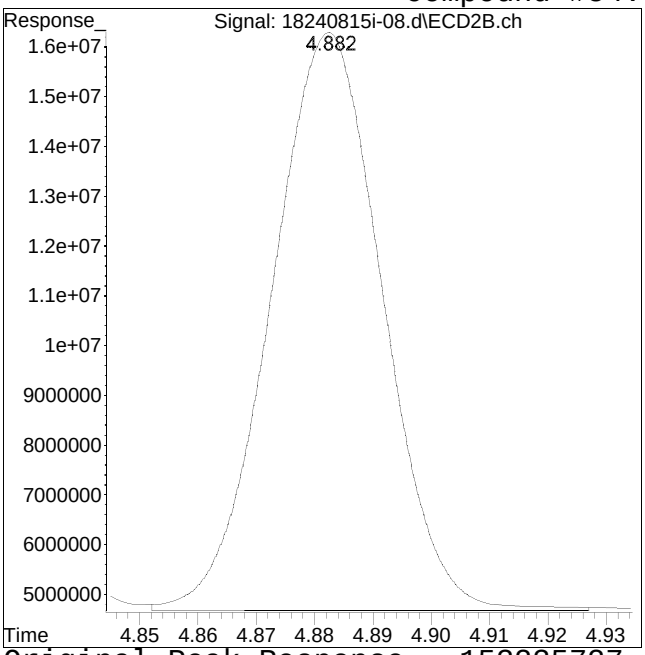
Manual Peak Response = 246031700 M4

M4 = Poor automated baseline construction.

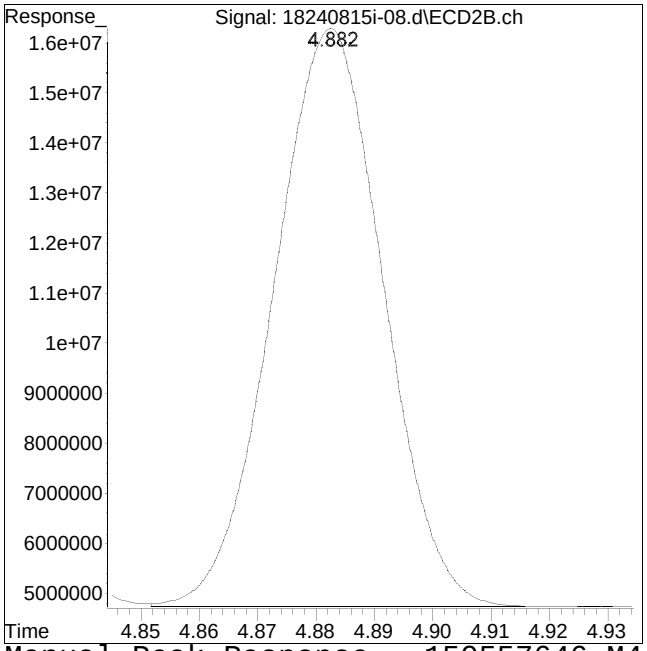
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #54: Endosulfan I #2



Original Peak Response = 153235727

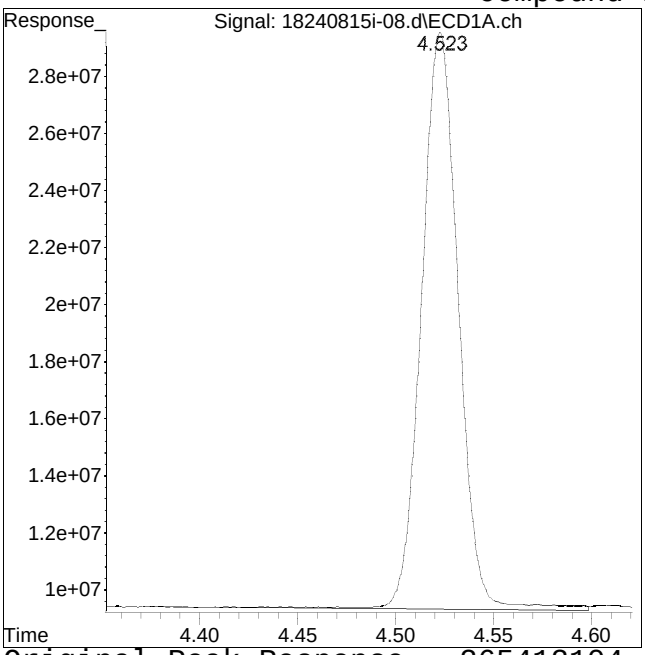


Manual Peak Response = 150557646 M4
M4 = Poor automated baseline construction.

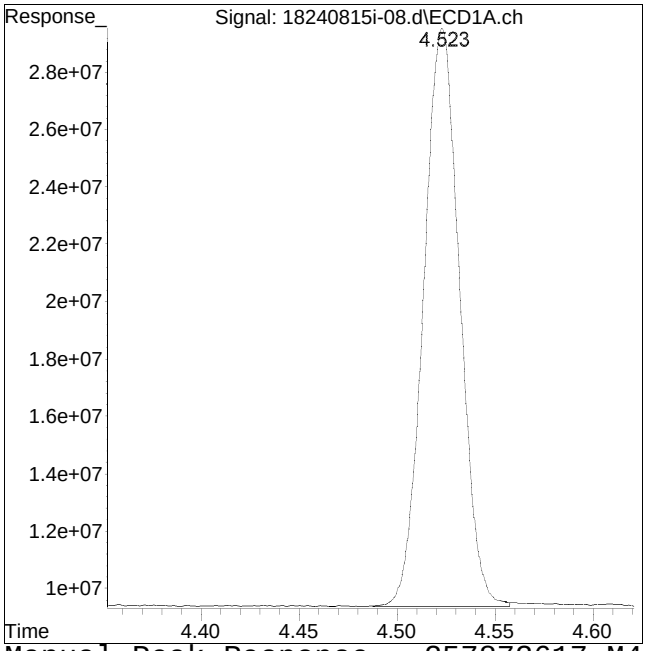
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #17: Dieldrin



Original Peak Response = 265412104



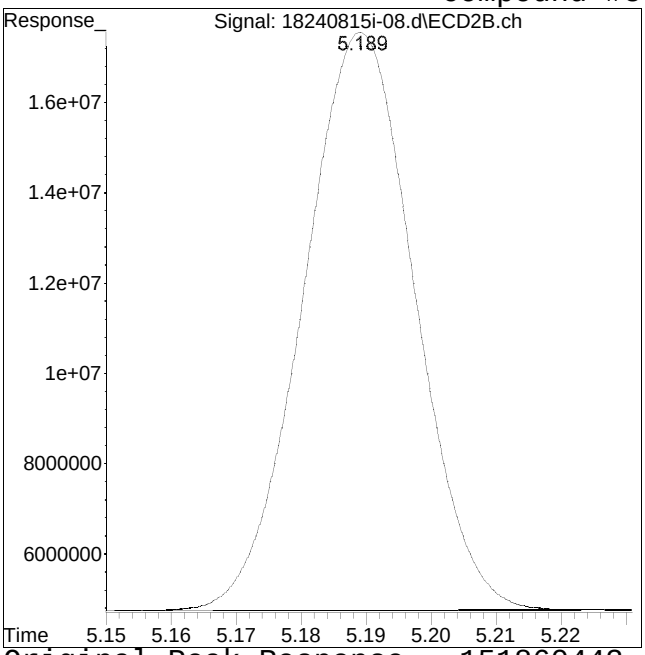
Manual Peak Response = 257873617 M4

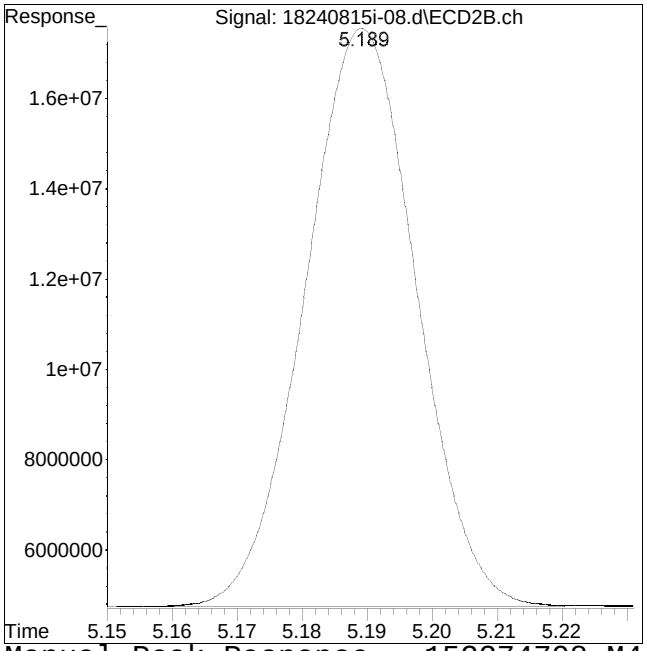
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #55: Dieldrin #2



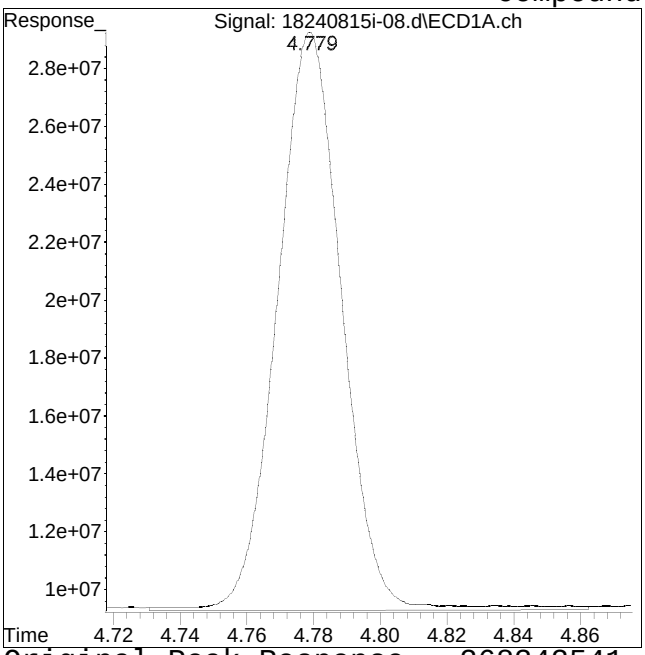


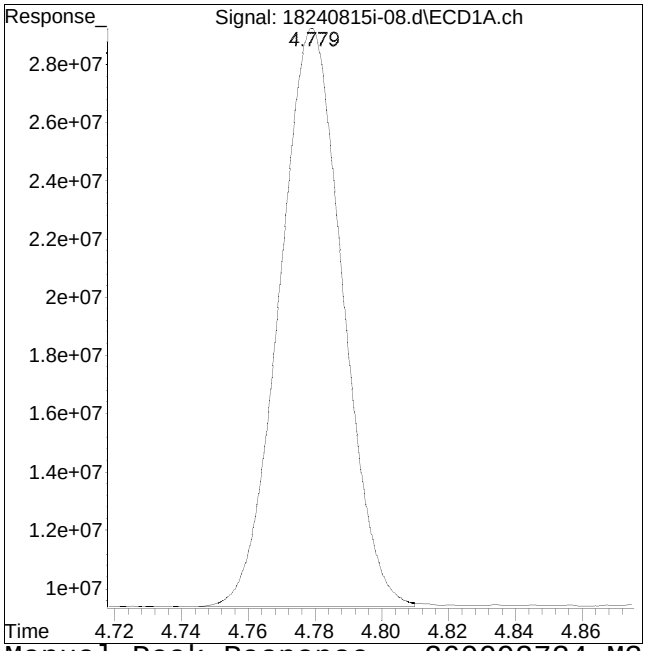
Original Peak Response = 151860443 Manual Peak Response = 152274798 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #18: Endrin



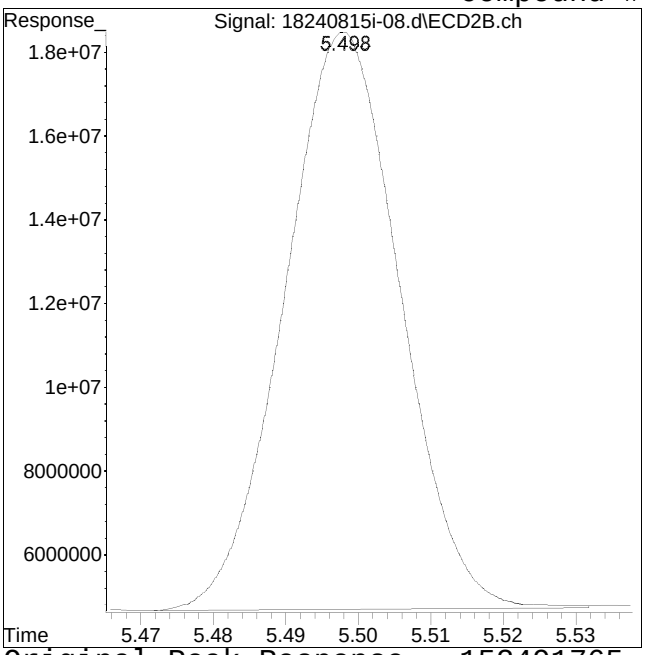


Original Peak Response = 268342541 Manual Peak Response = 260093734 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

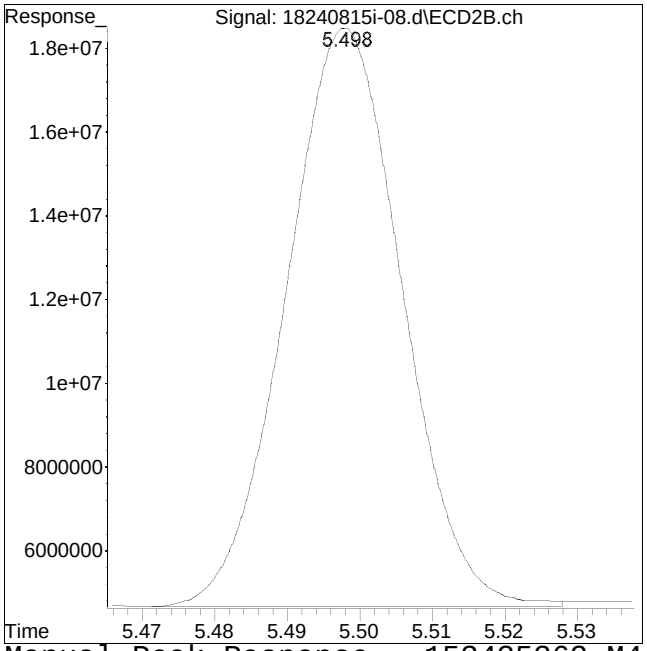
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #56: Endrin #2



Original Peak Response = 152491765

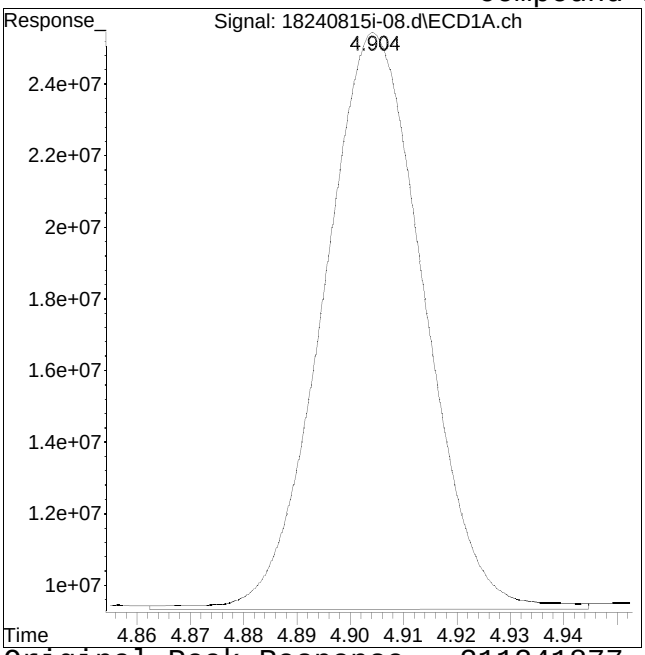


Manual Peak Response = 153435362 M4
M4 = Poor automated baseline construction.

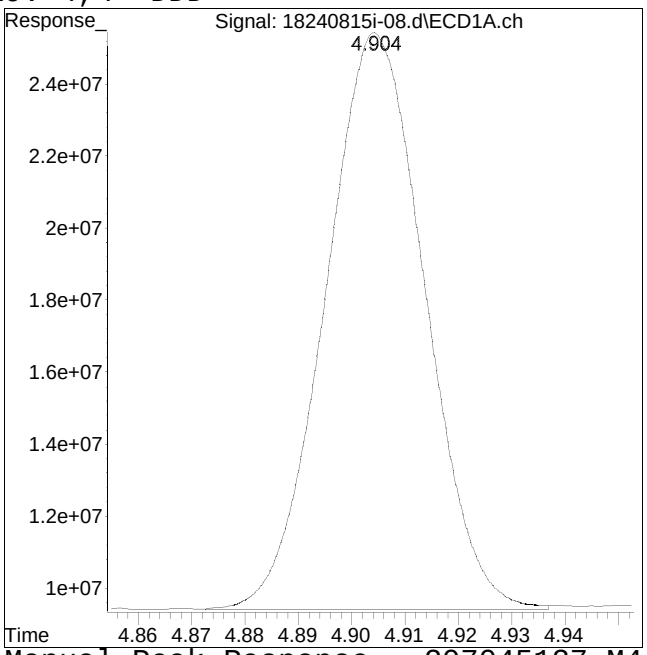
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #19: 4,4'-DDD



Original Peak Response = 211241877



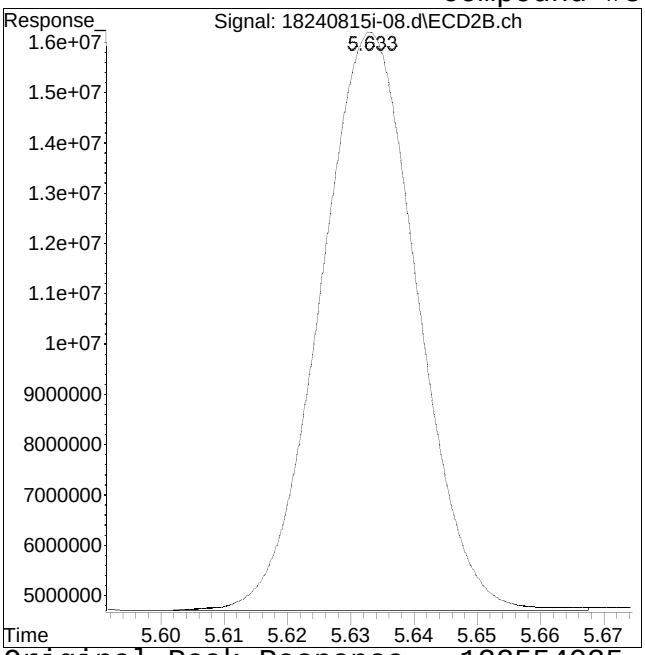
Manual Peak Response = 207045127 M4

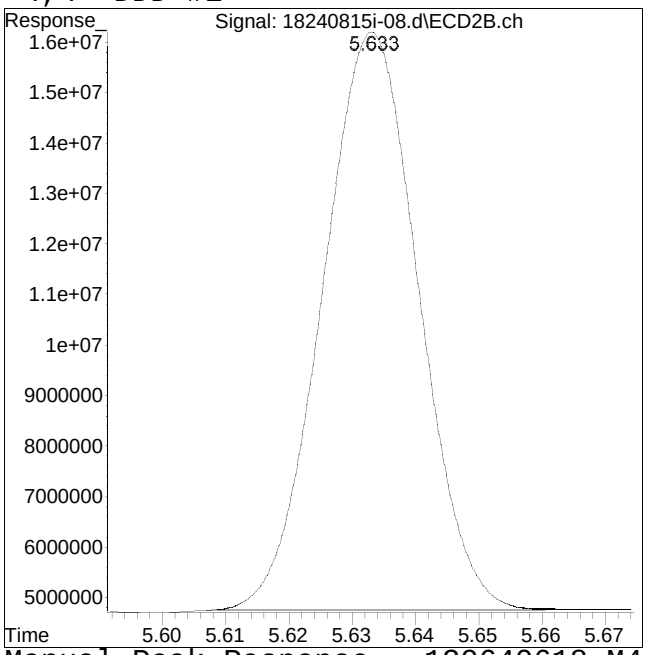
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #57: 4,4'-DDD #2



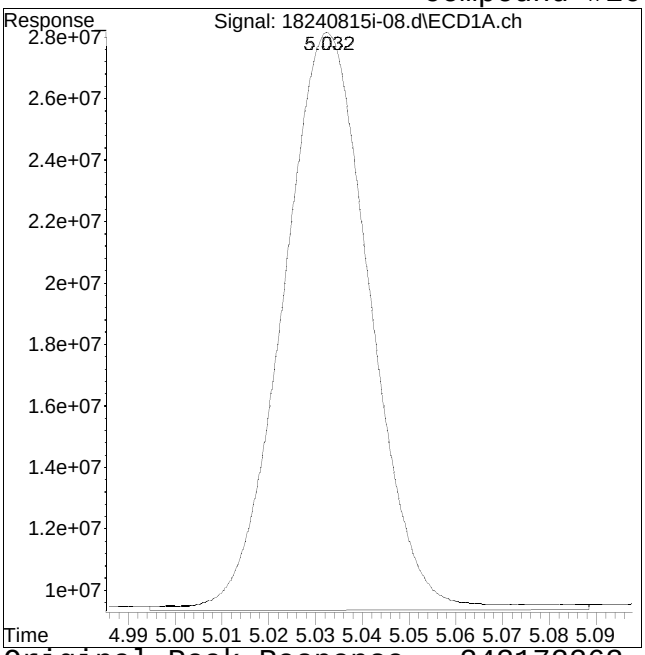


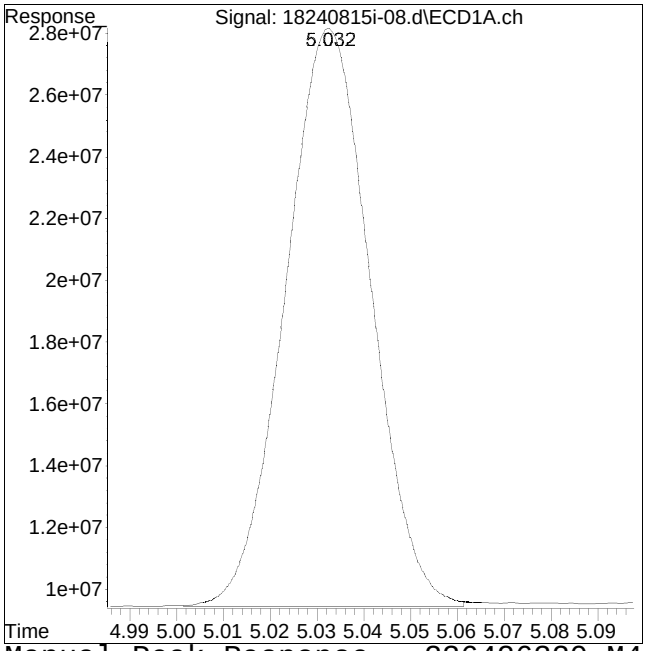
Original Peak Response = 122554935 Manual Peak Response = 120640618 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #20: Endosulfan II



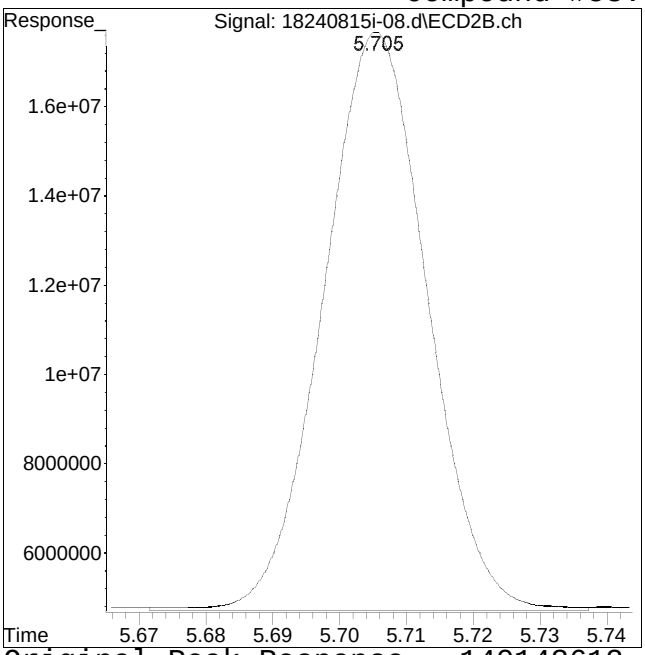


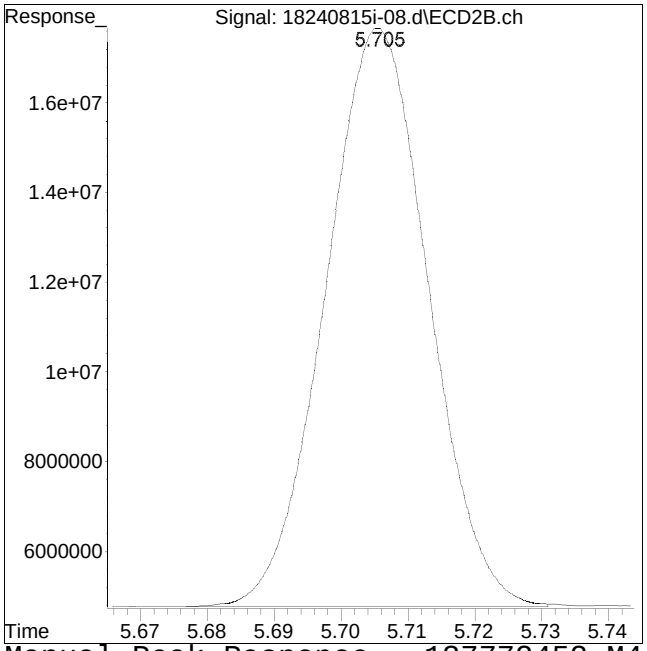
Original Peak Response = 243172363 Manual Peak Response = 236426320 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #58: Endosulfan II #2



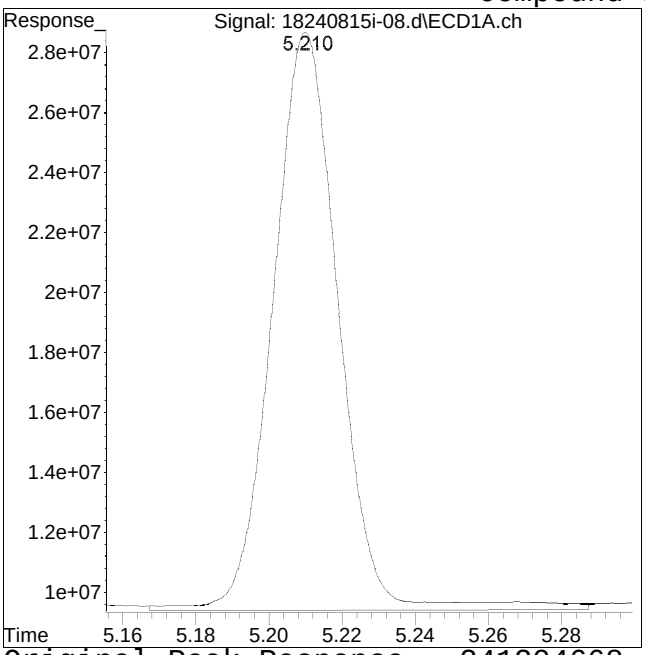


Original Peak Response = 140143612 Manual Peak Response = 137772452 M4
M4 = Poor automated baseline construction.

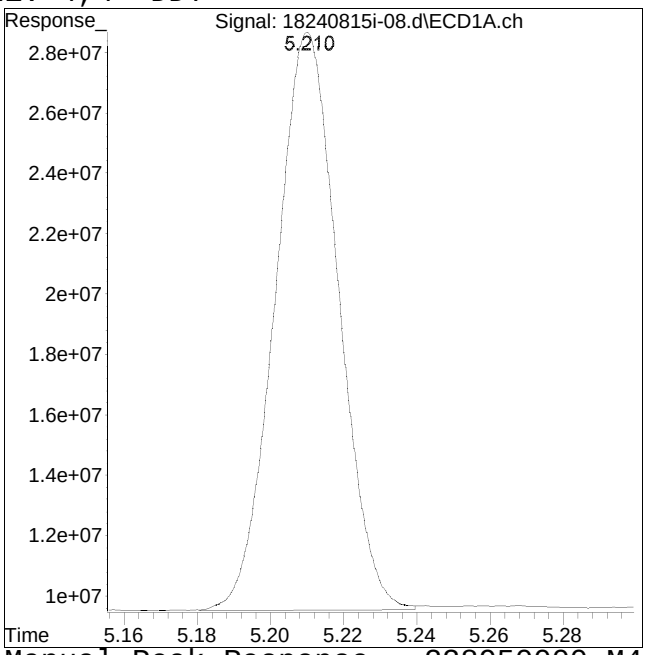
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #21: 4,4'-DDT



Original Peak Response = 241204668



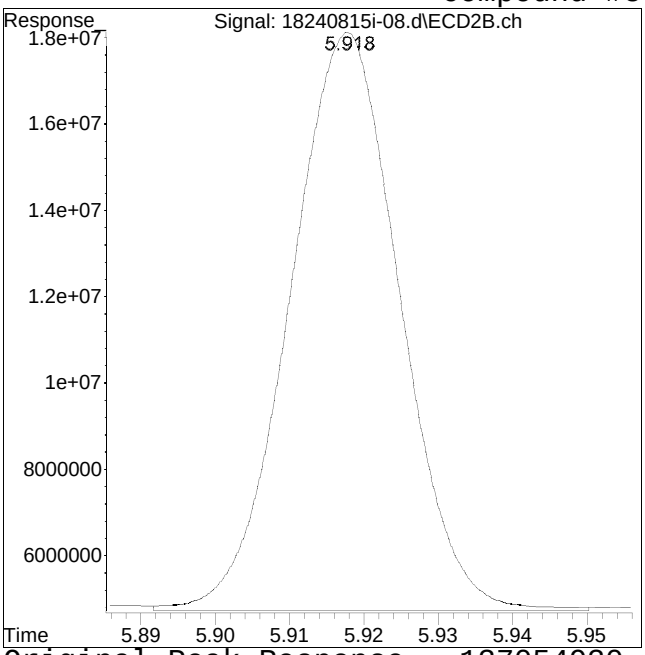
Manual Peak Response = 228950000 M4

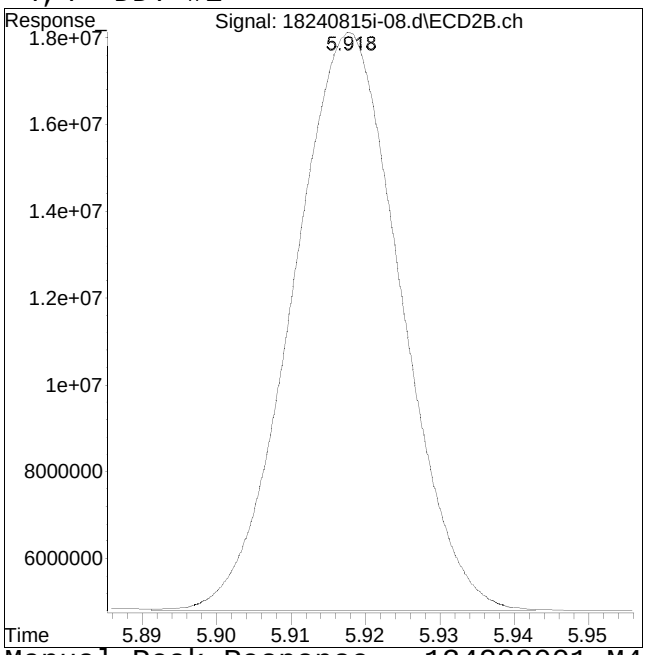
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #59: 4,4'-DDT #2



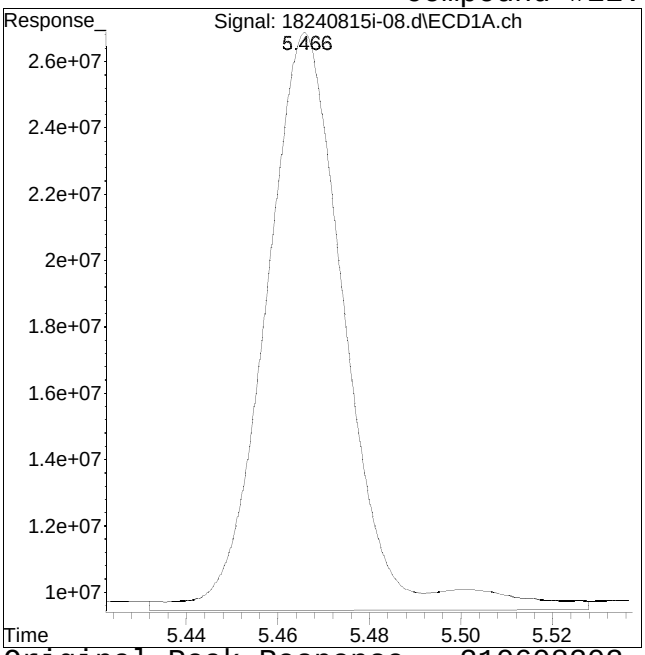


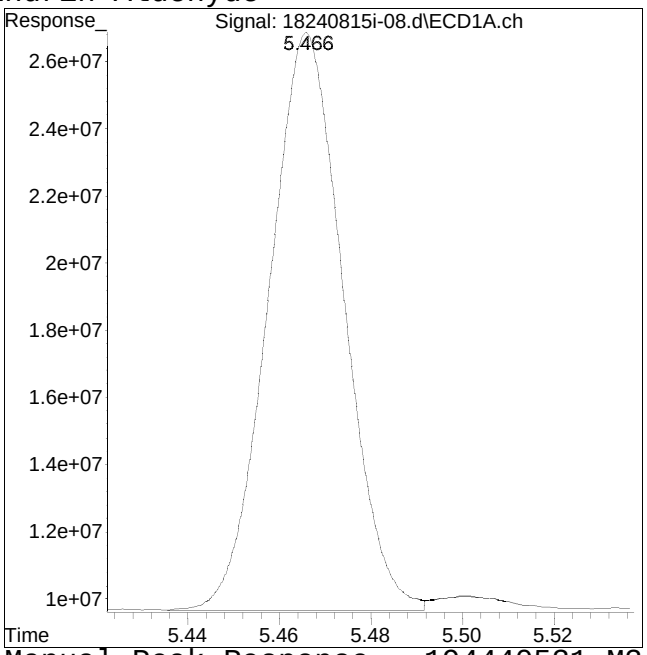
Original Peak Response = 137054930 Manual Peak Response = 134228001 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #22: Endrin Aldehyde



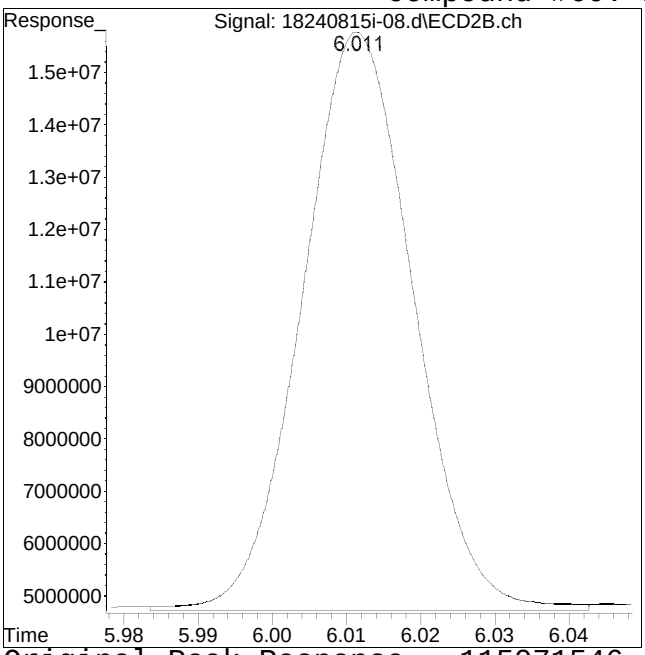


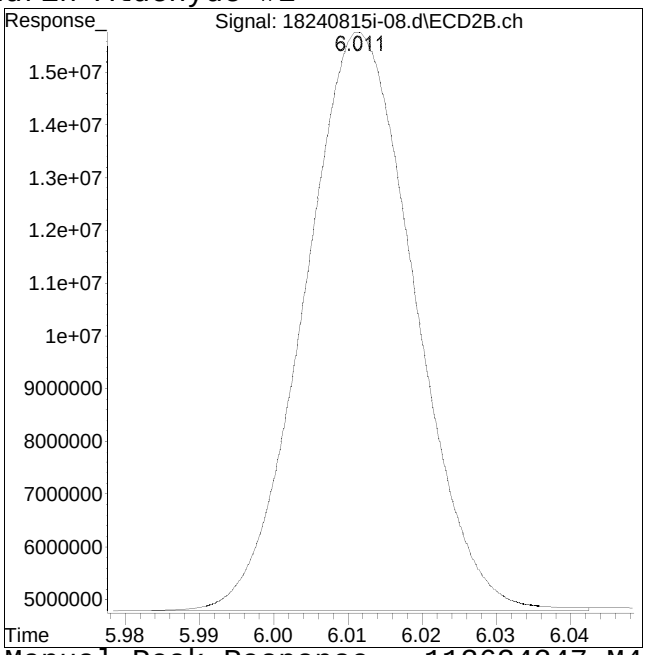
Original Peak Response = 210608303 Manual Peak Response = 194440531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #60: Endrin Aldehyde #2





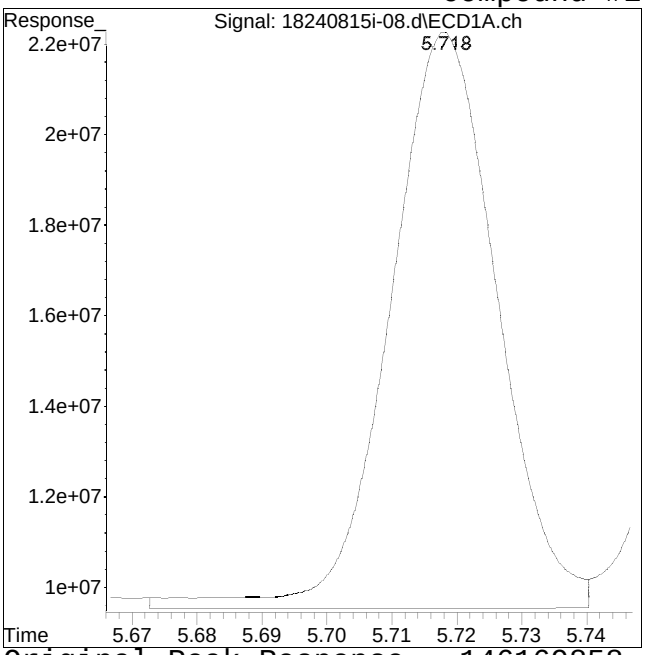
Original Peak Response = 115071546 Manual Peak Response = 112624247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

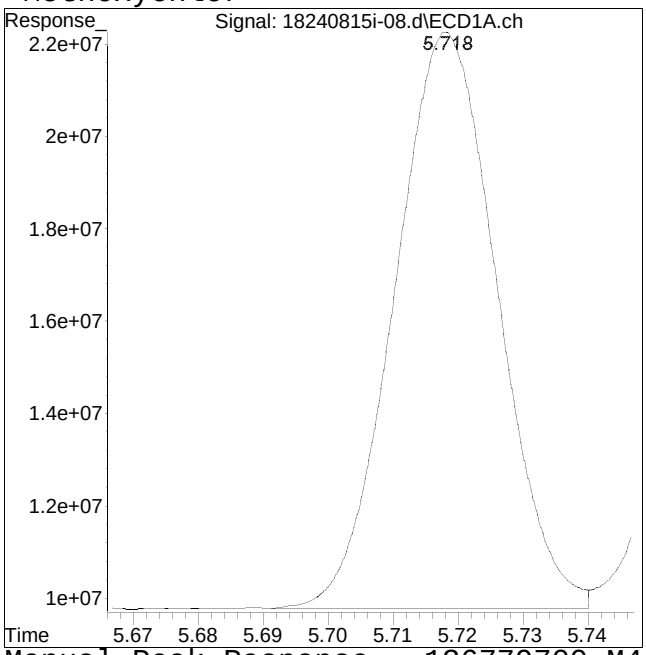
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #23: Methoxychlor



Original Peak Response = 146169858



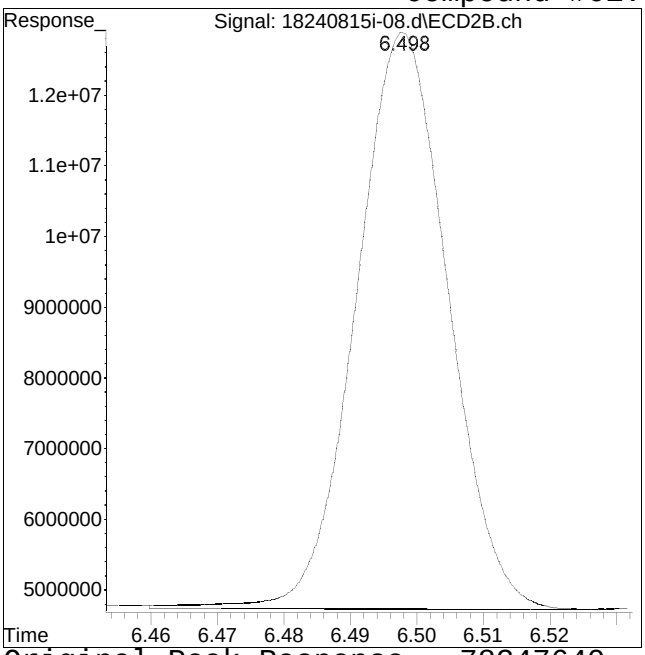
Manual Peak Response = 136779700 M4

M4 = Poor automated baseline construction.

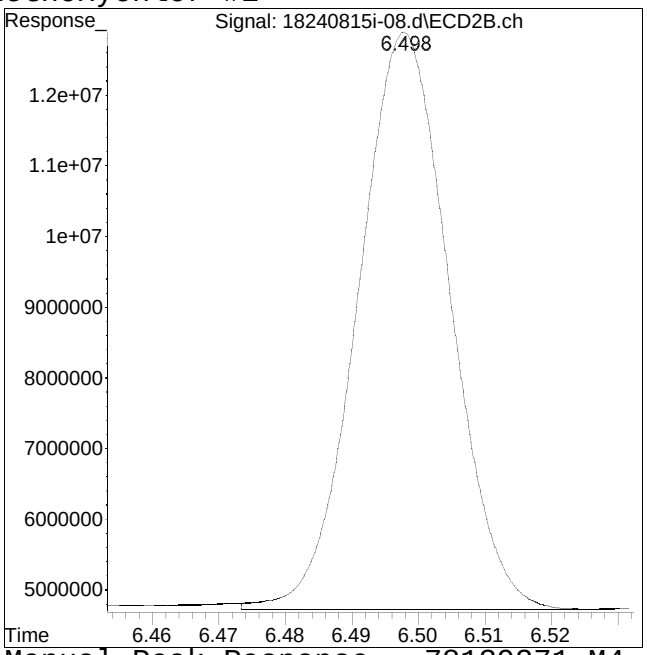
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #61: Methoxychlor #2



Original Peak Response = 78347640



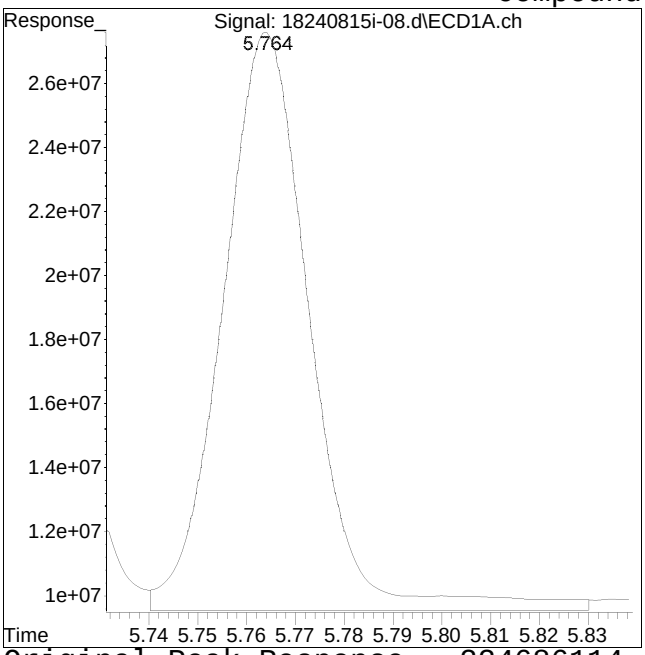
Manual Peak Response = 78139271 M4

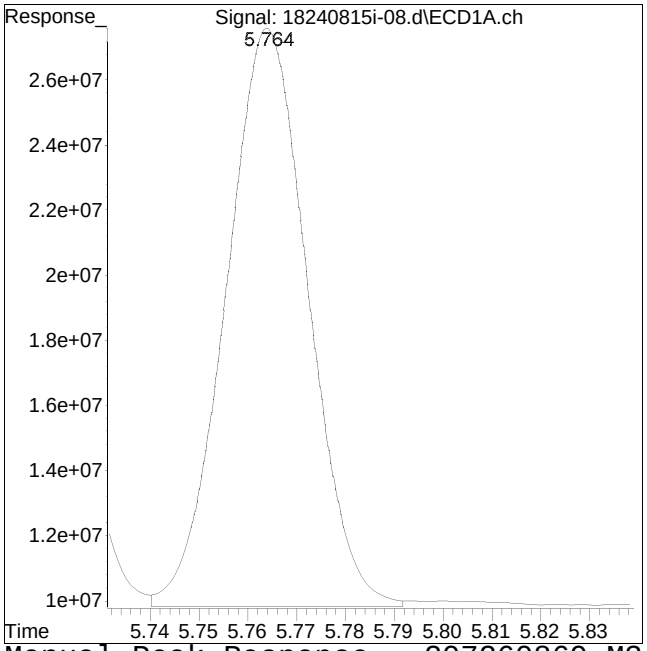
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #24: Mirex



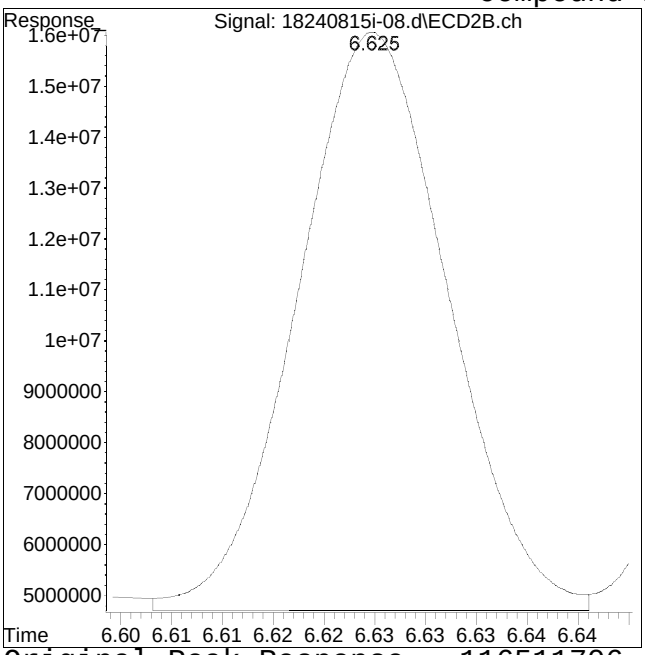


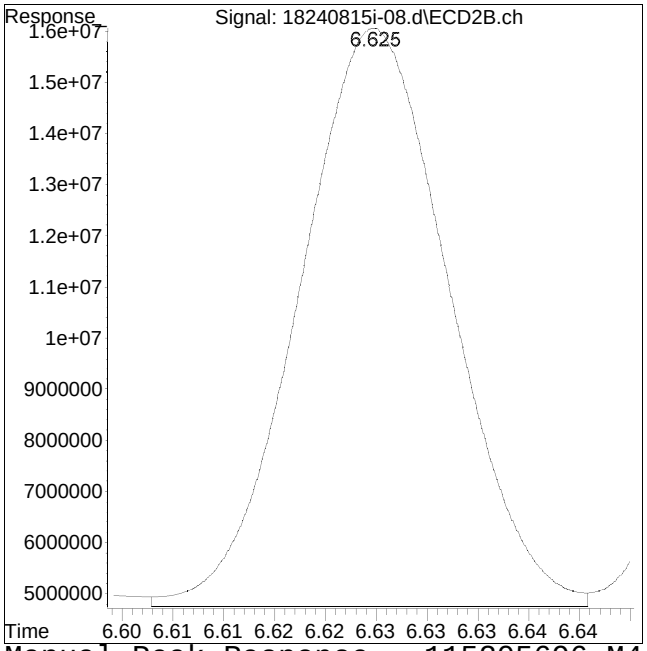
Original Peak Response = 224686114 Manual Peak Response = 207260869 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #62: Mirex #2



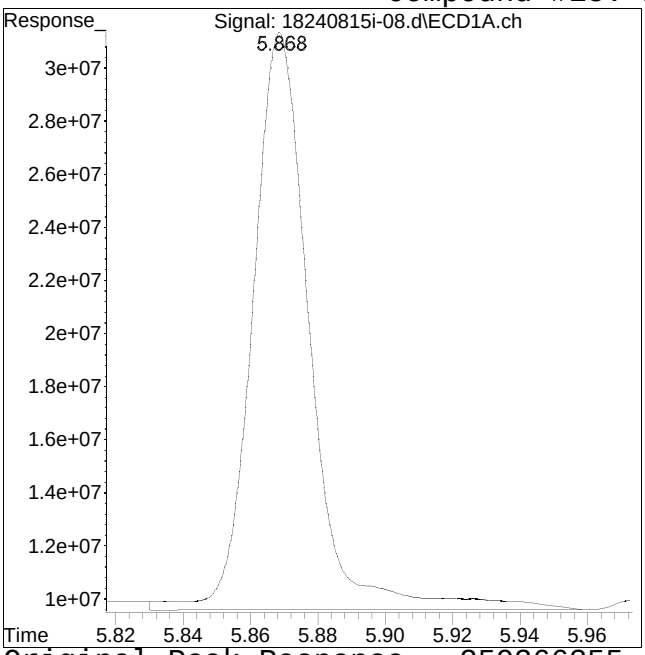


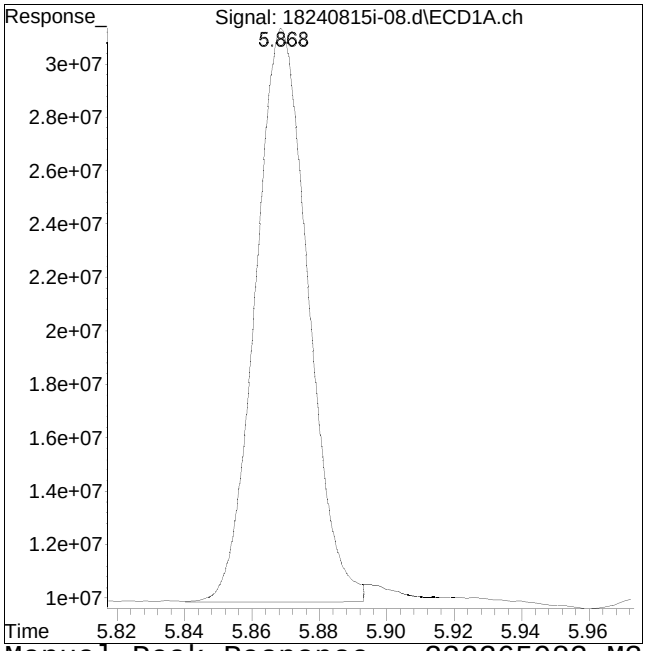
Original Peak Response = 116511706 Manual Peak Response = 115205696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #25: Endosulfan Sulfate



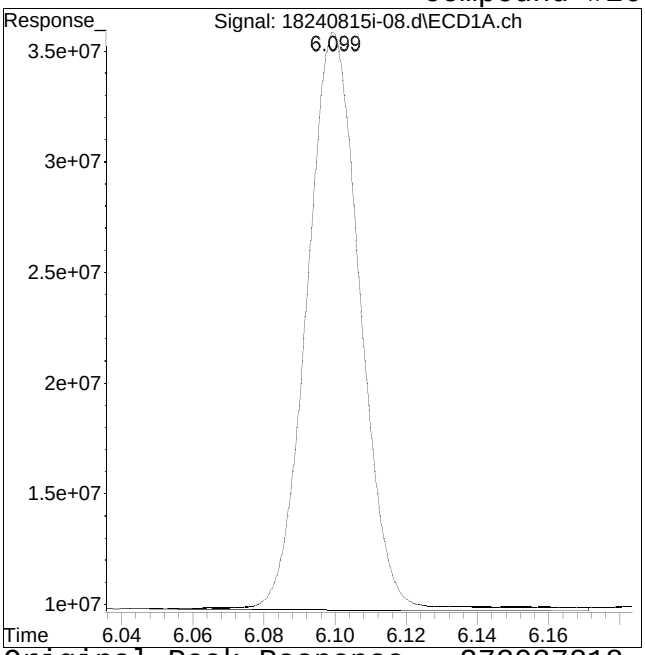


Original Peak Response = 259366355 Manual Peak Response = 232365983 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

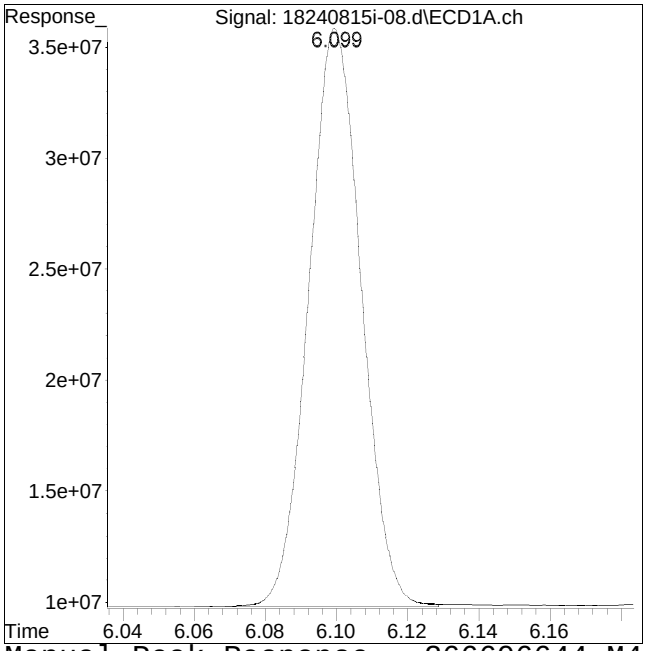
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #26: Endrin Ketone



Original Peak Response = 273037218



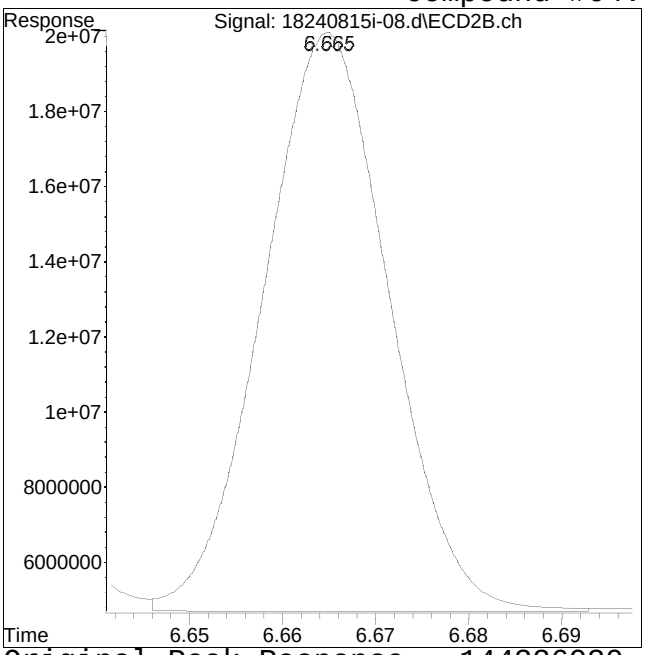
Manual Peak Response = 266606644 M4

M4 = Poor automated baseline construction.

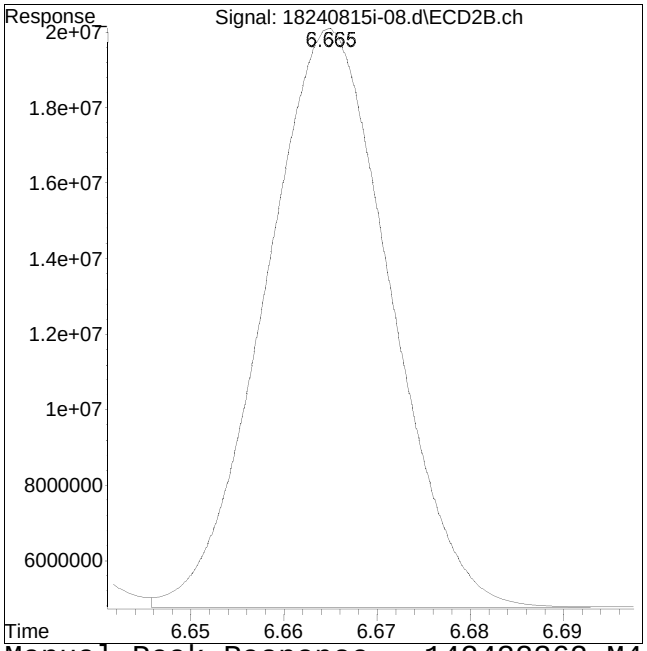
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #64: Endrin Ketone #2



Original Peak Response = 144326930

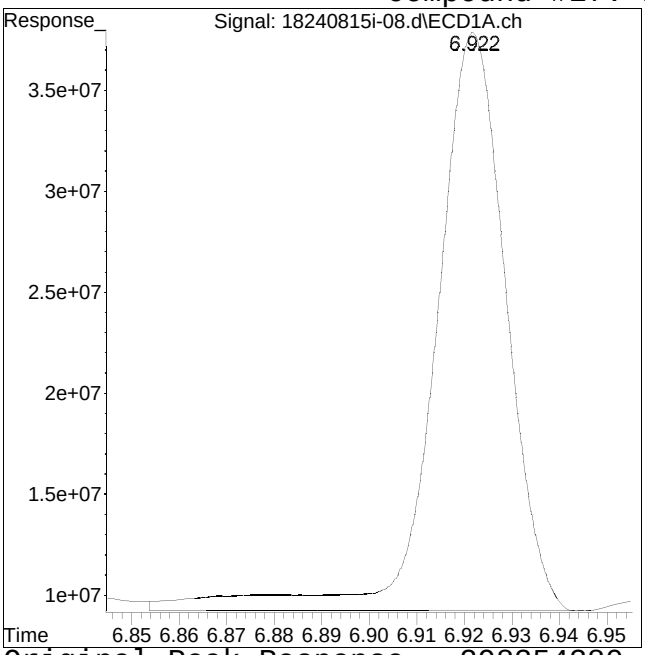


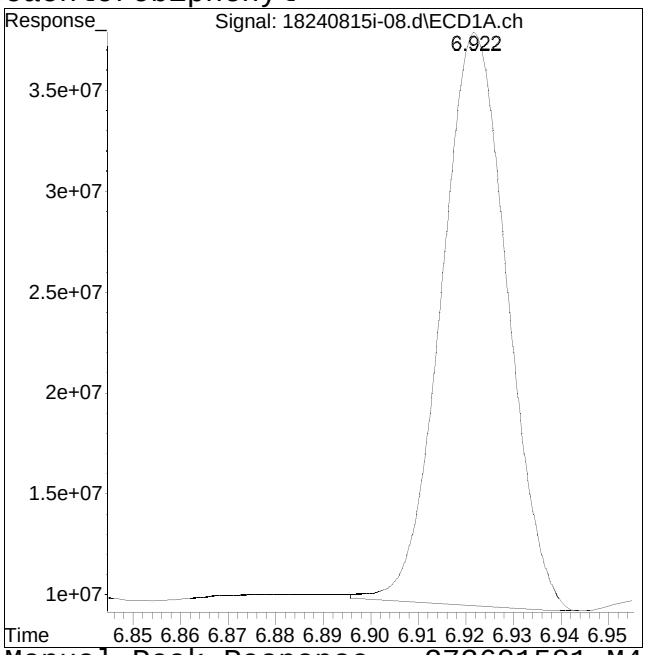
Manual Peak Response = 142432362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-08.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:02 Instrument : Pest 18
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/16/2024 7:24 am

Compound #27: Decachlorobiphenyl





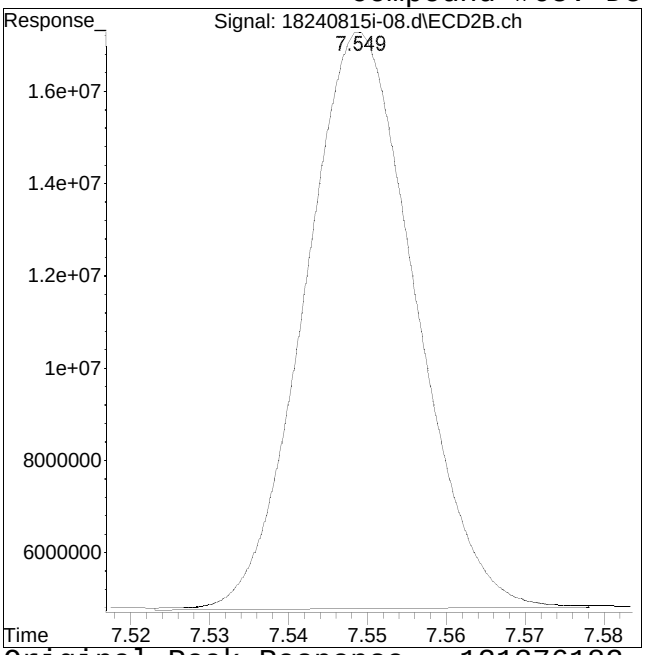
Original Peak Response = 298354380 Manual Peak Response = 273681581 M4
M4 = Poor automated baseline construction.

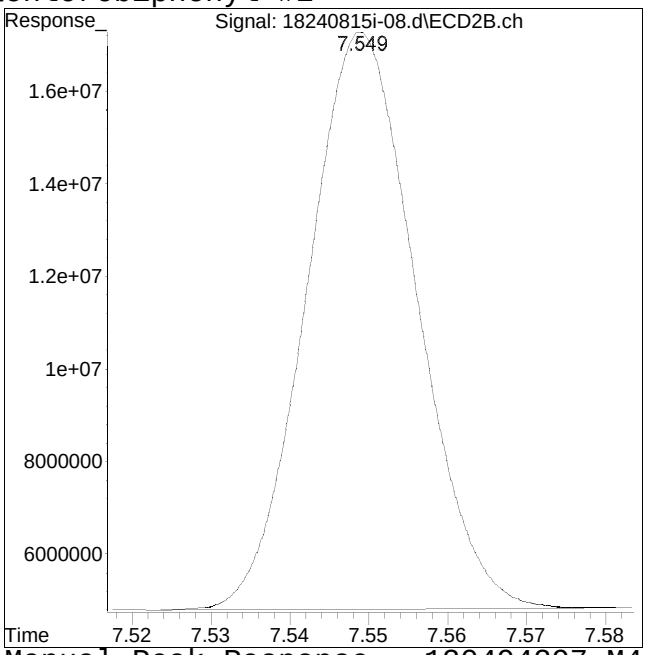
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-08.d
Date Inj'd : 8/15/2024 15:02
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 7:24 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 121376182 Manual Peak Response = 120494297 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:14
Operator : PEST18:peg
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:00:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:00:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	560.6E6	340.2E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.339	1294.5E6	776.7E6	50.000M4	50.000M3
		Spiked Amount 50.000	Range 30 - 150		Recovery =		100.00%	100.00%
27)	s	Decachlorobi	6.922	7.550	1338.8E6	598.5E6	50.000M4	50.000M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		100.00%	100.00%
		Target Compounds						
3)		Hexachlorobe	2.358	2.683	1490.2E6	792.7E6	50.000M3	50.000M4
4)		alpha-BHC	2.469	2.787	1705.7E6	1081.1E6	50.000M4	50.000M4
5)		gamma-BHC (l	2.688	3.082	1525.8E6	967.8E6	50.000M3	50.000M4
6)		beta-BHC	2.752	3.155	668.1E6	429.4E6	50.000M4	50.000M4
7)		delta-BHC	2.885	3.425	1552.4E6	980.2E6	50.000M4	50.000M4
8)		Heptachlor	3.054	3.483	1435.1E6	881.8E6	50.000M4	50.000M4
9)		Aldrin	3.303	3.804	1430.0E6	897.8E6	50.000M4	50.000M4
10)		Alachlor	3.441	3.699	203.2E6	126.3E6	50.000M4	50.000M4
11)		Chlorpyrifos	3.536	4.055	630.3E6	406.1E6	50.000M4	50.000M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:14
Operator : PEST18:peg
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:00:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:00:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.423	1270.1E6	827.7E6	50.000M3	50.000M4
13)		gamma-Chlord	3.988	4.646	1219.0E6	759.8E6	50.000M4	50.000M4
14)		alpha-Chlord	4.125	4.821	1373.2E6	845.3E6	50.000M4	50.000
15)		4,4'-DDE	4.230	5.034	1413.3E6	867.5E6	50.000M4	50.000M4
16)		Endosulfan I	4.259	4.883	1242.8E6	786.8E6	50.000M4	50.000
17)		Dieldrin	4.522	5.189	1329.6E6	821.4E6	50.000M4	50.000M4
18)		Endrin	4.779	5.498	1334.4E6	809.7E6	50.000M4	50.000M4
19)		4,4'-DDD	4.904	5.633	1087.6E6	664.2E6	50.000M4	50.000M4
20)		Endosulfan I	5.032	5.706	1196.1E6	720.7E6	50.000M4	50.000M4
21)		4,4'-DDT	5.210	5.918	1223.2E6	728.1E6	50.000M4	50.000M4
22)		Endrin Aldeh	5.465	6.012	1004.3E6	598.3E6	50.000M3	50.000M4
23)		Methoxychlor	5.718	6.498	662.1E6	381.9E6	50.000M4	50.000M4
24)		Mirex	5.764	6.625	985.6E6	559.7E6	50.000M4	50.000M4
25)		Endosulfan S	5.868	6.246	1191.2E6	684.7E6	50.000M3	50.000M4
26)		Endrin Keton	6.099	6.665	1324.1E6	745.8E6	50.000M4	50.000M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:14
Operator : PEST18:peg
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:00:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:00:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

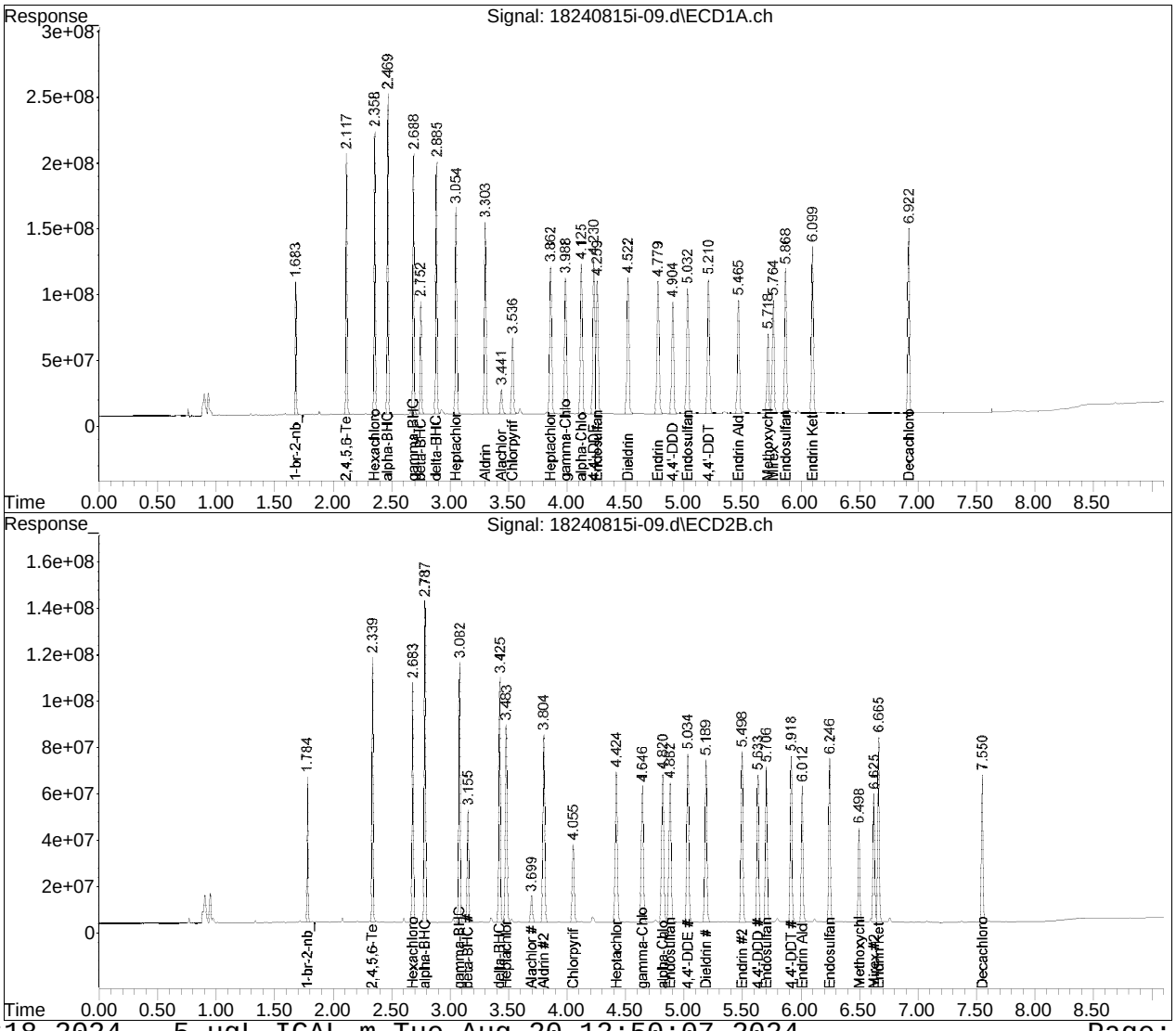
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:14
Operator : PEST18:peg
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:00:31 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:00:17 2024
Response via : Initial Calibration
Integrator: ChemStation

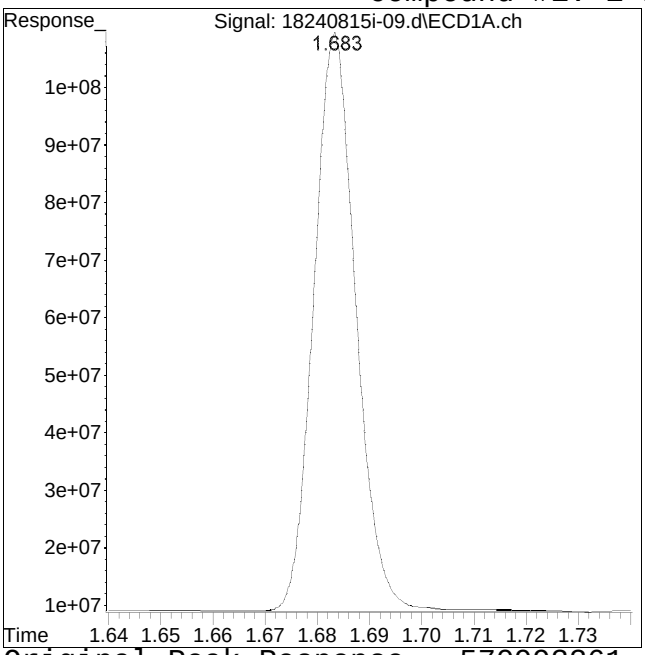
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



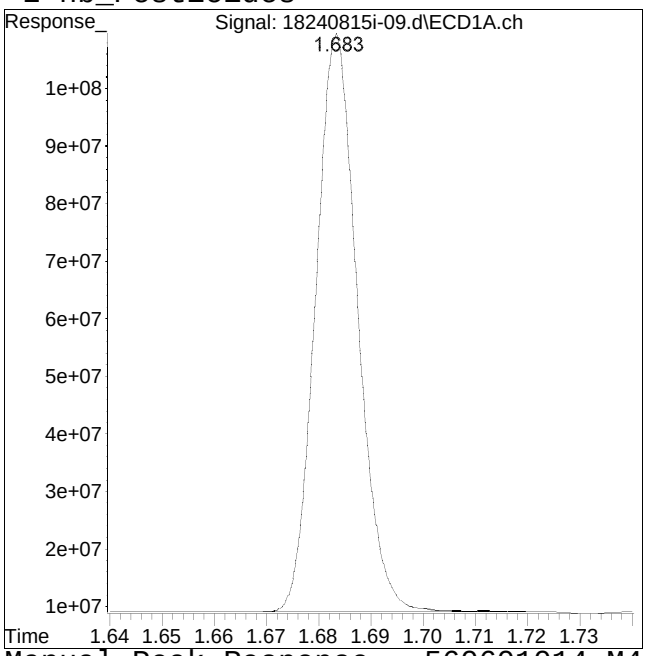
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 570993361



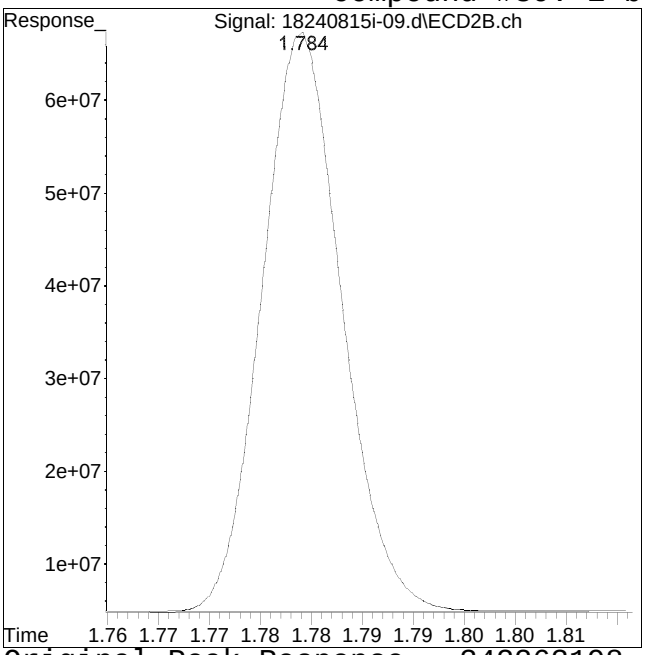
Manual Peak Response = 560601014 M4

M4 = Poor automated baseline construction.

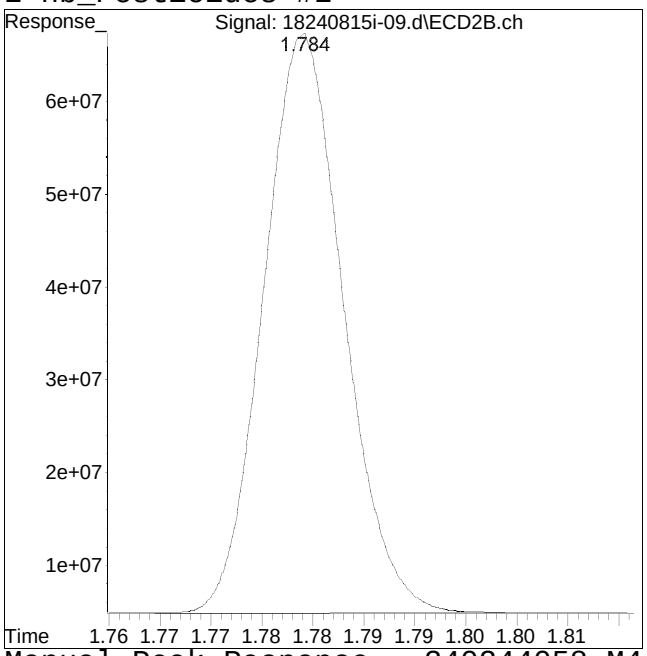
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-09.d
Date Inj'd : 8/15/2024 15:14
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:00 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 342263198



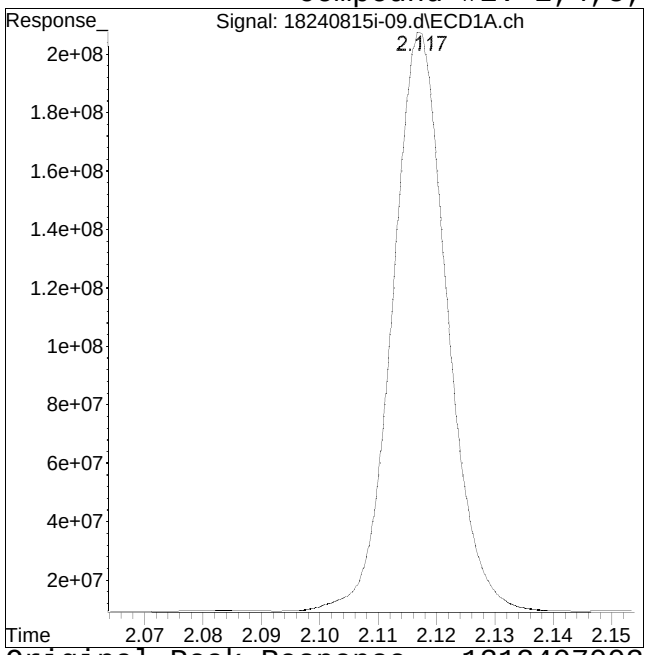
Manual Peak Response = 340244058 M4

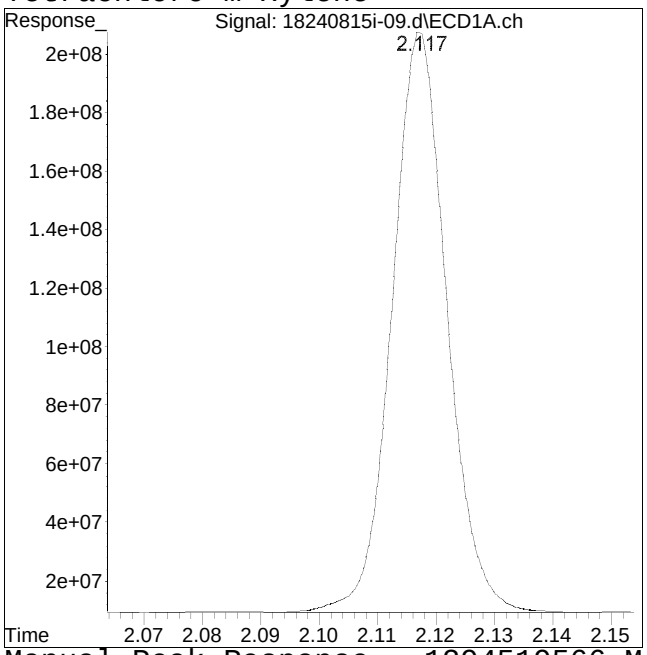
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



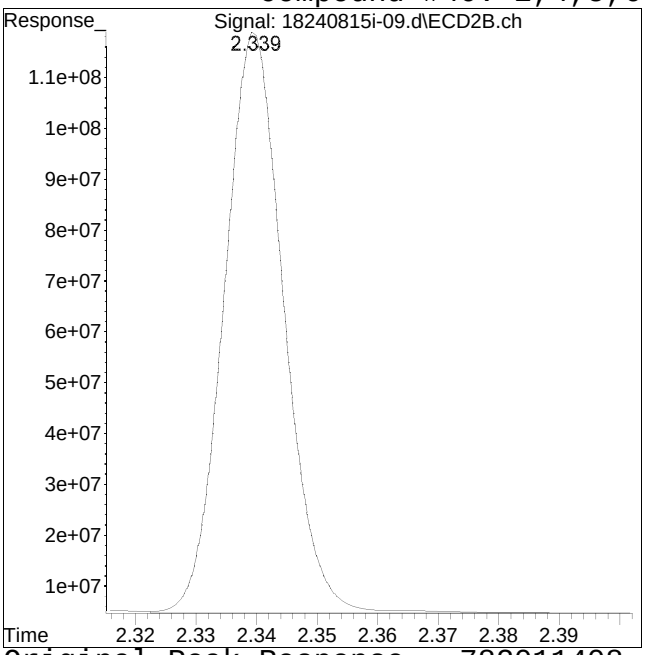


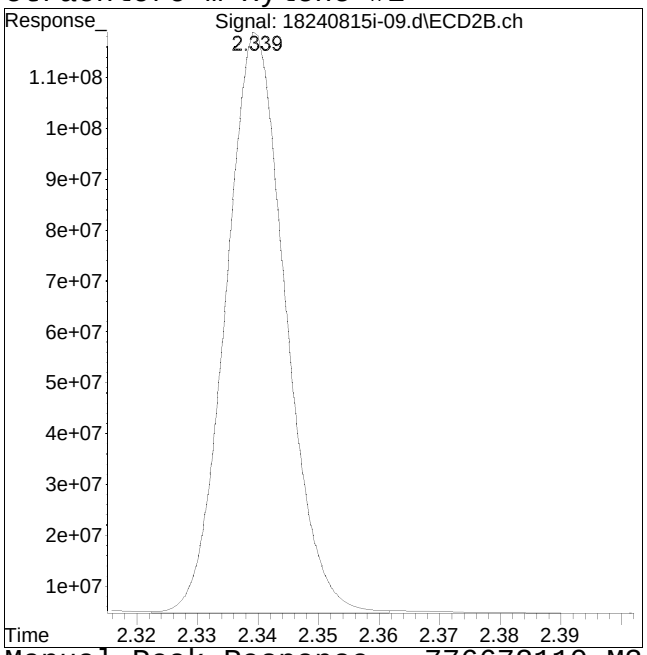
Original Peak Response = 1312407003 Manual Peak Response = 1294519566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



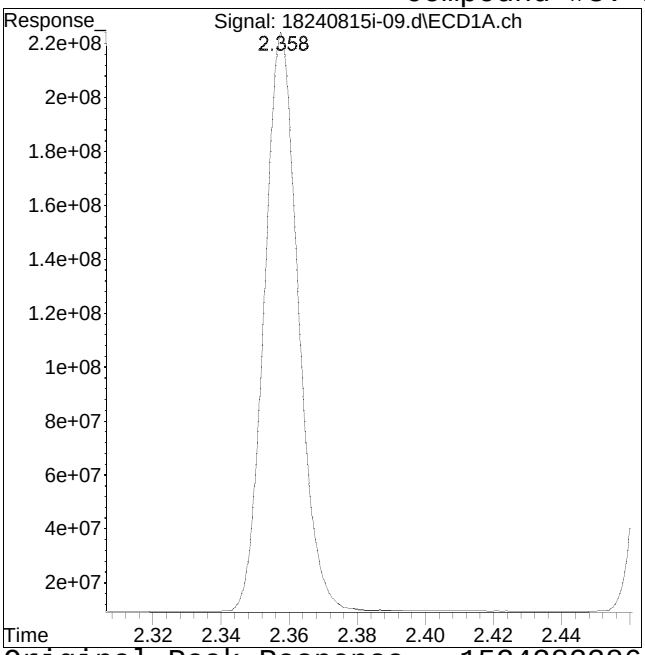


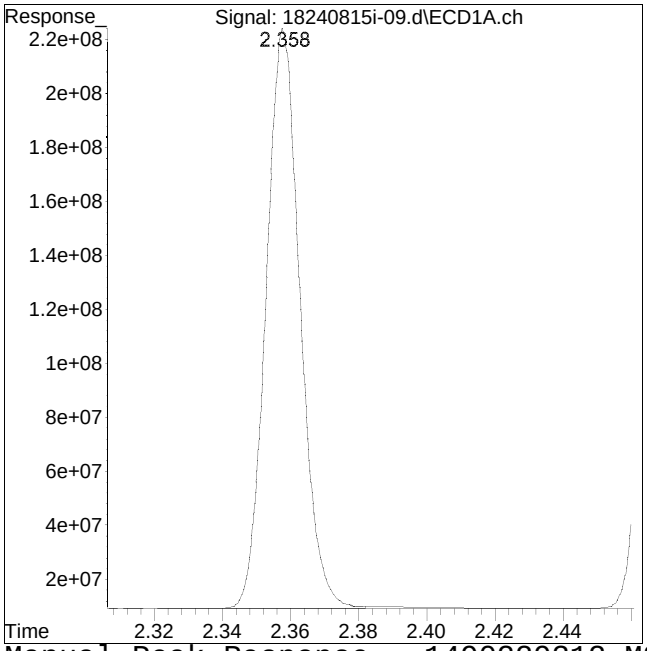
Original Peak Response = 782011408 Manual Peak Response = 776672110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #3: Hexachlorobenzene



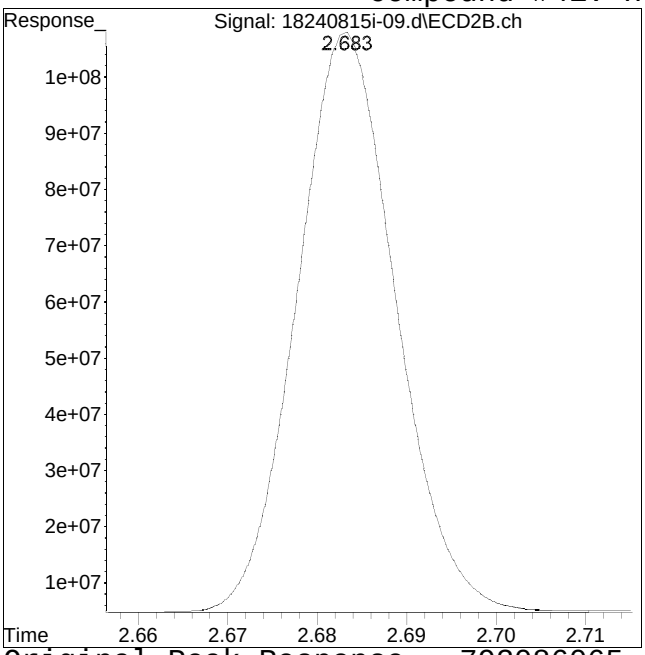


Original Peak Response = 1524383386 Manual Peak Response = 1490229312 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

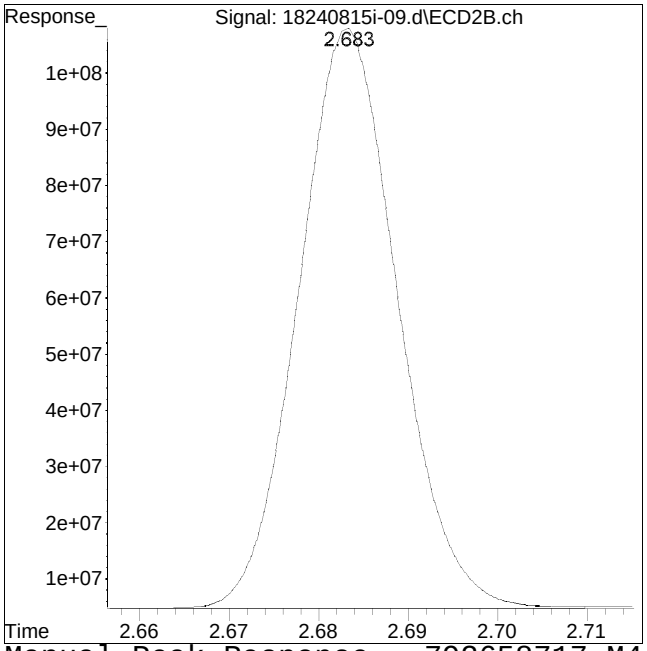
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 793086065

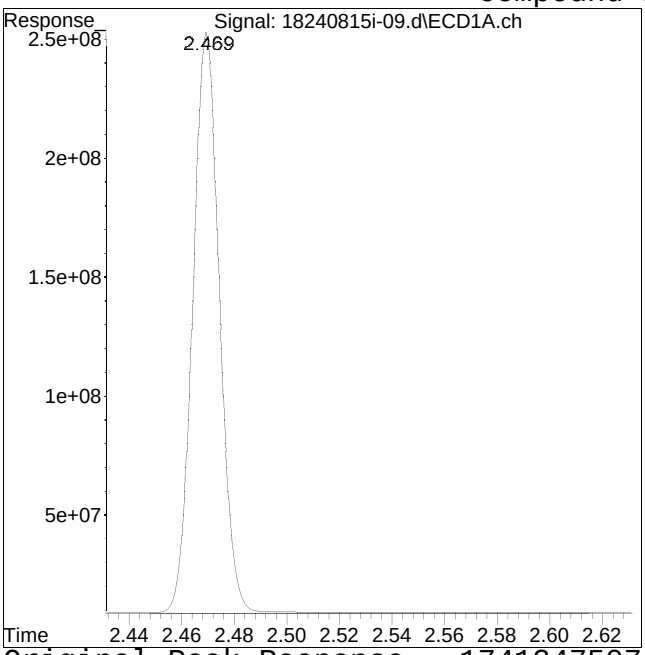


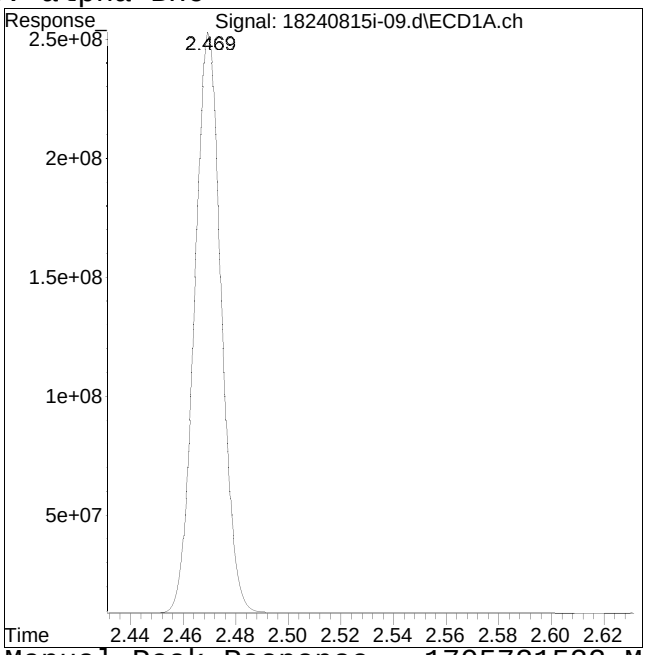
Manual Peak Response = 792658717 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #4: alpha-BHC



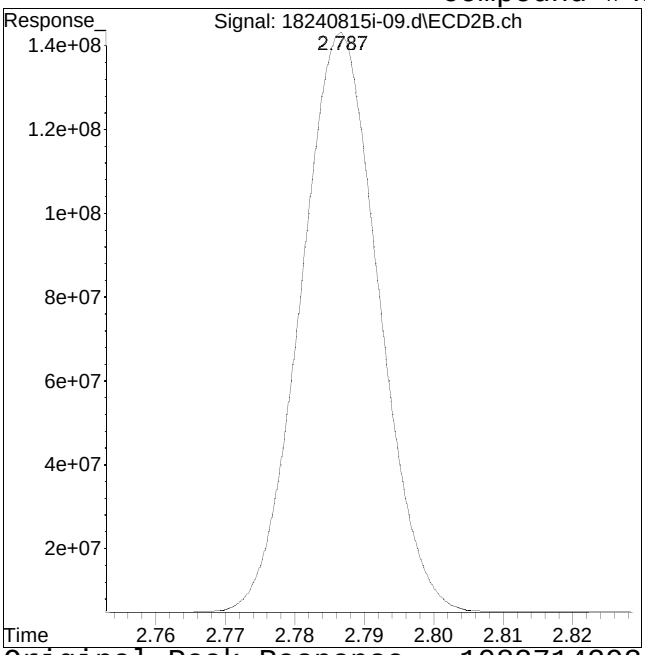


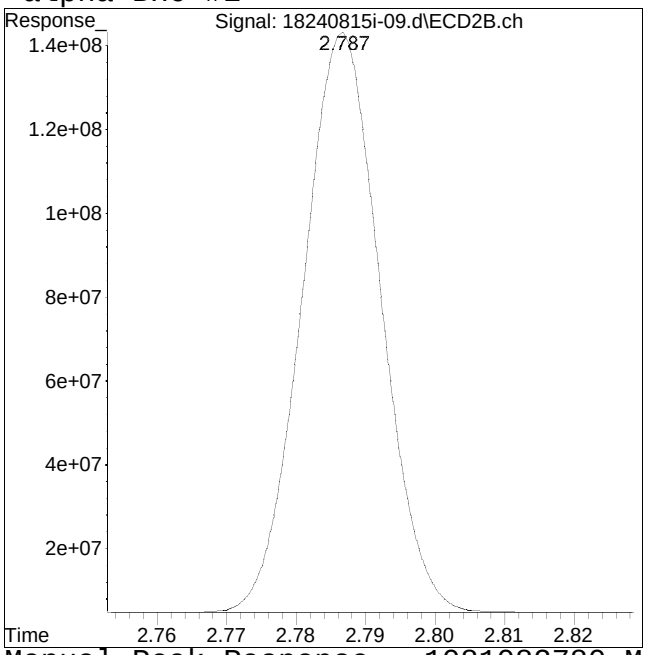
Original Peak Response = 1741247507 Manual Peak Response = 1705721522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #42: alpha-BHC #2



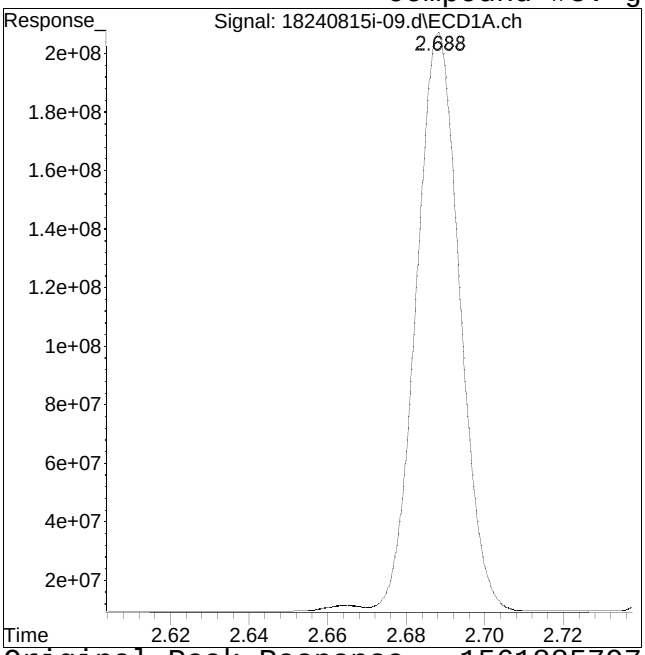


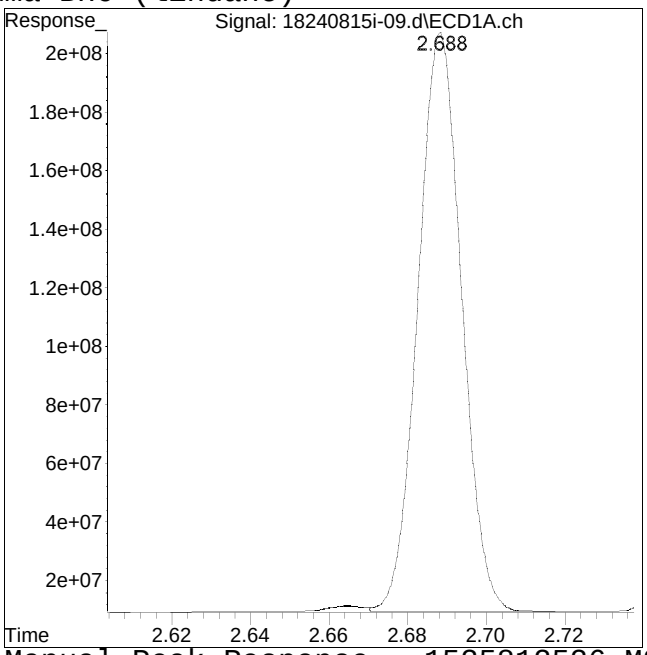
Original Peak Response = 1082714293 Manual Peak Response = 1081082780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #5: gamma-BHC (lindane)



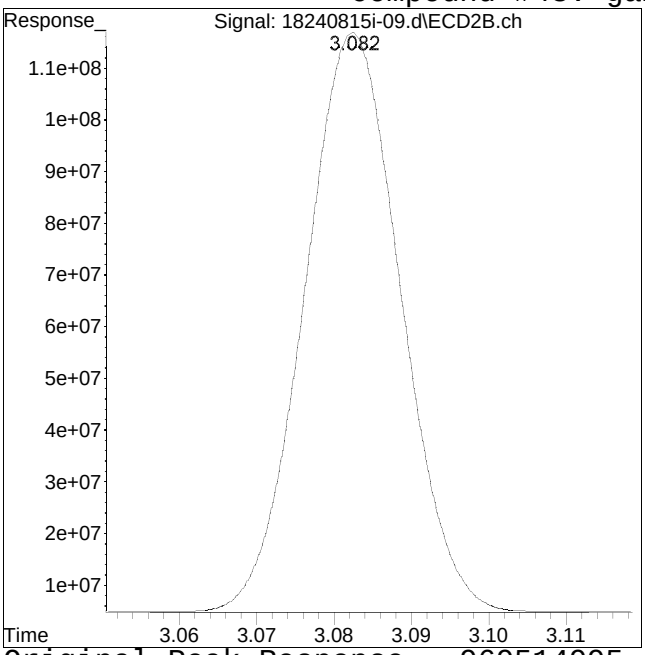


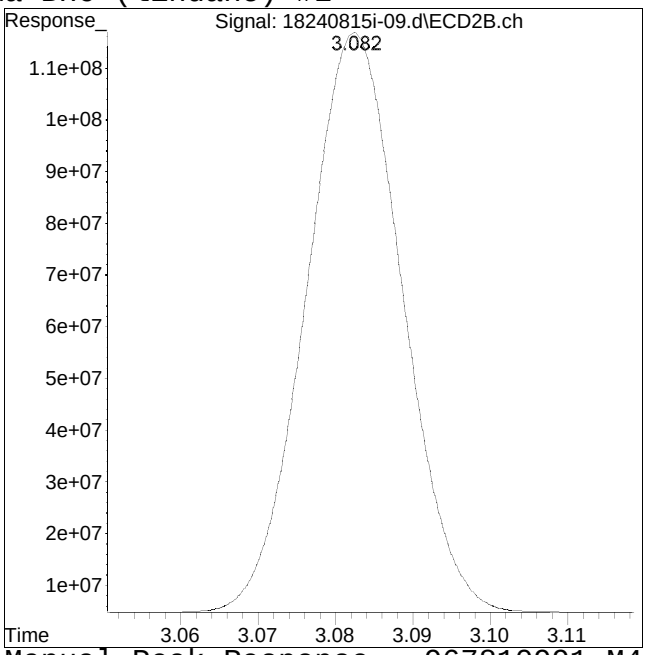
Original Peak Response = 1561885797 Manual Peak Response = 1525812526 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #43: gamma-BHC (lindane) #2



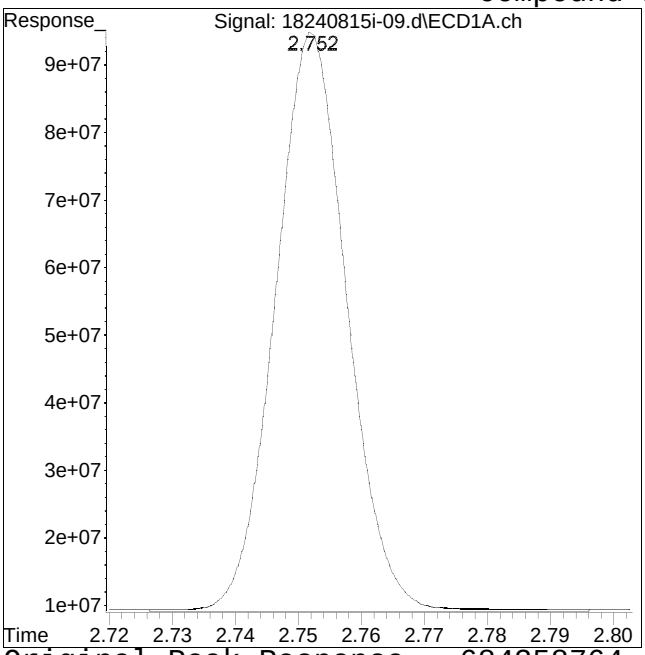


Original Peak Response = 969514995 Manual Peak Response = 967810991 M4
M4 = Poor automated baseline construction.

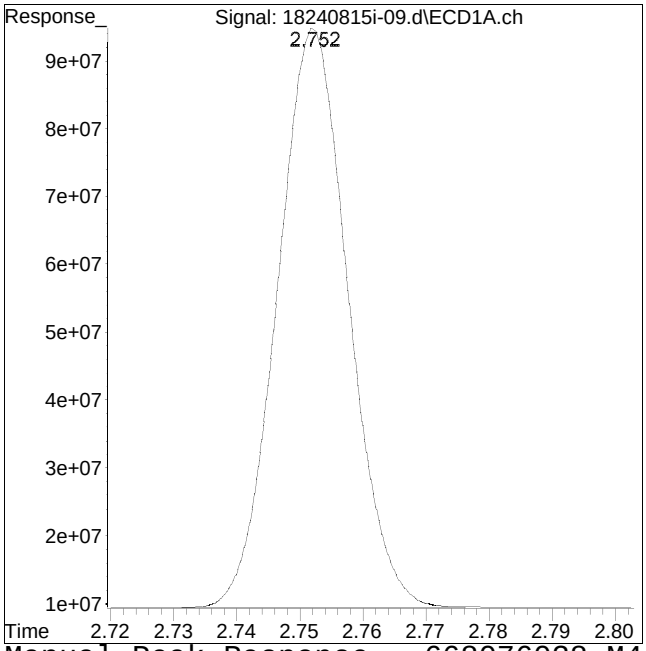
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #6: beta-BHC



Original Peak Response = 684358764

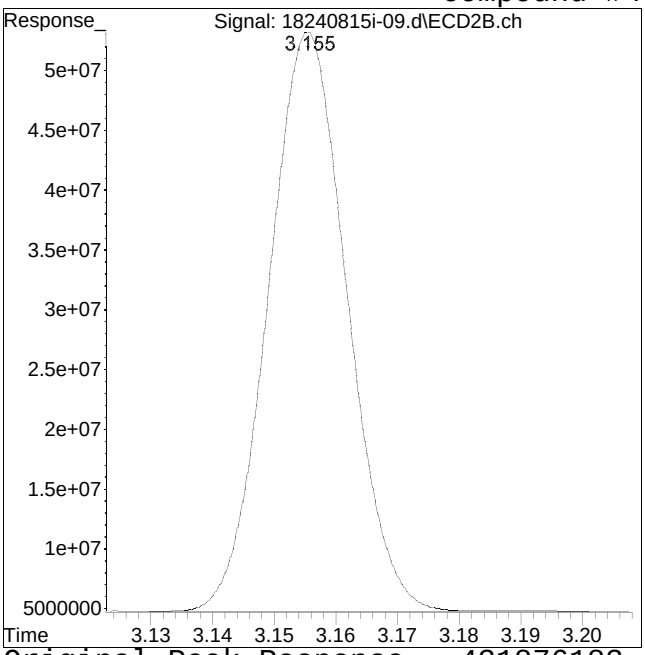


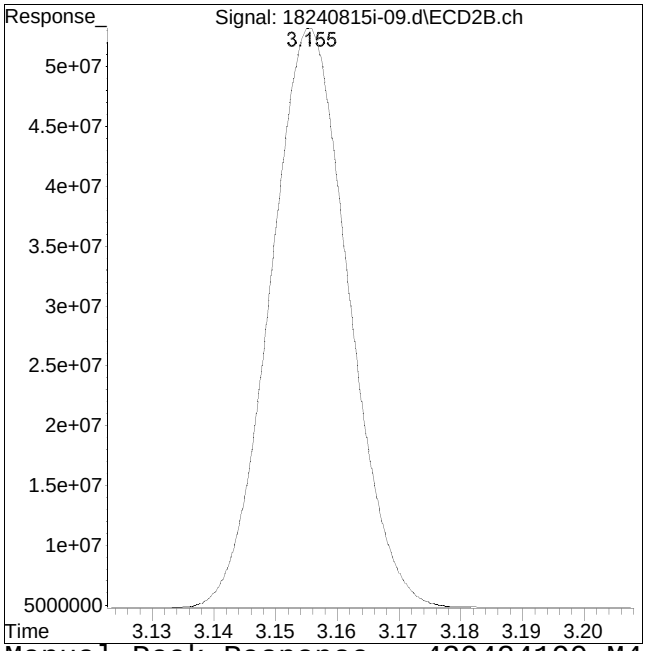
Manual Peak Response = 668076038 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #44: beta-BHC #2



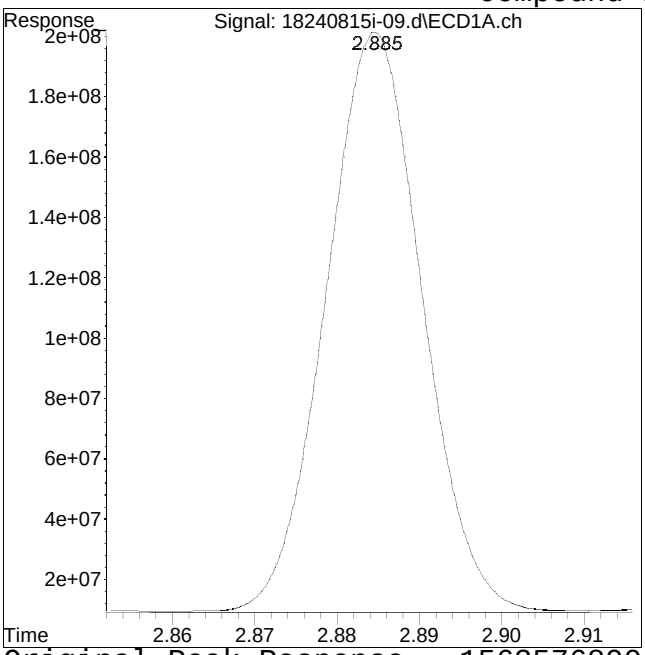


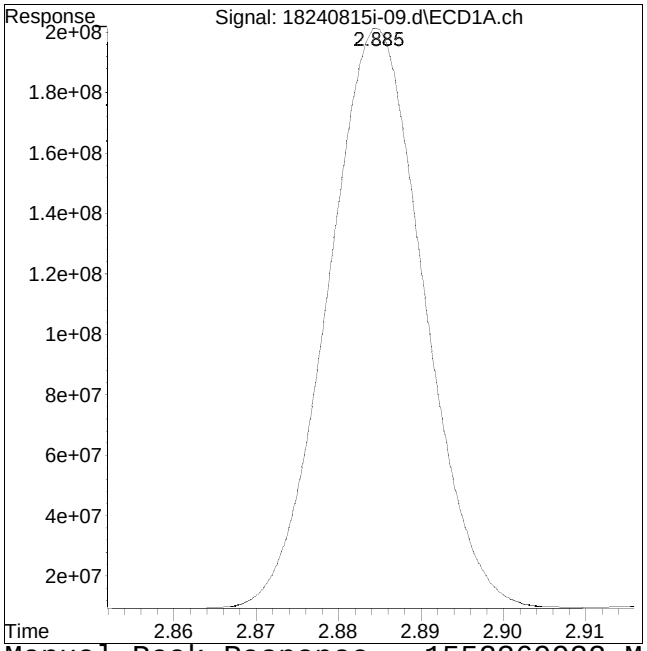
Original Peak Response = 431876183 Manual Peak Response = 429424190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #7: delta-BHC



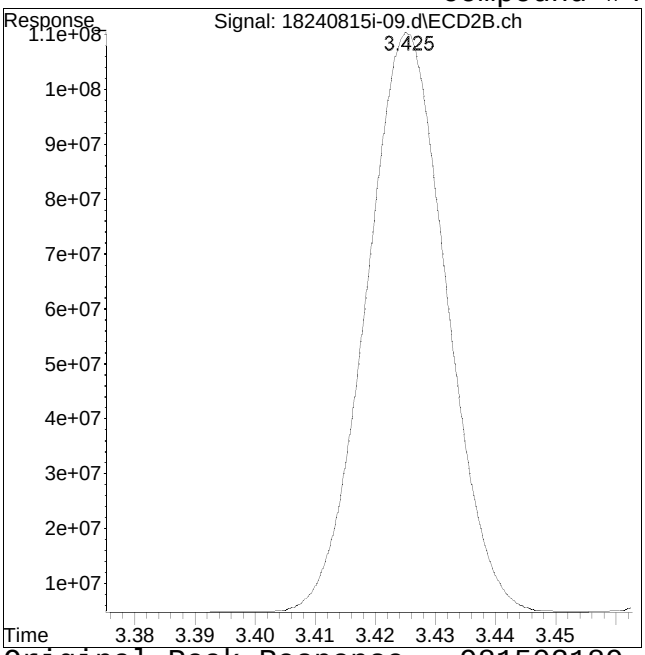


Original Peak Response = 1563576890 Manual Peak Response = 1552369932 M4
M4 = Poor automated baseline construction.

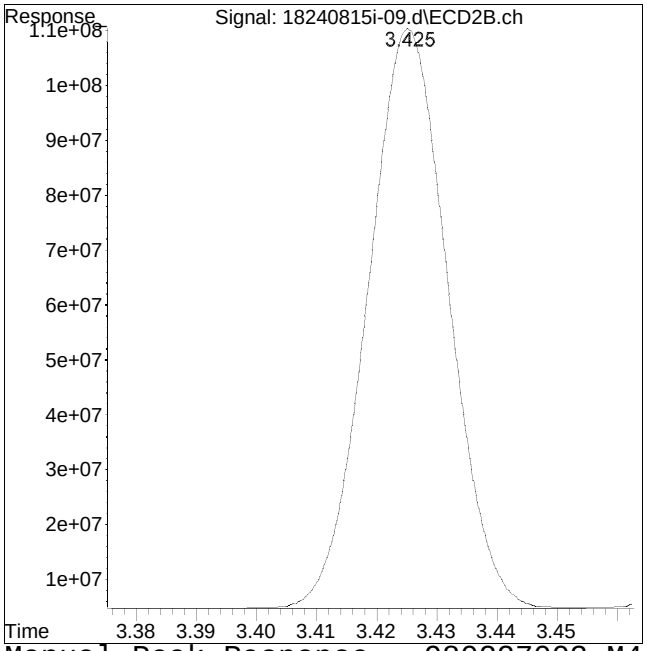
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #45: delta-BHC #2



Original Peak Response = 981502189

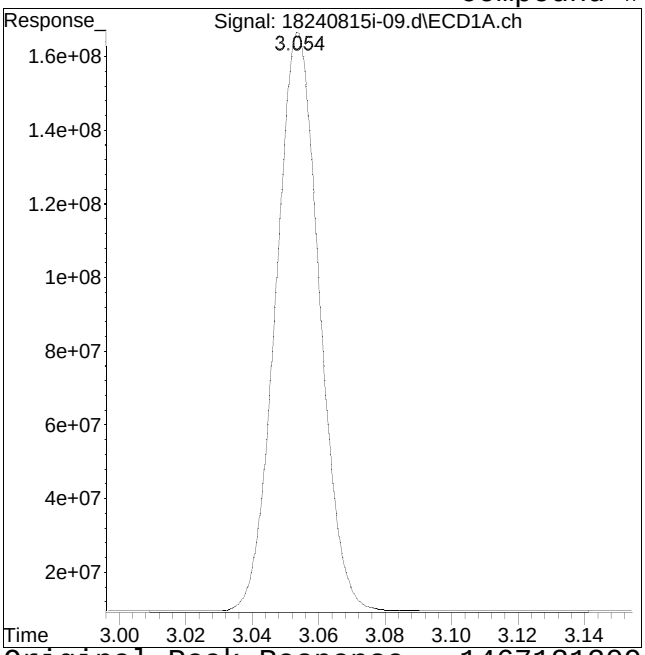


Manual Peak Response = 980227003 M4
M4 = Poor automated baseline construction.

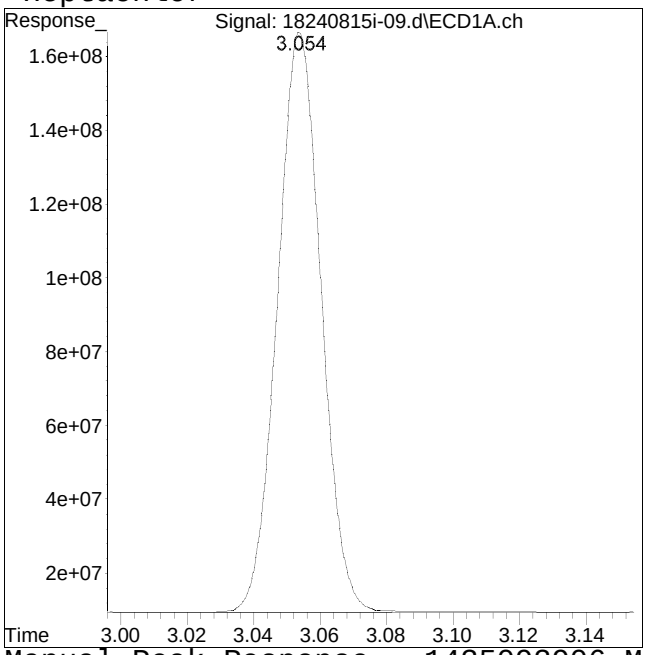
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #8: Heptachlor



Original Peak Response = 1467121209

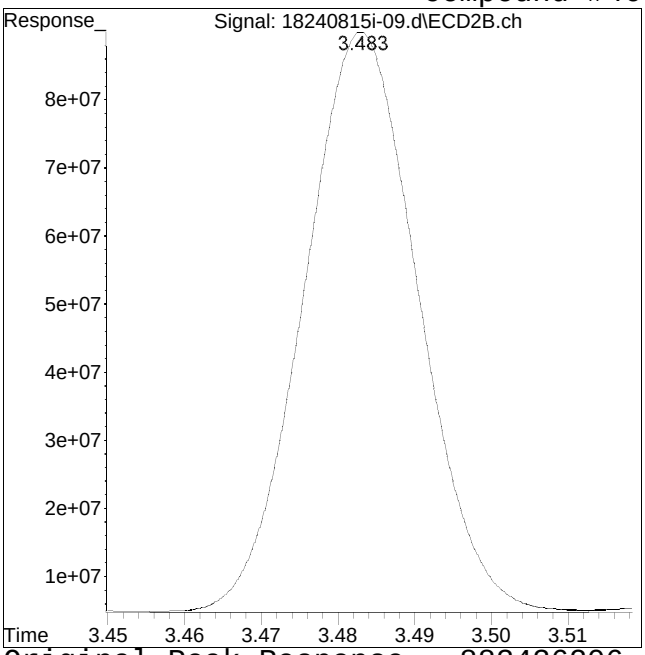


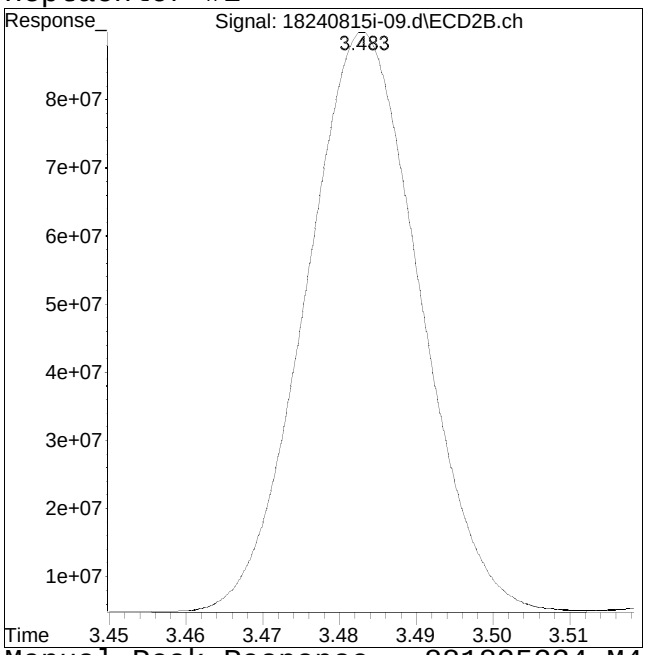
Manual Peak Response = 1435093906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #46: Heptachlor #2



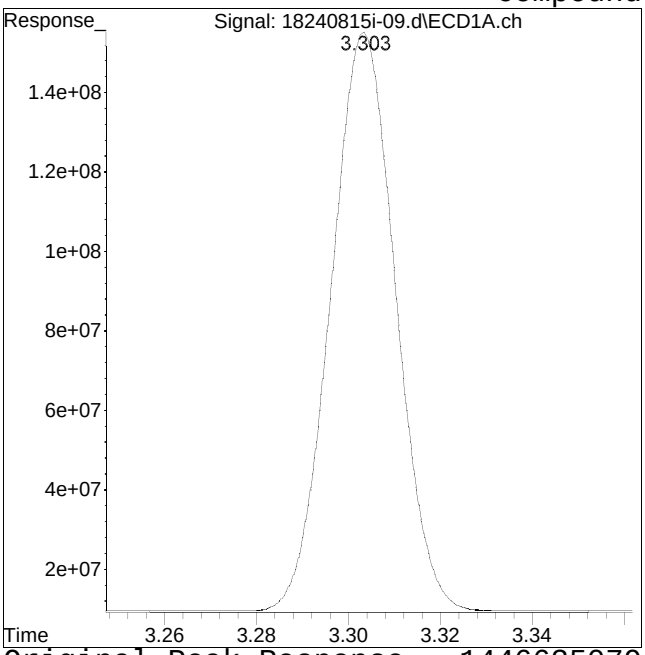


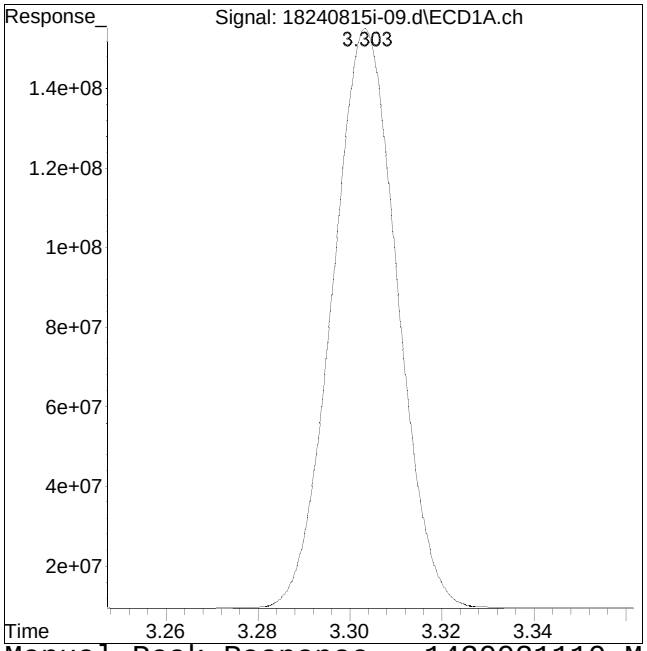
Original Peak Response = 883436206 Manual Peak Response = 881825234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #9: Aldrin



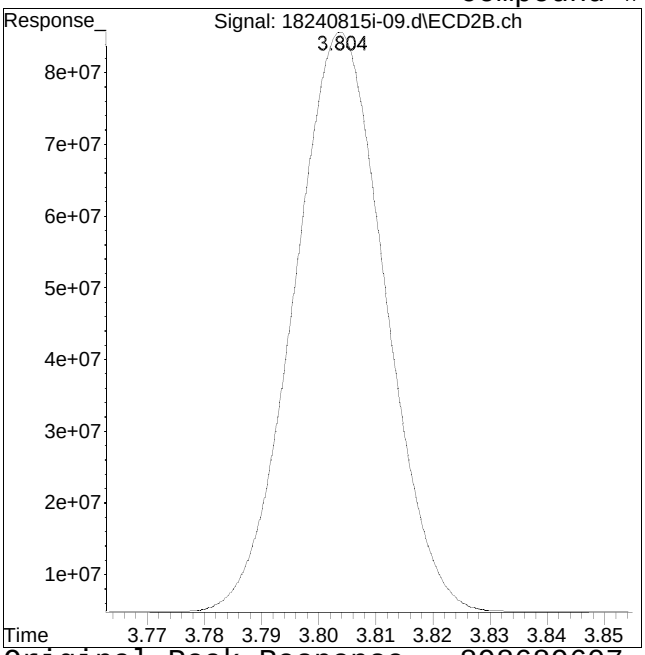


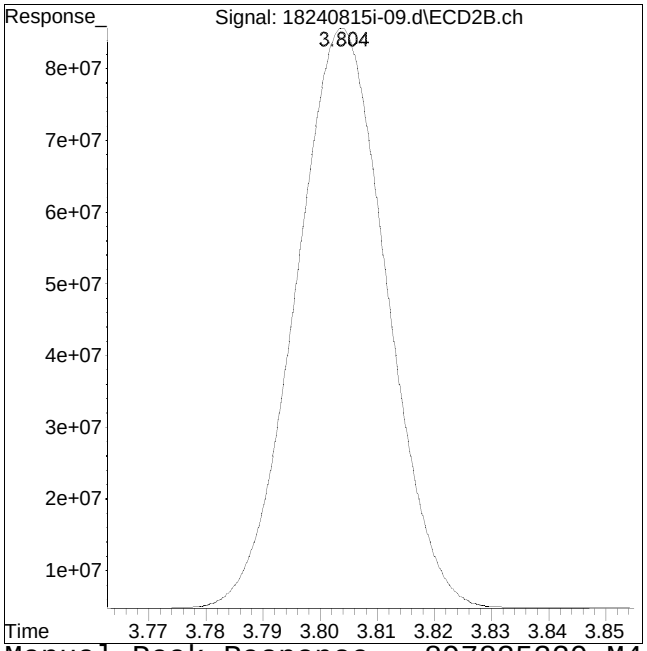
Original Peak Response = 1446635079 Manual Peak Response = 1430031110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #47: Aldrin #2



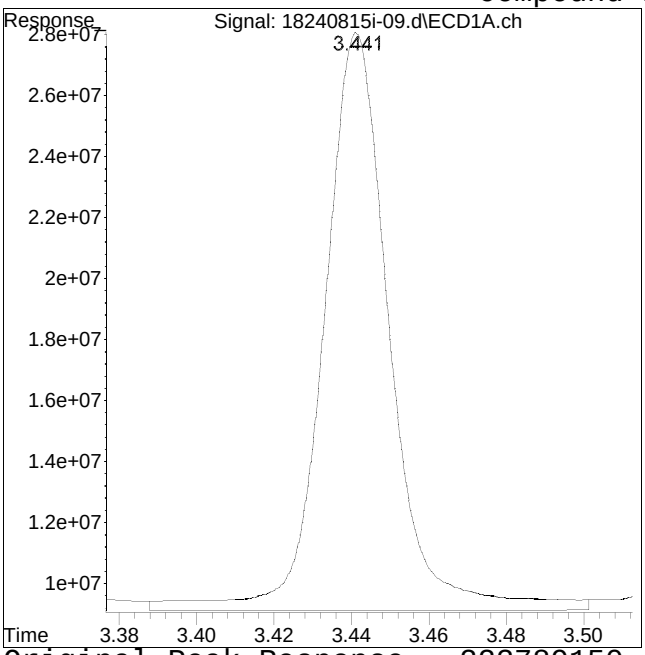


Original Peak Response = 898689607 Manual Peak Response = 897835320 M4
M4 = Poor automated baseline construction.

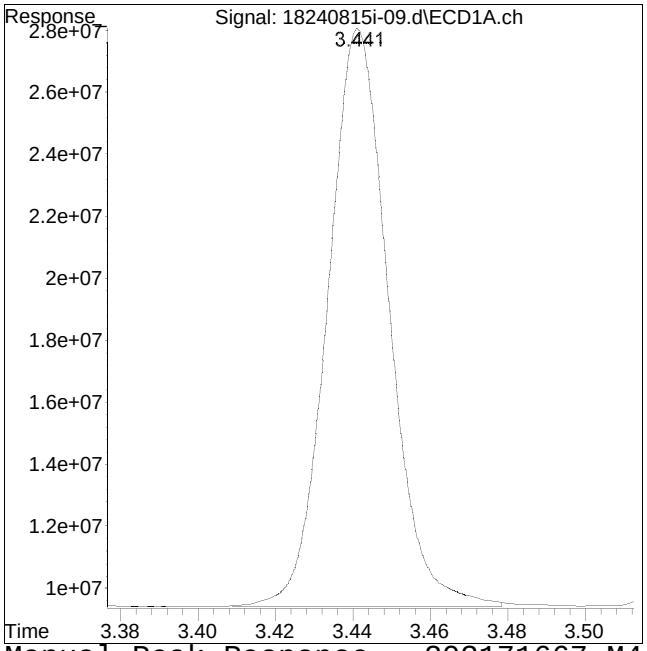
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #10: Alachlor



Original Peak Response = 223789150



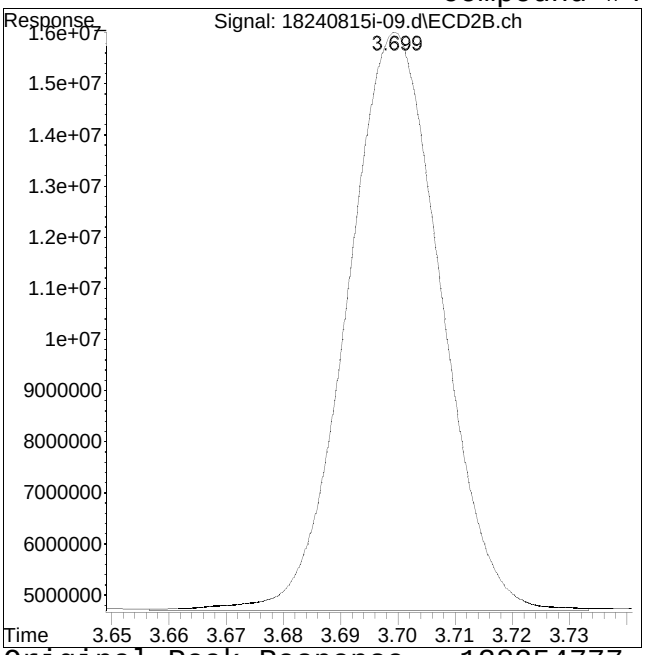
Manual Peak Response = 203171667 M4

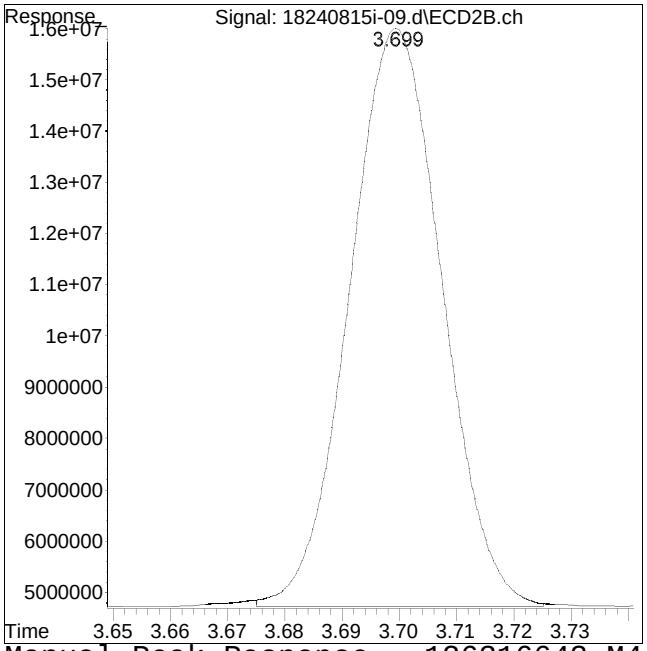
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #48: Alachlor #2



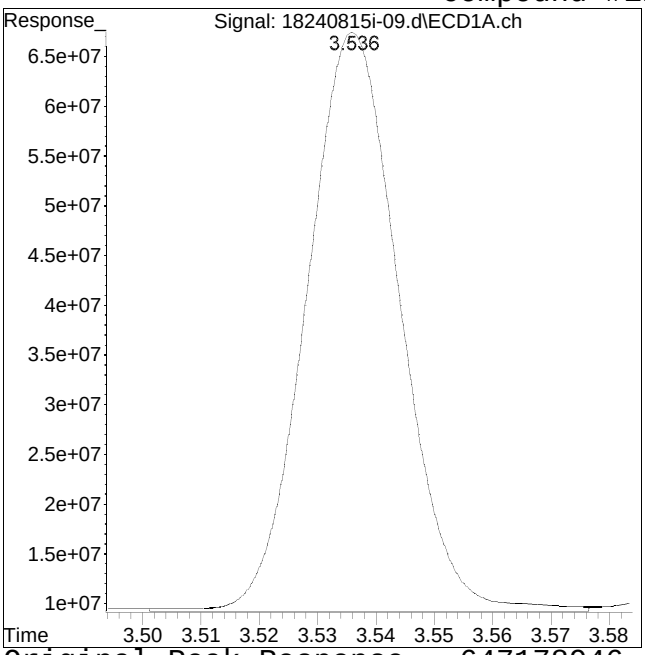


Original Peak Response = 128254777 Manual Peak Response = 126316643 M4
M4 = Poor automated baseline construction.

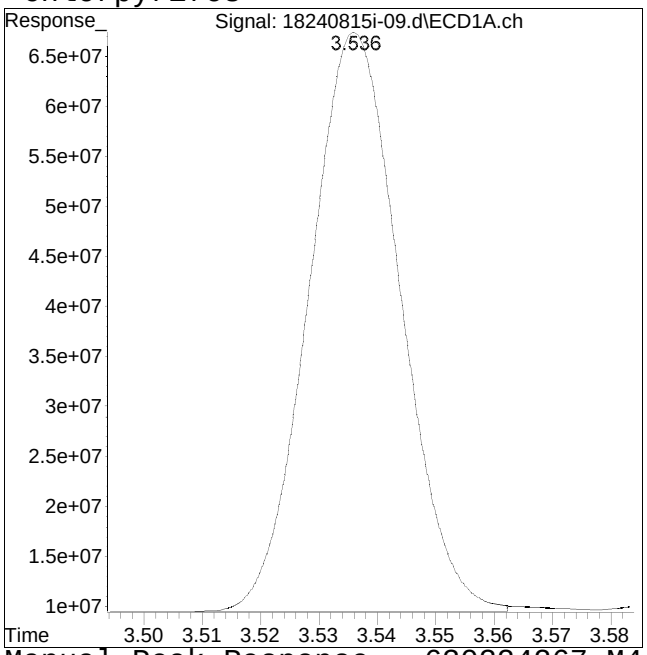
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #11: Chlorpyrifos



Original Peak Response = 647178946



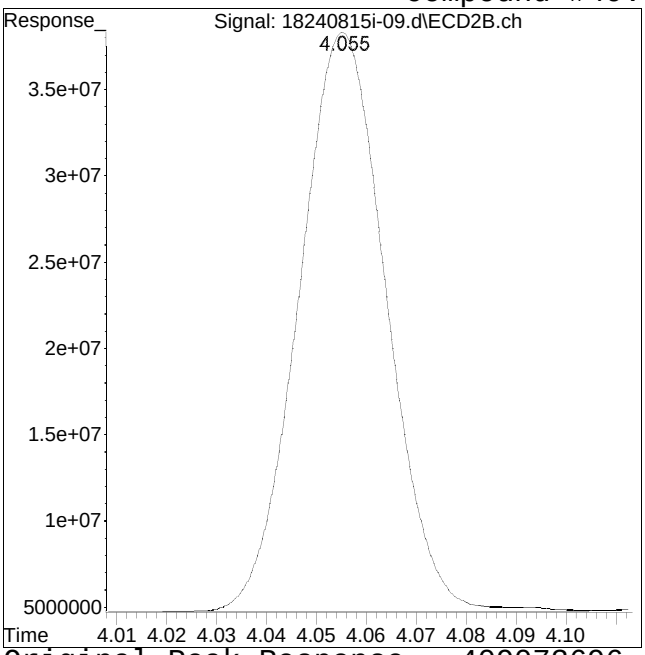
Manual Peak Response = 630324267 M4

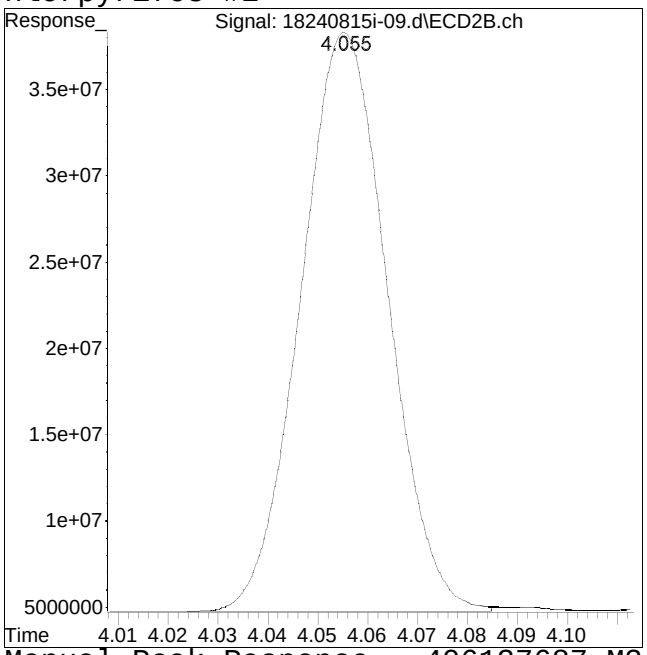
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #49: Chlorpyrifos #2



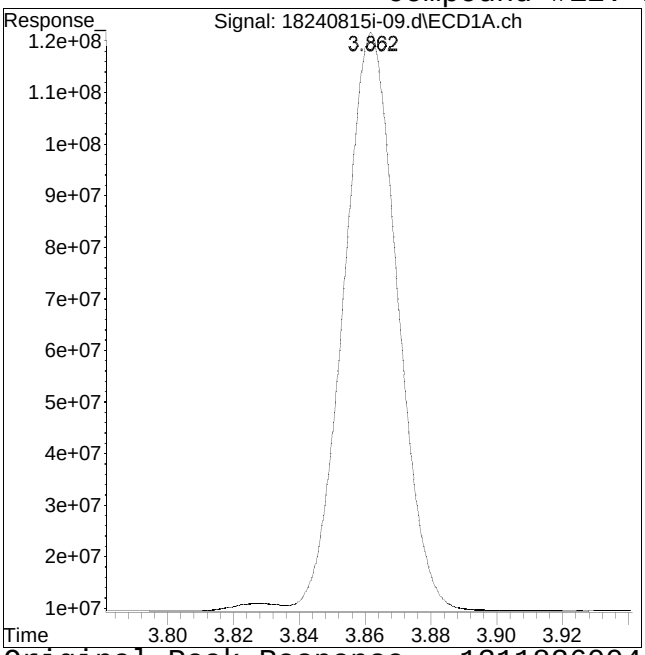


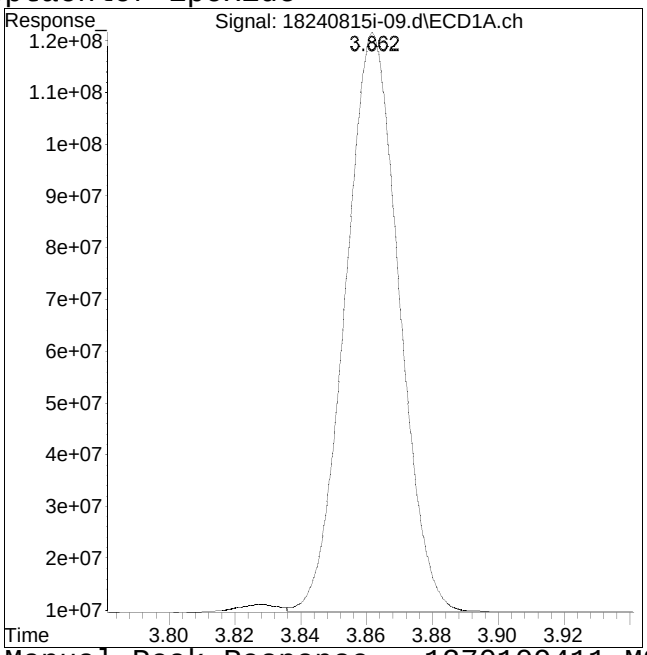
Original Peak Response = 409073696 Manual Peak Response = 406137687 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #12: Heptachlor Epoxide



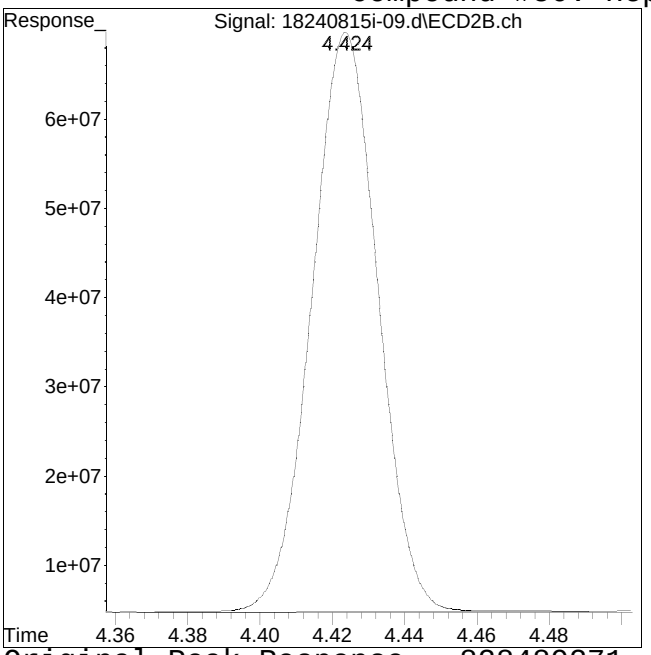


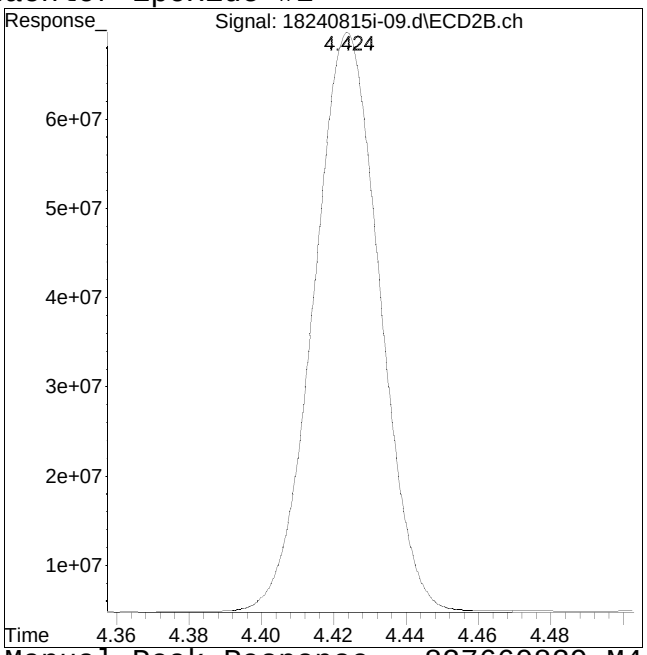
Original Peak Response = 1311826004 Manual Peak Response = 1270109411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #50: Heptachlor Epoxide #2





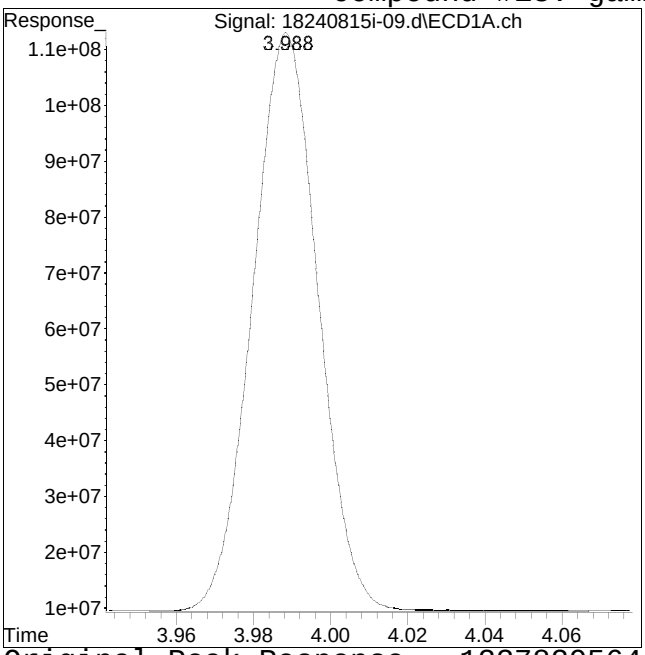
Original Peak Response = 828489271 Manual Peak Response = 827660829 M4
M4 = Poor automated baseline construction.

Manual Integration Report

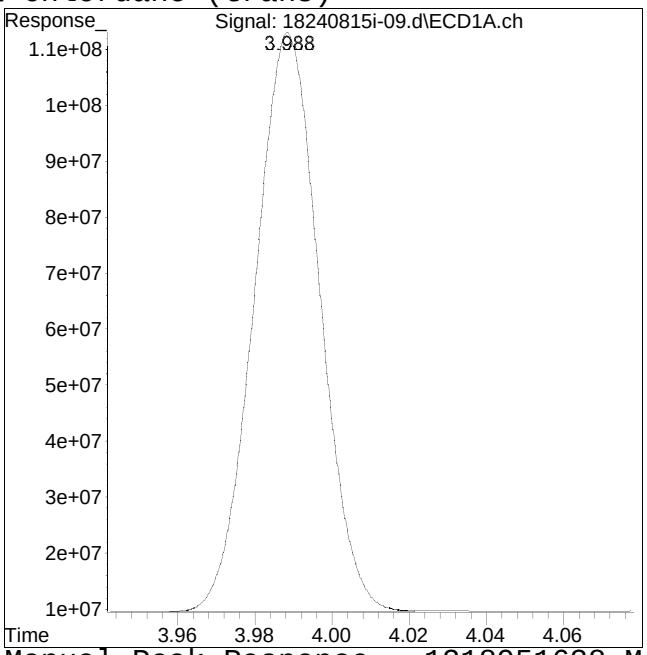
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-09.d
Date Inj'd : 8/15/2024 15:14
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:00 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 1237829564



Manual Peak Response = 1218951638 M4

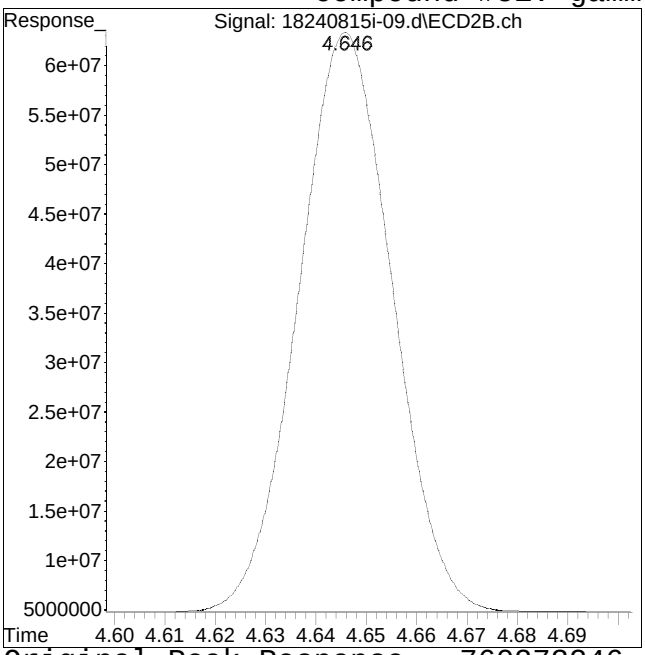
M4 = Poor automated baseline construction.

Manual Integration Report

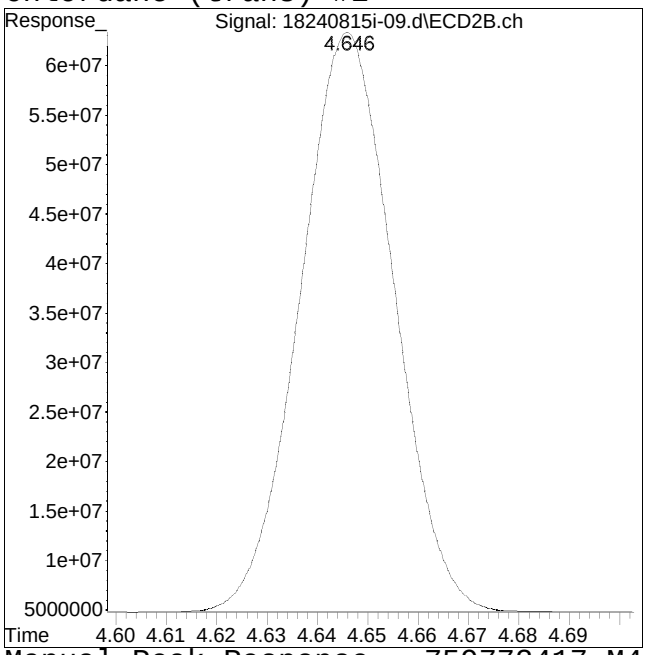
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-09.d
Date Inj'd : 8/15/2024 15:14
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:00 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 760273246



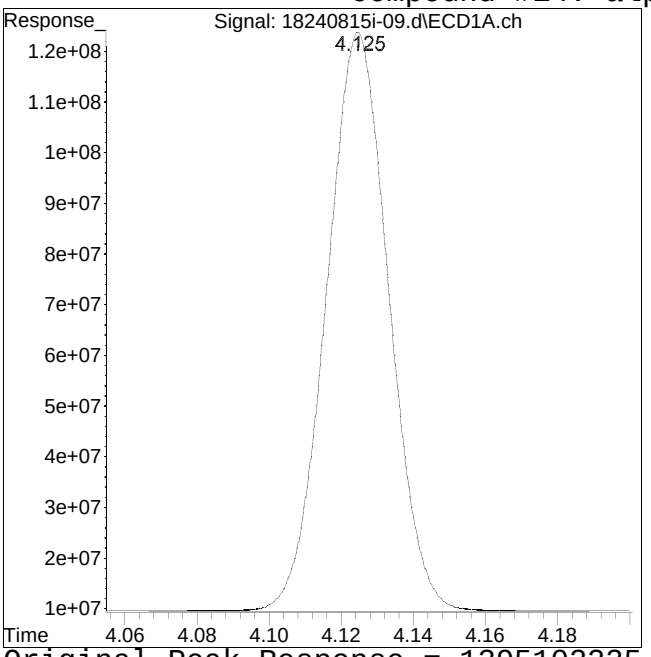
Manual Peak Response = 759772417 M4

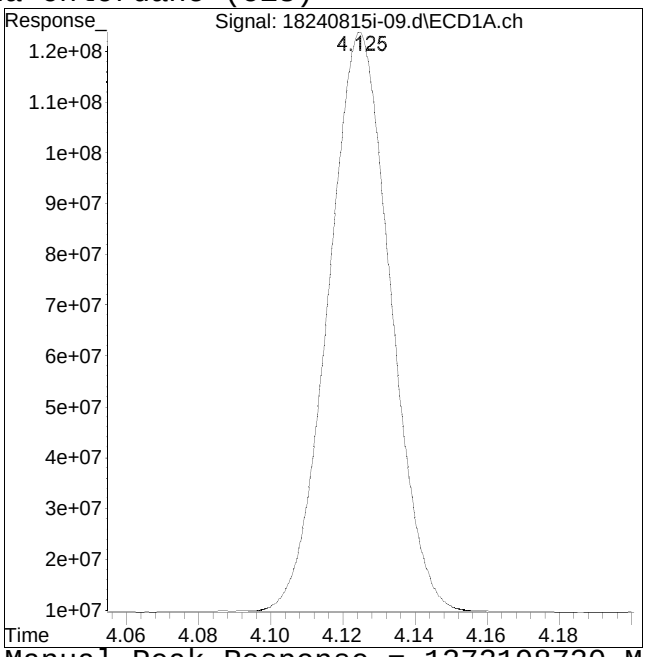
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #14: alpha-Chlordane (cis)



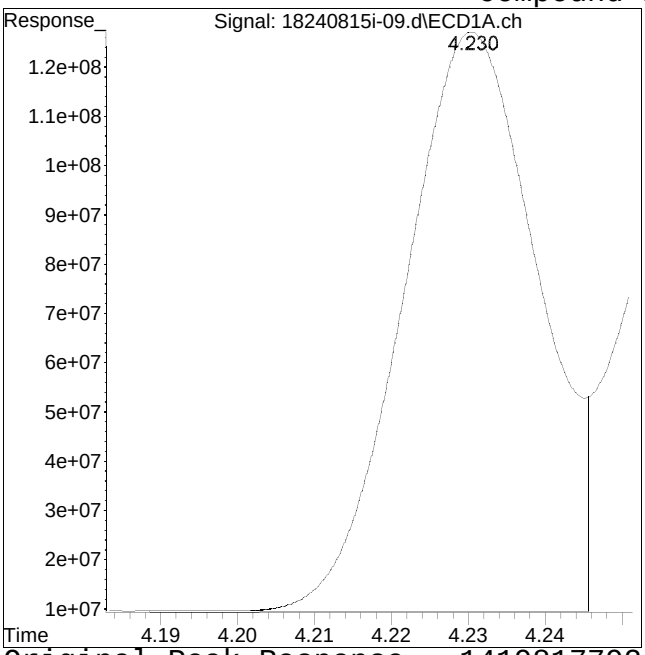


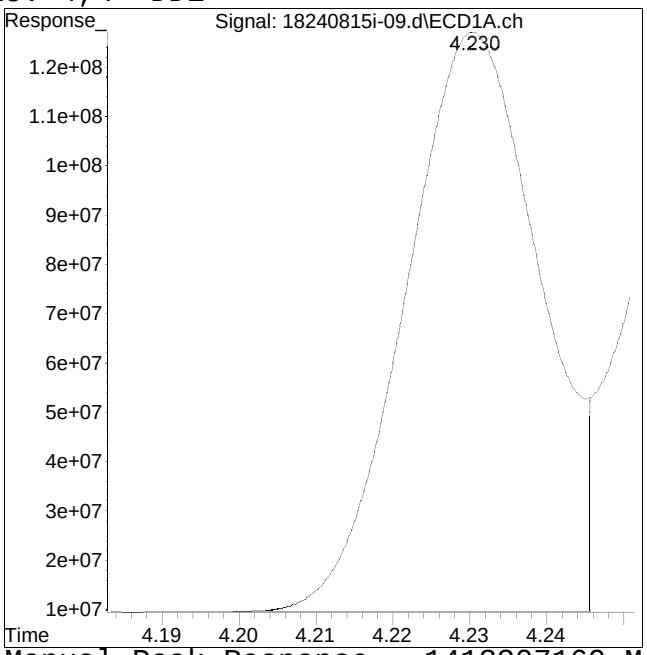
Original Peak Response = 1395102235 Manual Peak Response = 1373198730 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #15: 4,4'-DDE



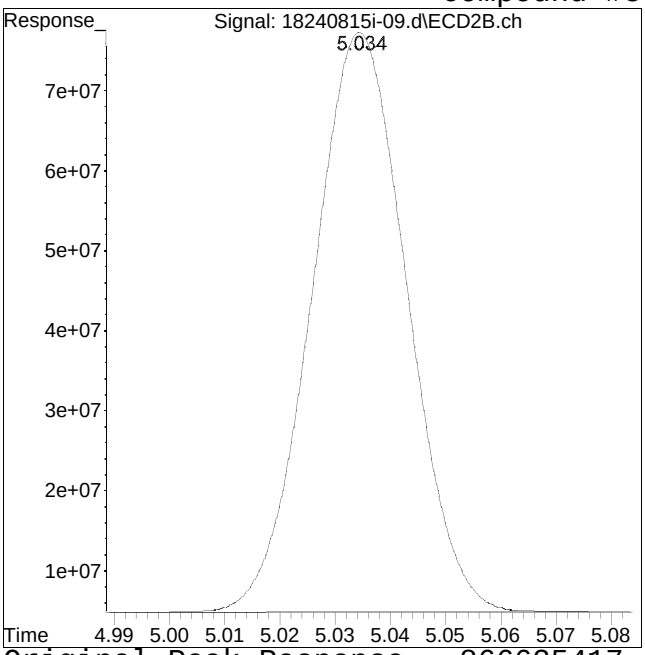


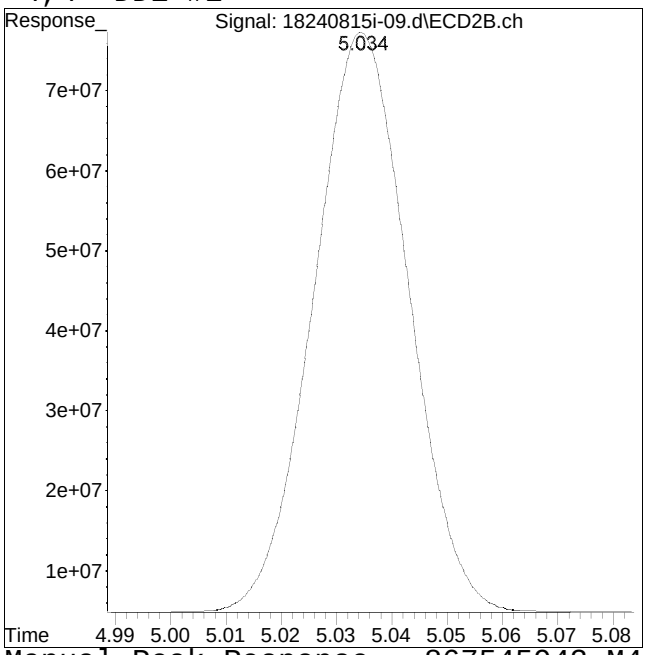
Original Peak Response = 1419817792 Manual Peak Response = 1413307169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #53: 4,4'-DDE #2



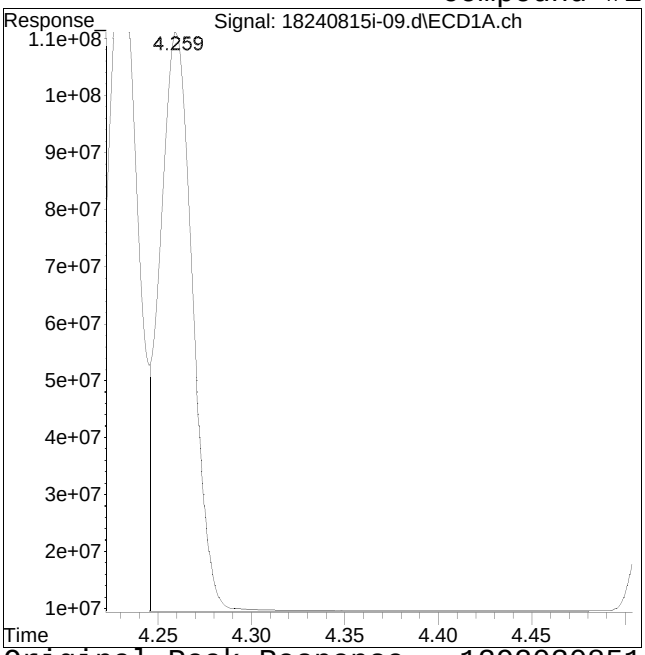


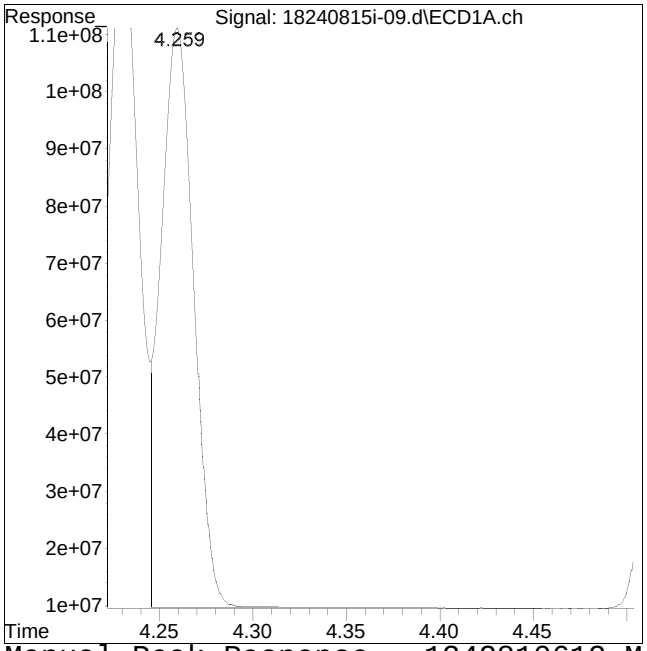
Original Peak Response = 866625417 Manual Peak Response = 867545943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #16: Endosulfan I



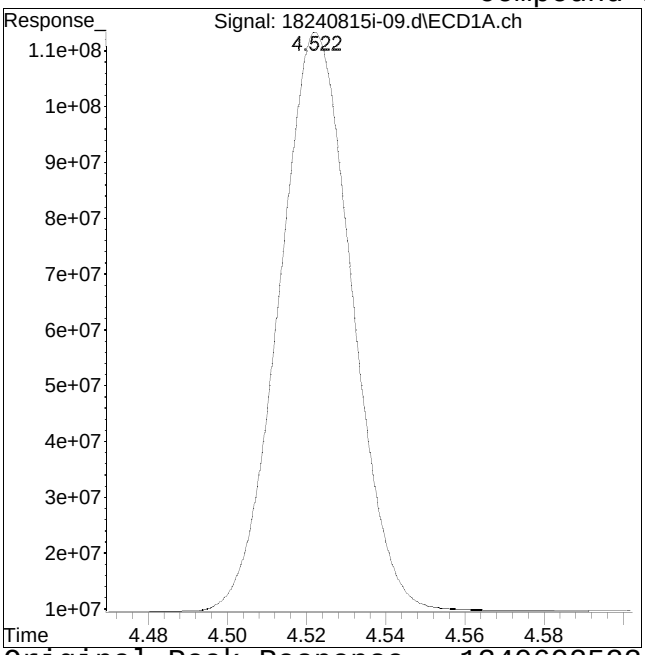


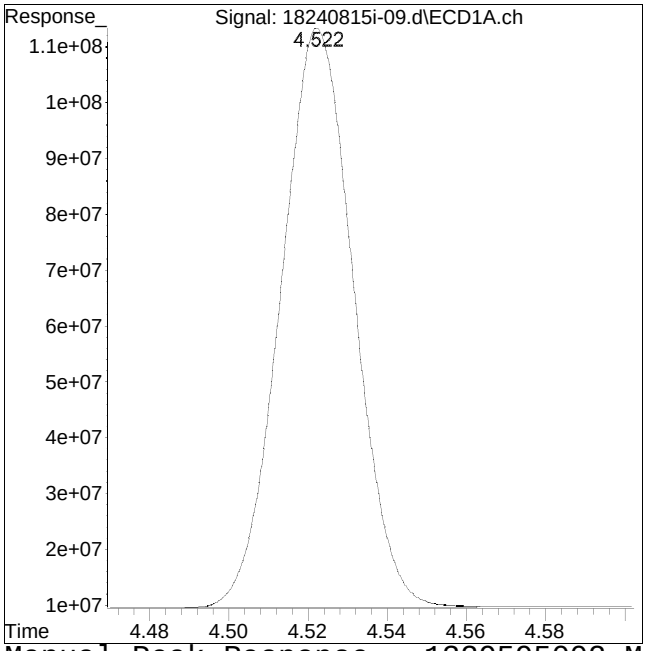
Original Peak Response = 1292030851 Manual Peak Response = 1242810612 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #17: Dieldrin





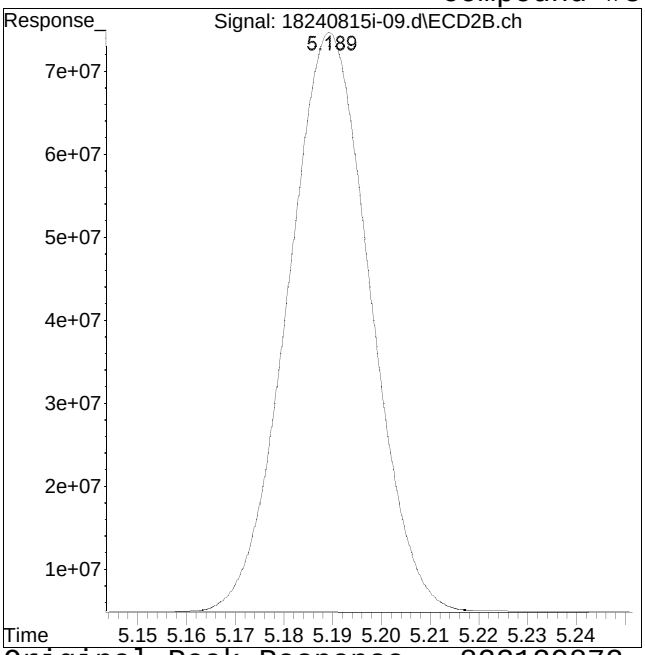
Original Peak Response = 1340692523 Manual Peak Response = 1329595002 M4
M4 = Poor automated baseline construction.

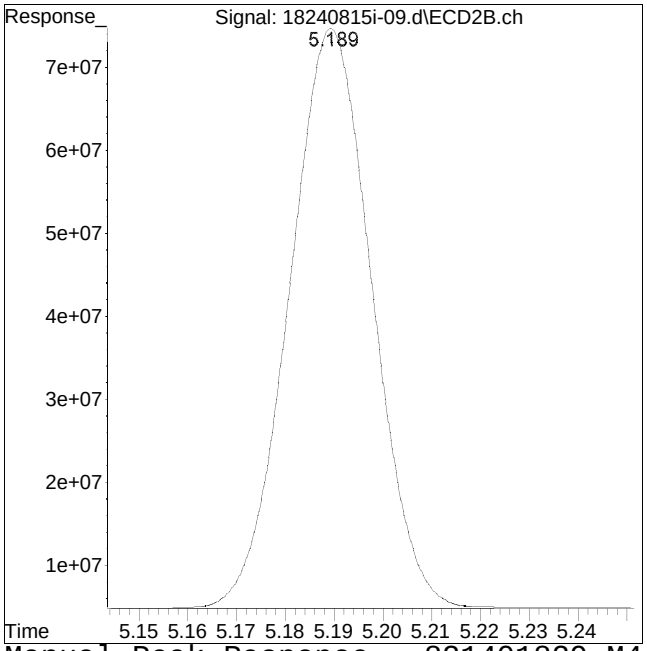
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-09.d
Date Inj'd : 8/15/2024 15:14
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:00 am

Compound #55: Dieldrin #2



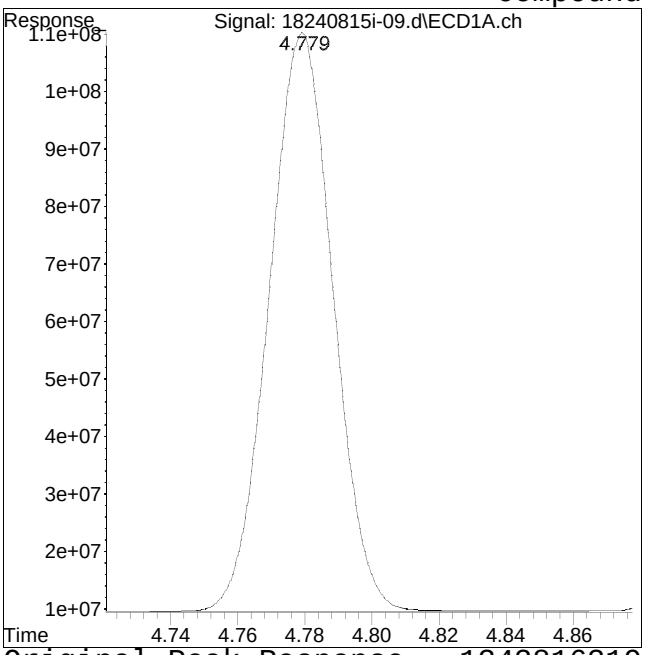


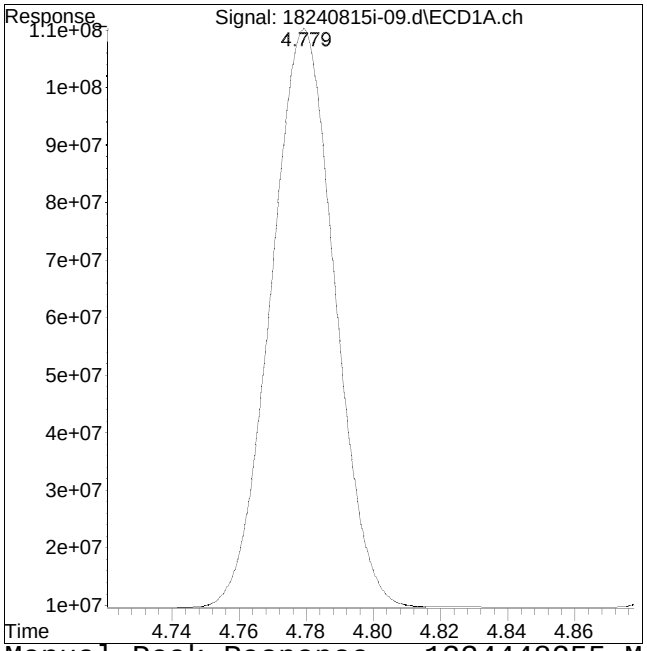
Original Peak Response = 823129872 Manual Peak Response = 821401829 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #18: Endrin





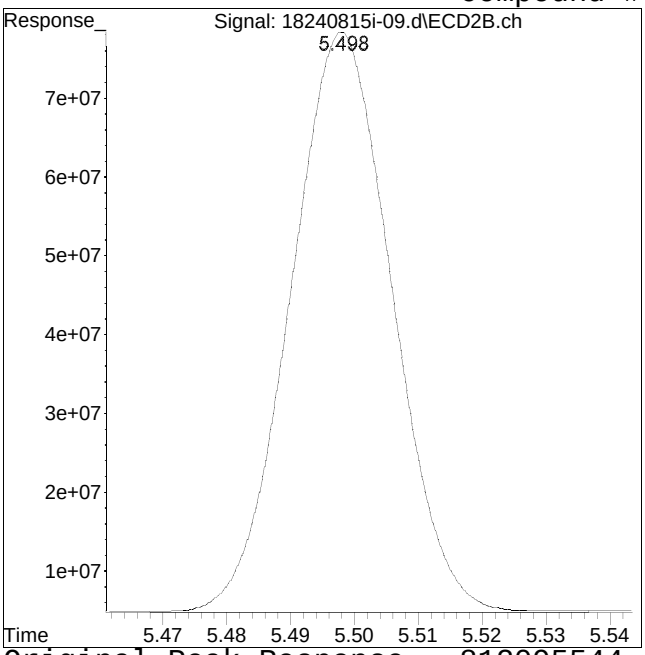
Original Peak Response = 1343816319 Manual Peak Response = 1334448255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

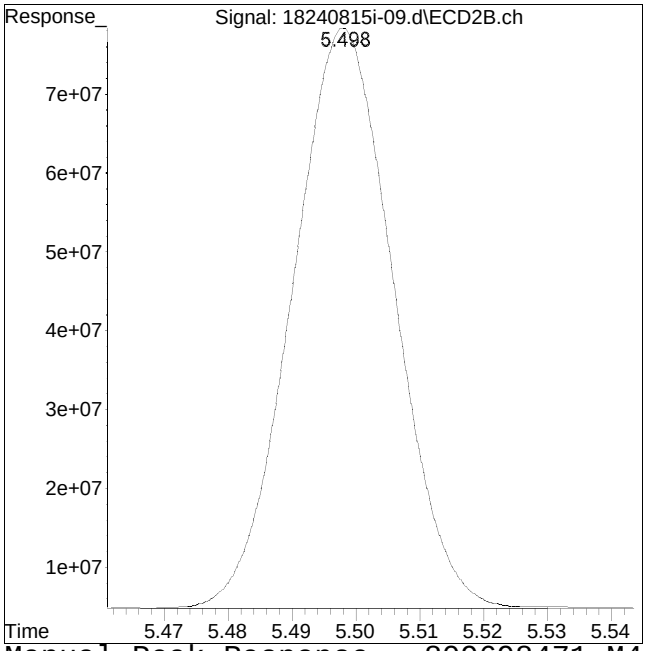
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-09.d
Date Inj'd : 8/15/2024 15:14
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:00 am

Compound #56: Endrin #2



Original Peak Response = 812095544



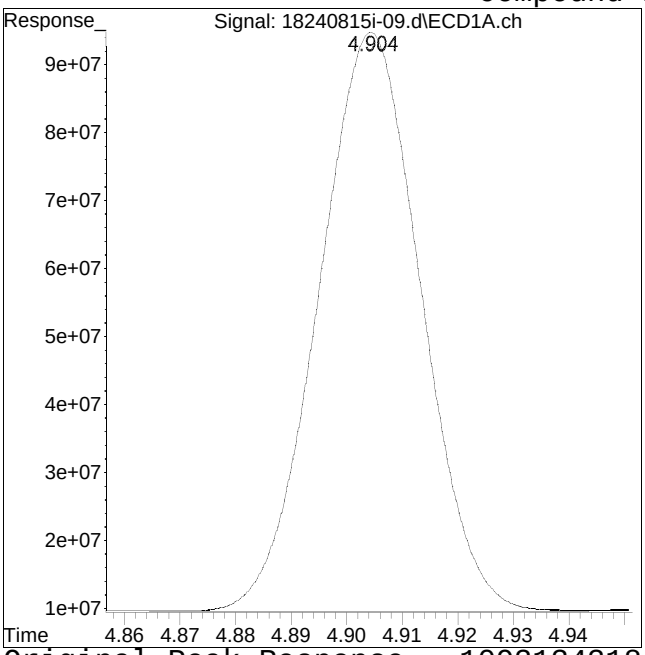
Manual Peak Response = 809698471 M4

M4 = Poor automated baseline construction.

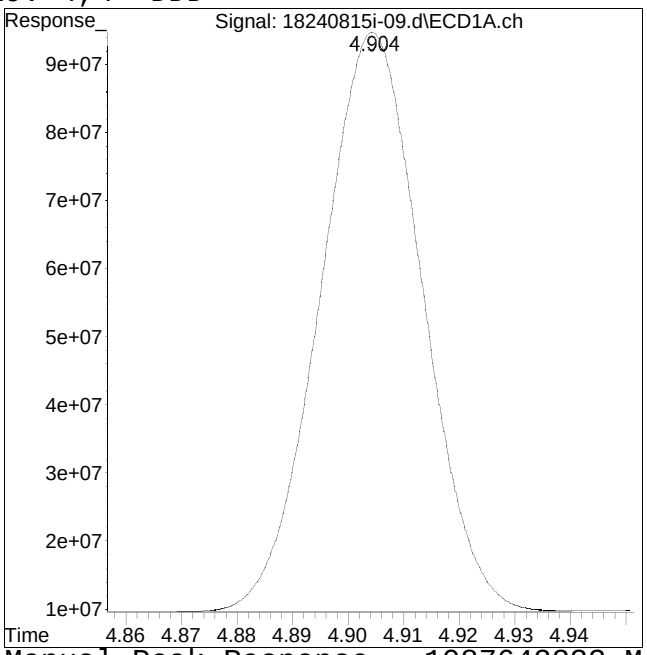
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #19: 4,4'-DDD



Original Peak Response = 1093134318

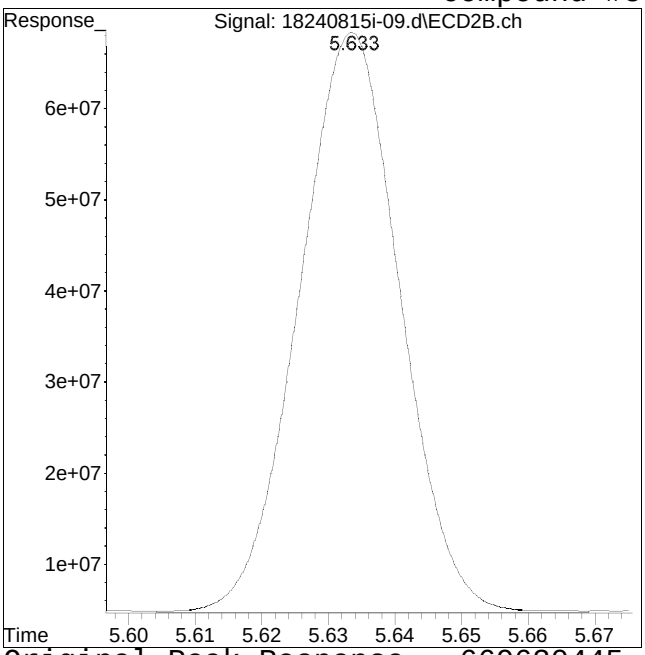


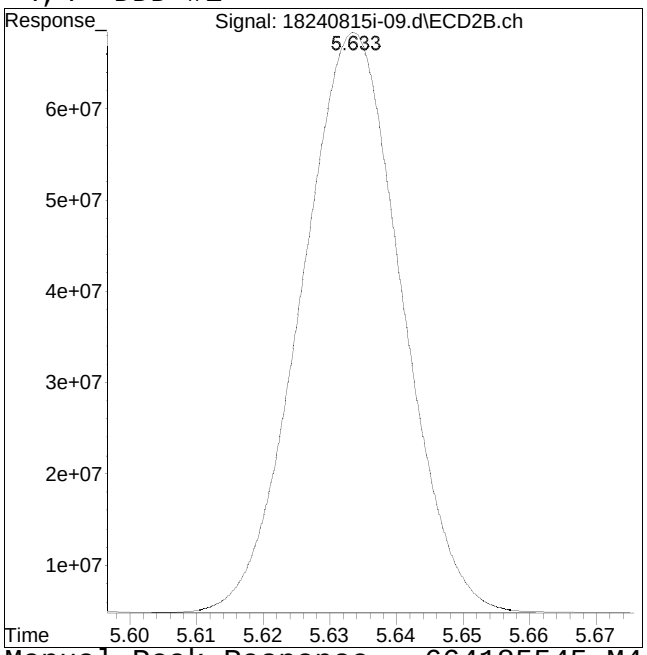
Manual Peak Response = 1087642233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #57: 4,4'-DDD #2



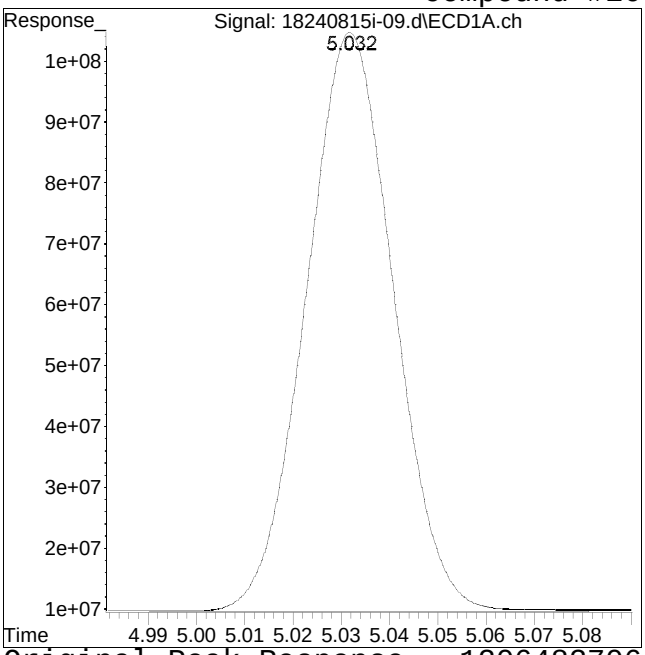


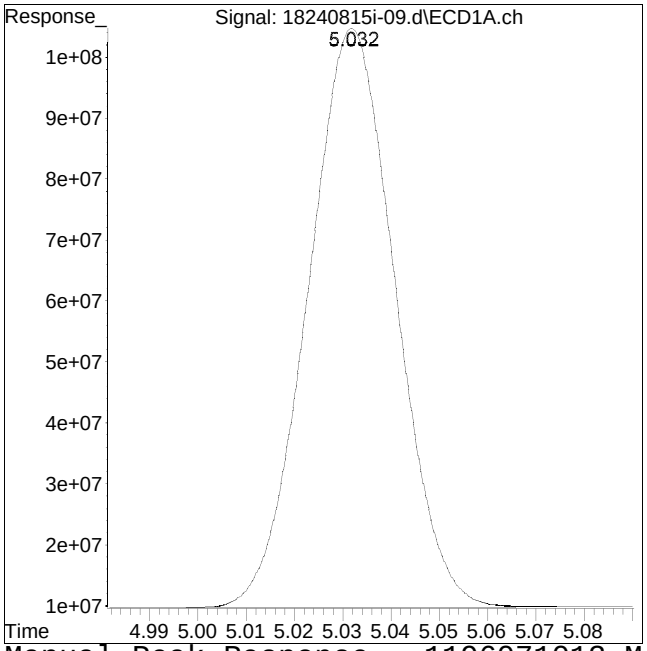
Original Peak Response = 669630445 Manual Peak Response = 664185545 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #20: Endosulfan II



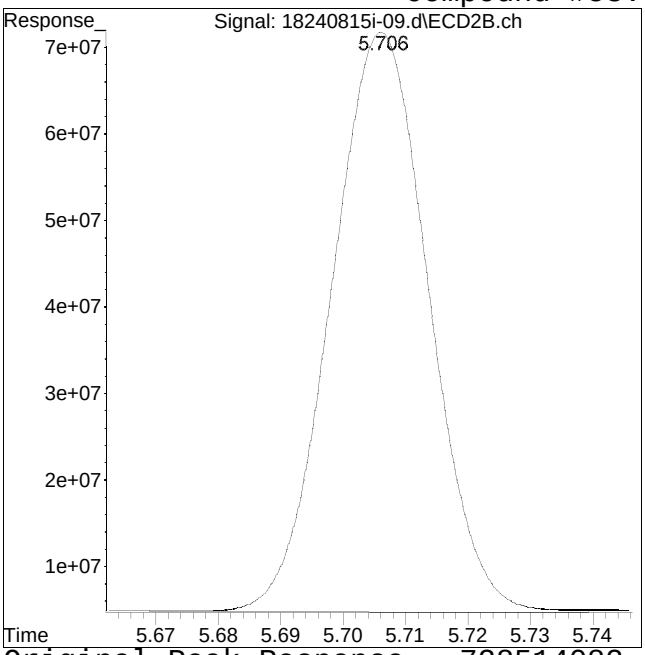


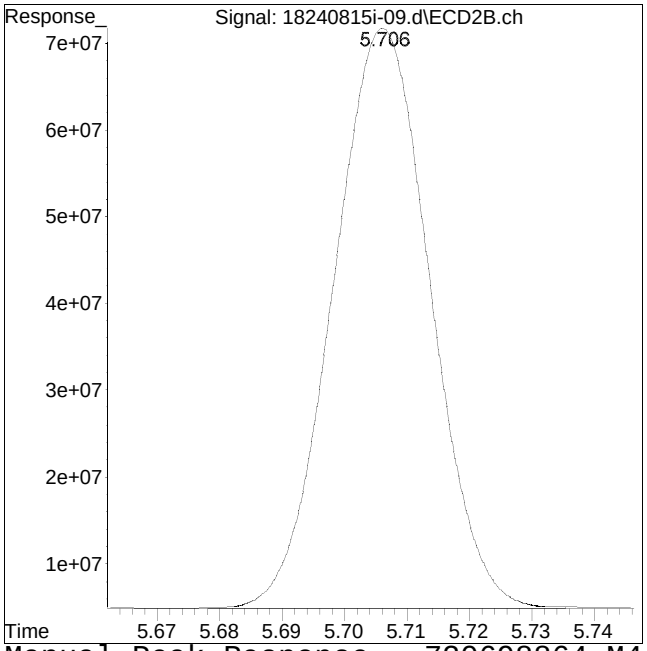
Original Peak Response = 1206483706 Manual Peak Response = 1196071013 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #58: Endosulfan II #2



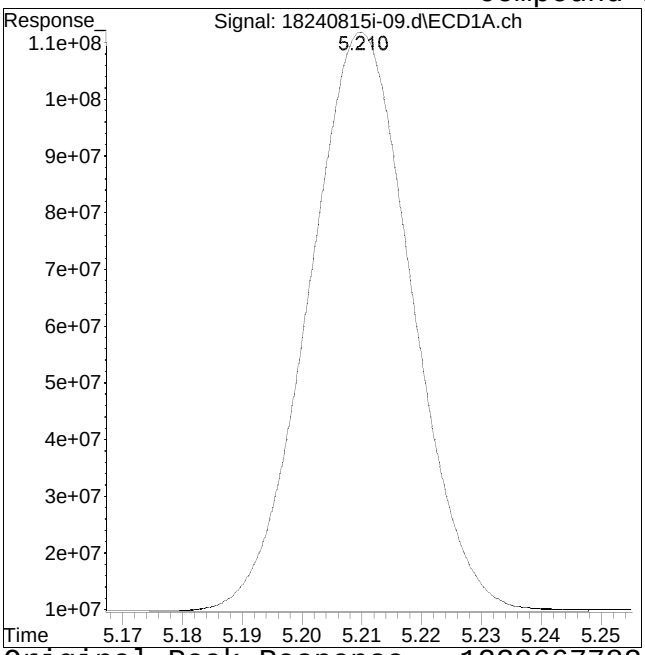


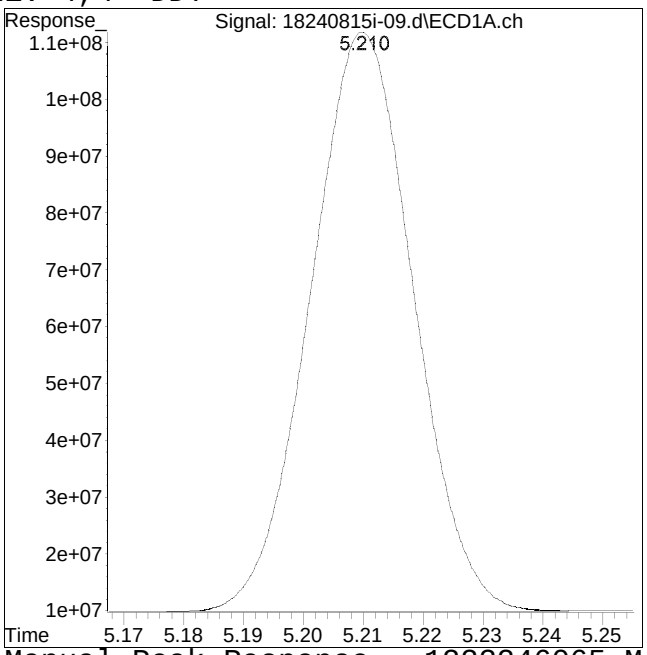
Original Peak Response = 728514082 Manual Peak Response = 720698864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #21: 4,4'-DDT



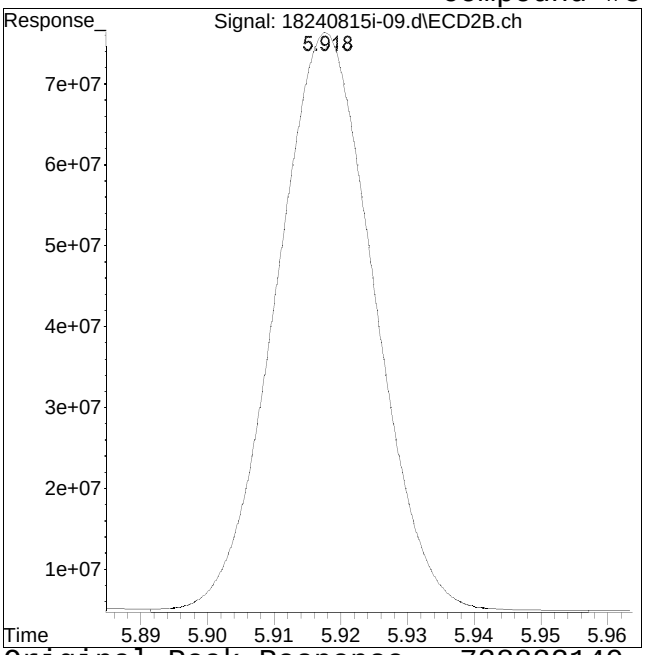


Original Peak Response = 1233667783 Manual Peak Response = 1223246065 M4
M4 = Poor automated baseline construction.

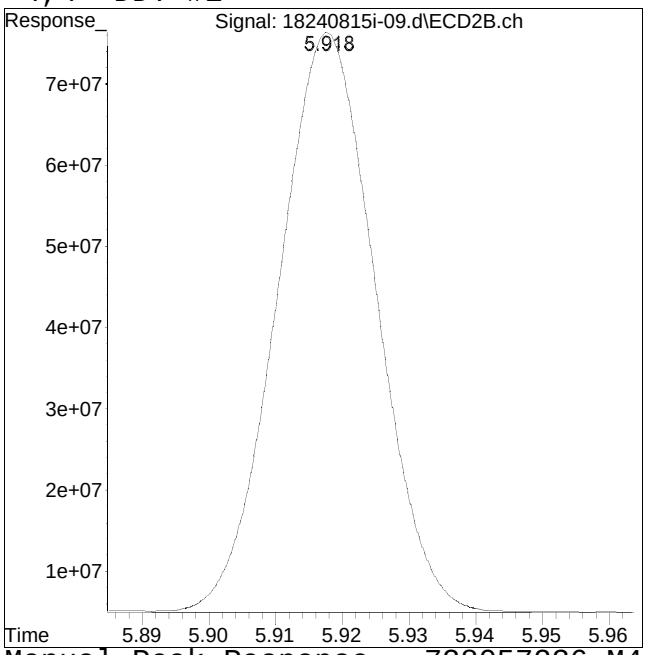
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 738822140

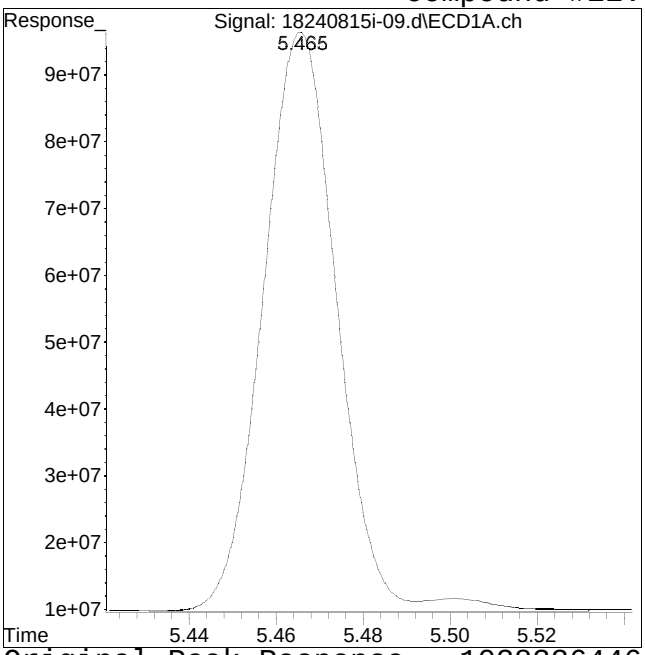


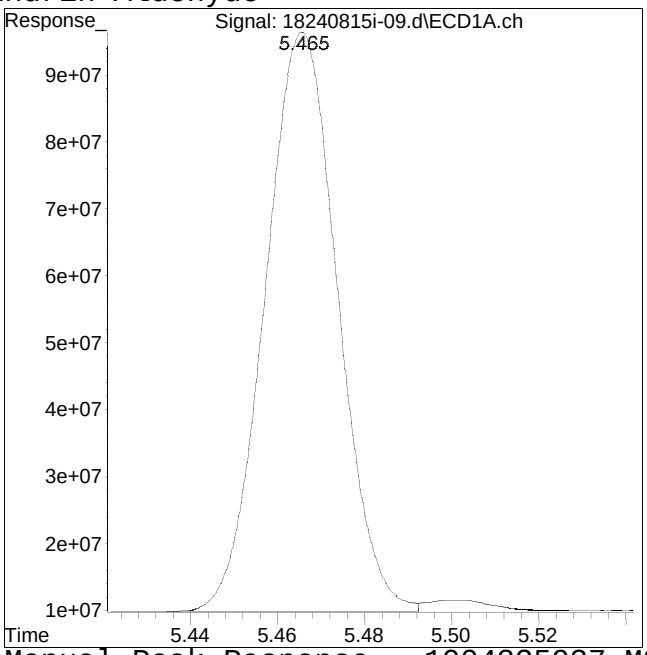
Manual Peak Response = 728057236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #22: Endrin Aldehyde



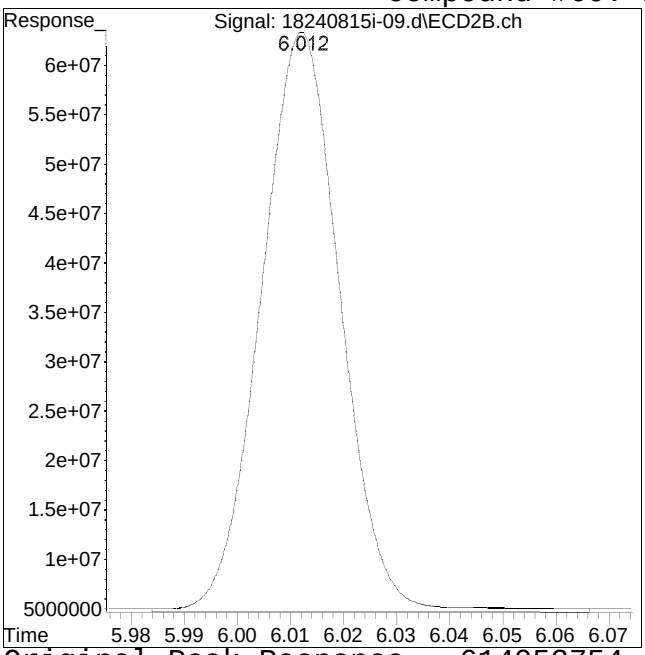


Original Peak Response = 1038326446 Manual Peak Response = 1004335937 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

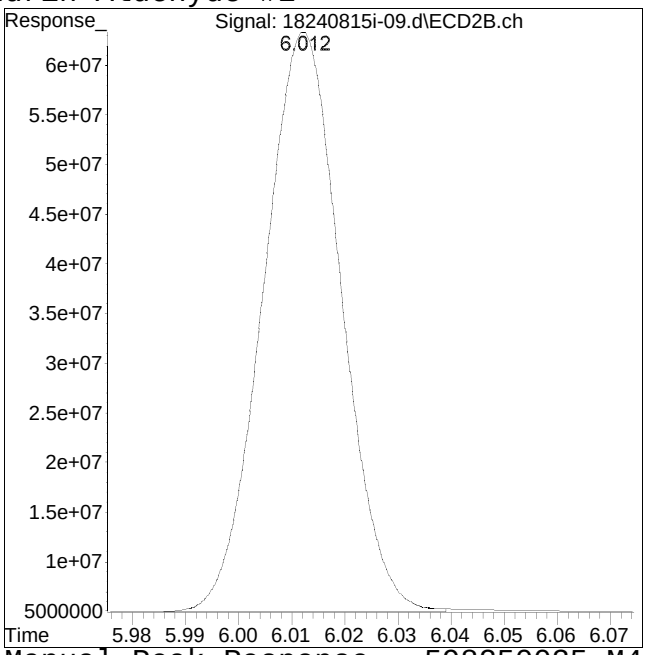
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 614052754



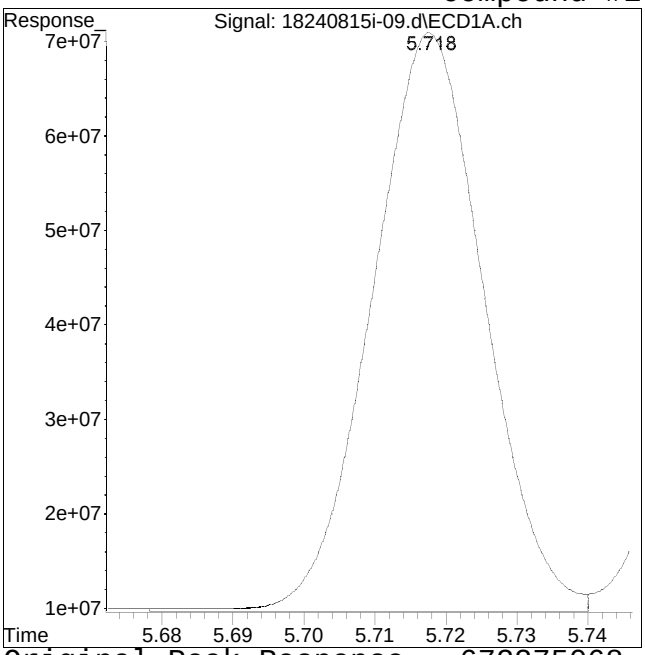
Manual Peak Response = 598250035 M4

M4 = Poor automated baseline construction.

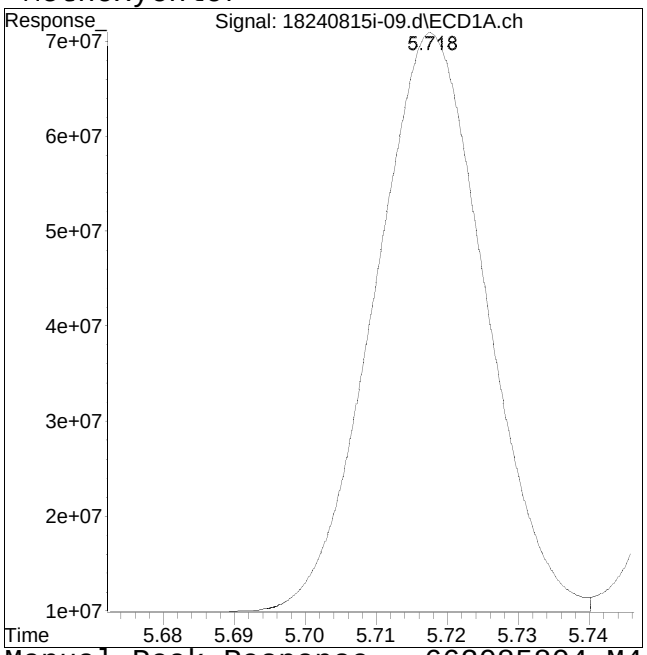
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #23: Methoxychlor



Original Peak Response = 672275068



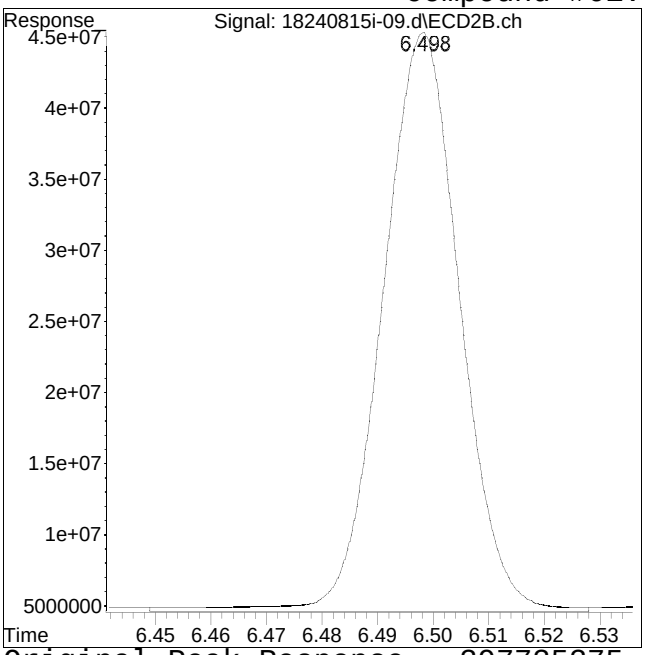
Manual Peak Response = 662085804 M4

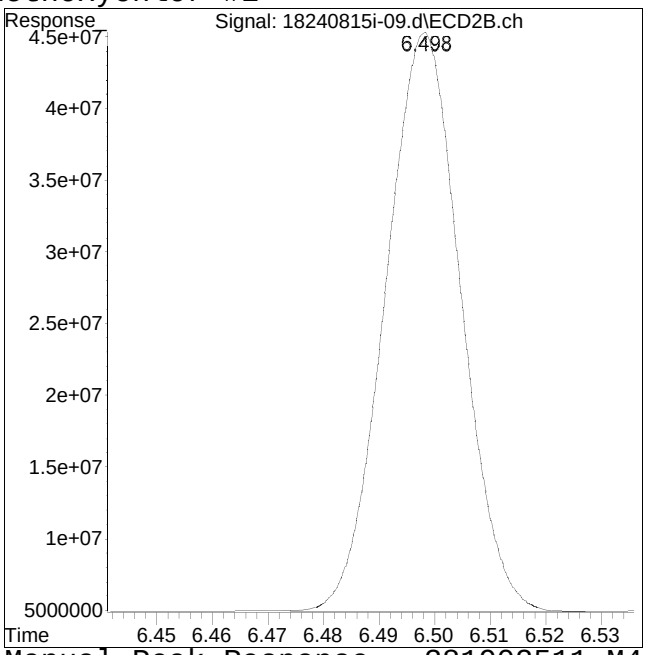
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #61: Methoxychlor #2



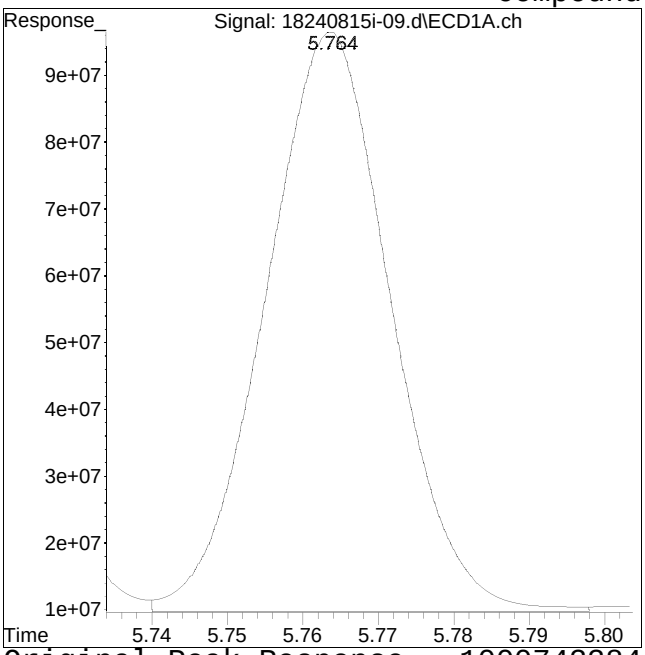


Original Peak Response = 397735375 Manual Peak Response = 381902511 M4
M4 = Poor automated baseline construction.

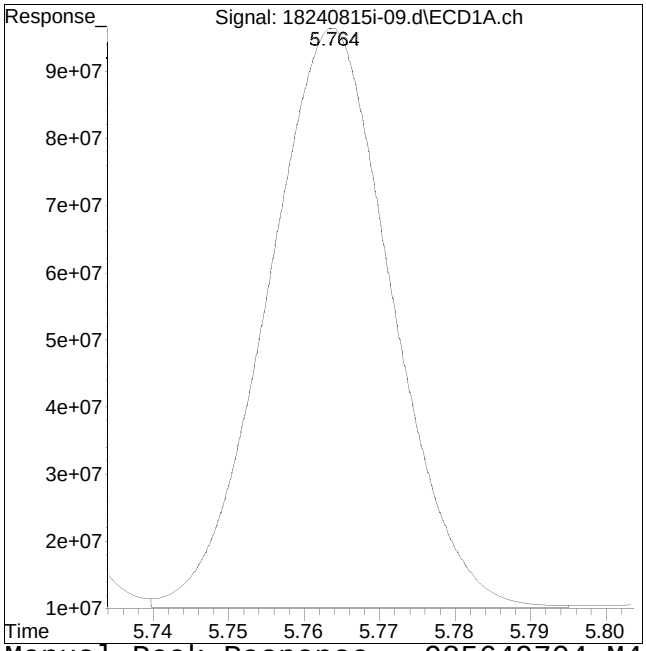
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #24: Mirex



Original Peak Response = 1000743384

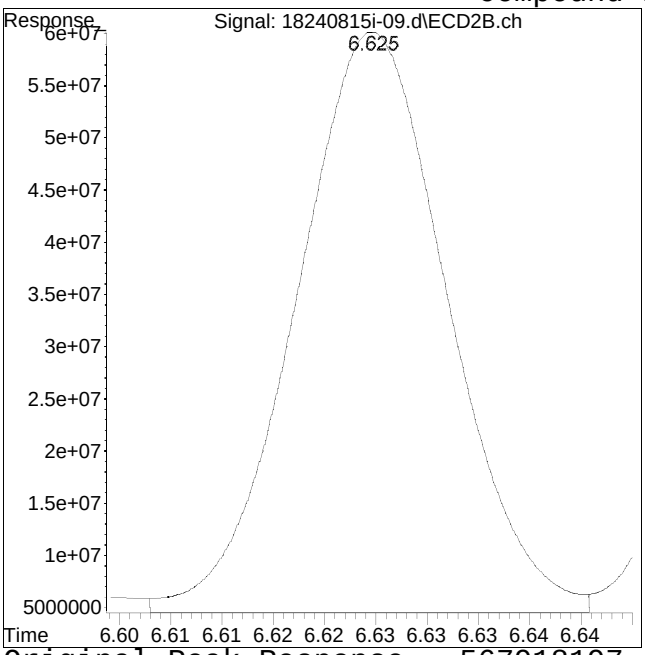


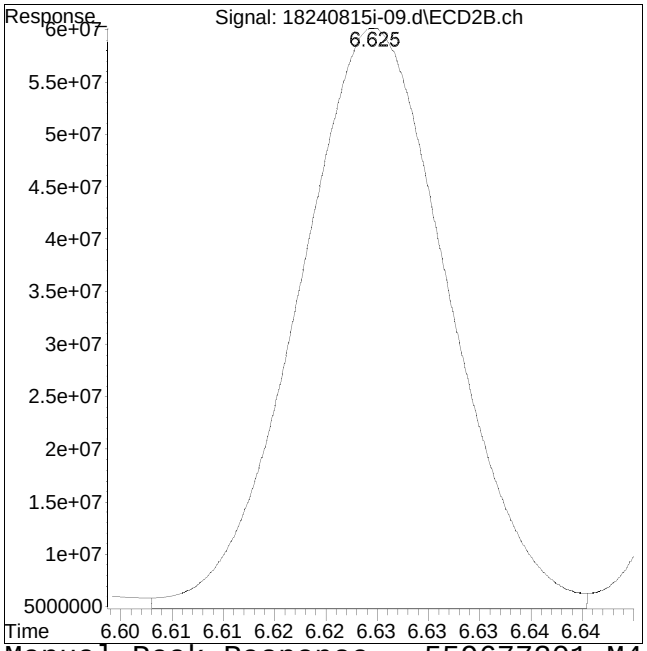
Manual Peak Response = 985649704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #62: Mirex #2



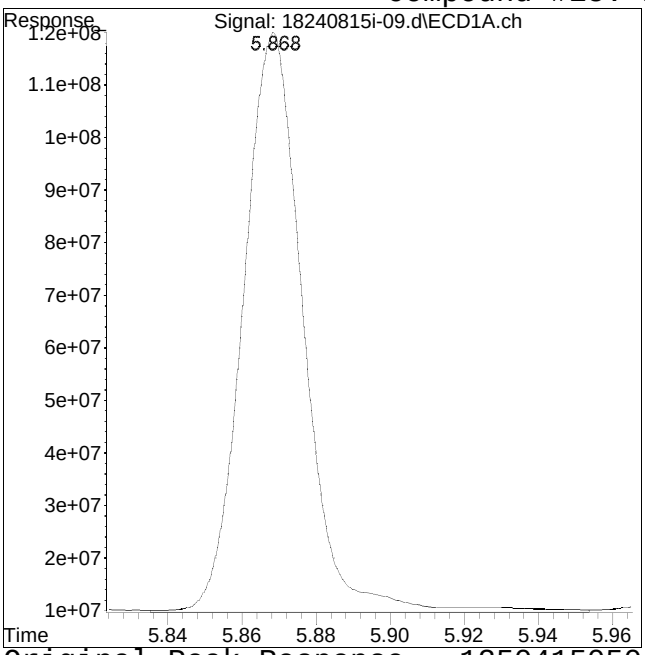


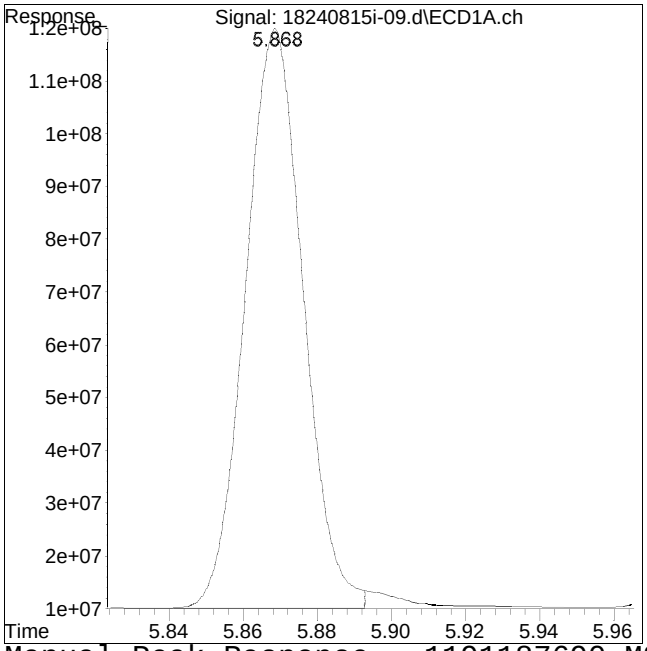
Original Peak Response = 567918197 Manual Peak Response = 559677201 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #25: Endosulfan Sulfate



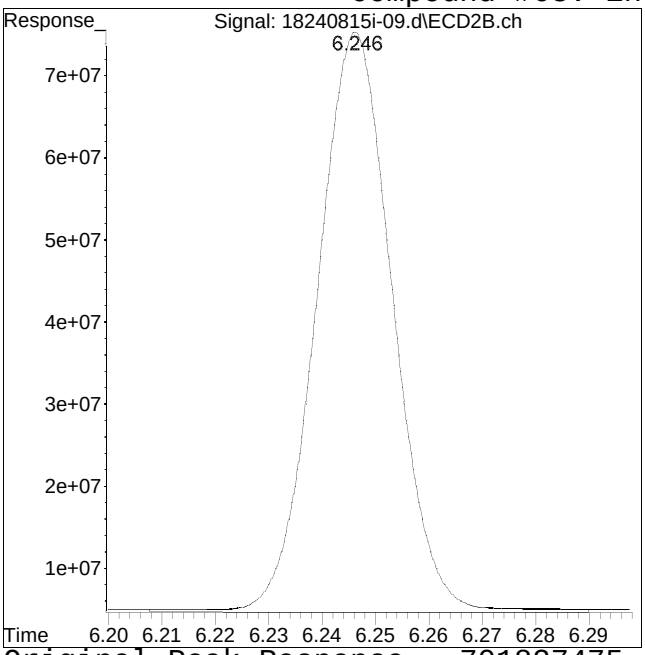


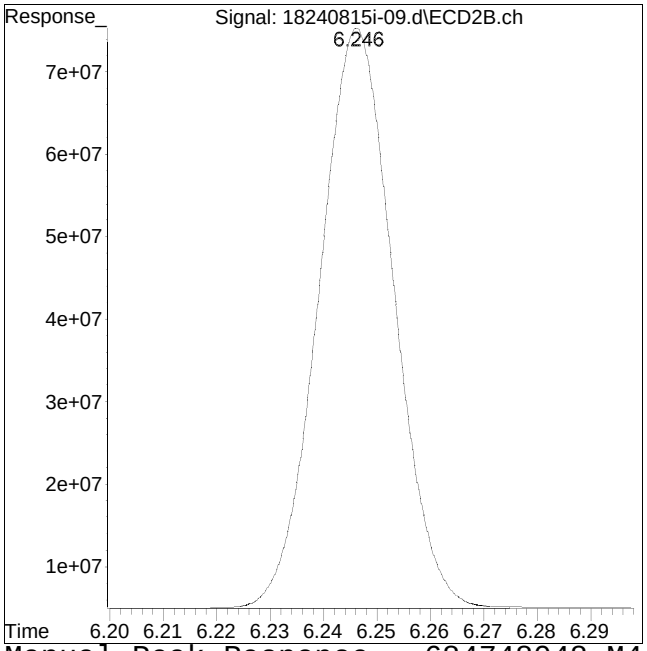
Original Peak Response = 1250415050 Manual Peak Response = 1191187690 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #63: Endosulfan Sulfate #2



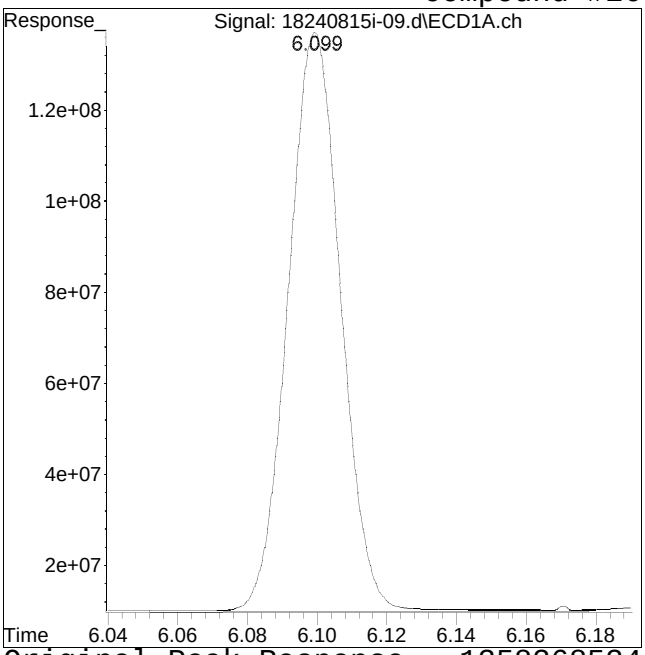


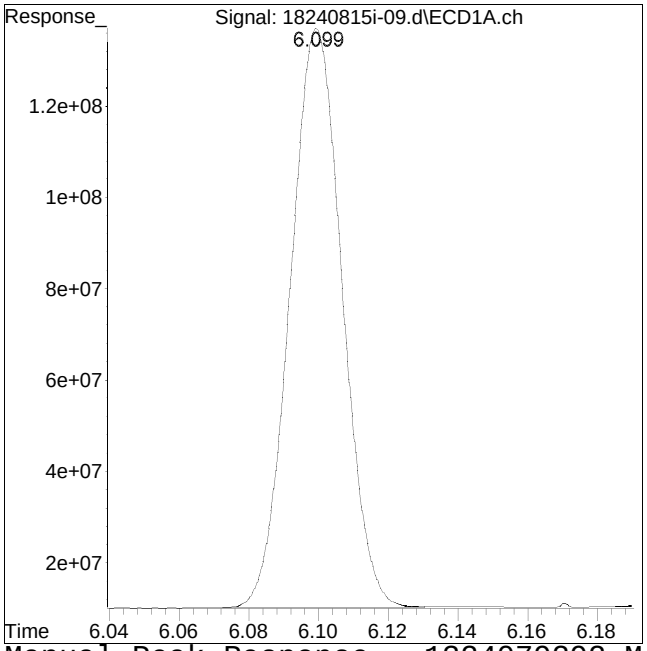
Original Peak Response = 701827475 Manual Peak Response = 684748048 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #26: Endrin Ketone



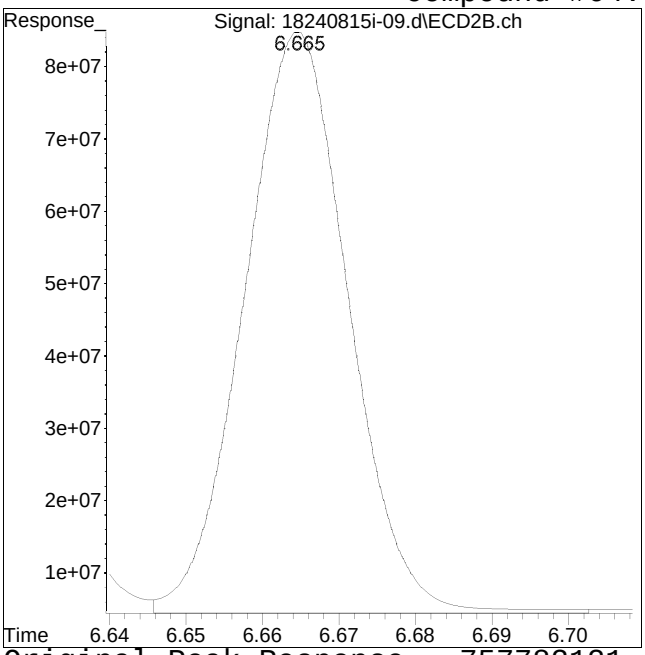


Original Peak Response = 1358368534 Manual Peak Response = 1324079292 M4
M4 = Poor automated baseline construction.

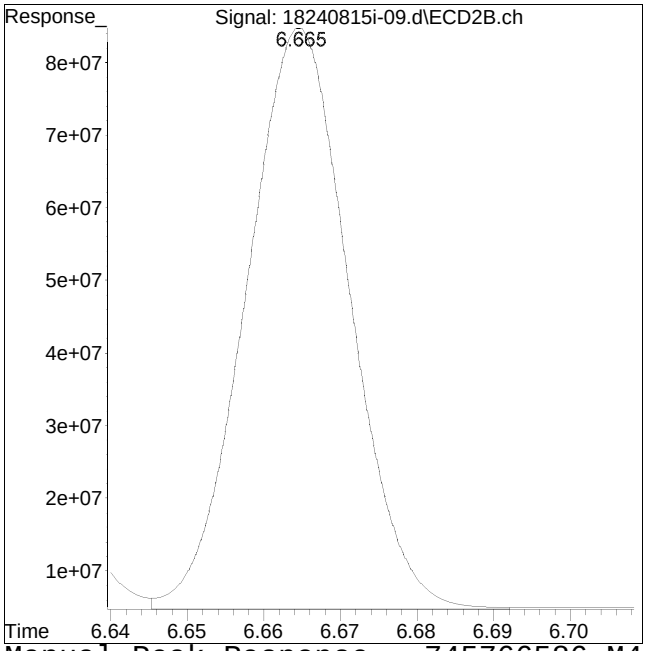
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #64: Endrin Ketone #2



Original Peak Response = 757782121

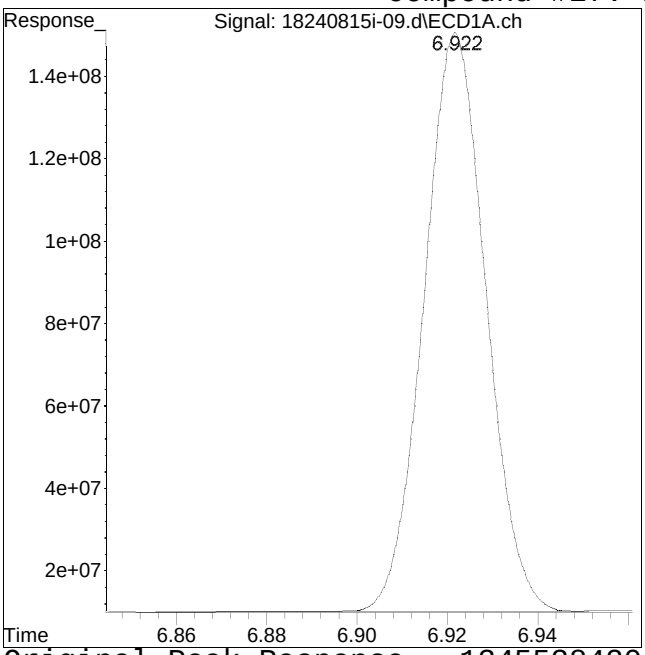


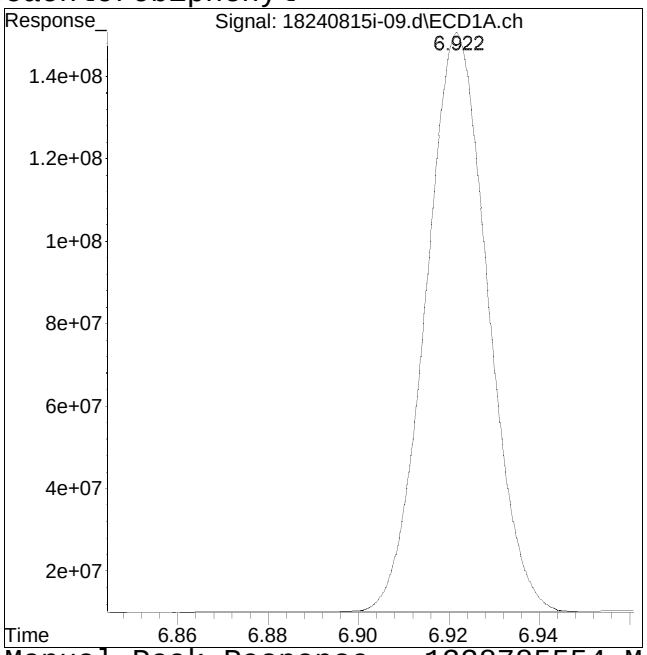
Manual Peak Response = 745766586 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #27: Decachlorobiphenyl



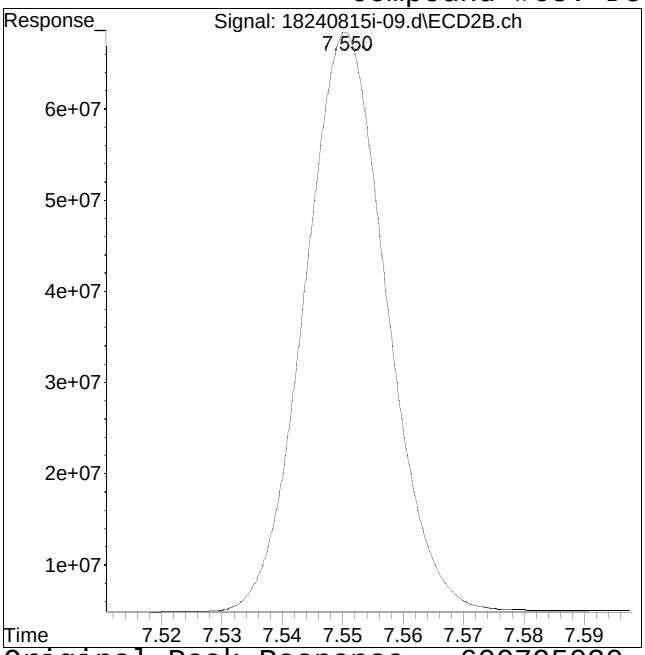


Original Peak Response = 1345538420 Manual Peak Response = 1338785554 M4
M4 = Poor automated baseline construction.

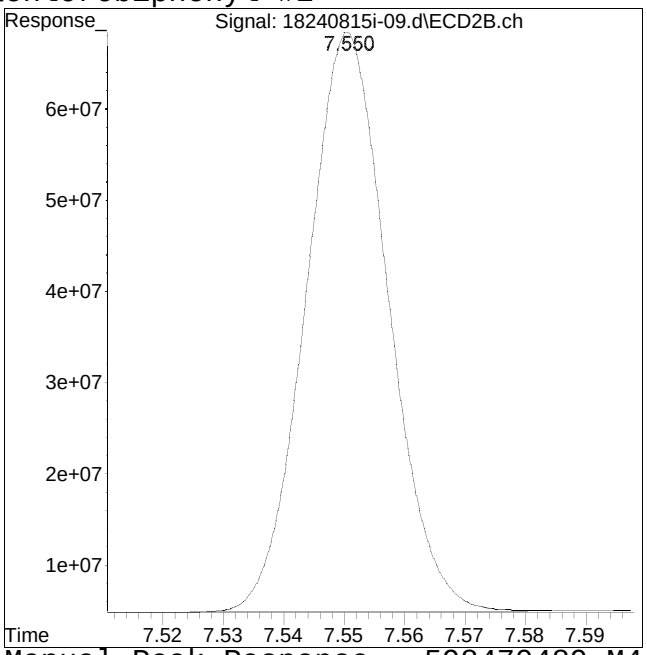
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-09.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:14 Instrument : Pest 18
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/16/2024 6:00 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 600795030



Manual Peak Response = 598470489 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:25
Operator : PEST18:peg
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:07:59 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:07:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	519.3E6	317.9E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.340	2347.2E6	1434.7E6	98.921M4	99.428M3
		Spiked Amount 50.000	Range 30 - 150		Recovery =		197.84%#	198.86%#
27)	s	Decachlorobi	6.922	7.550	2365.3E6	1051.9E6	97.624M4	96.946M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		195.25%#	193.89%#
		Target Compounds						
3)		Hexachlorobe	2.358	2.683	2698.4E6	1454.0E6	98.851M3	99.078M4
4)		alpha-BHC	2.470	2.787	3126.4E6	2041.6E6	99.460M4	100.533M4
5)		gamma-BHC (l	2.688	3.083	2798.2E6	1820.7E6	99.489M3	100.343
6)		beta-BHC	2.752	3.156	1203.0E6	786.0E6	98.573M4	98.970M4
7)		delta-BHC	2.885	3.426	2852.4E6	1854.4E6	99.585M4	100.622
8)		Heptachlor	3.054	3.483	2563.1E6	1614.5E6	98.165M4	98.985M4
9)		Aldrin	3.303	3.804	2584.0E6	1660.1E6	98.748M4	99.476M4
10)		Alachlor	3.442	3.699	344.0E6	216.6E6	95.504M4	95.707M4
11)		Chlorpyrifos	3.536	4.055	1082.8E6	699.2E6	96.222M3	95.912M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:25
Operator : PEST18:peg
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:07:59 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:07:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.423	2265.4E6	1501.9E6	98.099M3	98.538M3
13)		gamma-Chlord	3.989	4.646	2209.0E6	1387.2E6	98.894M4	98.848M4
14)		alpha-Chlord	4.125	4.821	2479.6E6	1537.0E6	98.714M3	98.640
15)		4,4'-DDE	4.231	5.035	2568.2E6	1585.9E6	99.029M4	98.908
16)		Endosulfan I	4.260	4.883	2218.1E6	1427.6E6	98.130M4	98.535
17)		Dieldrin	4.523	5.189	2397.0E6	1504.0E6	98.634M4	98.988M4
18)		Endrin	4.779	5.498	2392.8E6	1475.7E6	98.363M4	98.758M4
19)		4,4'-DDD	4.905	5.633	1957.2E6	1212.5E6	98.541M4	98.838M4
20)		Endosulfan I	5.032	5.706	2135.5E6	1306.2E6	98.150M4	98.479M4
21)		4,4'-DDT	5.211	5.917	2204.2E6	1321.4E6	98.609M4	98.548M4
22)		Endrin Aldeh	5.466	6.011	1811.1E6	1088.5E6	98.646M3	98.673M4
23)		Methoxychlor	5.718	6.498	1136.7E6	662.9E6	96.191M4	96.323M3
24)		Mirex	5.764	6.624	1740.7E6	986.1E6	97.602M4	97.068M4
25)		Endosulfan S	5.869	6.246	2147.9E6	1234.2E6	98.644M3	98.200M4
26)		Endrin Keton	6.100	6.664	2346.4E6	1338.0E6	97.774M4	97.969M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:25
Operator : PEST18:peg
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:07:59 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:07:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

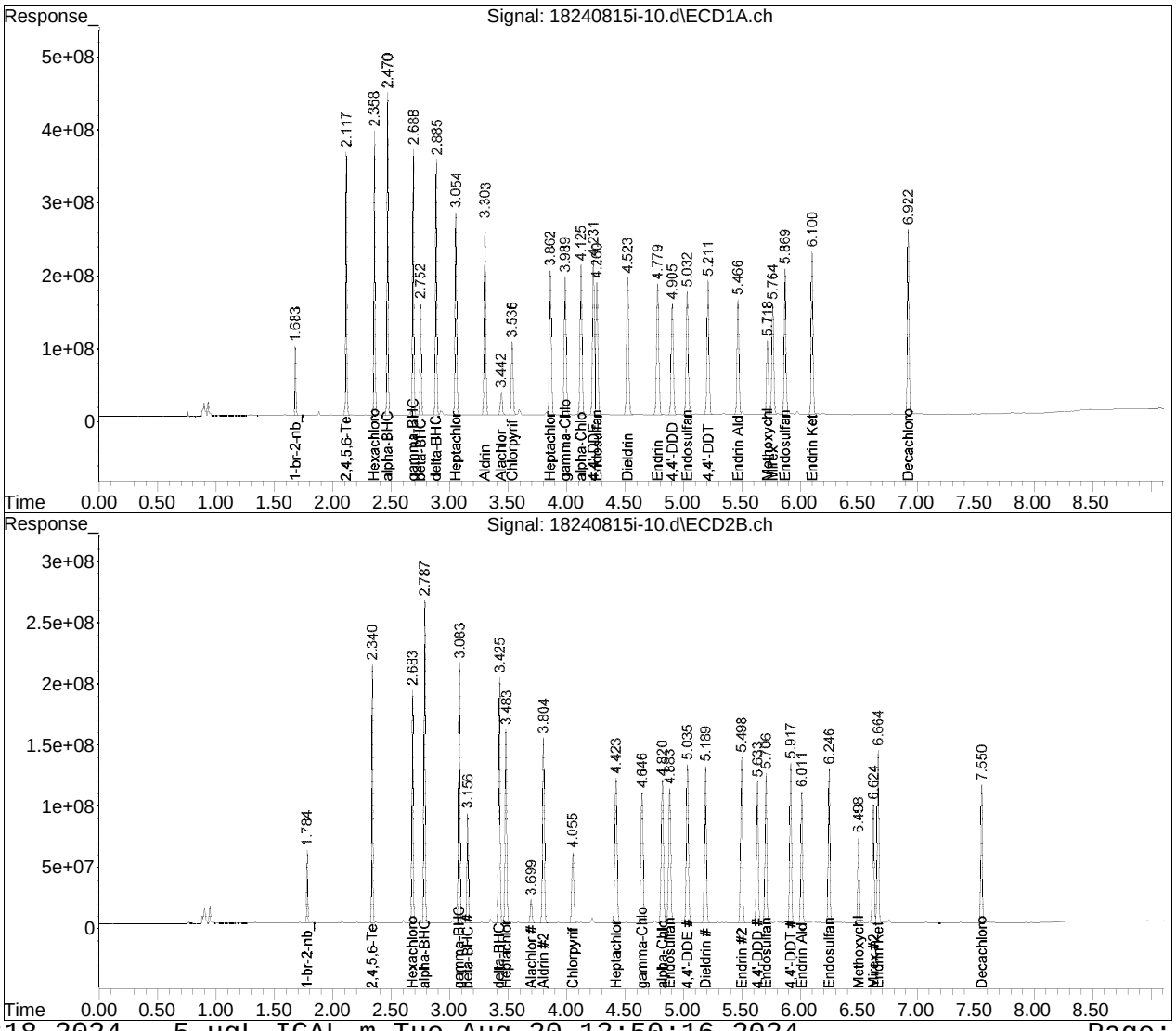
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:25
Operator : PEST18:peg
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:07:59 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:07:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

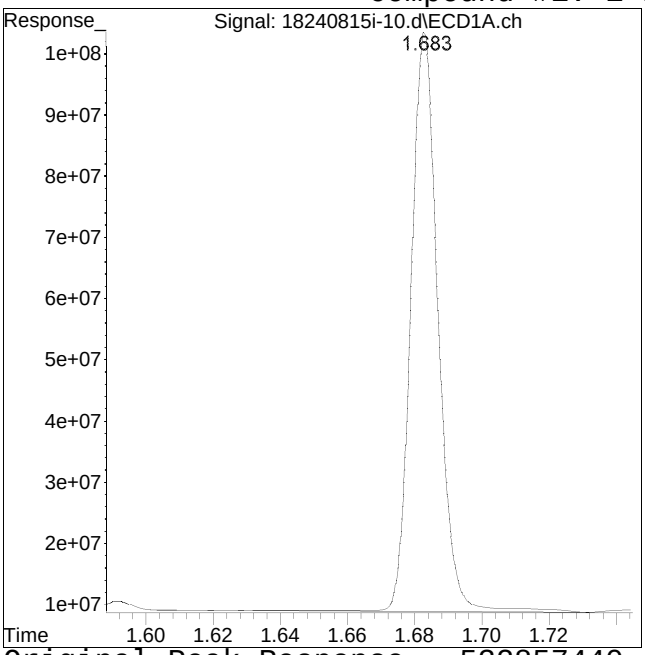


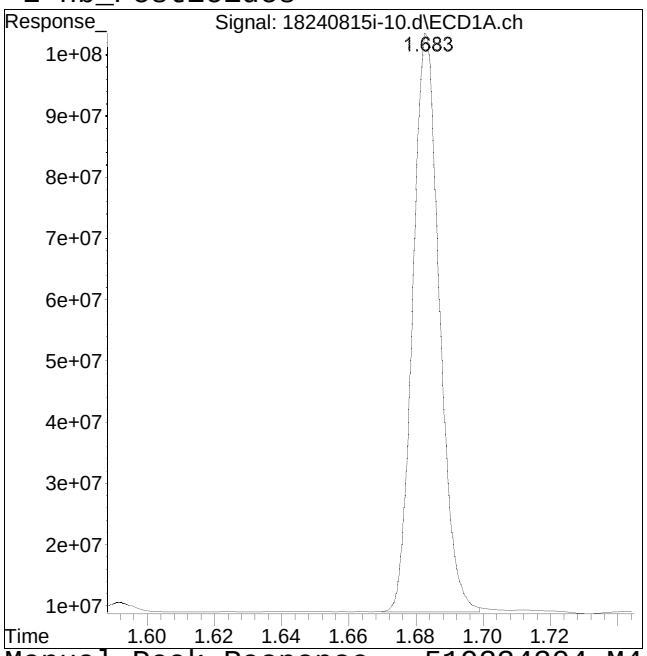
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #1: 1-br-2-nb_Pesticides



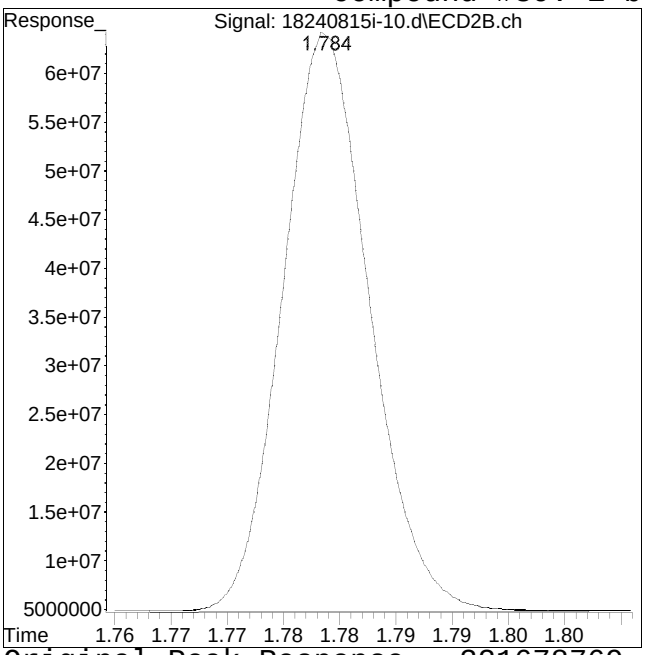


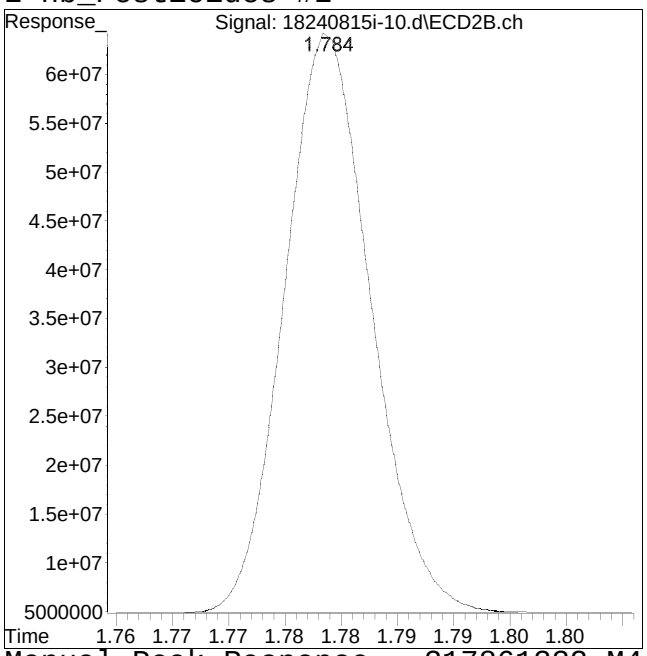
Original Peak Response = 532857440 Manual Peak Response = 519334304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #39: 1-br-2-nb_Pesticides #2



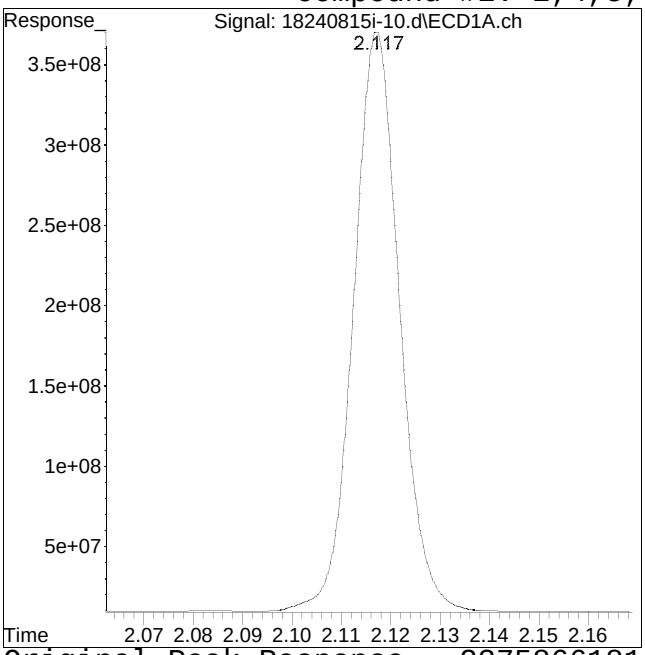


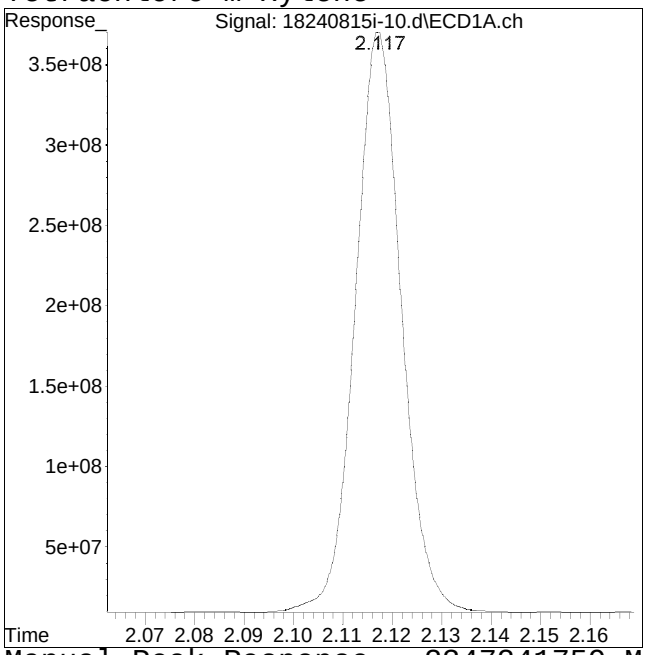
Original Peak Response = 321678769 Manual Peak Response = 317861332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



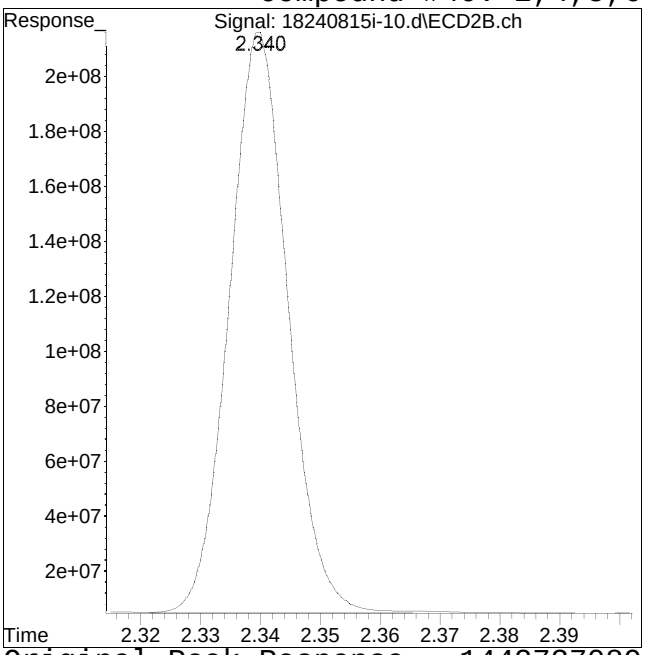


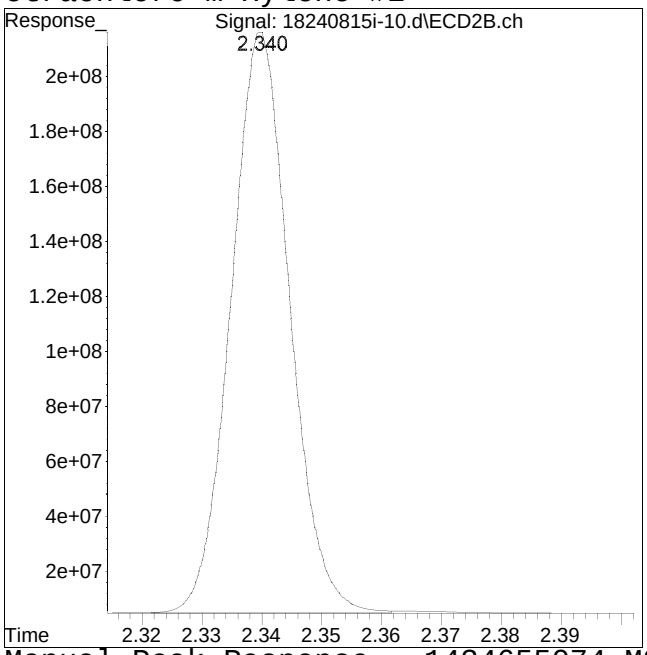
Original Peak Response = 2375866181 Manual Peak Response = 2347241759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





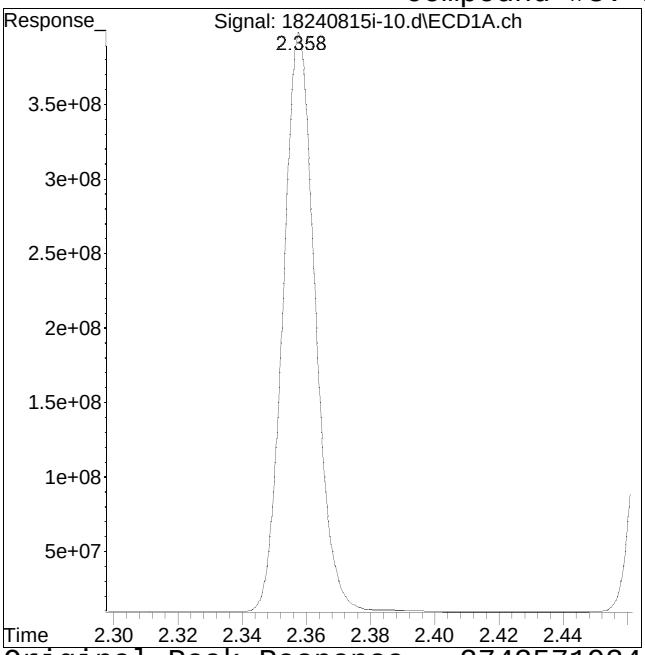
Original Peak Response = 1442737089 Manual Peak Response = 1434655074 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

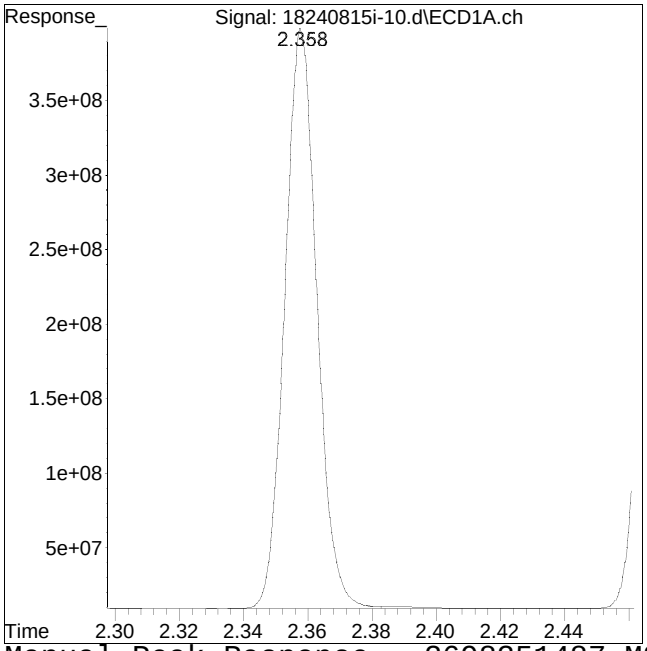
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #3: Hexachlorobenzene



Original Peak Response = 2743571934



Manual Peak Response = 2698351487 M3

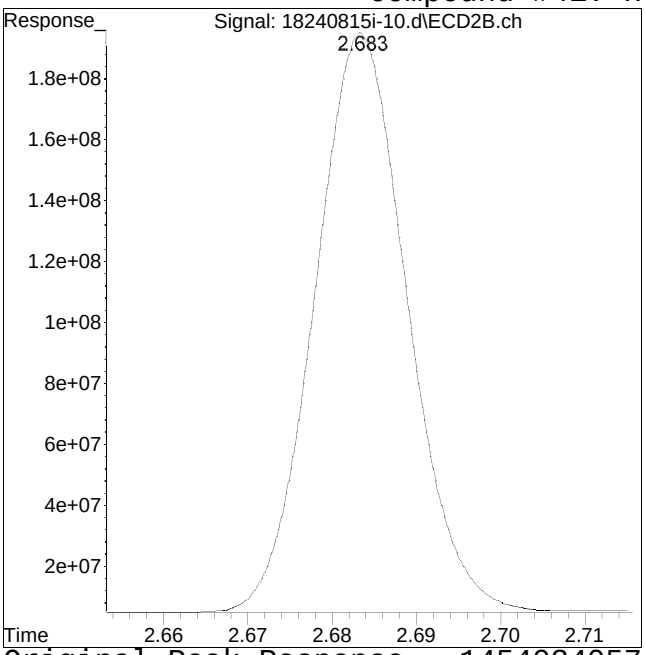
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

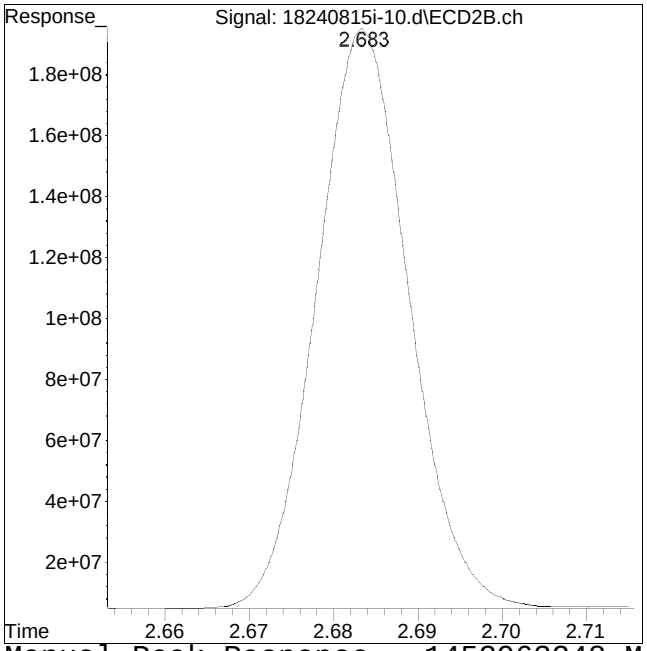
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #41: Hexachlorobenzene #2



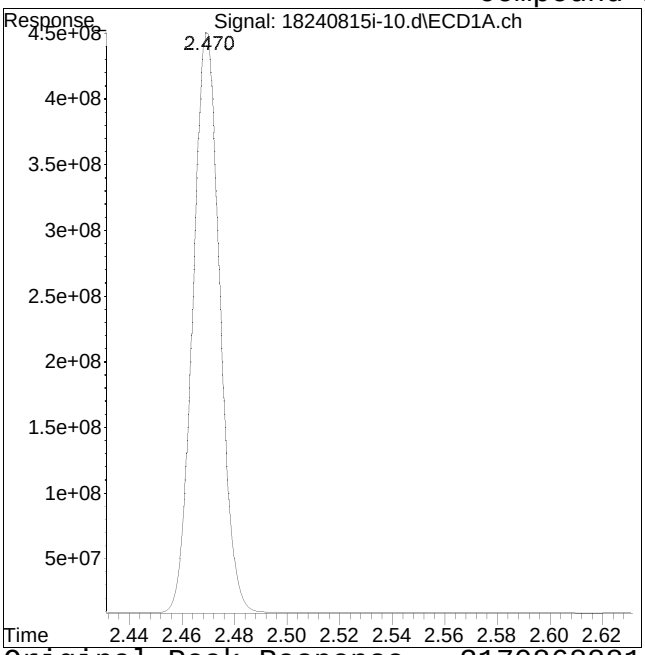


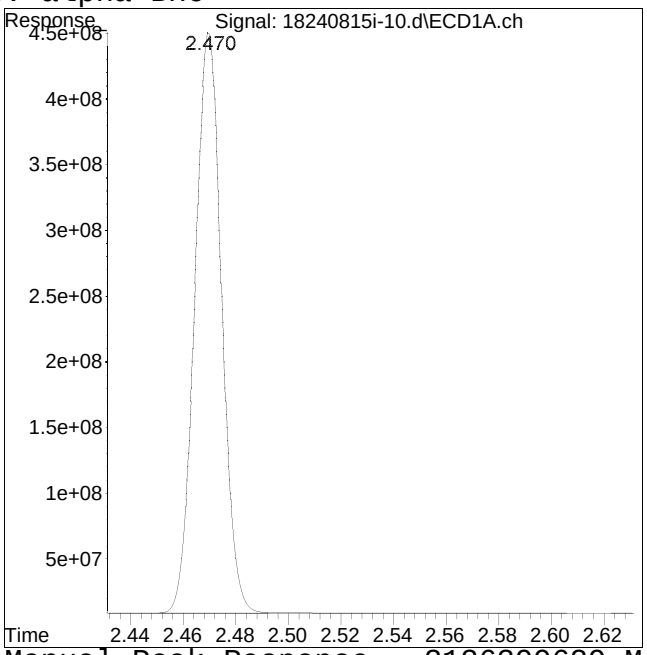
Original Peak Response = 1454034057 Manual Peak Response = 1453963248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #4: alpha-BHC



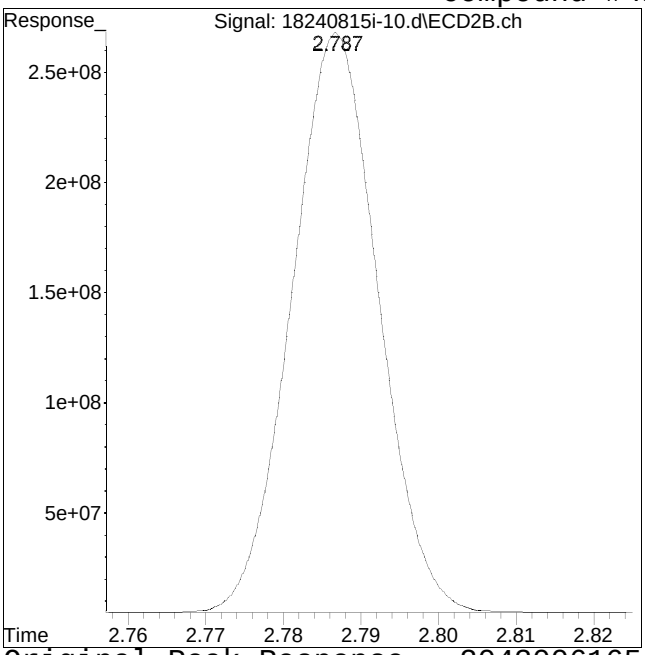


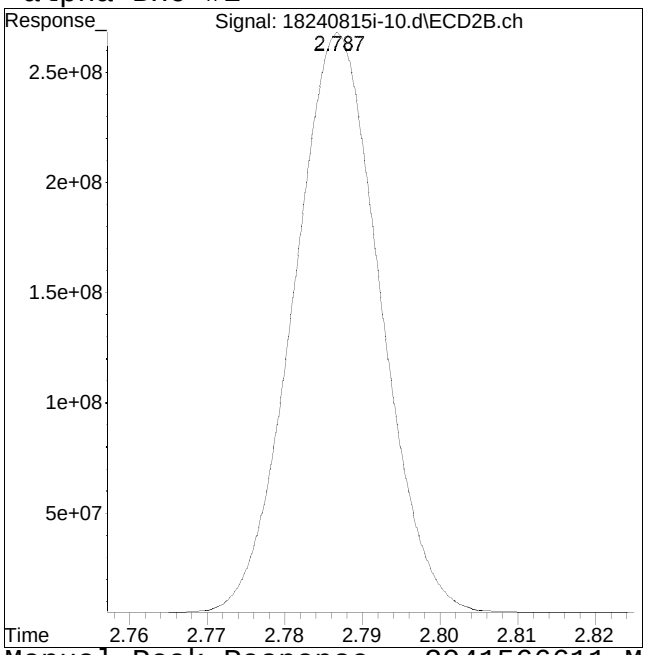
Original Peak Response = 3170868881 Manual Peak Response = 3126399629 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #42: alpha-BHC #2



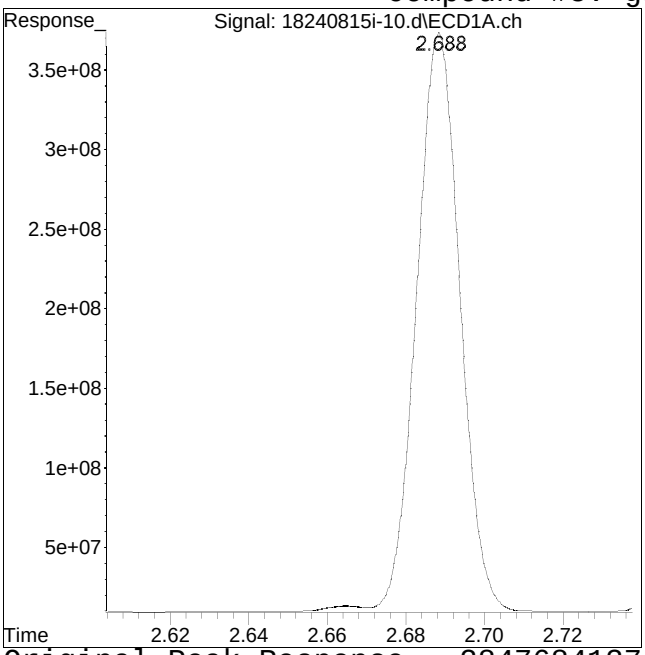


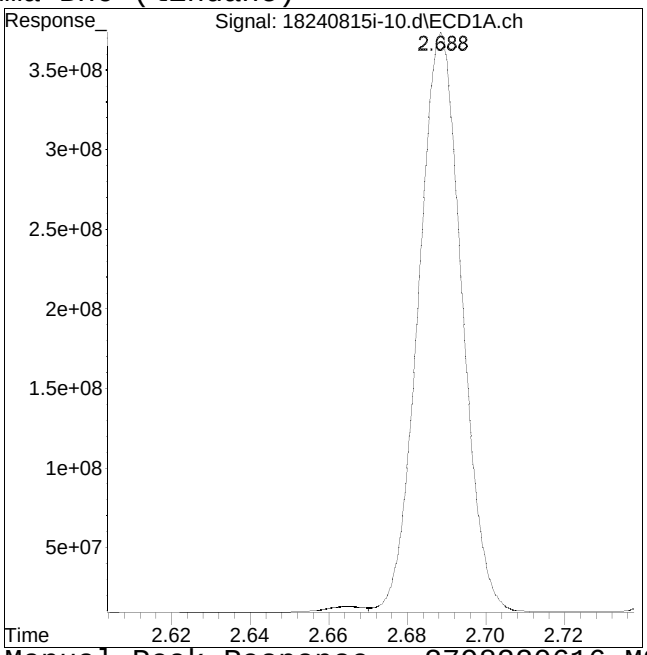
Original Peak Response = 2043006165 Manual Peak Response = 2041566611 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #5: gamma-BHC (lindane)



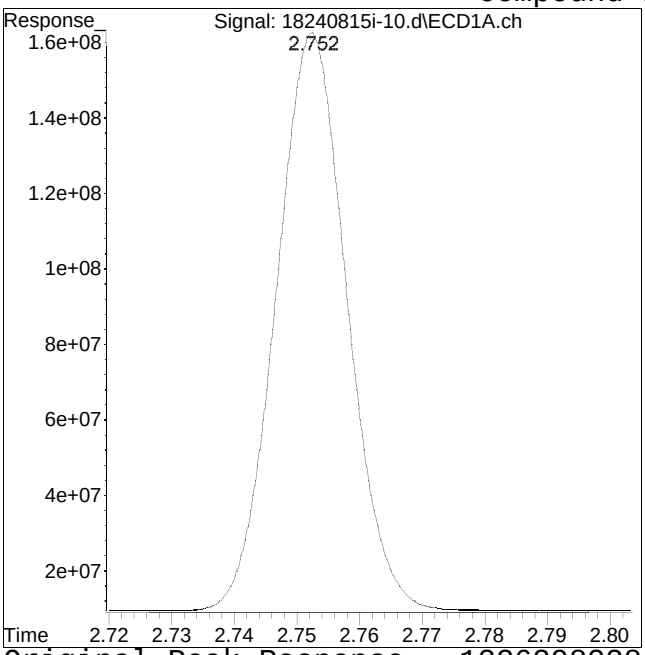


Original Peak Response = 2847684137 Manual Peak Response = 2798220616 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

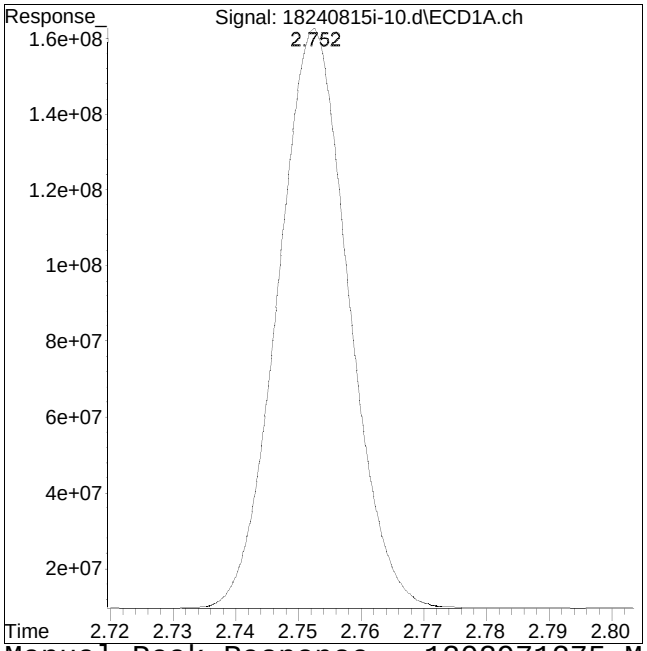
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #6: beta-BHC



Original Peak Response = 1226298228

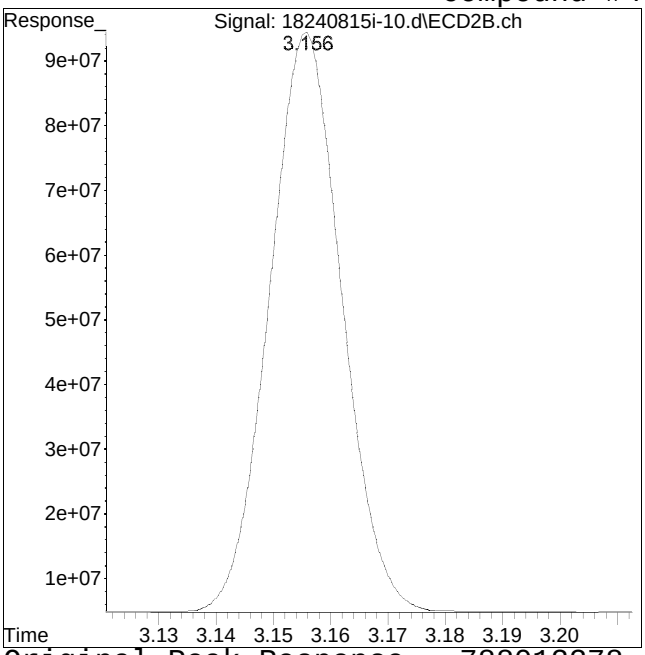


Manual Peak Response = 1202971275 M4
M4 = Poor automated baseline construction.

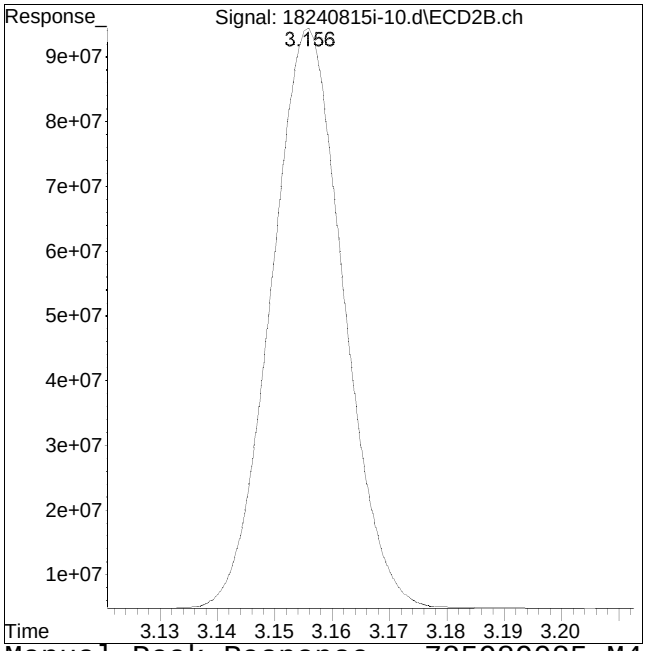
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #44: beta-BHC #2



Original Peak Response = 788012378



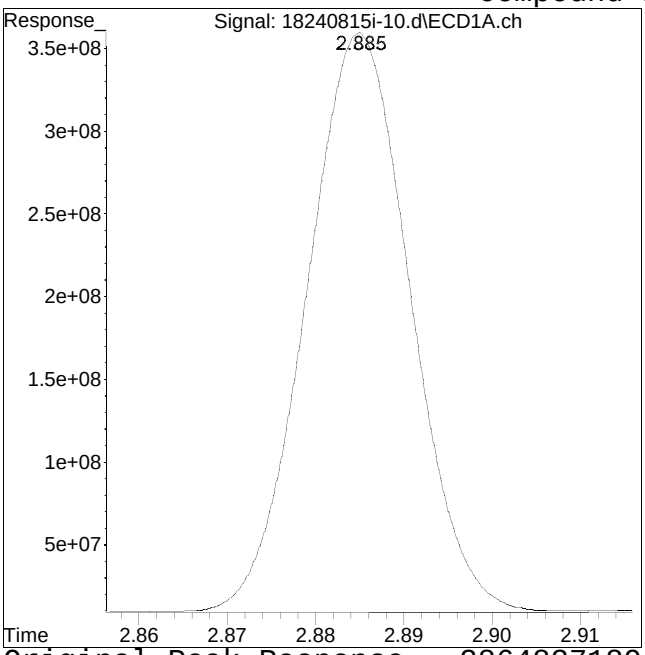
Manual Peak Response = 785989085 M4

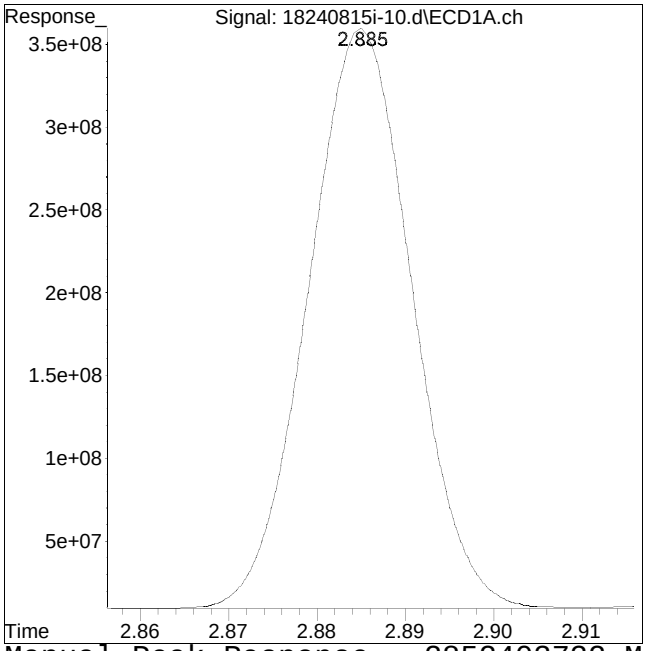
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #7: delta-BHC



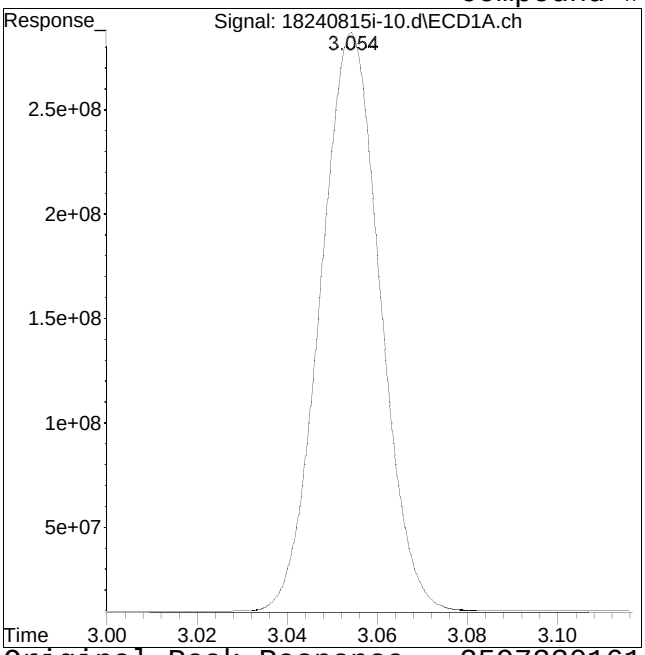


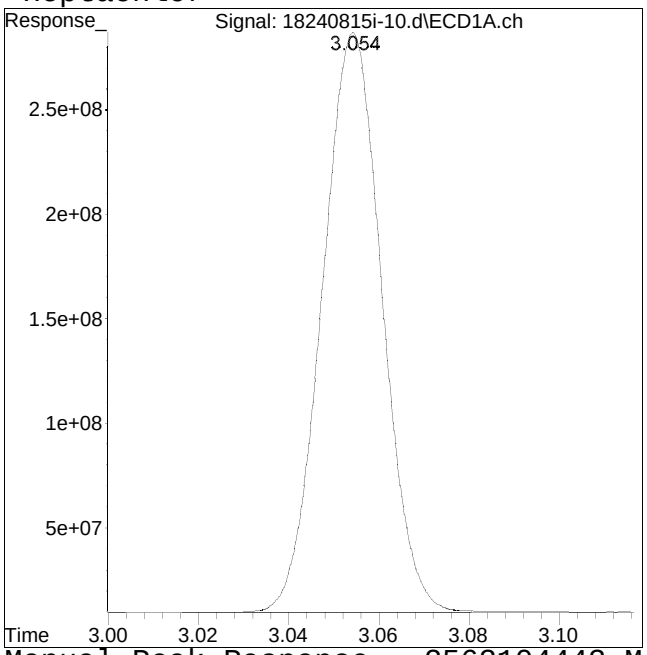
Original Peak Response = 2864837189 Manual Peak Response = 2852403732 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #8: Heptachlor





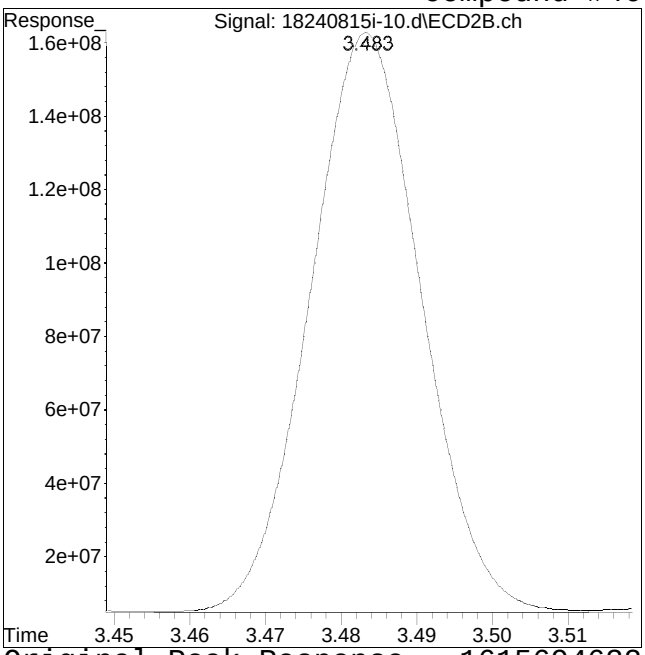
Original Peak Response = 2597330161 Manual Peak Response = 2563104443 M4
M4 = Poor automated baseline construction.

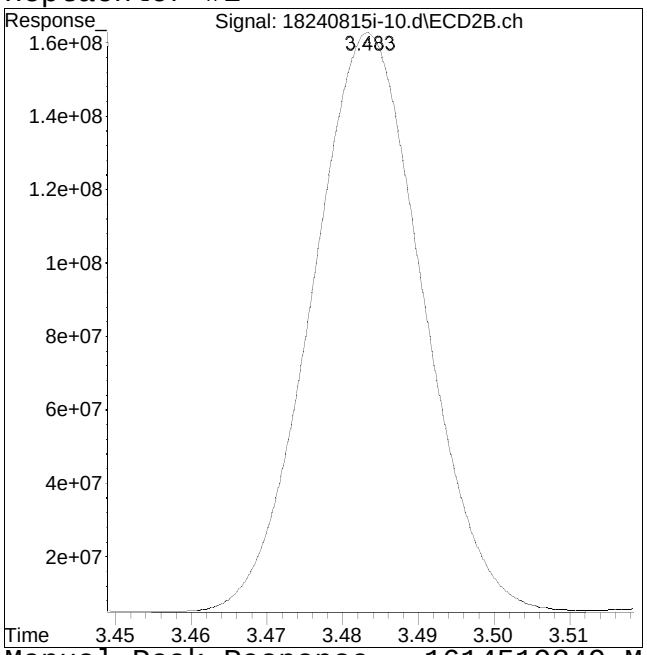
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #46: Heptachlor #2



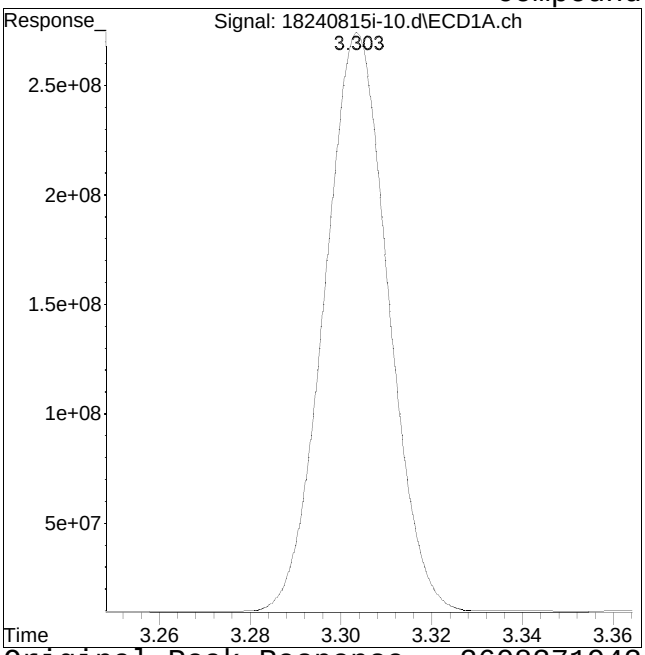


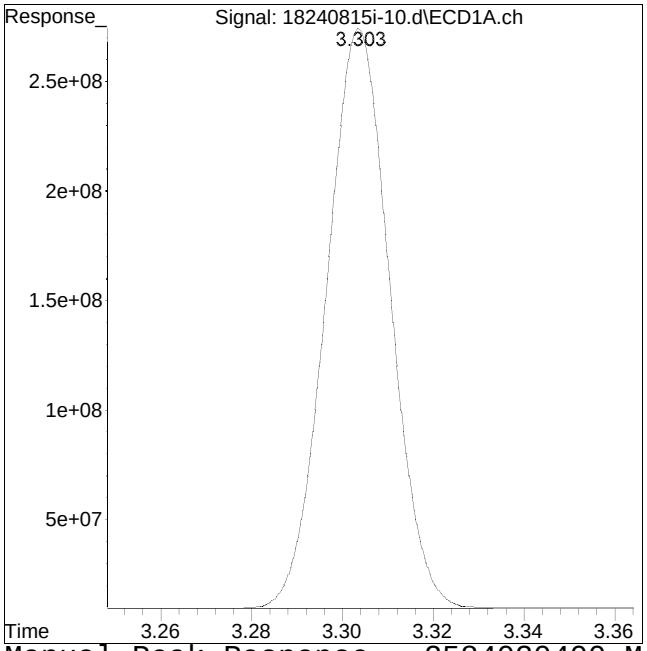
Original Peak Response = 1615694632 Manual Peak Response = 1614519249 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #9: Aldrin



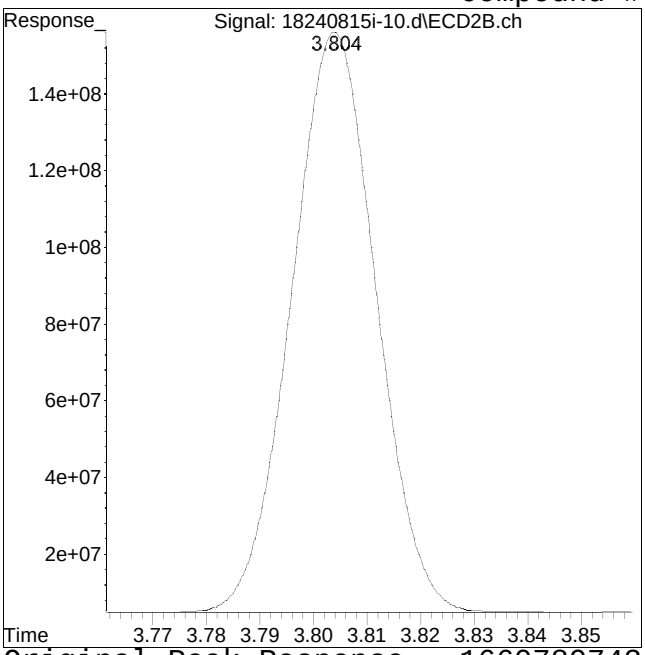


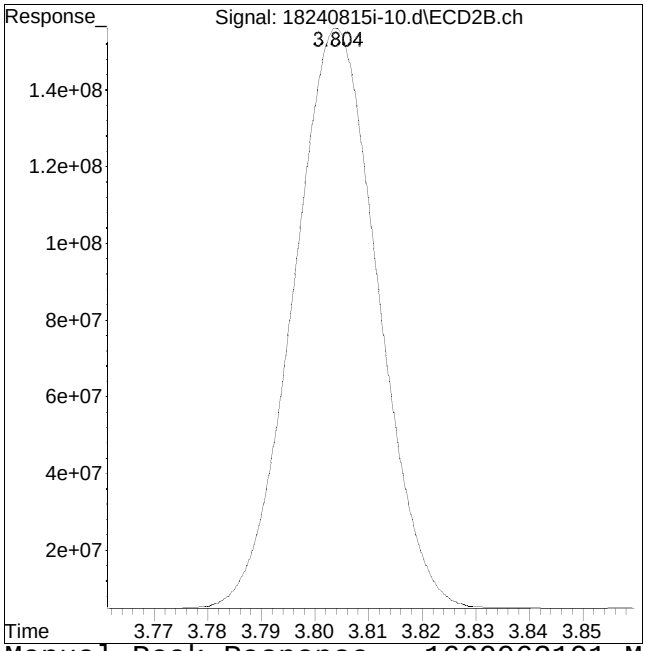
Original Peak Response = 2608371943 Manual Peak Response = 2584030400 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #47: Aldrin #2



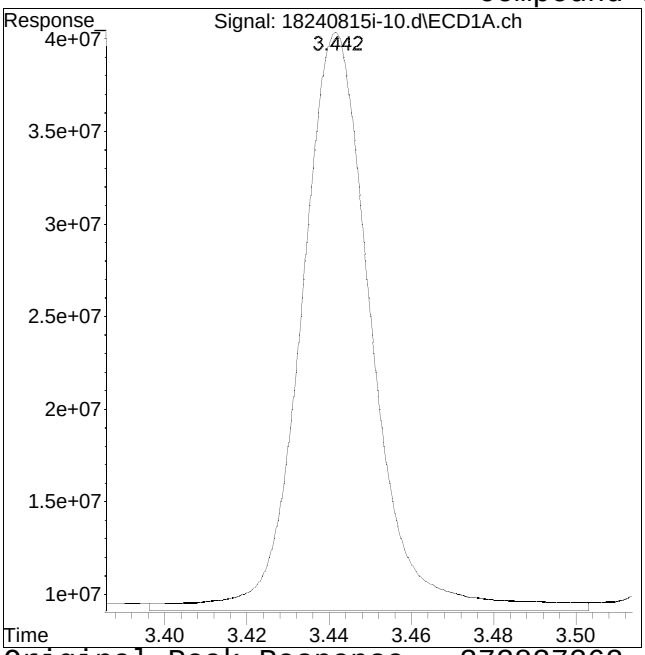


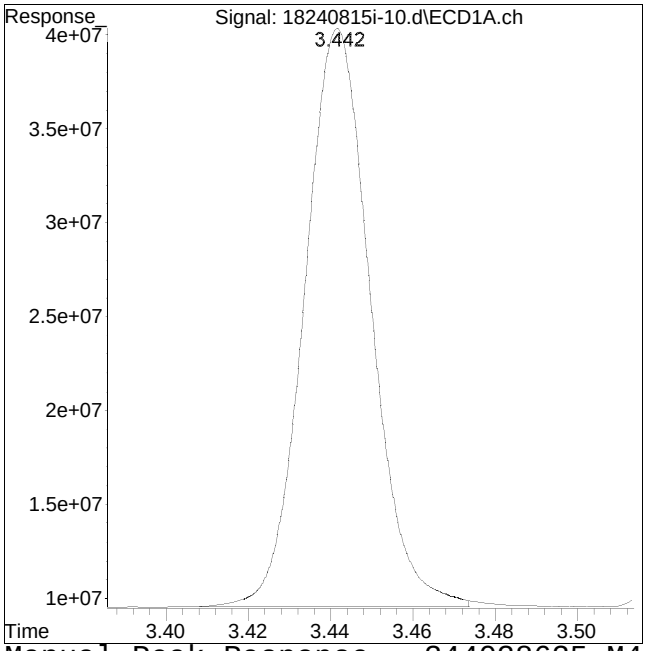
Original Peak Response = 1660789743 Manual Peak Response = 1660062101 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #10: Alachlor



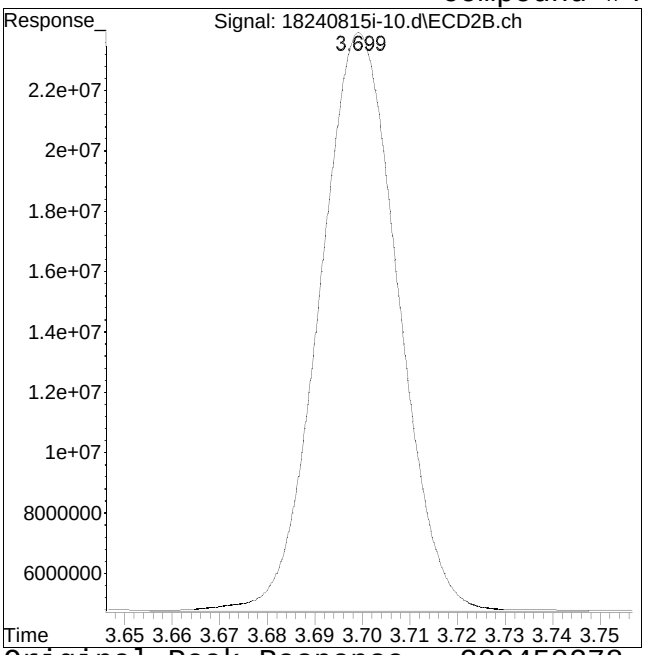


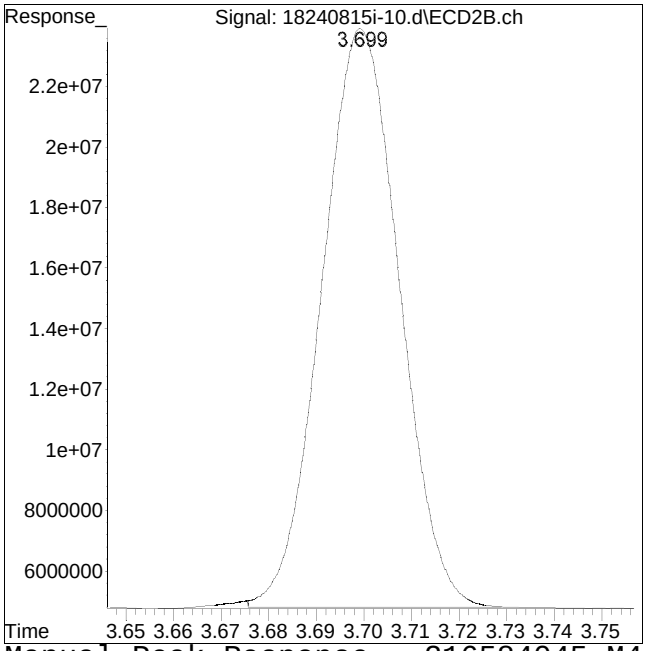
Original Peak Response = 373837362 Manual Peak Response = 344038635 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #48: Alachlor #2



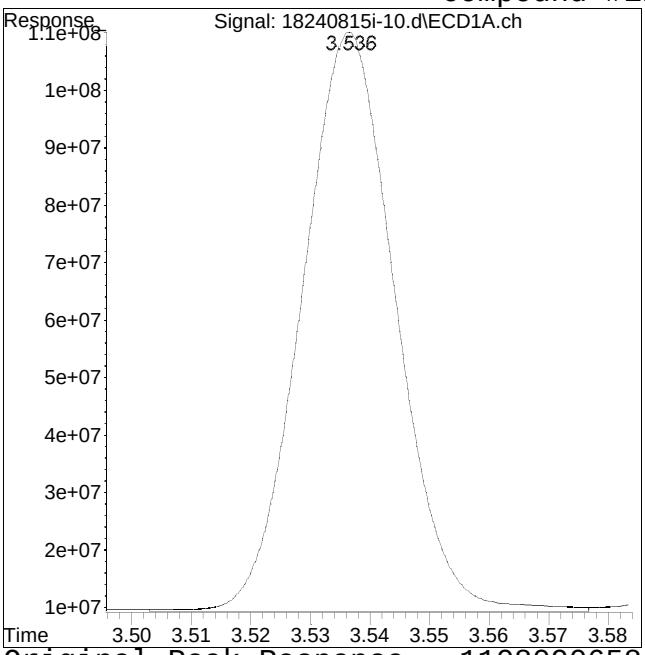


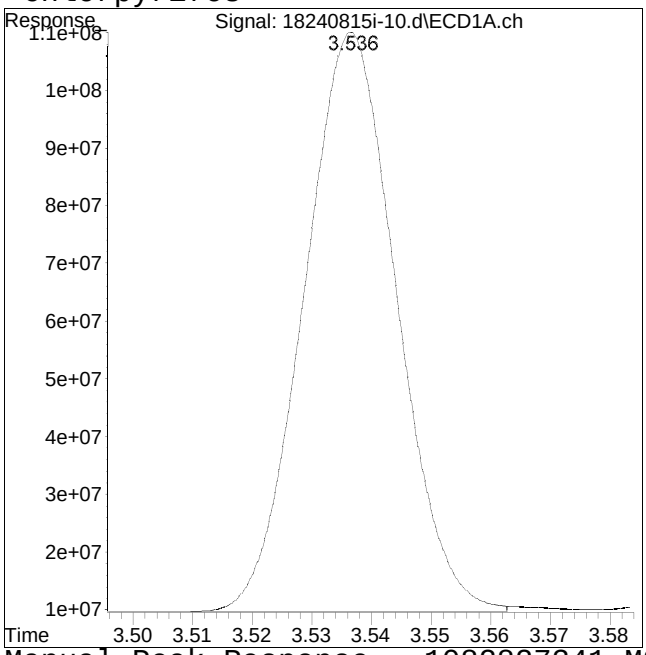
Original Peak Response = 220459278 Manual Peak Response = 216584045 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #11: Chlorpyrifos



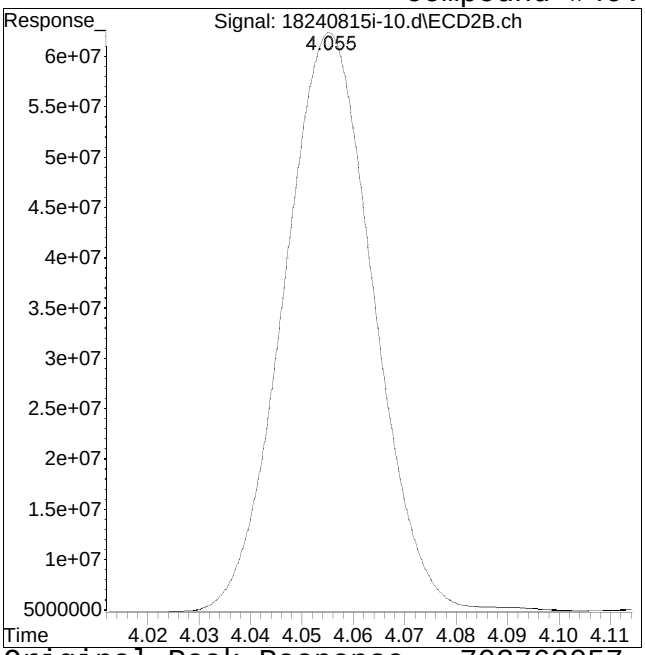


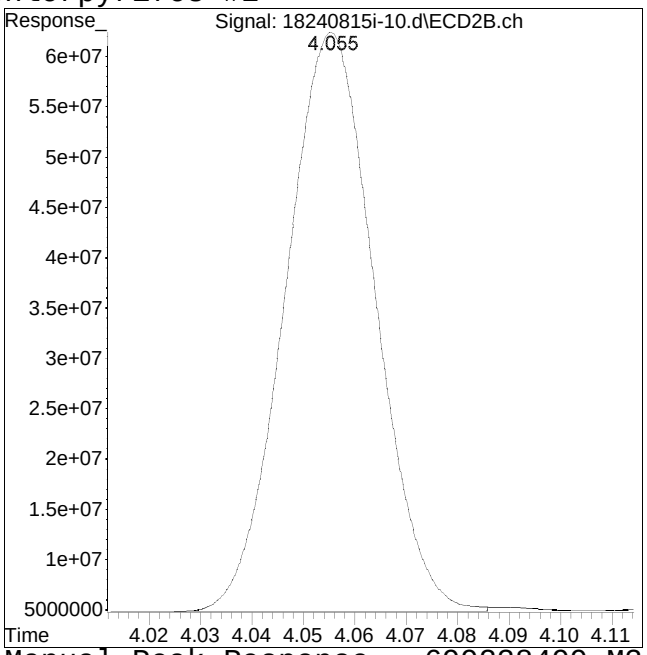
Original Peak Response = 1108090658 Manual Peak Response = 1082827341 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #49: Chlorpyrifos #2



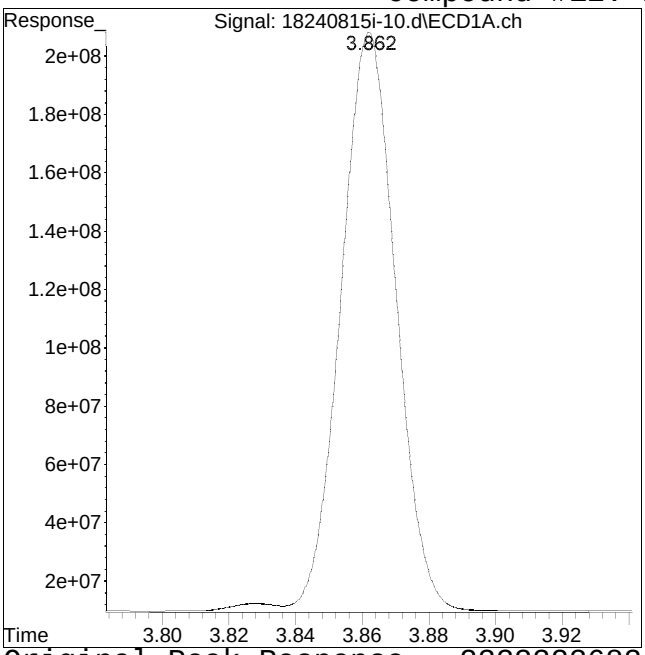


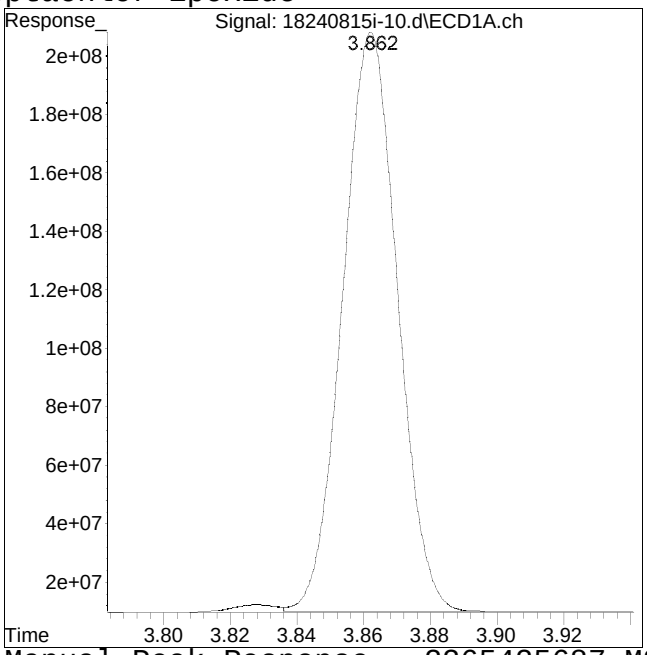
Original Peak Response = 703763057 Manual Peak Response = 699238499 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #12: Heptachlor Epoxide



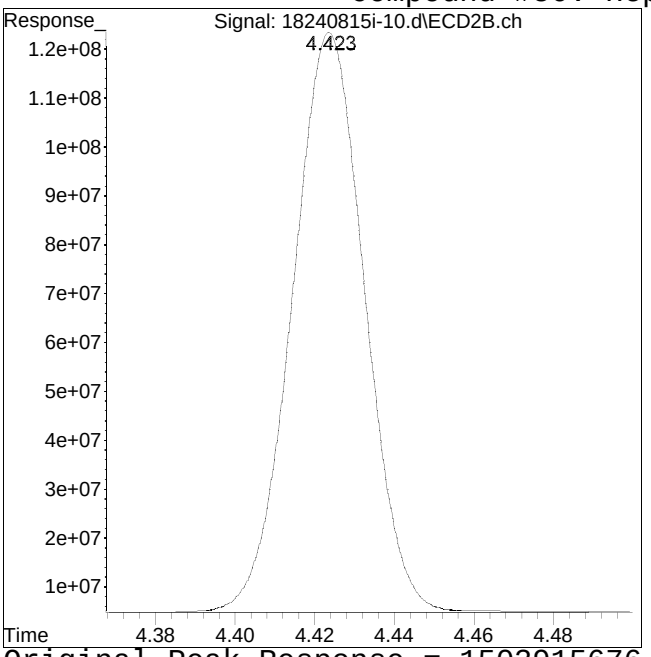


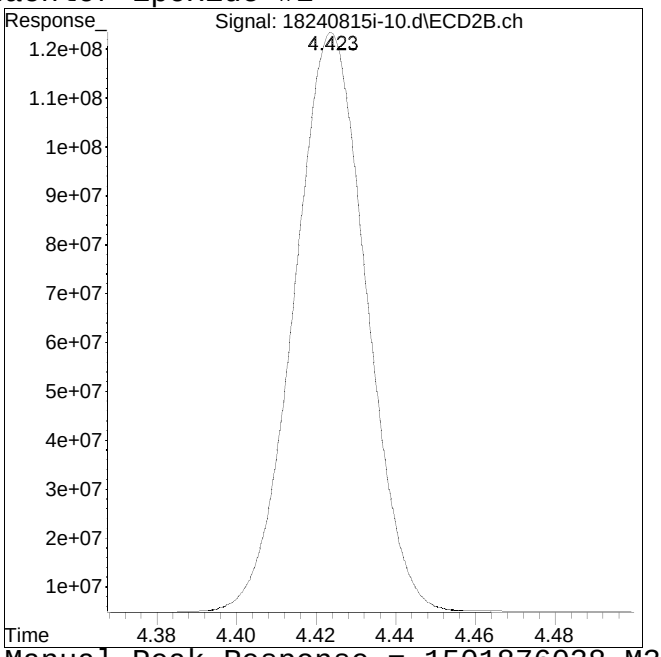
Original Peak Response = 2333323683 Manual Peak Response = 2265425687 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #50: Heptachlor Epoxide #2





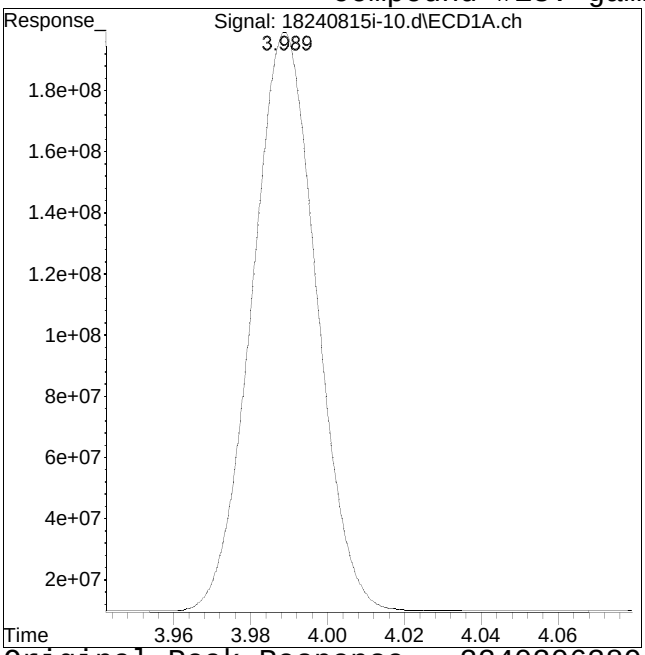
Original Peak Response = 1503915676 Manual Peak Response = 1501876038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

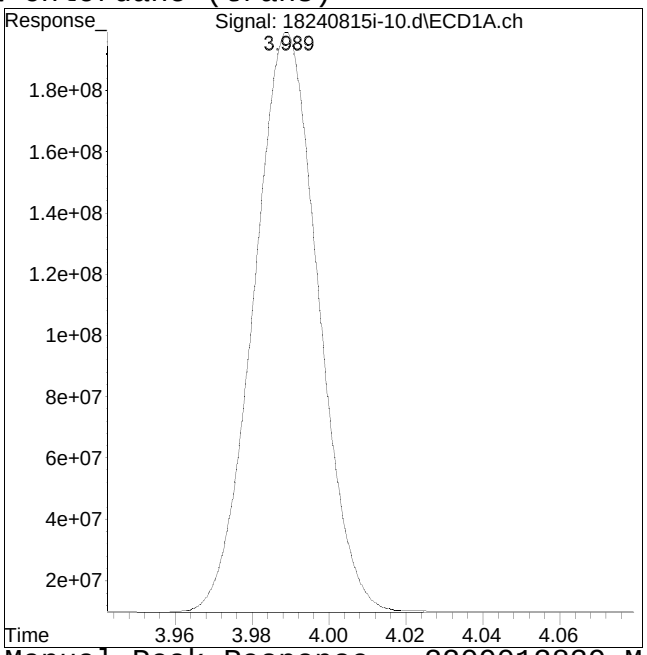
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #13: gamma-Chlordane (trans)





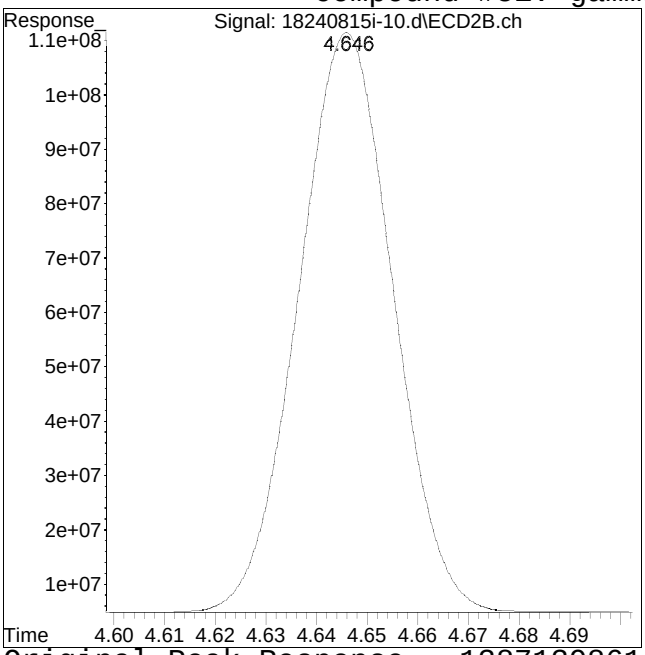
Original Peak Response = 2240306389 Manual Peak Response = 2209013839 M4
M4 = Poor automated baseline construction.

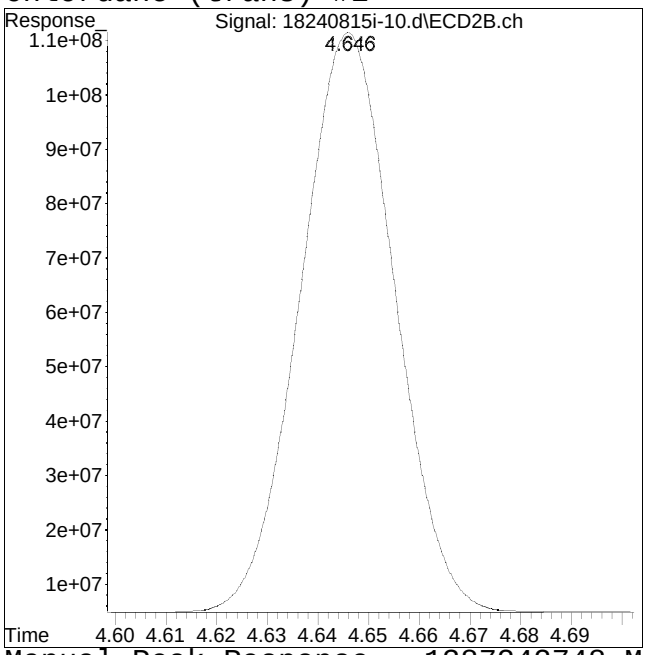
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #51: gamma-Chlordane (trans) #2



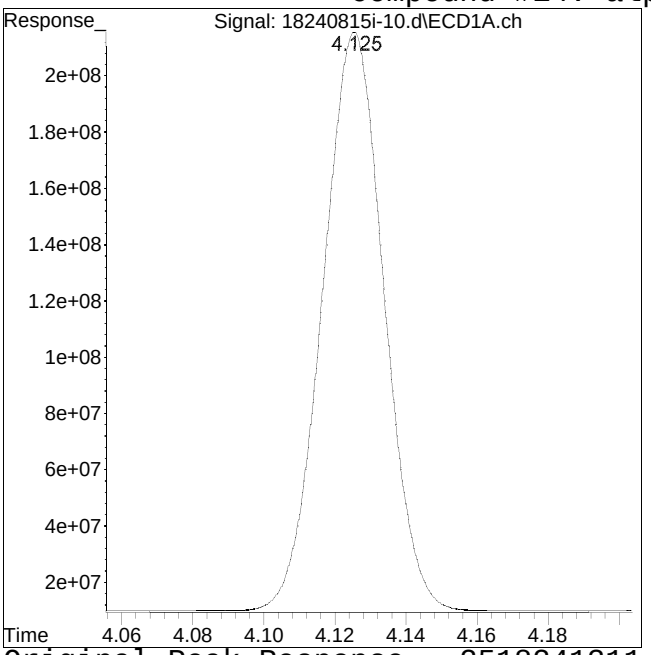


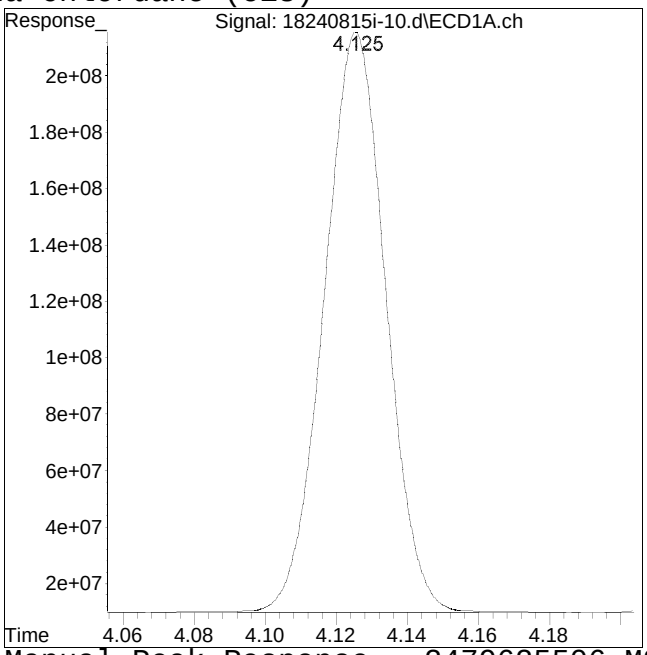
Original Peak Response = 1387139861 Manual Peak Response = 1387242748 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #14: alpha-Chlordane (cis)



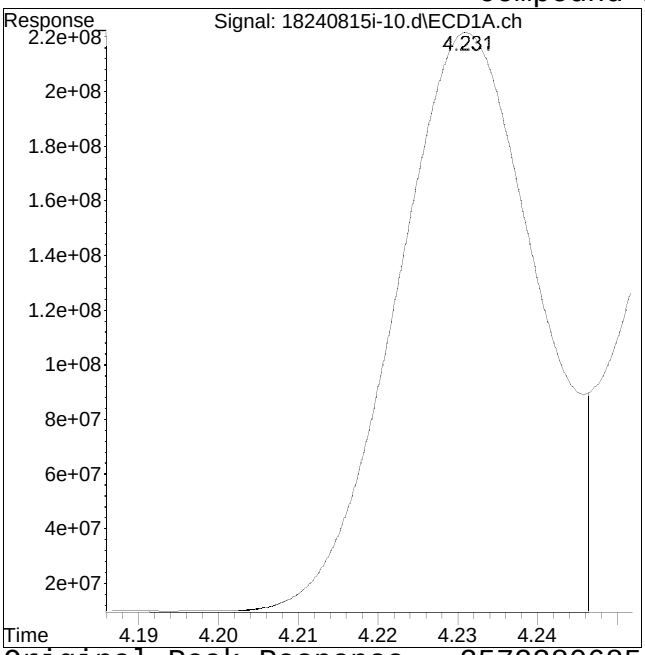


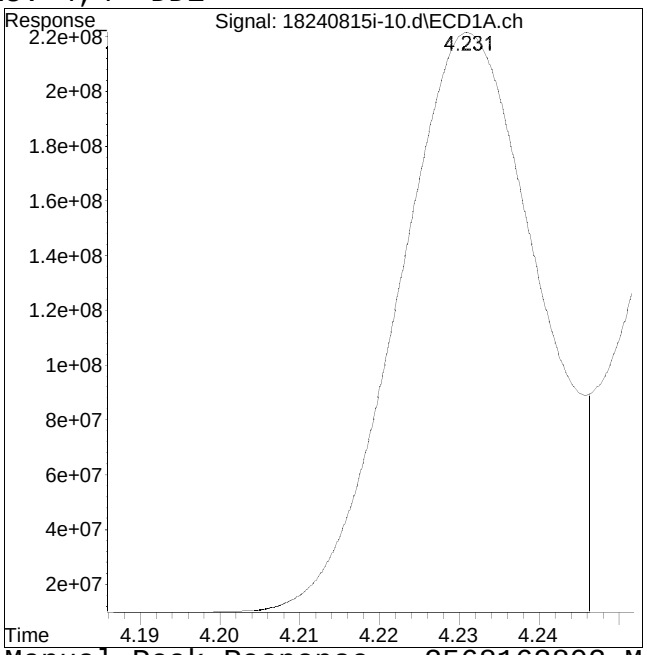
Original Peak Response = 2518241311 Manual Peak Response = 2479625506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #15: 4,4'-DDE



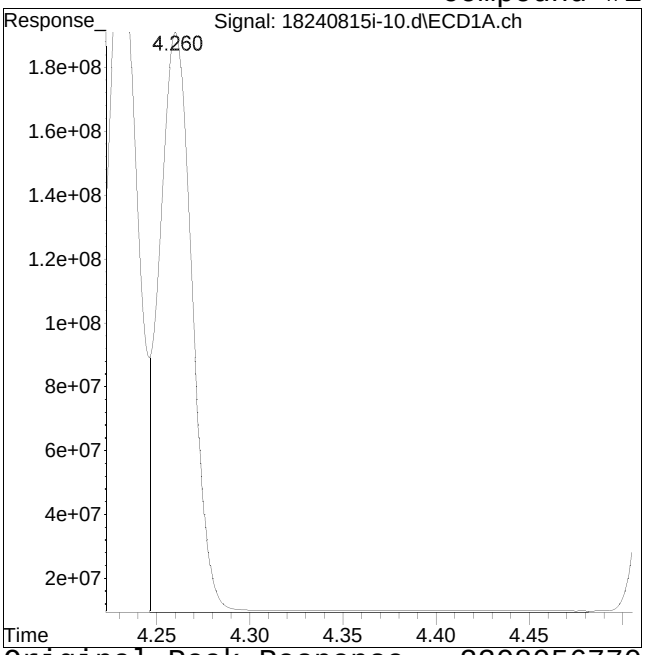


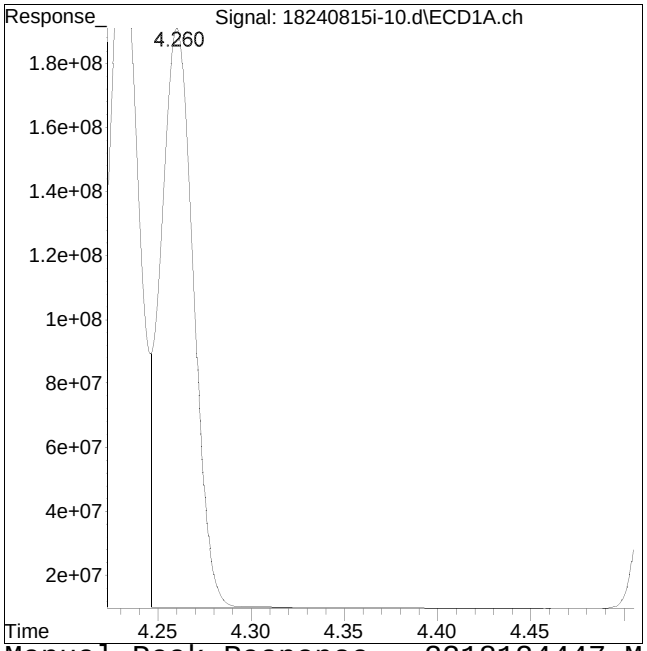
Original Peak Response = 2572380685 Manual Peak Response = 2568163802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #16: Endosulfan I



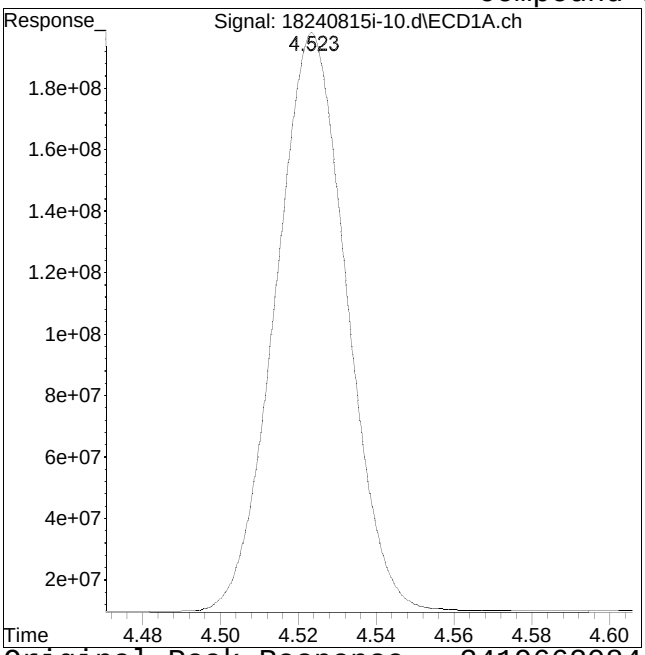


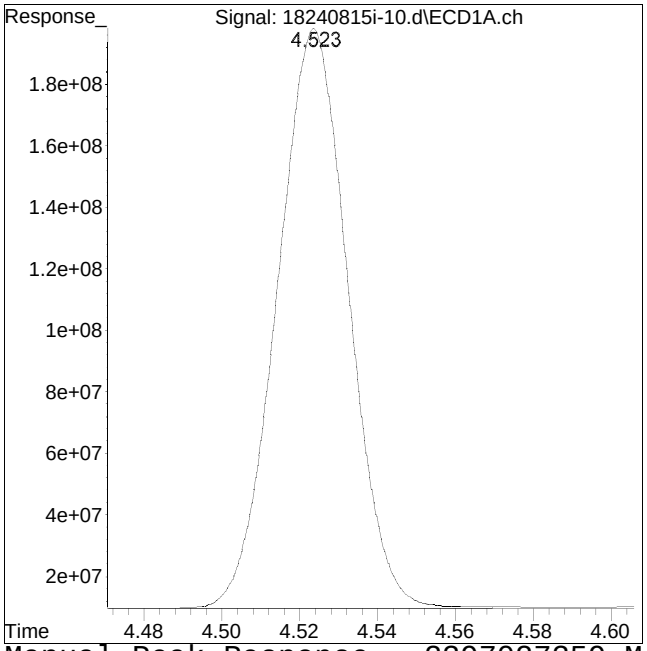
Original Peak Response = 2308056770 Manual Peak Response = 2218124447 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #17: Dieldrin



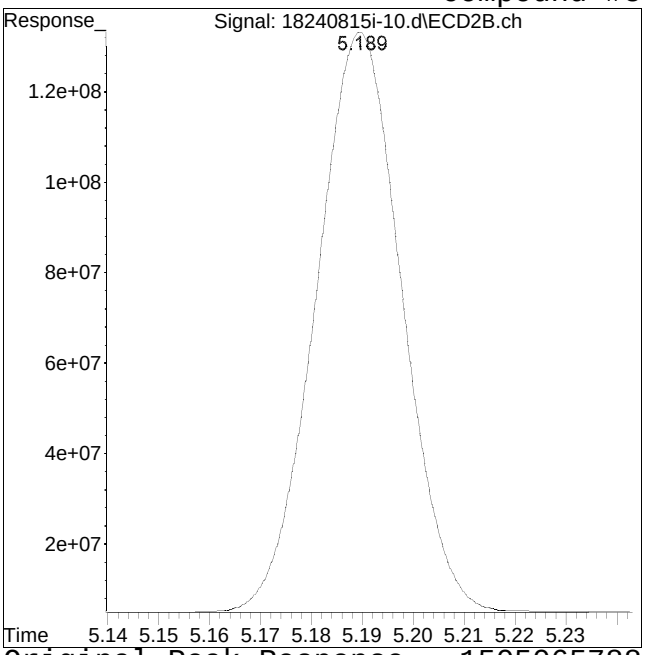


Original Peak Response = 2419662084 Manual Peak Response = 2397027359 M4
M4 = Poor automated baseline construction.

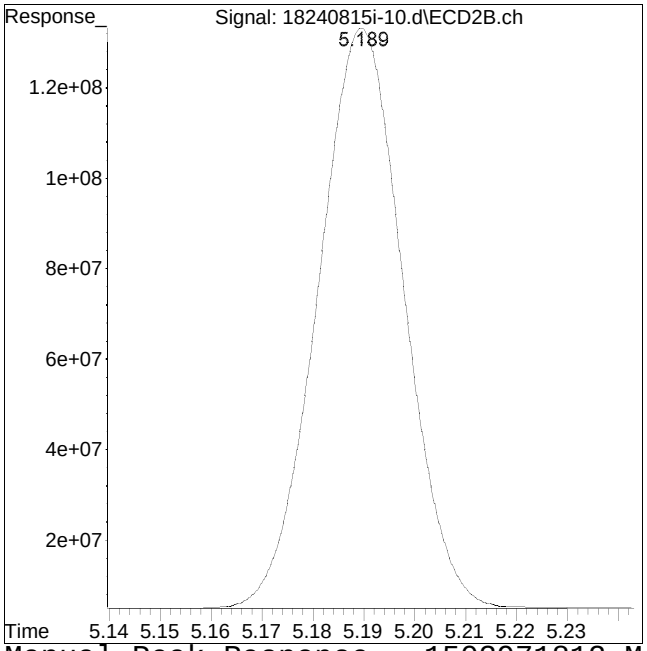
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #55: Dieldrin #2



Original Peak Response = 1505065788

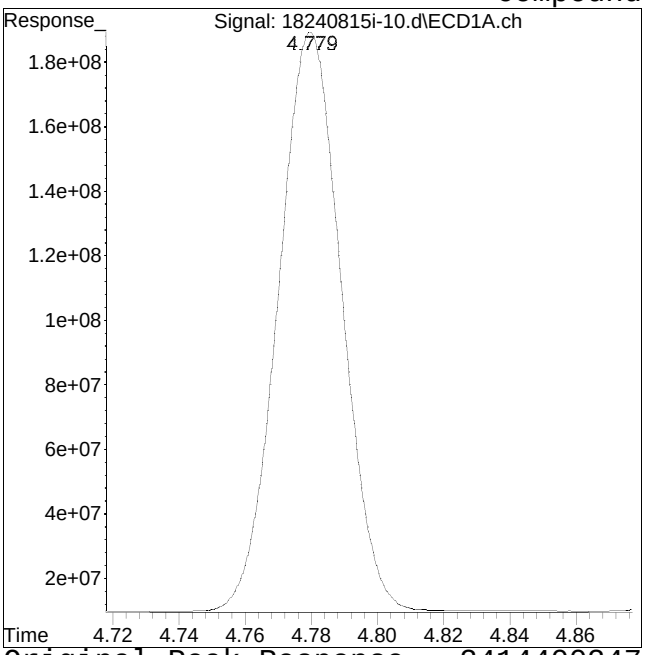


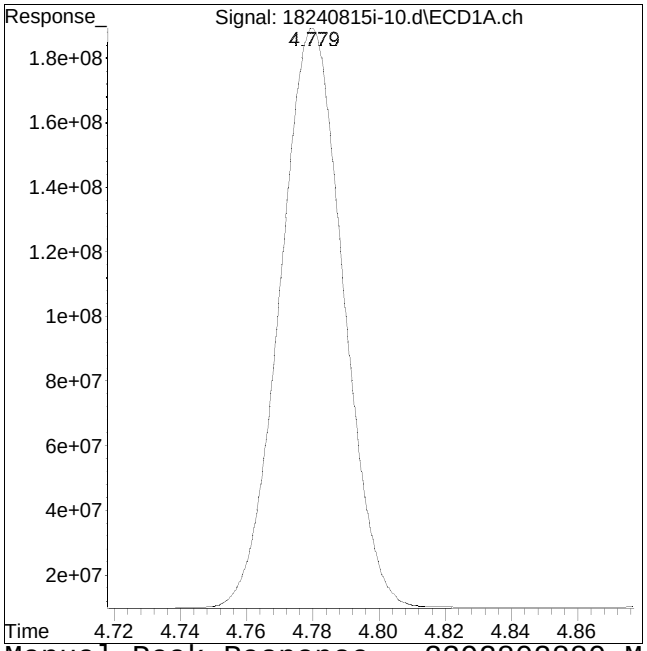
Manual Peak Response = 1503971812 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #18: Endrin



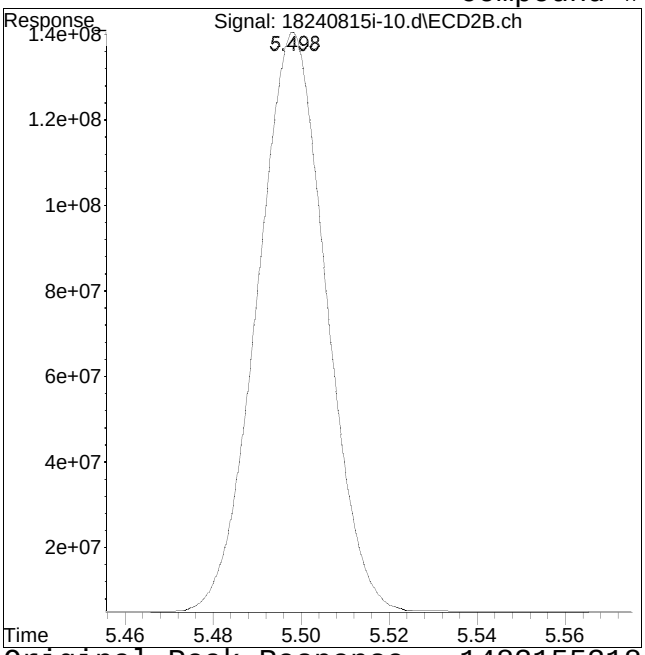


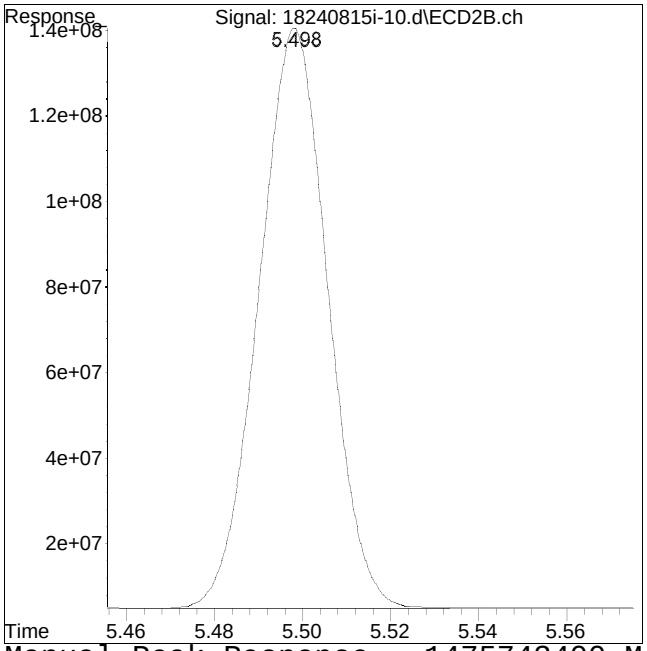
Original Peak Response = 2414400247 Manual Peak Response = 2392802880 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #56: Endrin #2



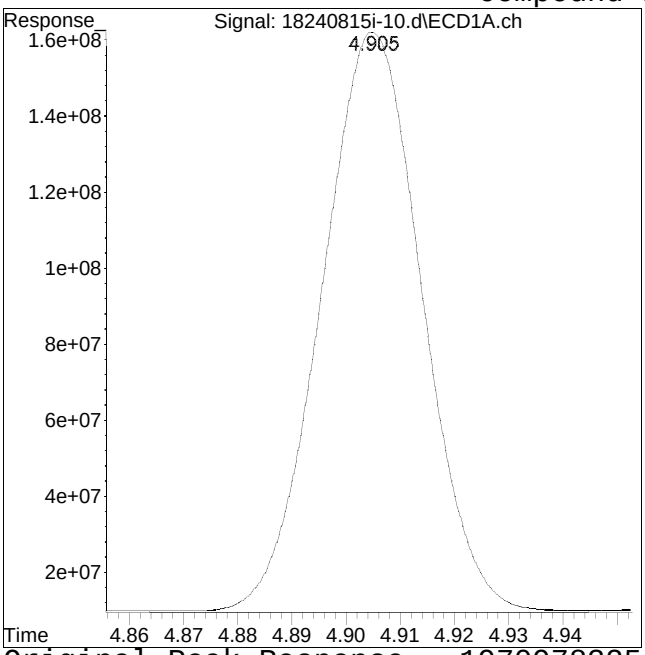


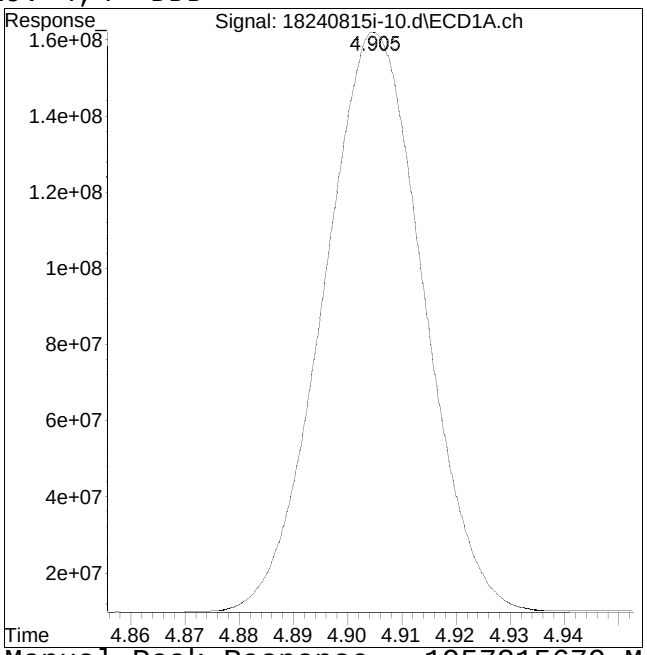
Original Peak Response = 1483155318 Manual Peak Response = 1475743400 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #19: 4,4'-DDD



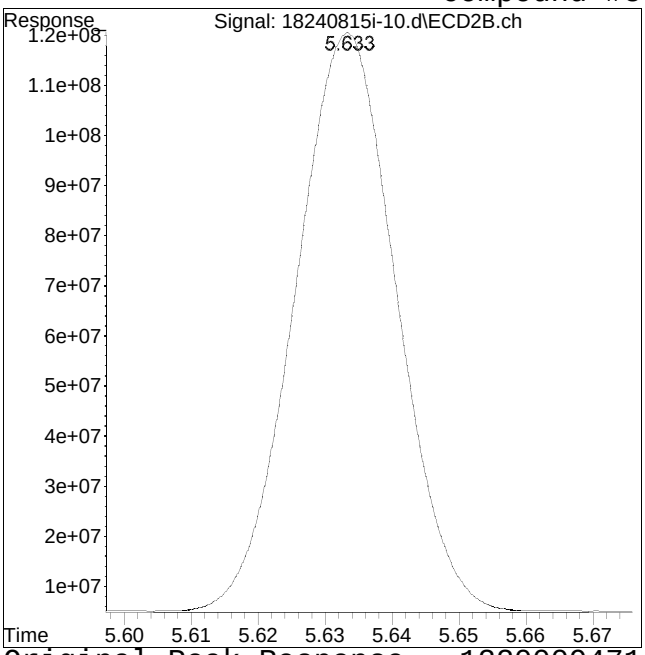


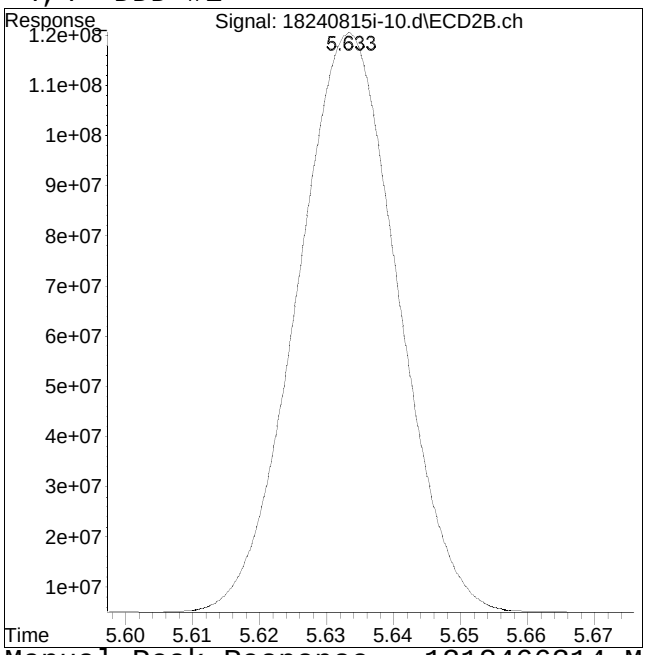
Original Peak Response = 1970978325 Manual Peak Response = 1957215679 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #57: 4,4'-DDD #2



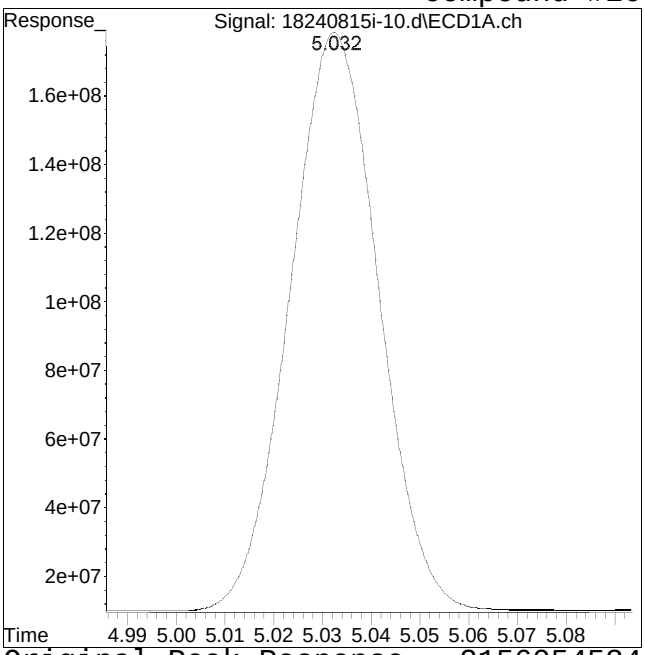


Original Peak Response = 1220009471 Manual Peak Response = 1212466314 M4
M4 = Poor automated baseline construction.

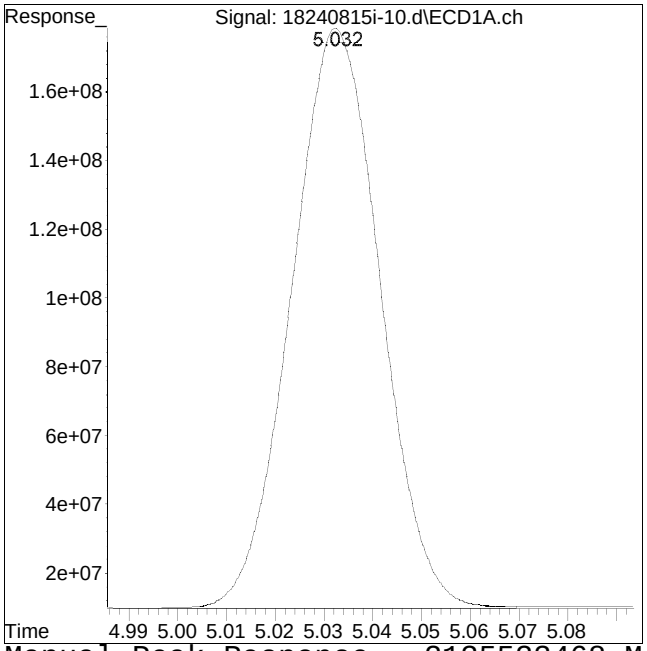
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #20: Endosulfan II



Original Peak Response = 2156054534



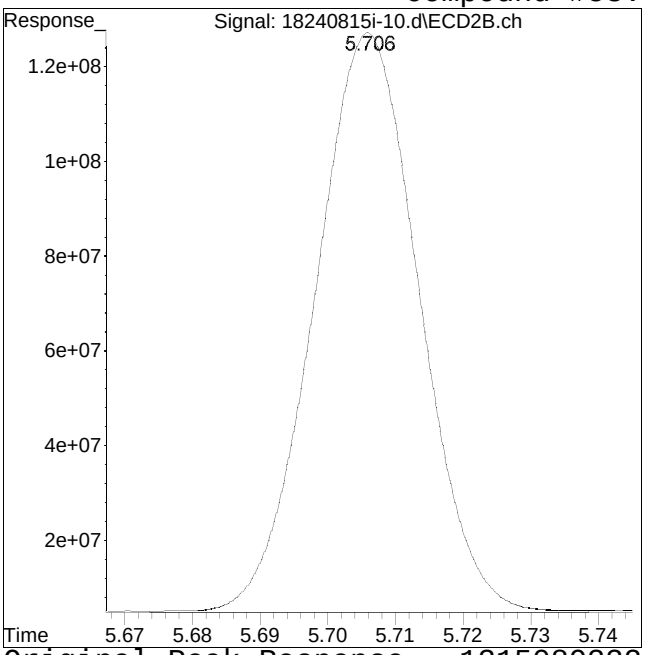
Manual Peak Response = 2135533468 M4

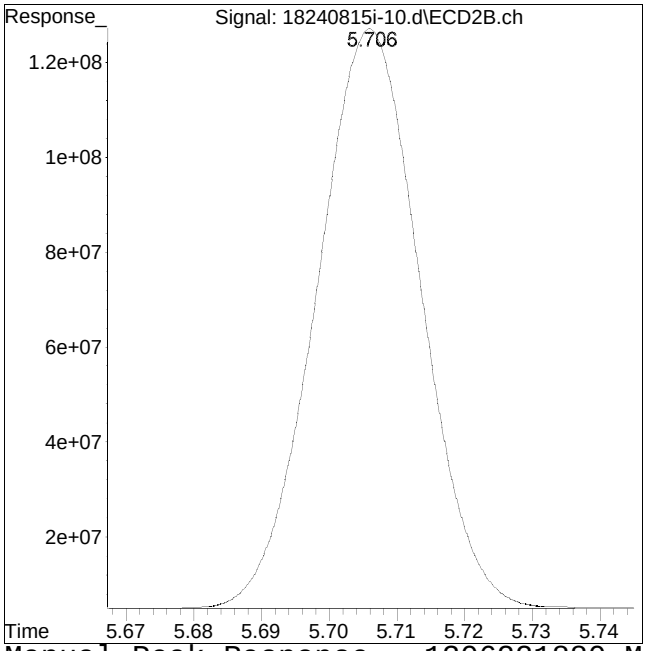
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #58: Endosulfan II #2



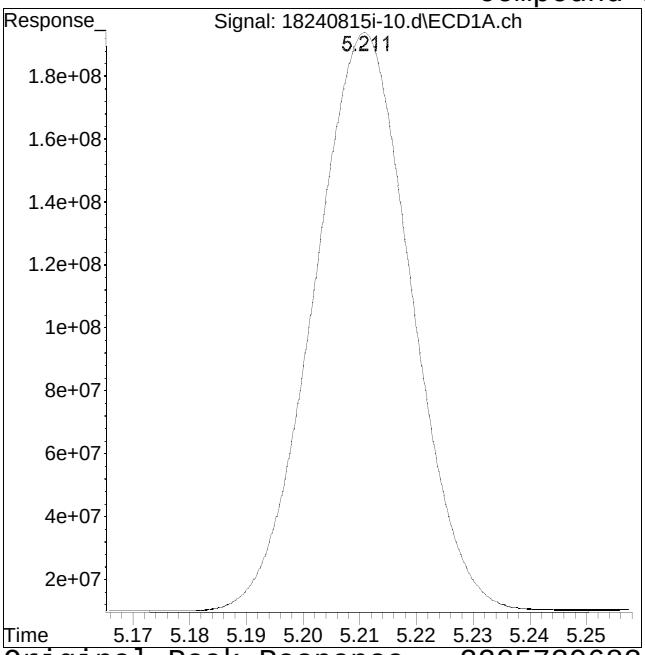


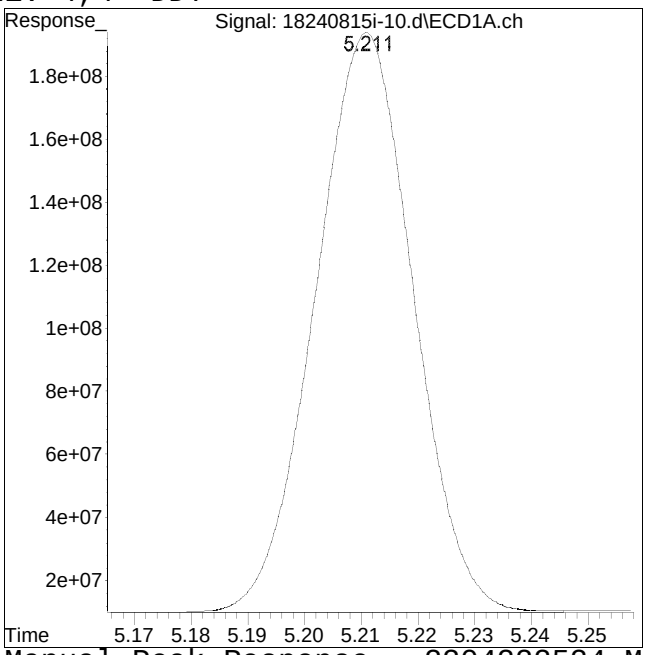
Original Peak Response = 1315089332 Manual Peak Response = 1306221880 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #21: 4,4'-DDT



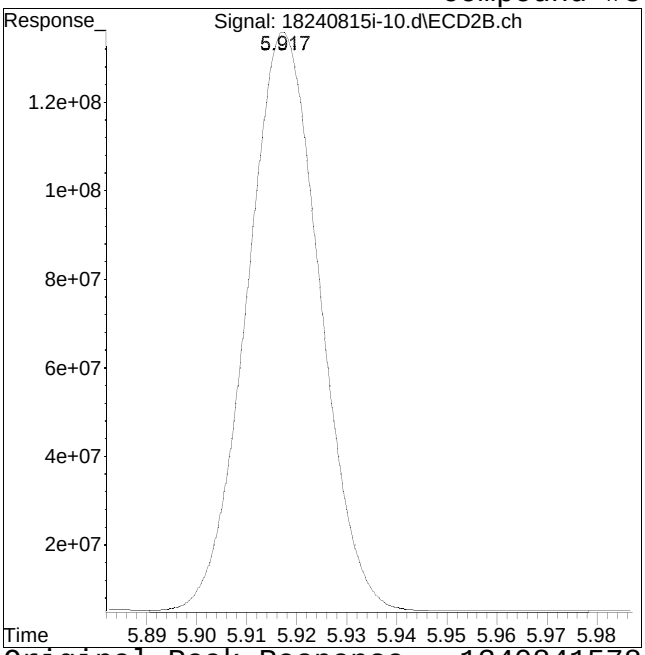


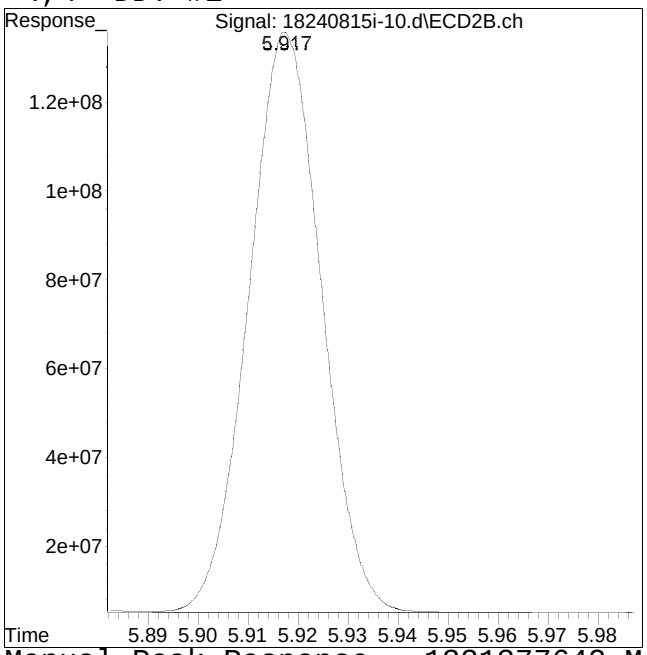
Original Peak Response = 2225739683 Manual Peak Response = 2204222524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #59: 4,4'-DDT #2



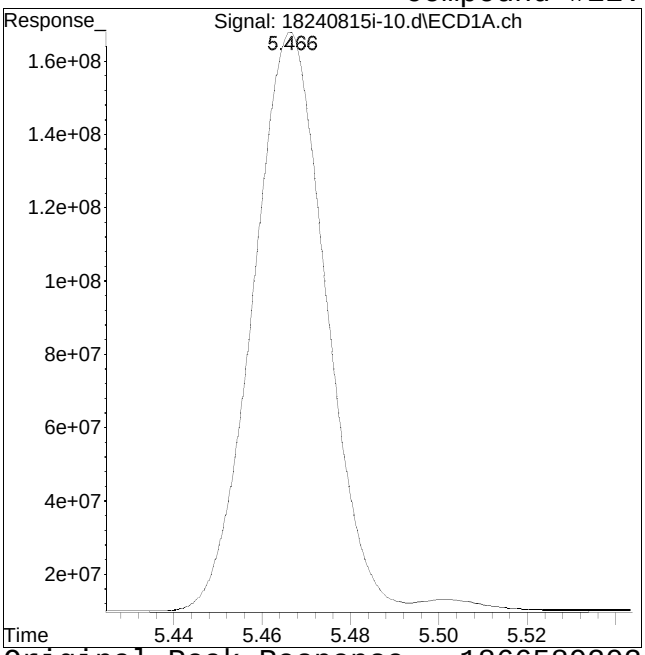


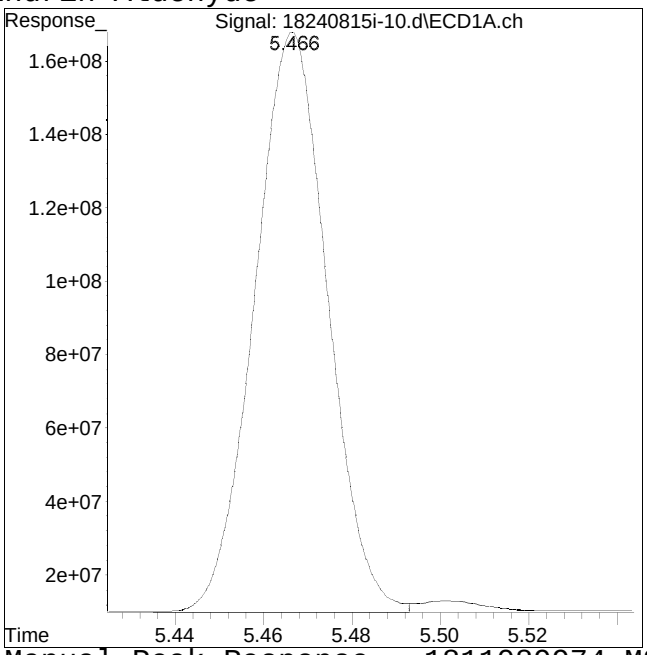
Original Peak Response = 1340841578 Manual Peak Response = 1321377642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #22: Endrin Aldehyde



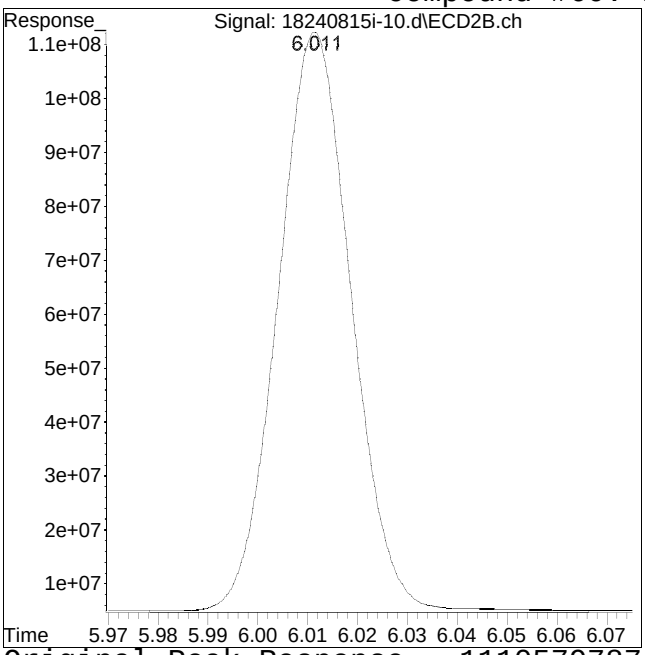


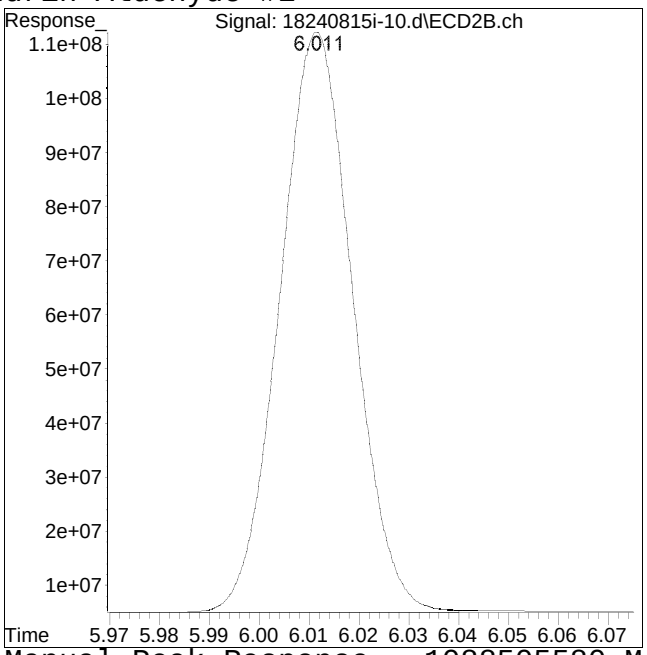
Original Peak Response = 1866589203 Manual Peak Response = 1811089974 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #60: Endrin Aldehyde #2



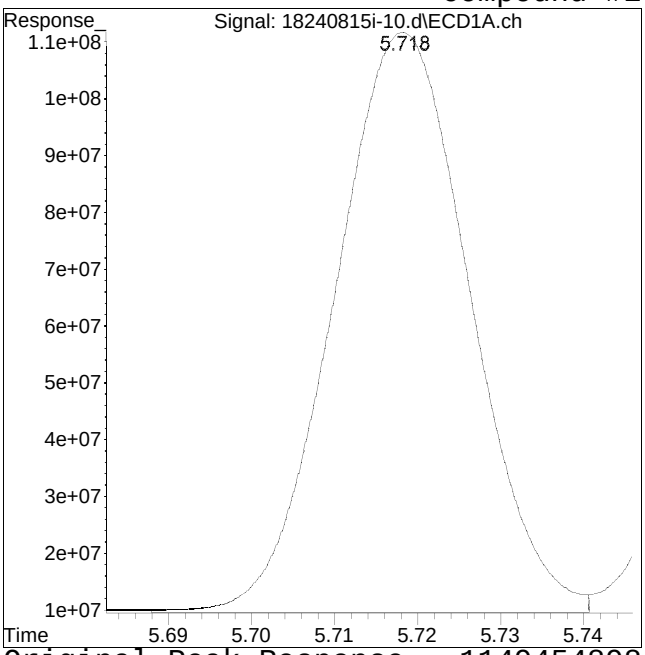


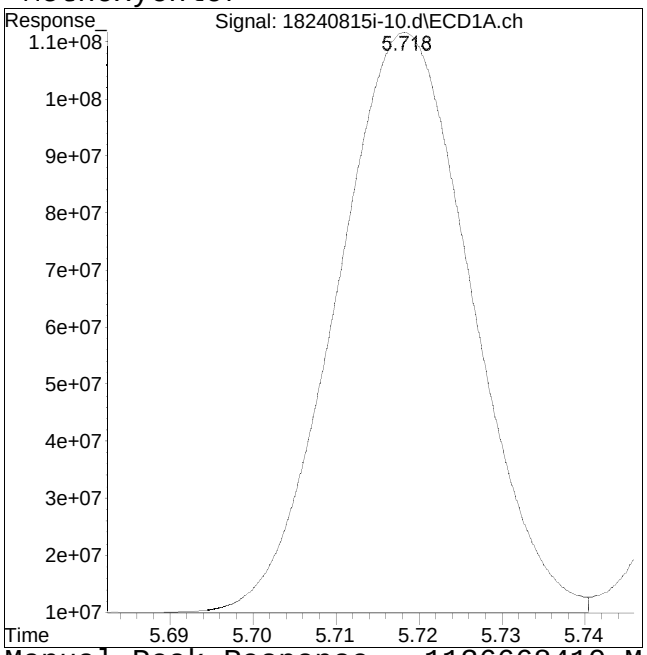
Original Peak Response = 1110579787 Manual Peak Response = 1088505580 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #23: Methoxychlor



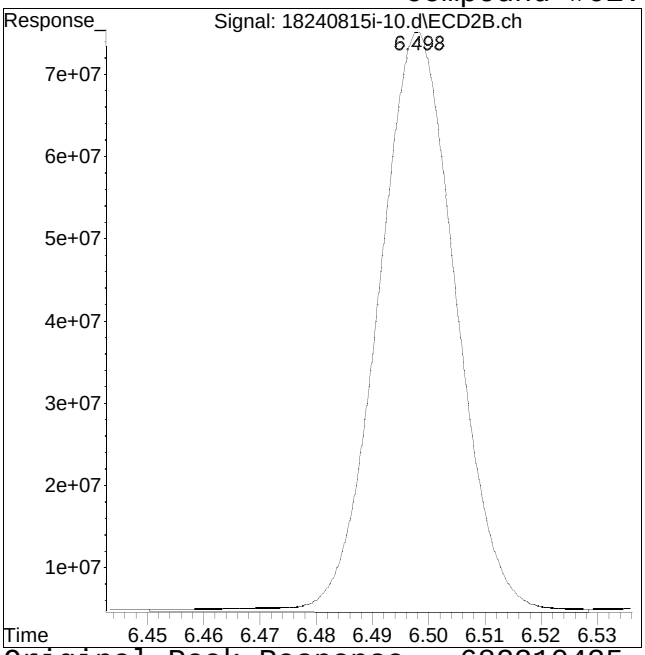


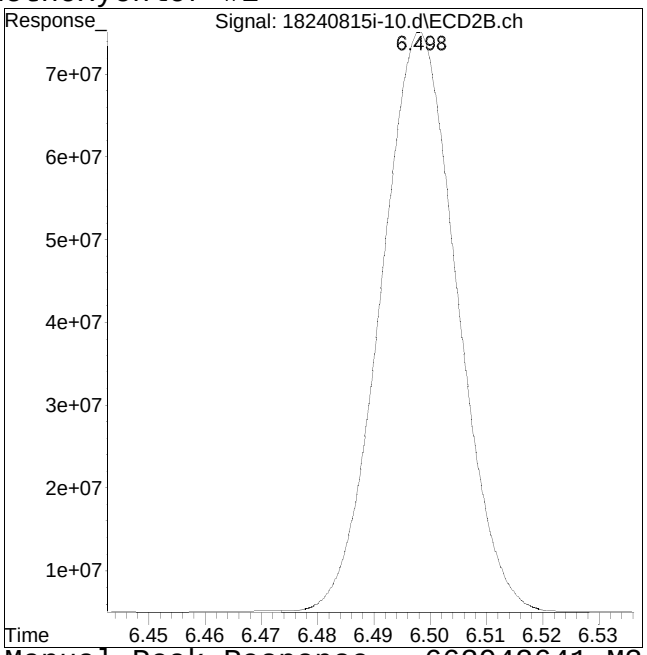
Original Peak Response = 1149454898 Manual Peak Response = 1136668410 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #61: Methoxychlor #2



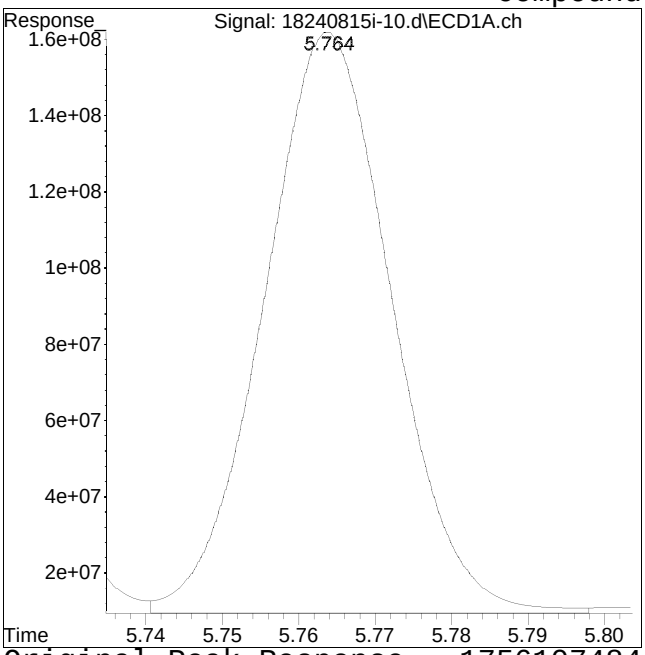


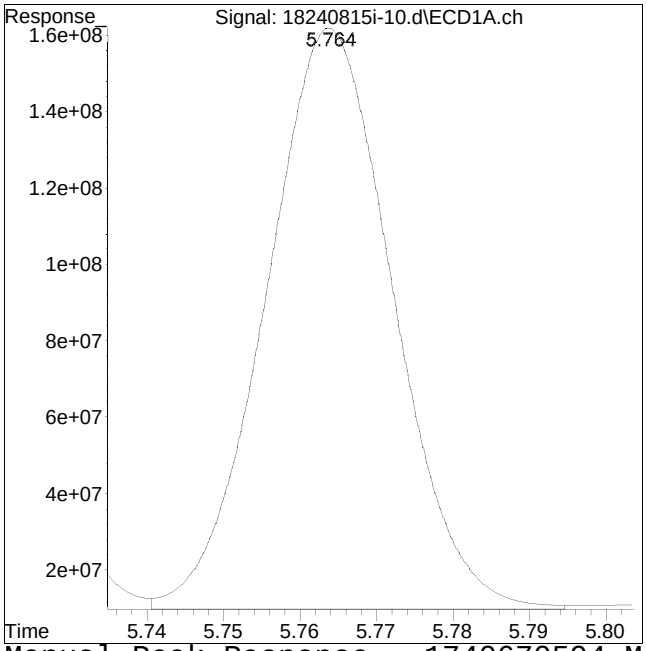
Original Peak Response = 682310435 Manual Peak Response = 662942641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #24: Mirex



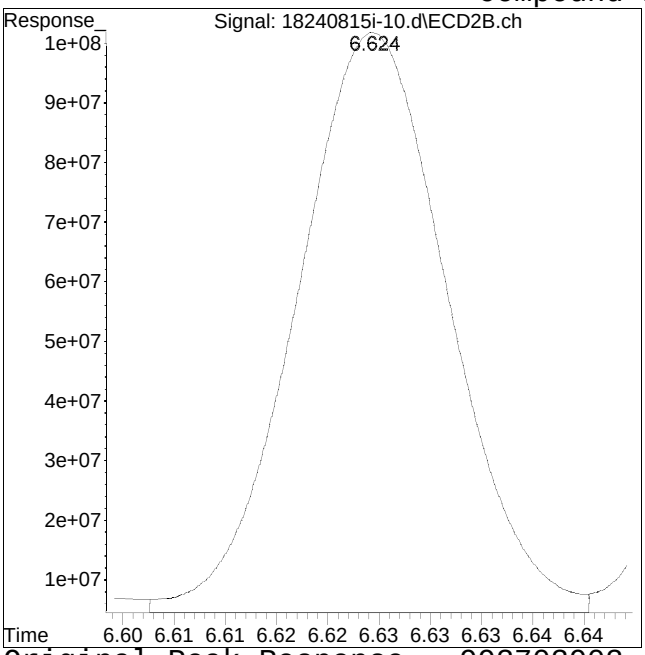


Original Peak Response = 1756107484 Manual Peak Response = 1740670594 M4
M4 = Poor automated baseline construction.

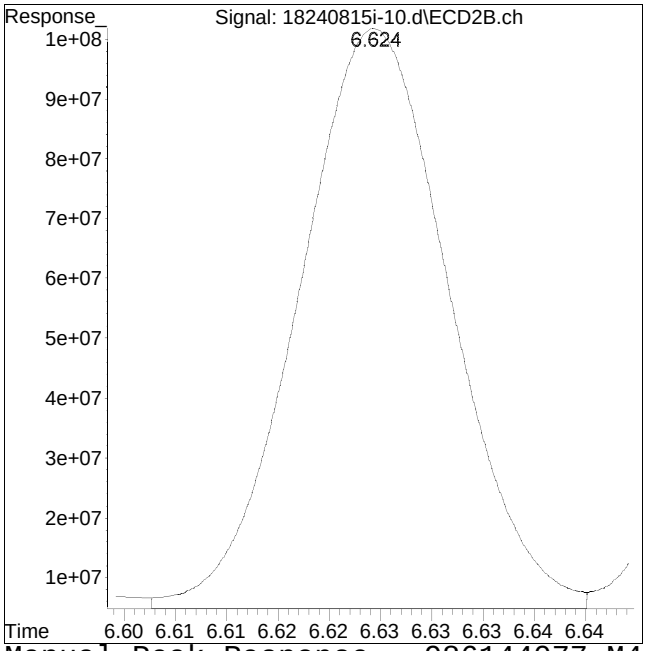
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #62: Mirex #2



Original Peak Response = 993703903



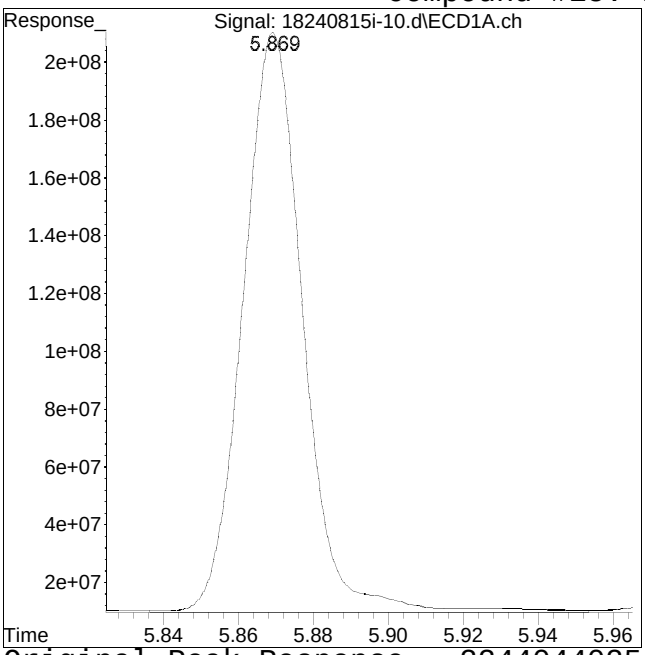
Manual Peak Response = 986144077 M4

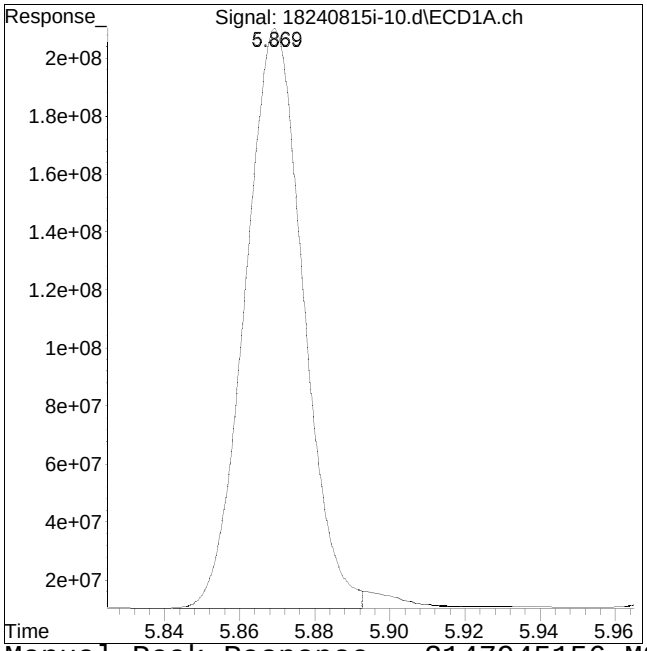
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #25: Endosulfan Sulfate





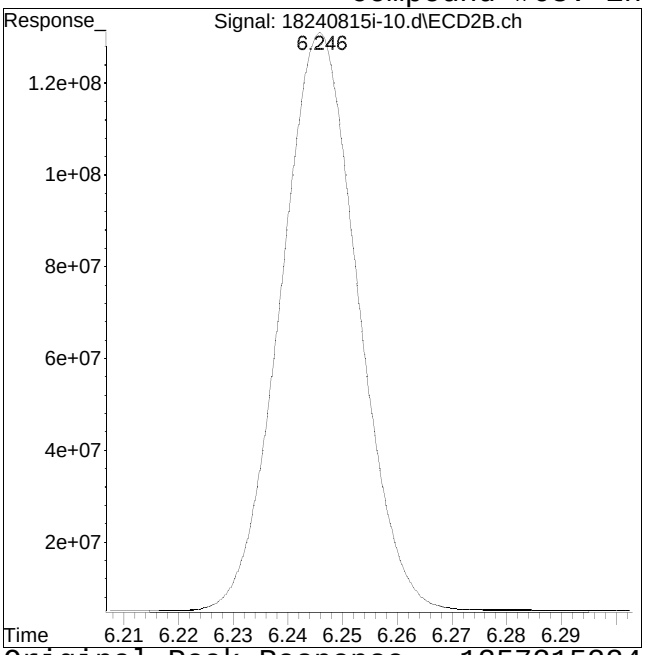
Original Peak Response = 2244044025 Manual Peak Response = 2147945156 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

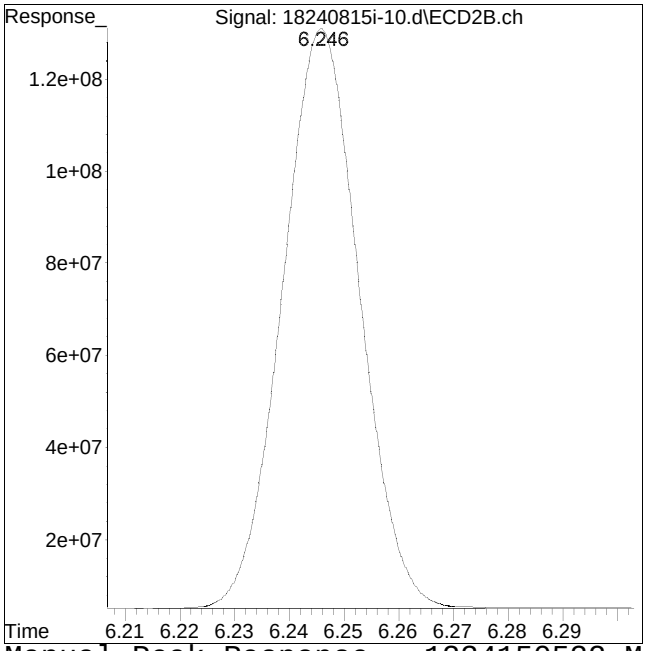
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-10.d
Date Inj'd : 8/15/2024 15:25
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:07 am

Compound #63: Endosulfan Sulfate #2



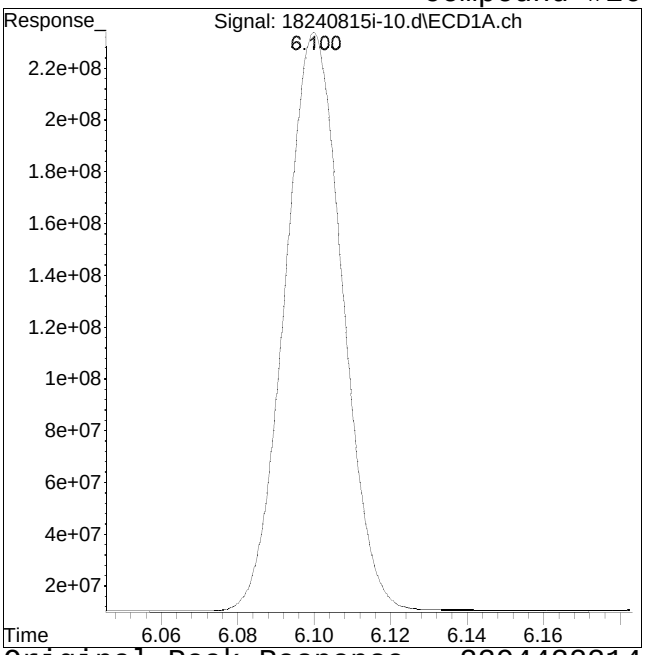


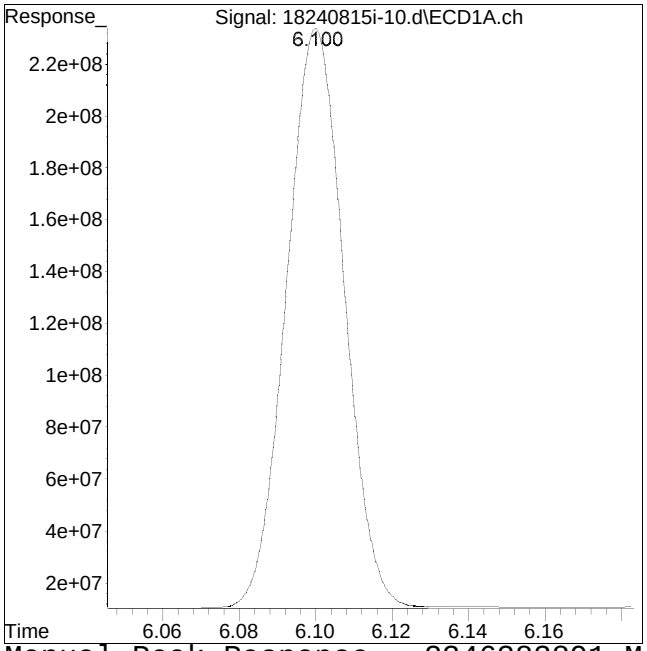
Original Peak Response = 1257215224 Manual Peak Response = 1234150532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #26: Endrin Ketone



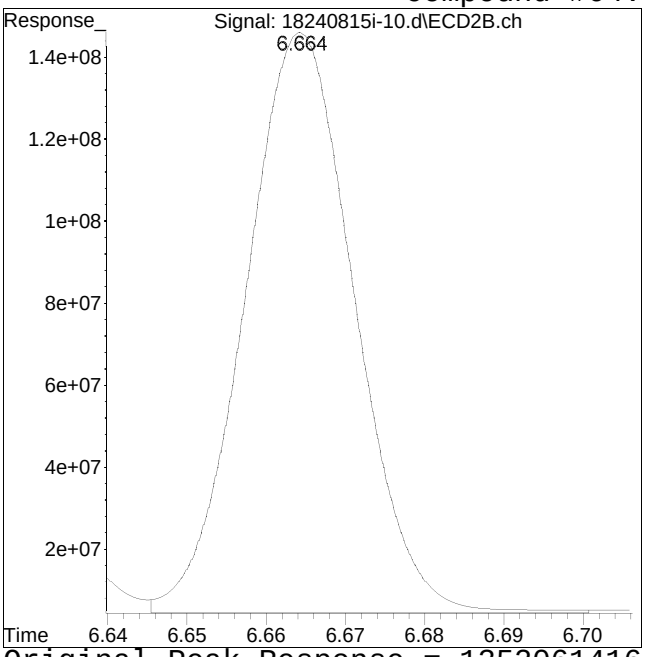


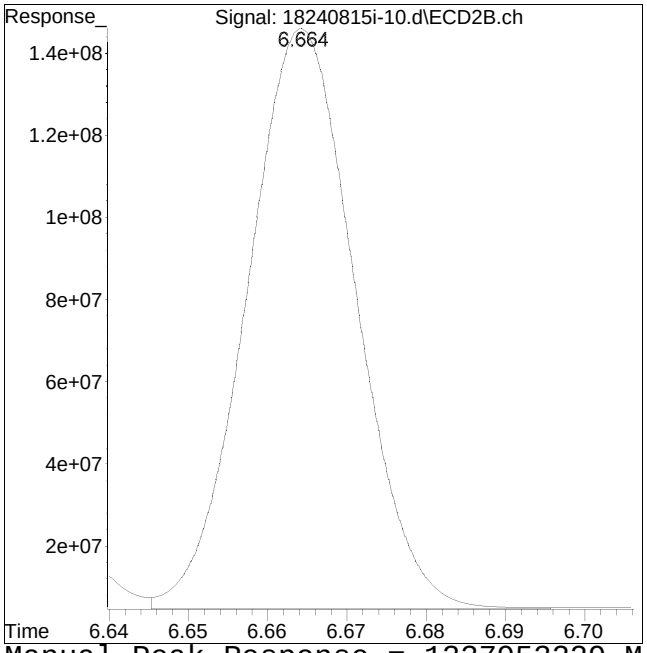
Original Peak Response = 2394422214 Manual Peak Response = 2346383891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #64: Endrin Ketone #2



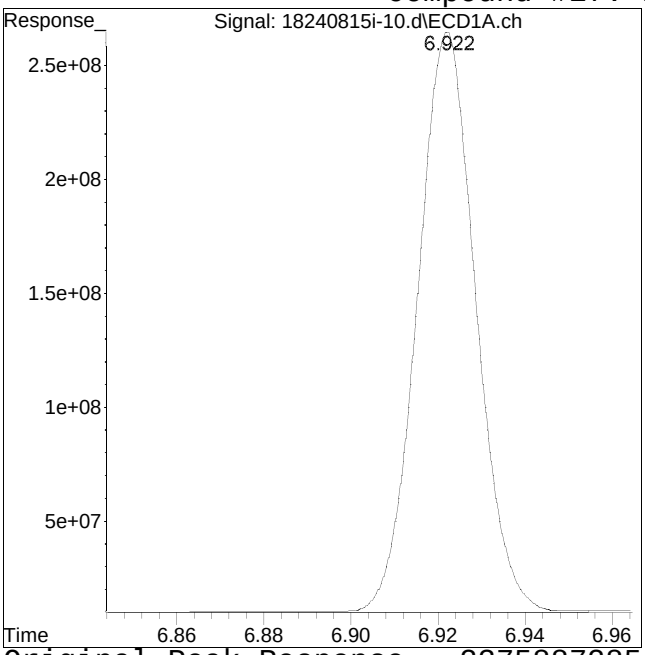


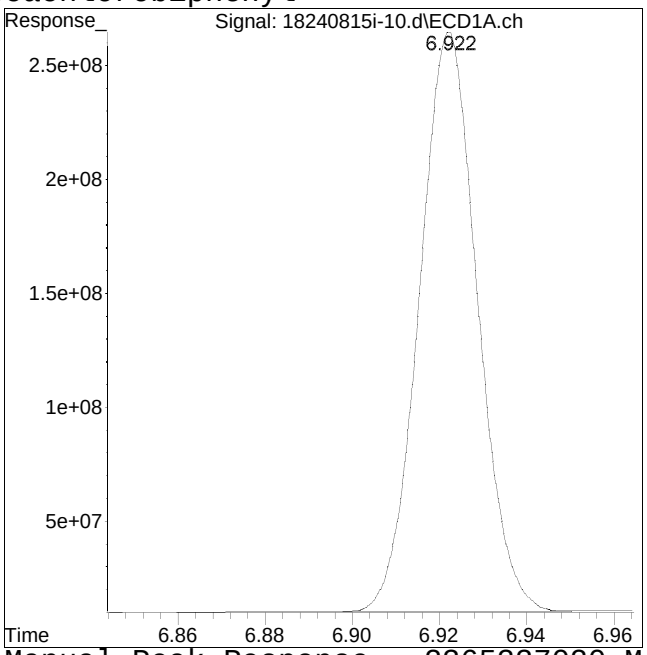
Original Peak Response = 1352061416 Manual Peak Response = 1337953229 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #27: Decachlorobiphenyl



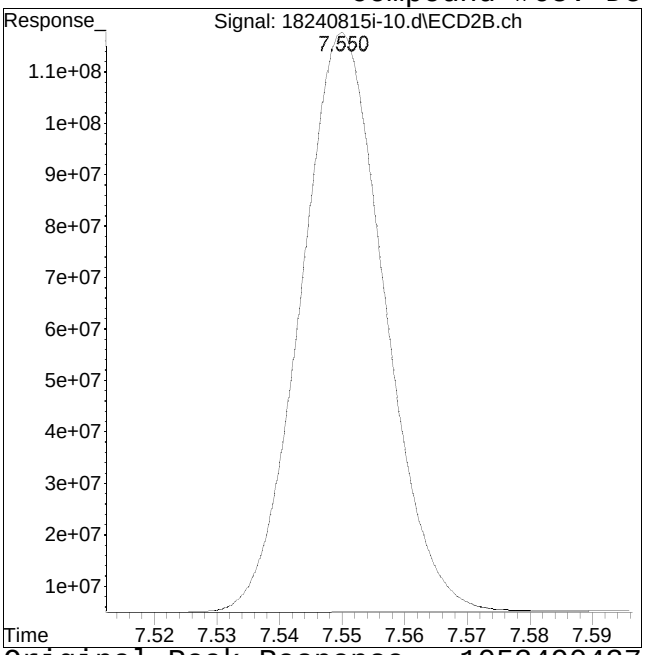


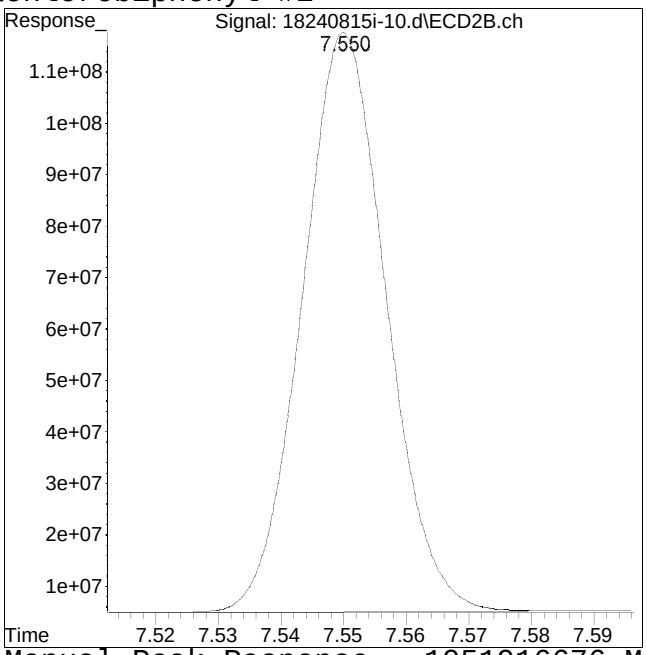
Original Peak Response = 2375887285 Manual Peak Response = 2365337020 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-10.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:25 Instrument : Pest 18
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/16/2024 6:07 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1053490437 Manual Peak Response = 1051916676 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:36
Operator : PEST18:peg
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:27:25 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:27:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.683	1.784	533.7E6	327.5E6	25.000M3	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.117	2.340	4630.9E6	2912.9E6	193.165M4	197.285M3
		Spiked Amount 50.000	Range 30 - 150		Recovery =		386.33%#	394.57%#
27)	s	Decachlorobi	6.922	7.551	4621.1E6	2043.8E6	190.164M4	188.217M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		380.33%#	376.43%#
		Target Compounds						
3)		Hexachlorobe	2.358	2.684	5339.1E6	2951.6E6	193.452M3	196.797M4
4)		alpha-BHC	2.470	2.787	6281.3E6	4243.9E6	196.270M4	201.891M4
5)		gamma-BHC (l	2.688	3.083	5584.5E6	3757.7E6	195.426M3	200.675M4
6)		beta-BHC	2.752	3.156	2388.9E6	1583.1E6	193.561M4	195.617M4
7)		delta-BHC	2.885	3.426	5711.4E6	3818.4E6	195.988M4	200.740
8)		Heptachlor	3.054	3.484	4922.8E6	3229.0E6	188.672M4	194.704M4
9)		Aldrin	3.304	3.804	5029.1E6	3337.9E6	191.157M4	196.061M4
10)		Alachlor	3.441	3.700	617.8E6	400.7E6	176.638M4	180.317M4
11)		Chlorpyrifos	3.536	4.055	1985.6E6	1296.9E6	180.202M3	180.909M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:36
Operator : PEST18:peg
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:27:25 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:27:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.424	4360.4E6	2959.2E6	188.861M3	192.156M4
13)		gamma-Chlord	3.989	4.647	4328.1E6	2785.3E6	192.222M4	195.036M4
14)		alpha-Chlord	4.125	4.821	4810.2E6	3076.7E6	190.686M3	194.358M4
15)		4,4'-DDE	4.231	5.035	5006.9E6	3168.6E6	191.754M4	194.468M4
16)		Endosulfan I	4.260	4.883	4236.8E6	2809.6E6	187.914M4	191.999M4
17)		Dieldrin	4.523	5.190	4631.9E6	2991.0E6	190.074M4	193.965M4
18)		Endrin	4.780	5.498	4596.0E6	2916.1E6	188.941M4	192.821M4
19)		4,4'-DDD	4.904	5.634	3827.4E6	2420.6E6	191.505M4	194.275M4
20)		Endosulfan I	5.033	5.706	4048.7E6	2548.9E6	186.975M4	190.816M3
21)		4,4'-DDT	5.210	5.918	4278.0E6	2623.7E6	190.610M4	193.173M4
22)		Endrin Aldeh	5.466	6.012	3487.2E6	2151.8E6	189.628M3	192.766M4
23)		Methoxychlor	5.718	6.498	2077.5E6	1256.1E6	179.749M4	184.169M4
24)		Mirex	5.764	6.625	3328.0E6	1911.9E6	187.340M4	188.104M4
25)		Endosulfan S	5.869	6.246	4112.6E6	2436.1E6	188.896M3	191.942M4
26)		Endrin Keton	6.100	6.665	4355.5E6	2614.5E6	183.778M4	190.320M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:36
Operator : PEST18:peg
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:27:25 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:27:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

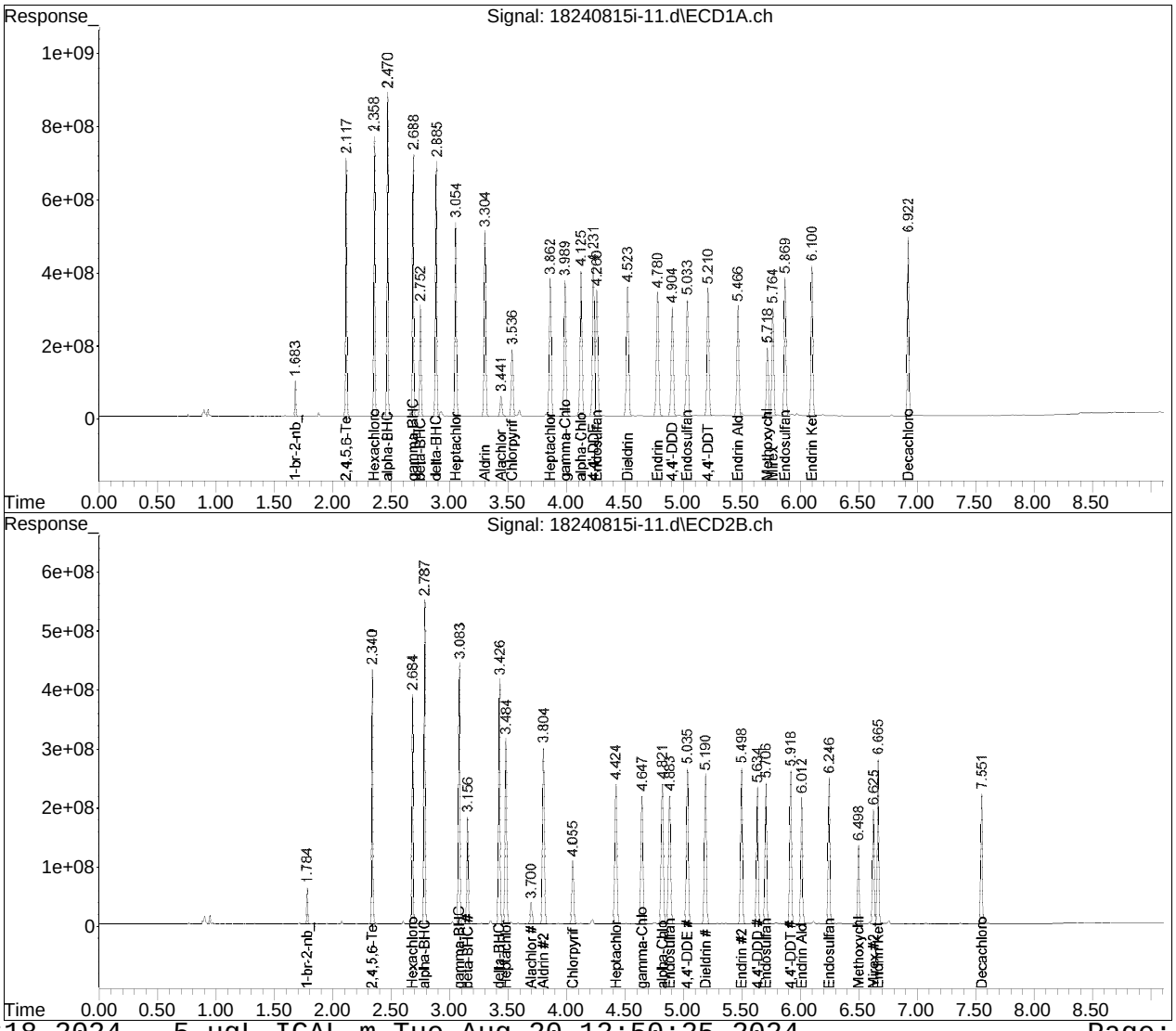
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:36
Operator : PEST18:peg
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:27:25 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:27:15 2024
Response via : Initial Calibration
Integrator: ChemStation

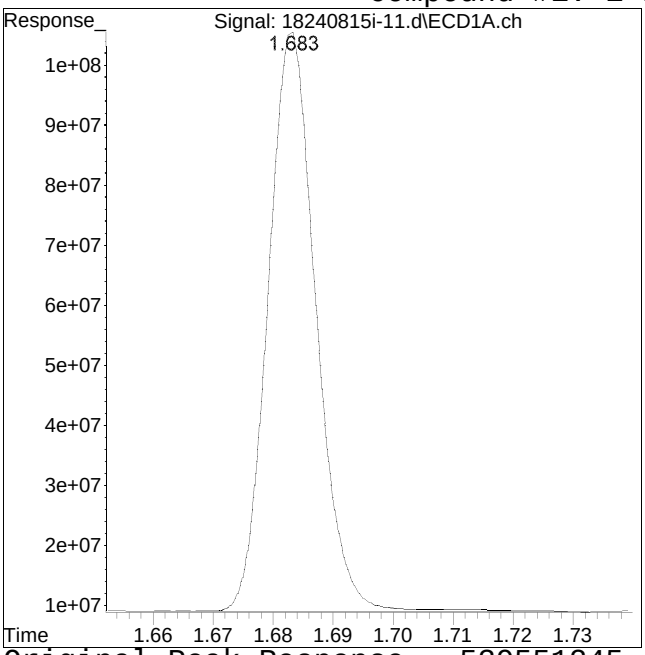
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

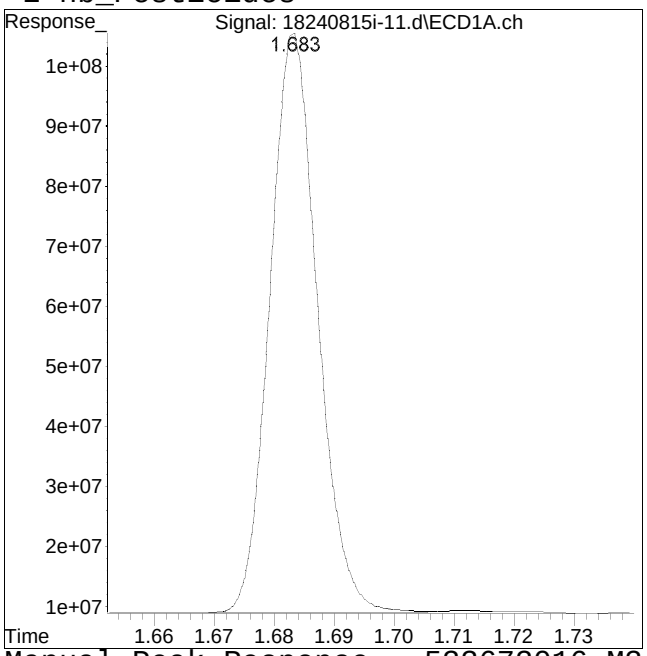


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #1: 1-br-2-nb_Pesticides



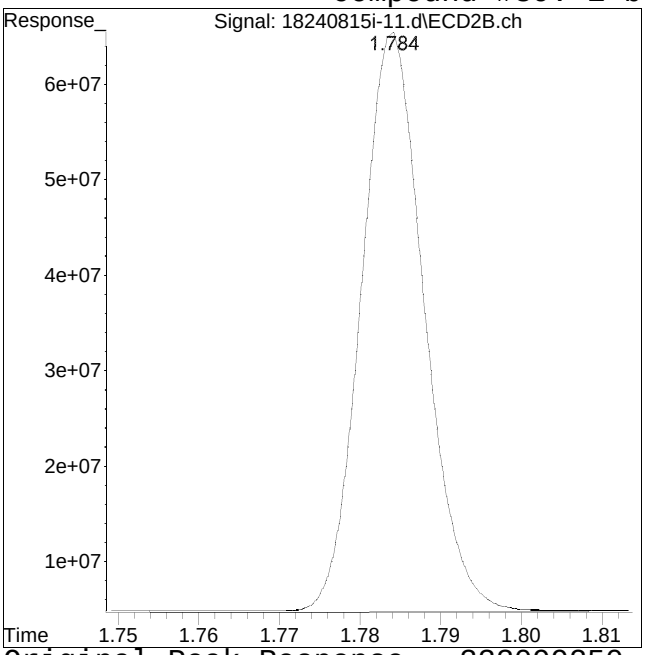


Original Peak Response = 539551245 Manual Peak Response = 533673016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

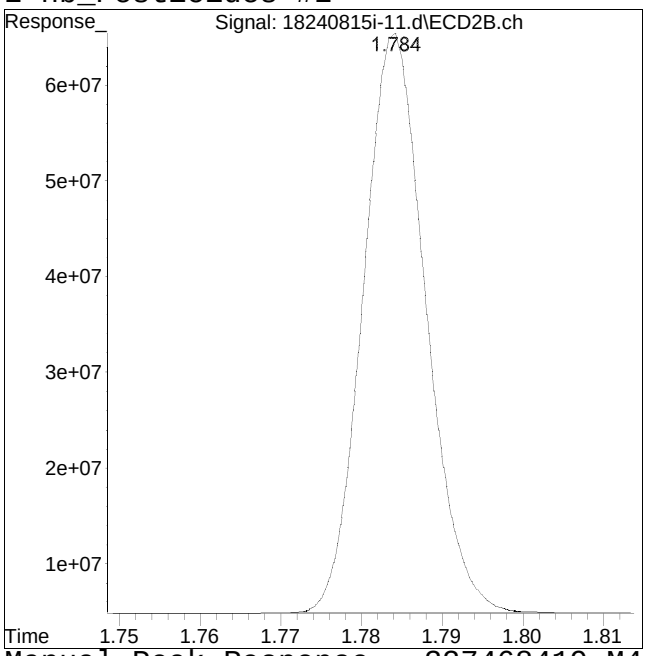
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-11.d
Date Inj'd : 8/15/2024 15:36
Sample : il10pest,42e,,pp 11679 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:27 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 333099250



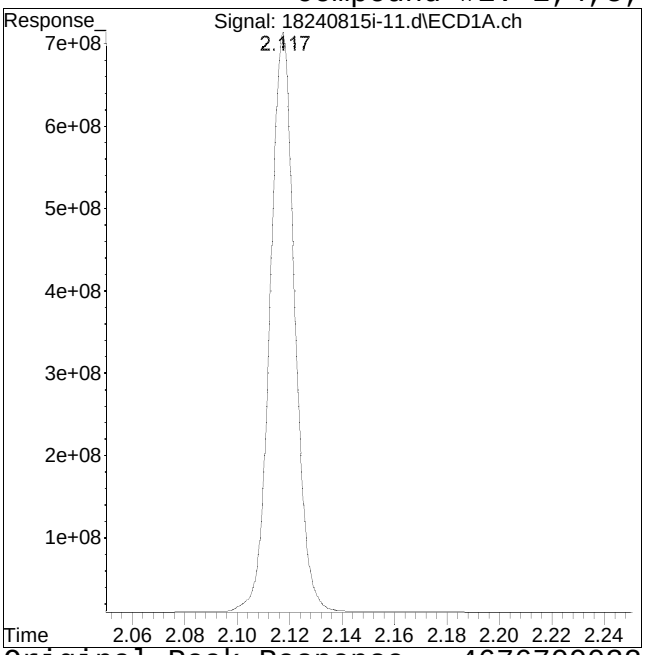
Manual Peak Response = 327468419 M4

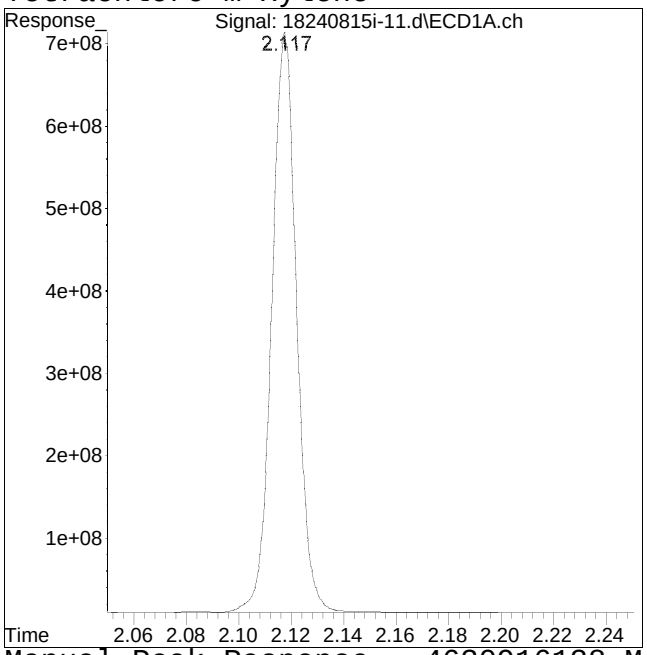
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



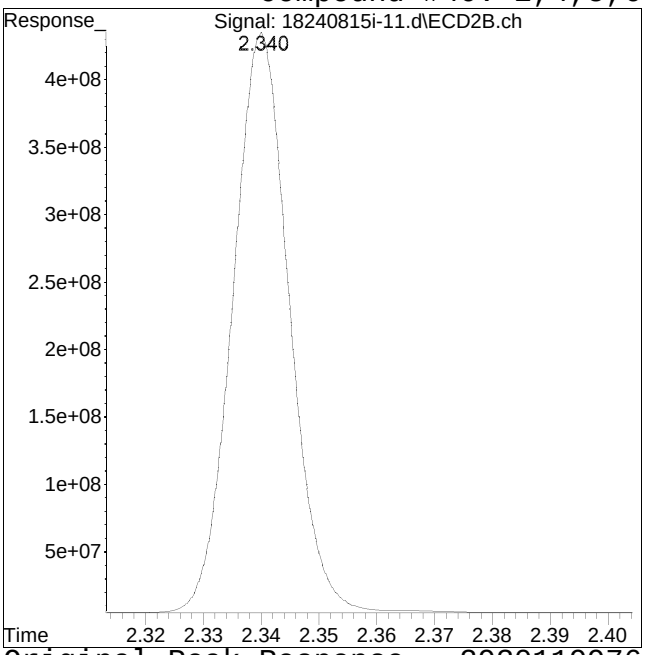


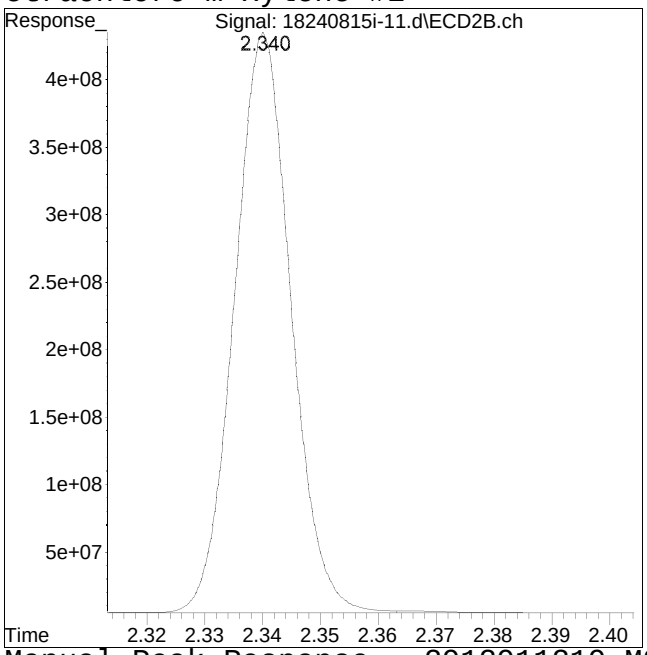
Original Peak Response = 4676709032 Manual Peak Response = 4630916138 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



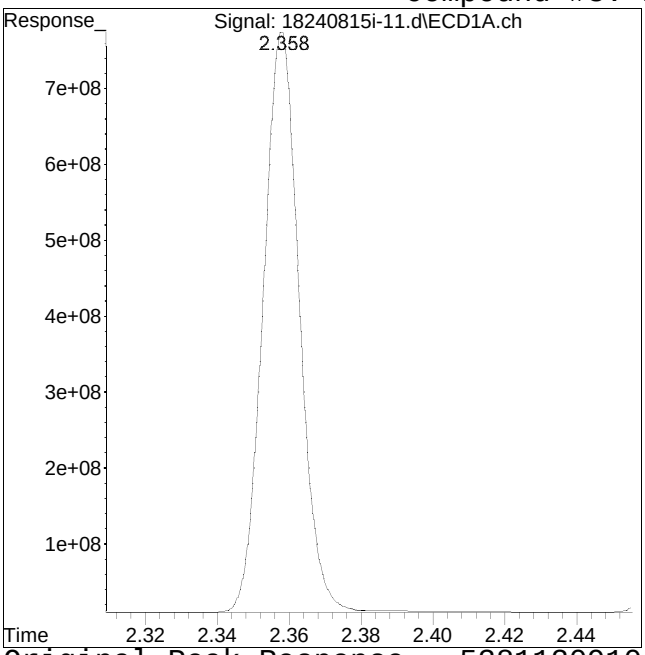


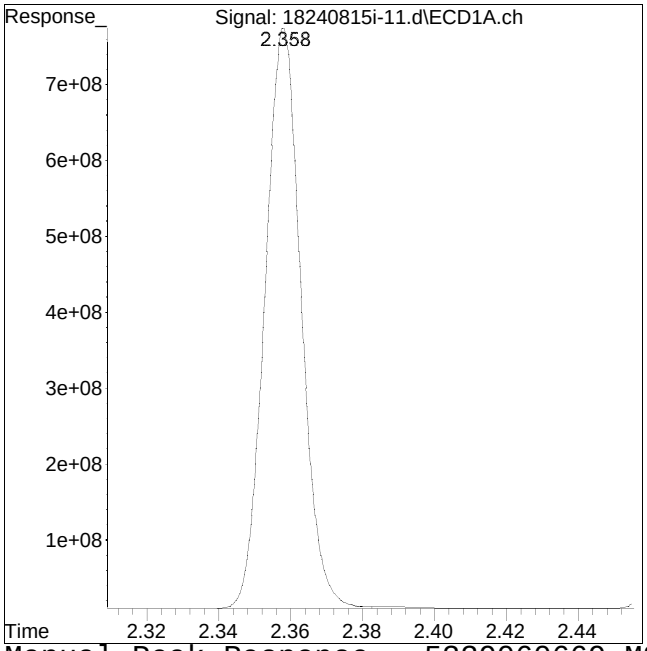
Original Peak Response = 2930119976 Manual Peak Response = 2912911219 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-11.d
Date Inj'd : 8/15/2024 15:36
Sample : il10pest,42e,,pp 11679 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:27 am

Compound #3: Hexachlorobenzene



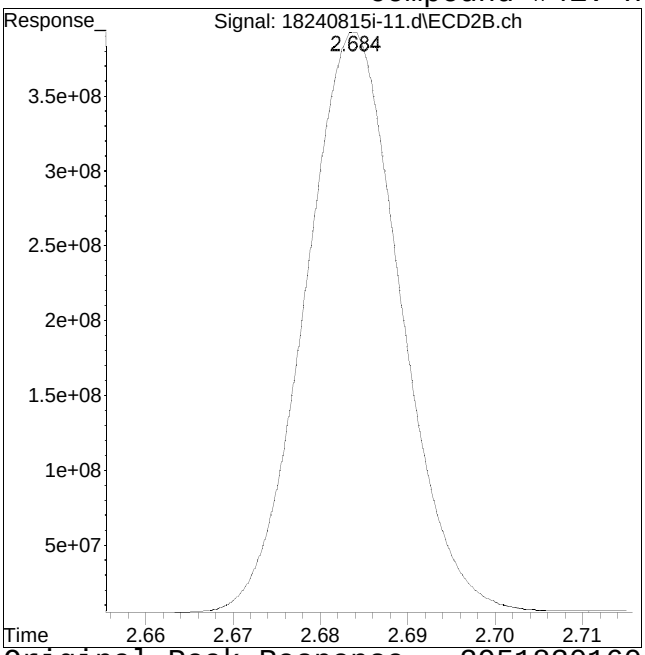


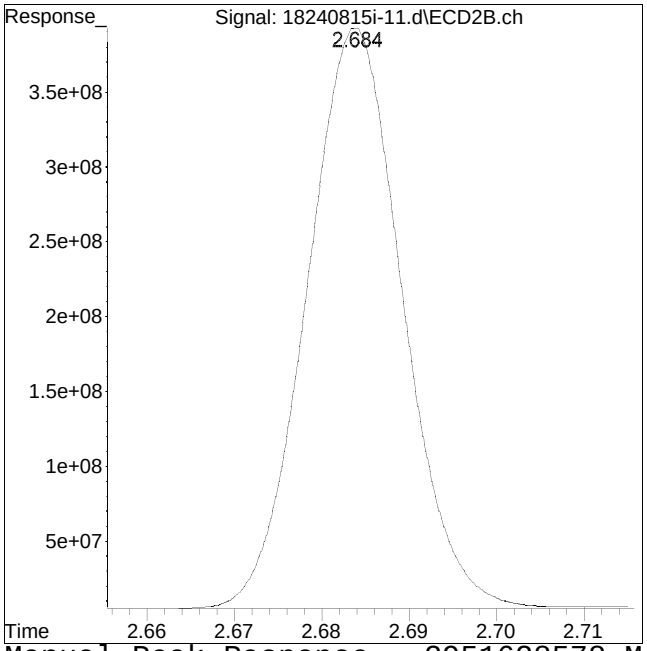
Original Peak Response = 5381120910 Manual Peak Response = 5339060669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #41: Hexachlorobenzene #2



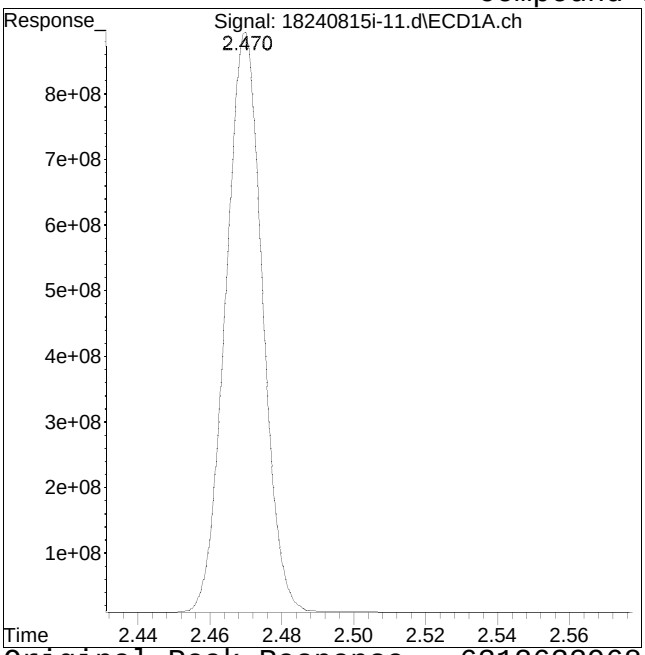


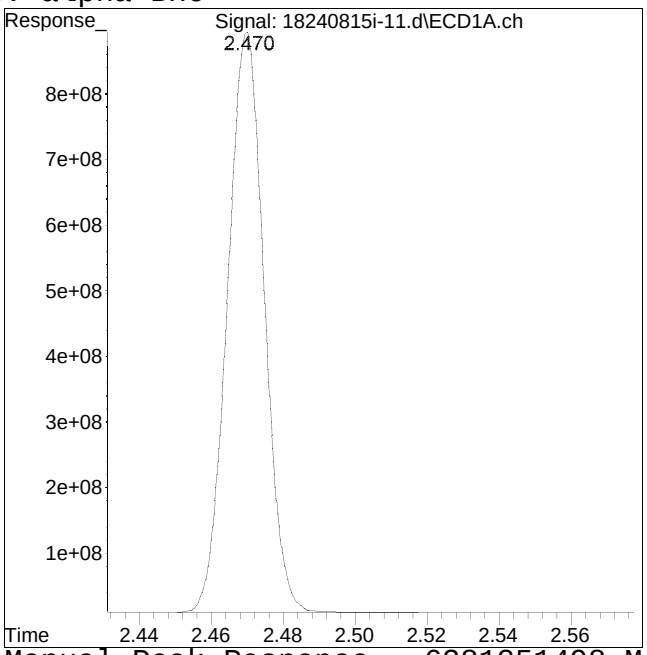
Original Peak Response = 2951830160 Manual Peak Response = 2951628578 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #4: alpha-BHC



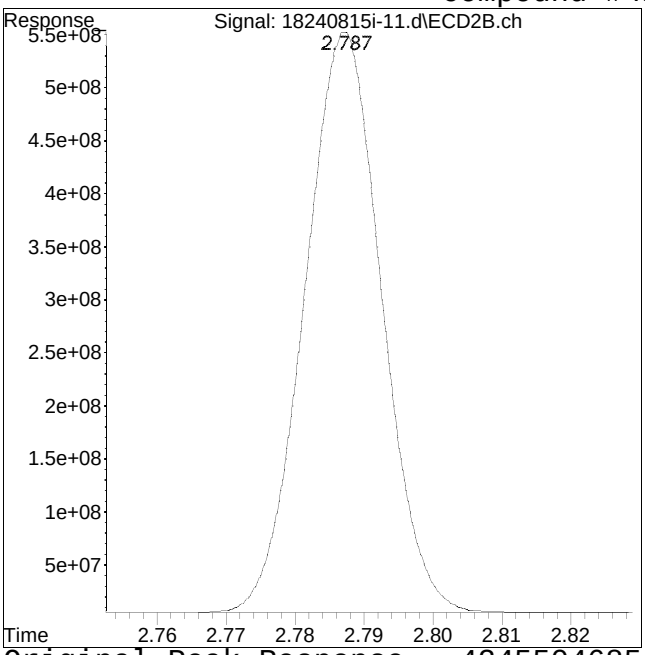


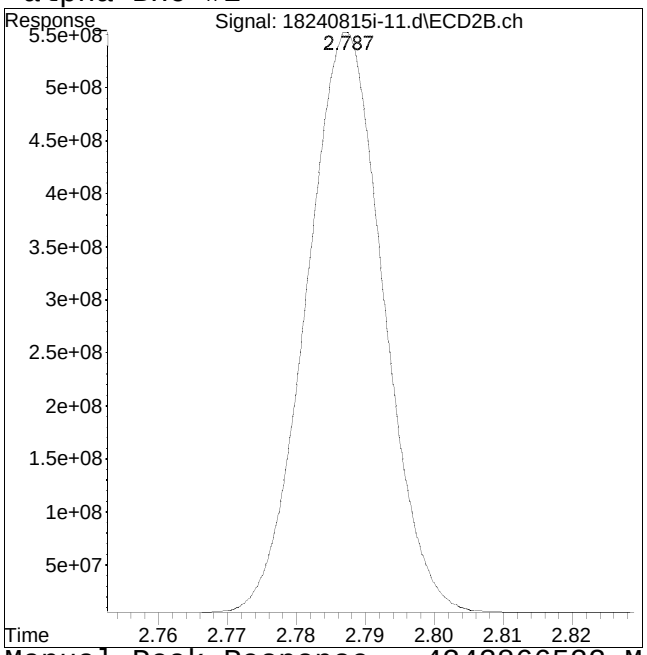
Original Peak Response = 6312633968 Manual Peak Response = 6281251498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #42: alpha-BHC #2



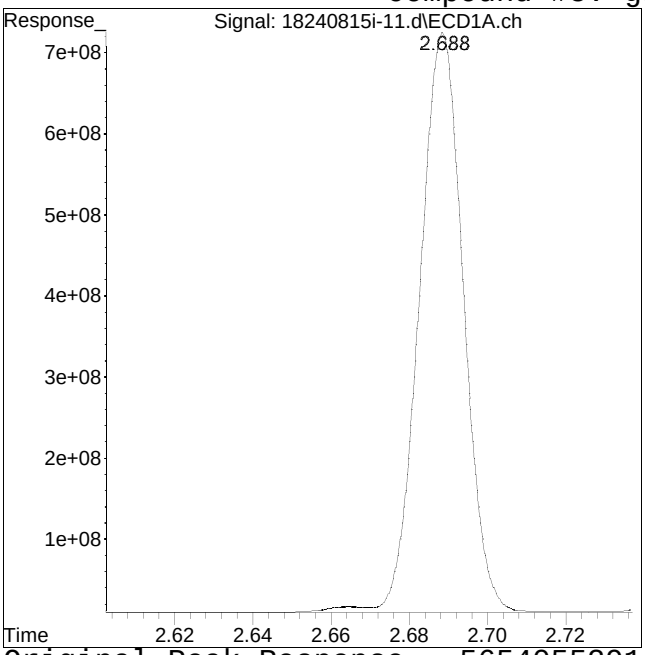


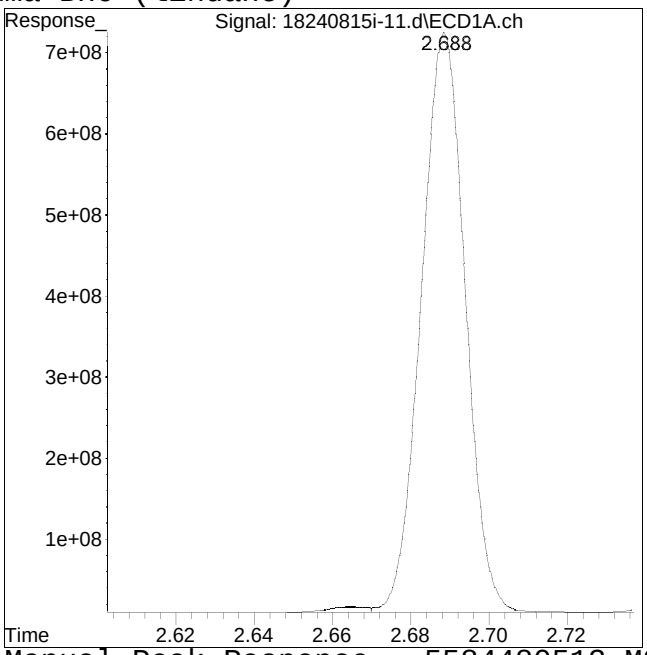
Original Peak Response = 4245504685 Manual Peak Response = 4243866522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #5: gamma-BHC (lindane)



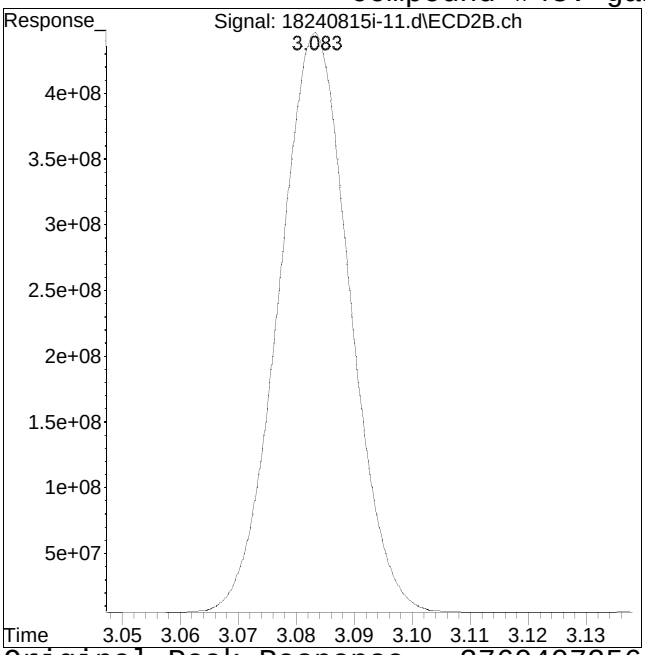


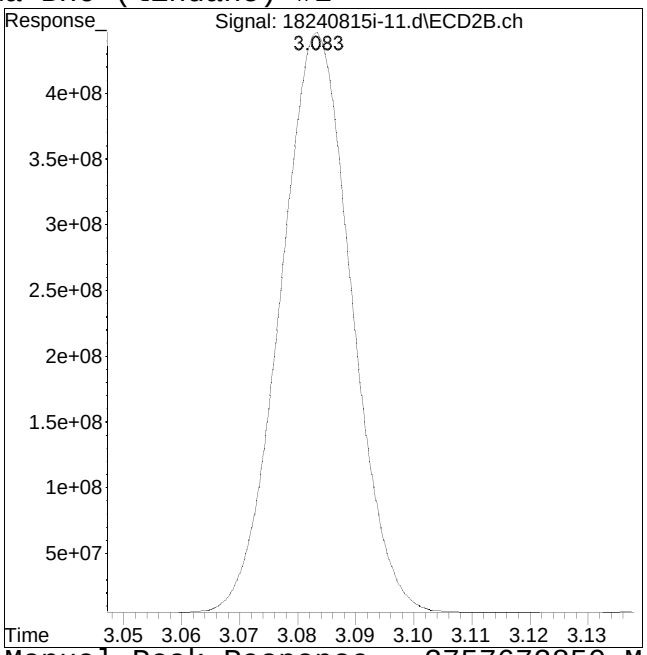
Original Peak Response = 5654055291 Manual Peak Response = 5584480513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #43: gamma-BHC (lindane) #2



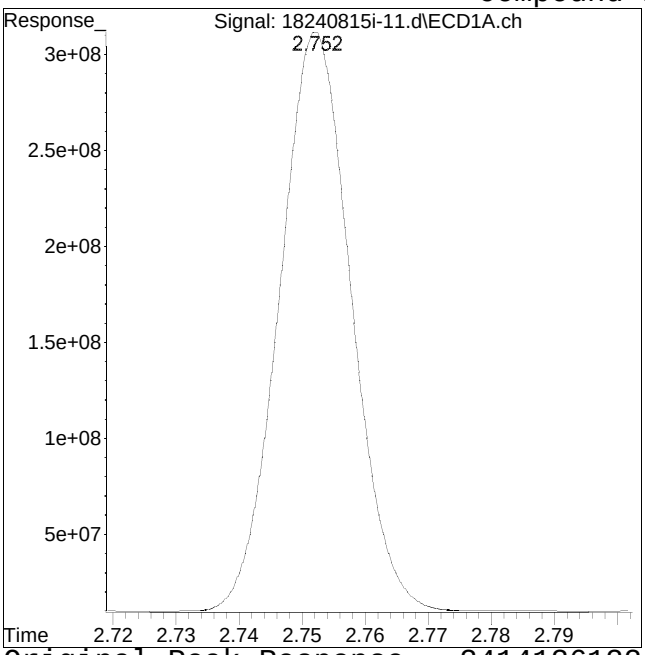


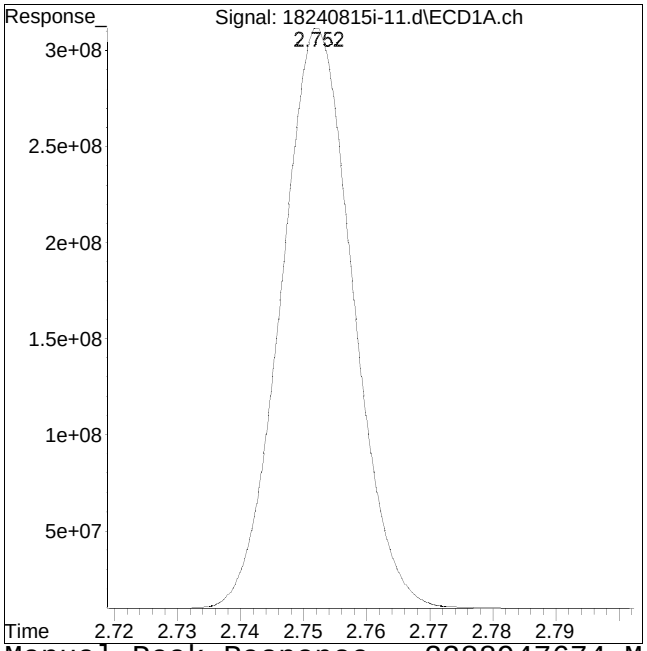
Original Peak Response = 3760407256 Manual Peak Response = 3757673850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #6: beta-BHC



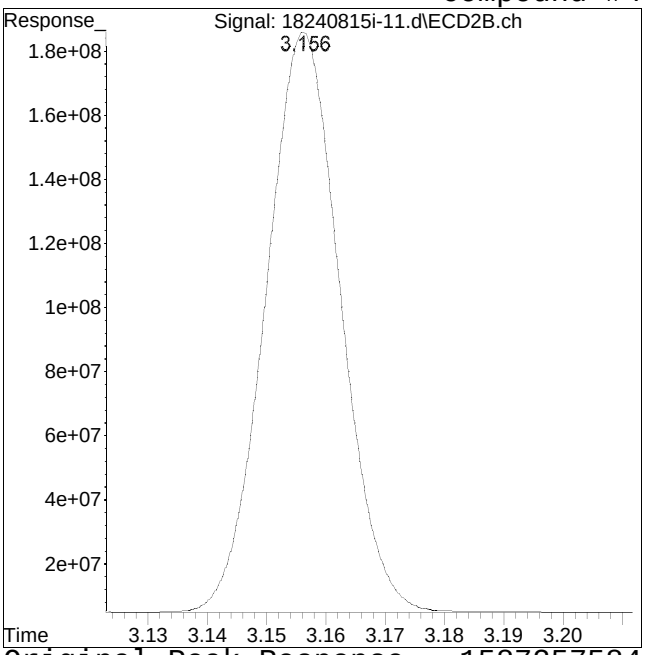


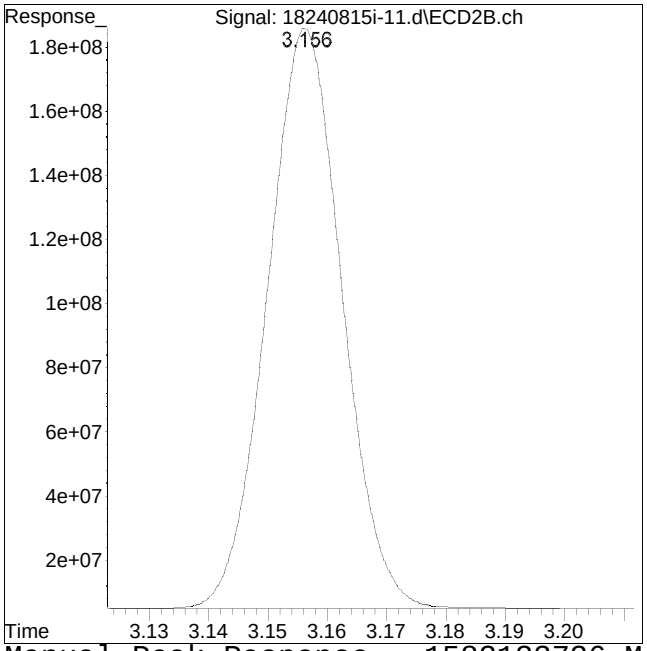
Original Peak Response = 2414126122 Manual Peak Response = 2388947674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #44: beta-BHC #2



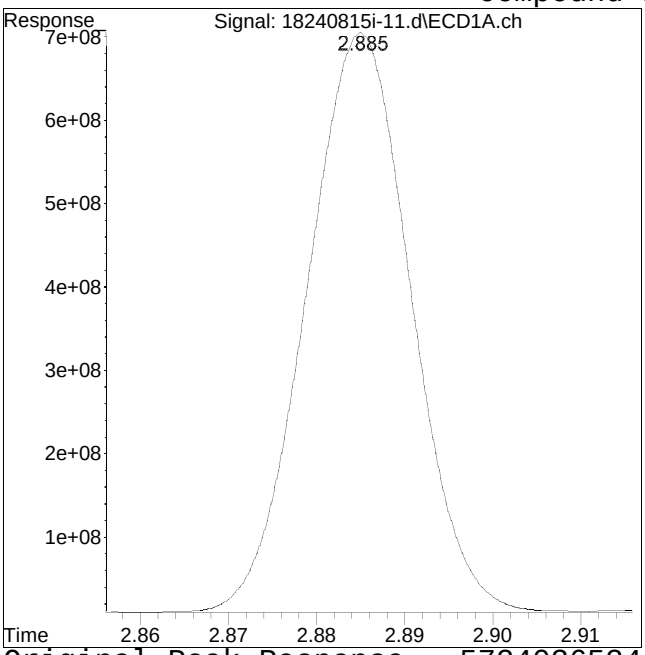


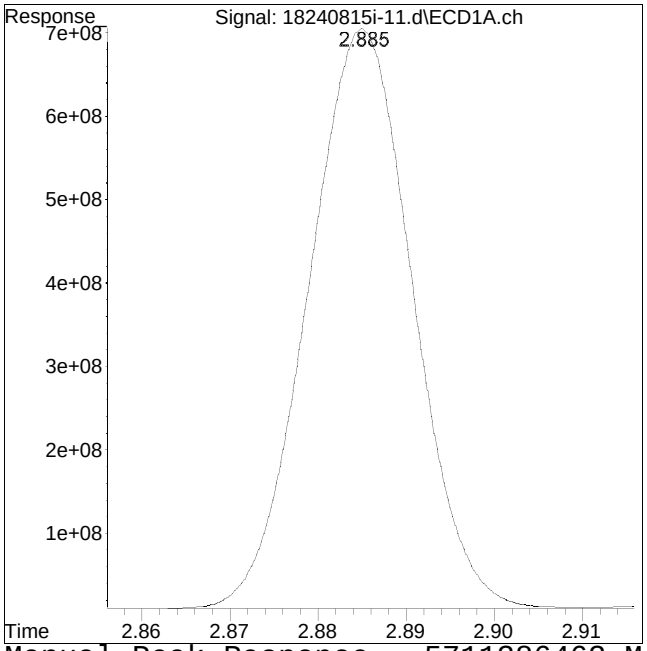
Original Peak Response = 1587257584 Manual Peak Response = 1583133736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #7: delta-BHC



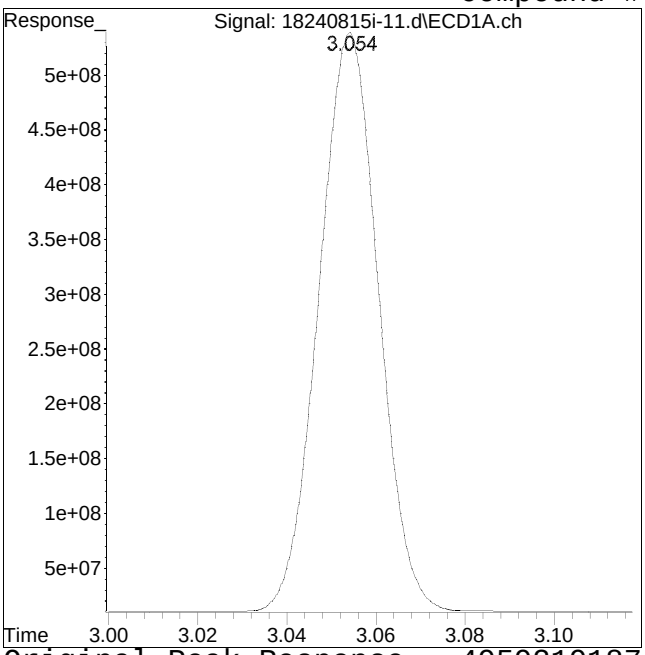


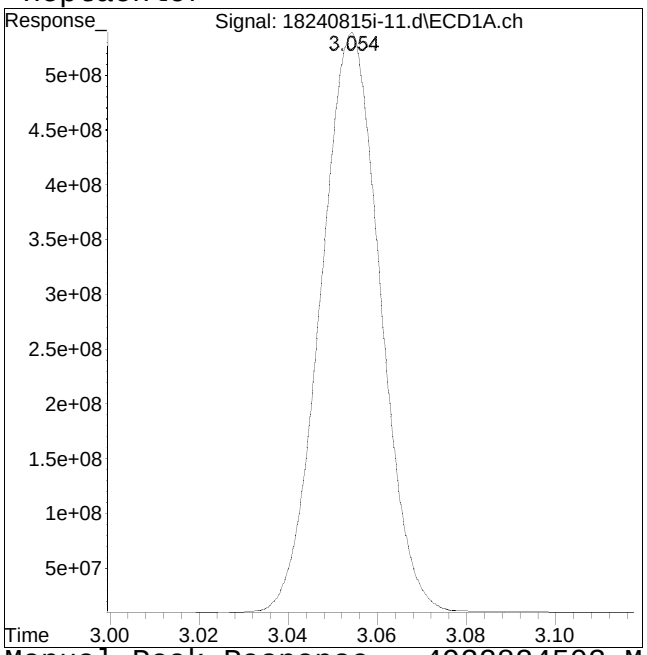
Original Peak Response = 5724036534 Manual Peak Response = 5711386463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #8: Heptachlor



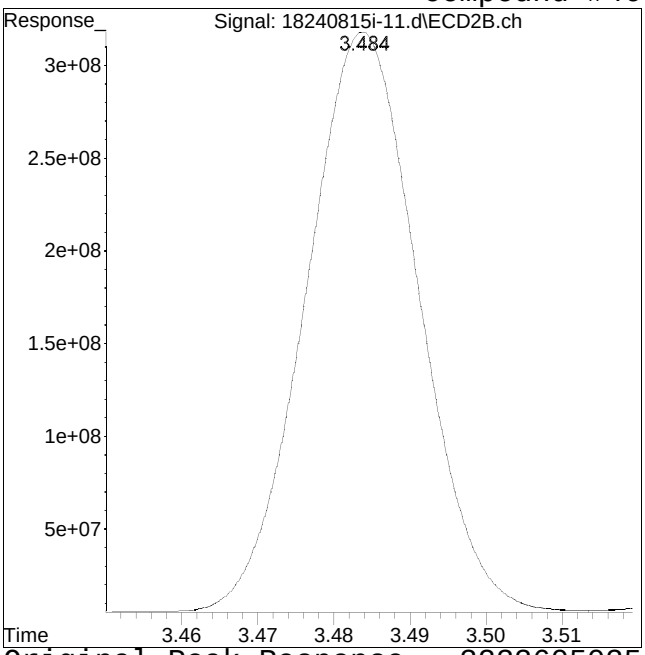


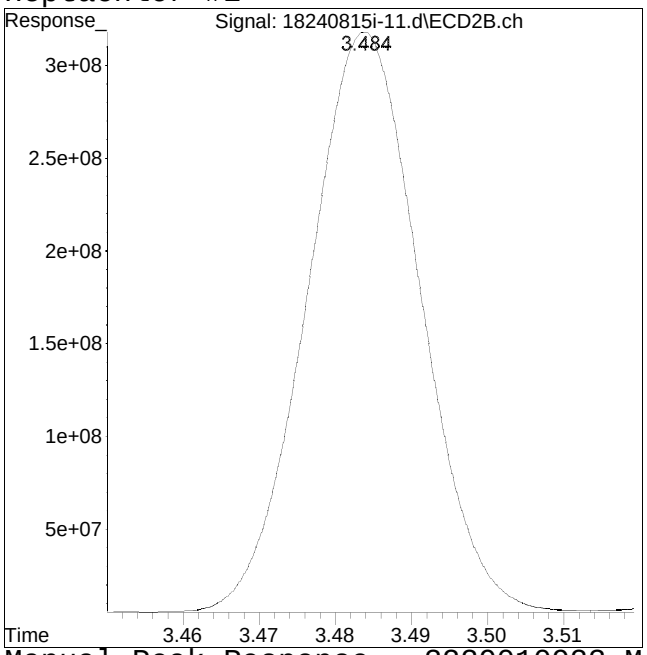
Original Peak Response = 4959219187 Manual Peak Response = 4922824503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #46: Heptachlor #2



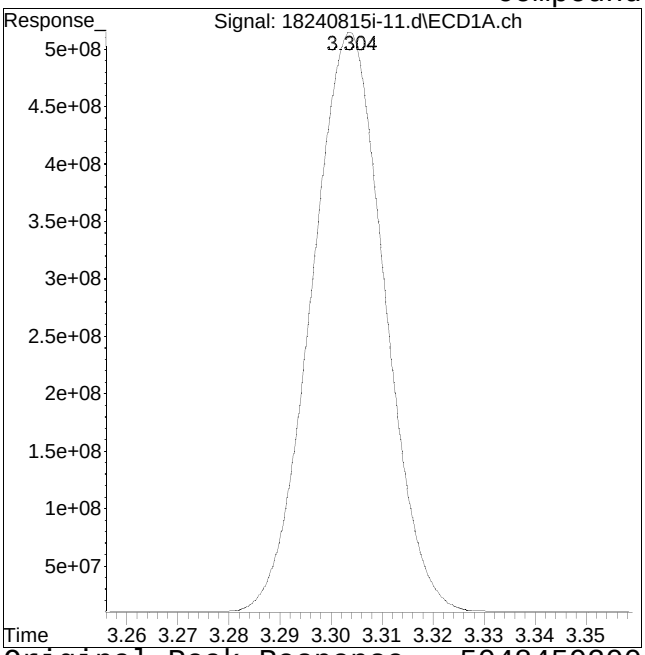


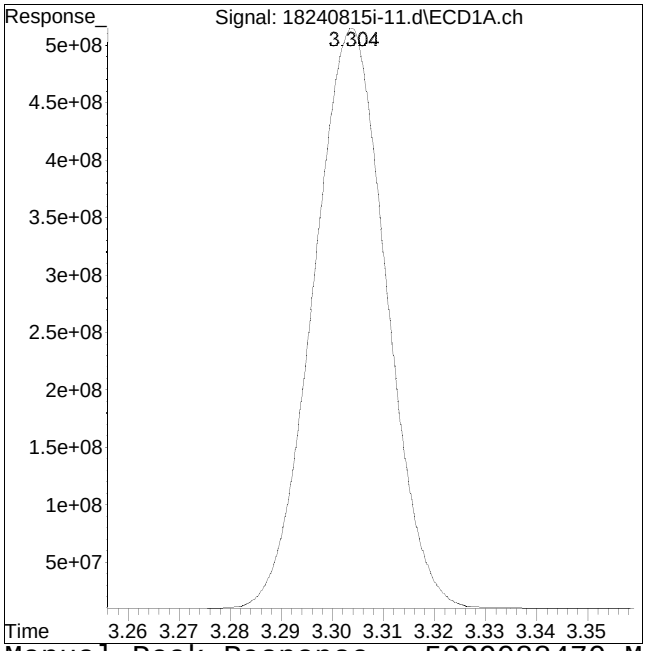
Original Peak Response = 3233605035 Manual Peak Response = 3229010923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #9: Aldrin



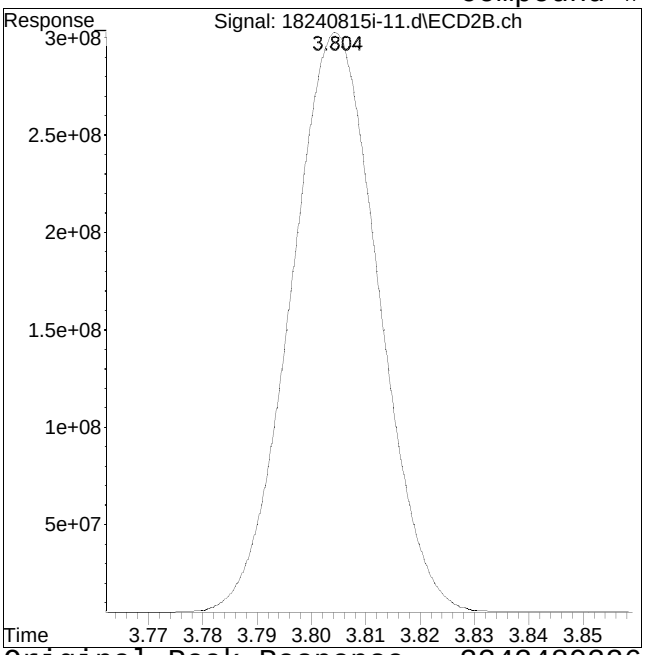


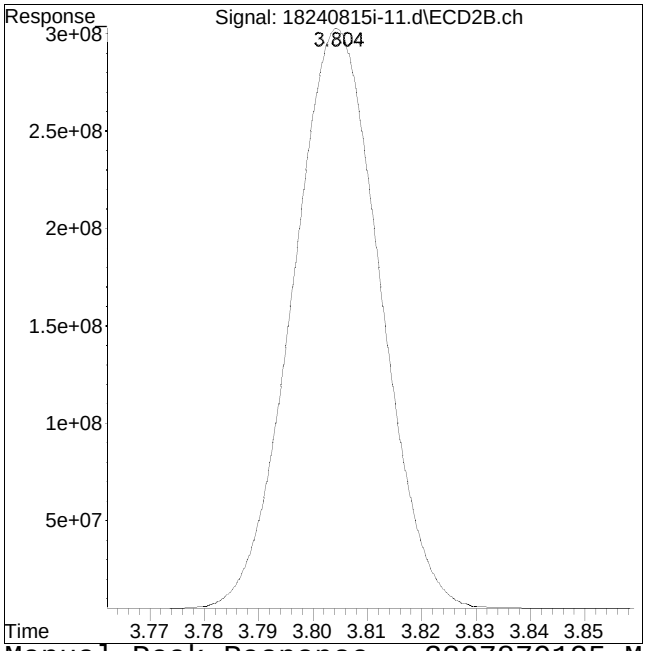
Original Peak Response = 5048459200 Manual Peak Response = 5029088470 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #47: Aldrin #2



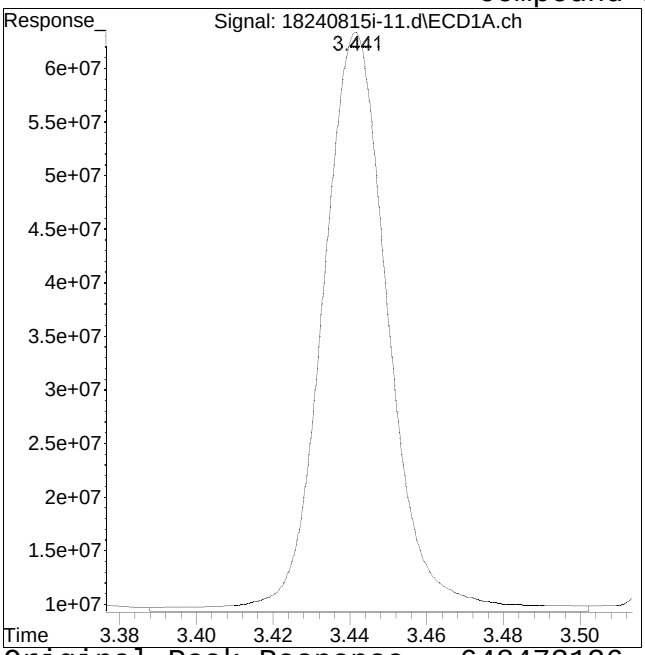


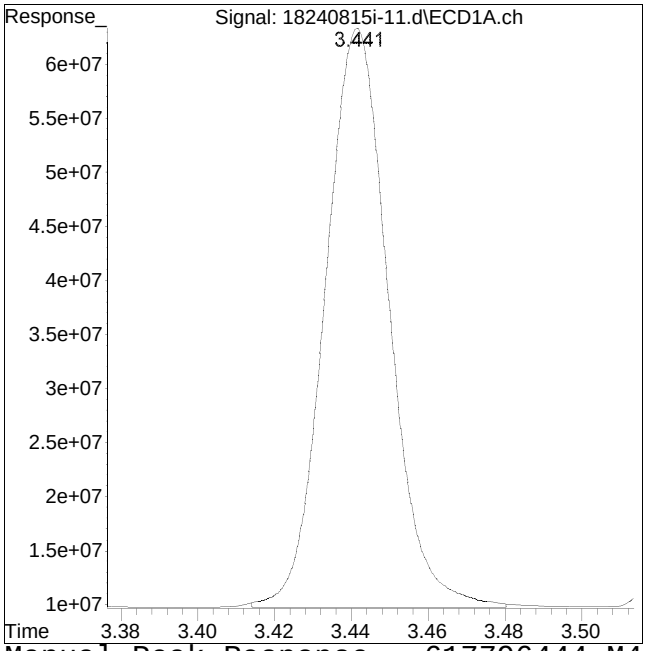
Original Peak Response = 3343489326 Manual Peak Response = 3337879125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #10: Alachlor



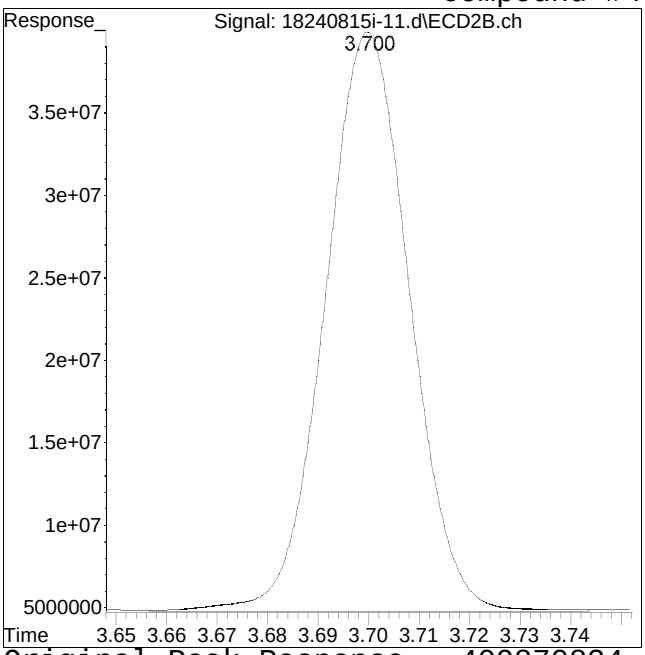


Original Peak Response = 648473136 Manual Peak Response = 617796444 M4
M4 = Poor automated baseline construction.

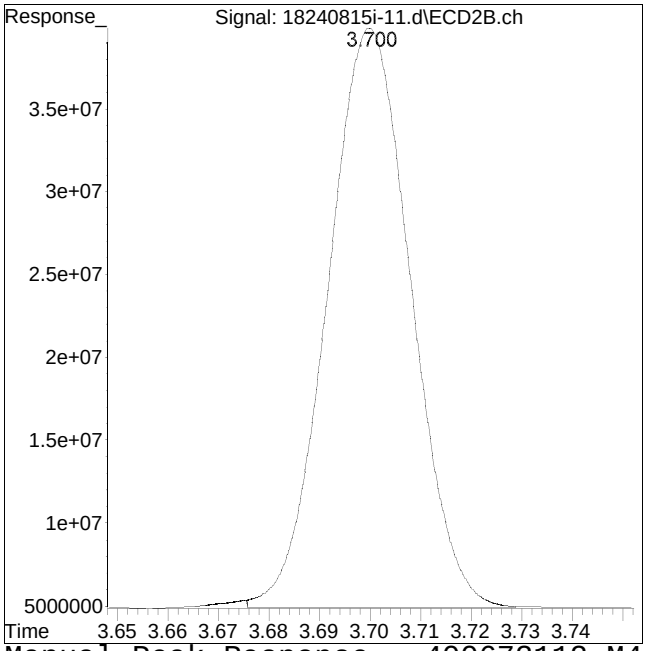
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #48: Alachlor #2



Original Peak Response = 409870834



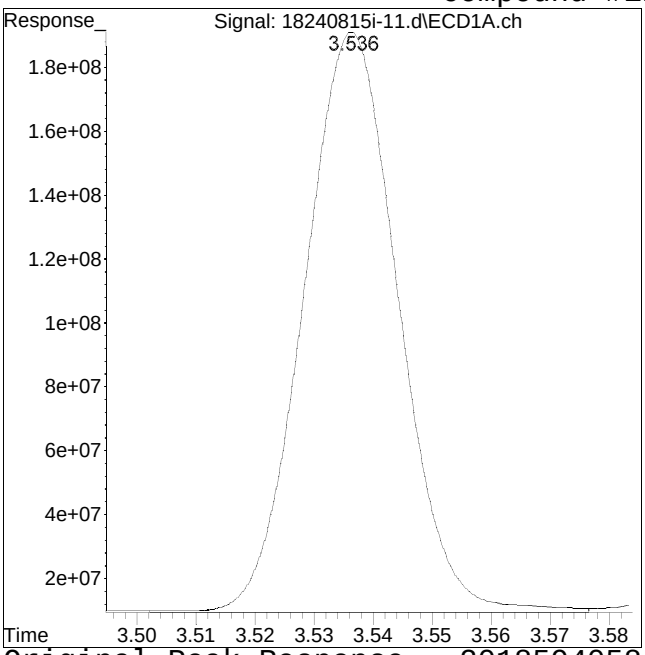
Manual Peak Response = 400673112 M4

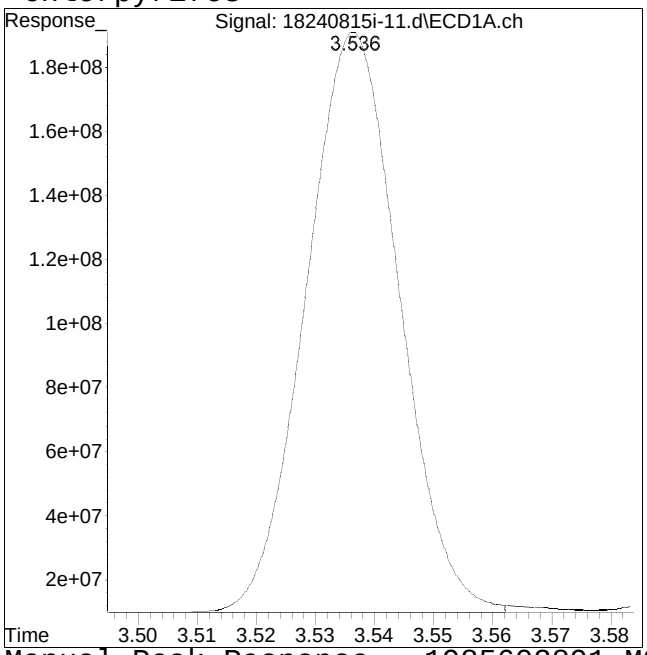
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #11: Chlorpyrifos



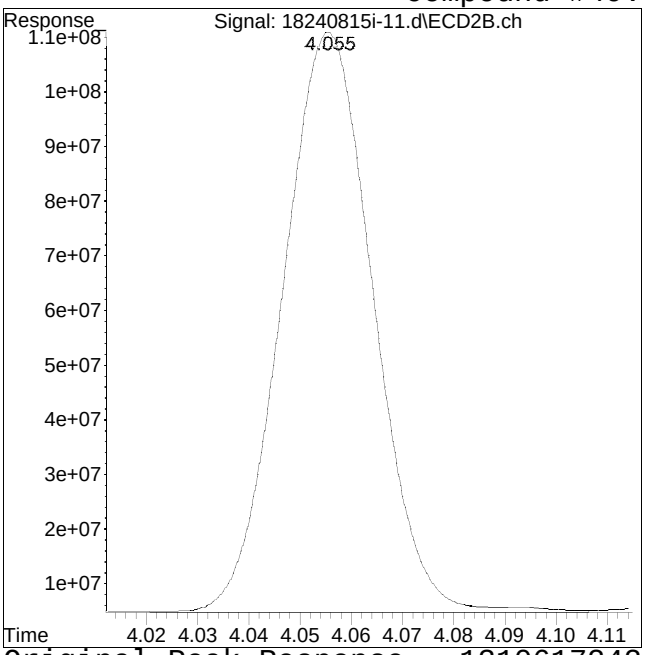


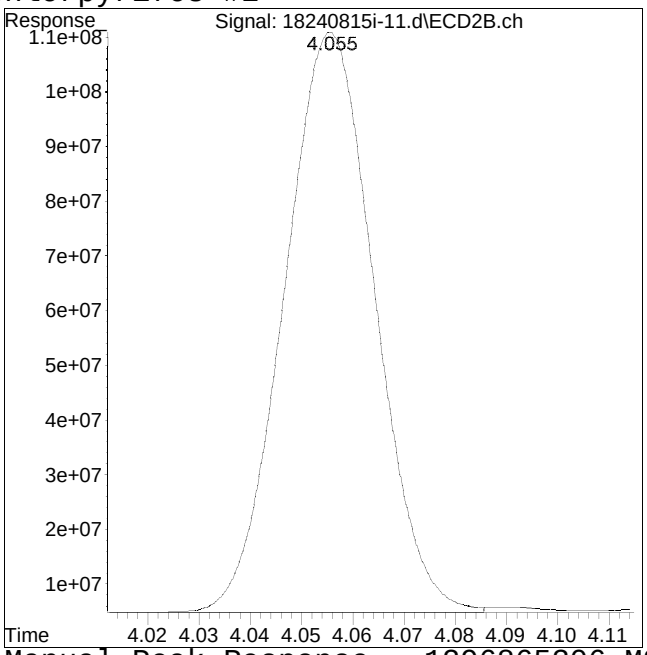
Original Peak Response = 2018594058 Manual Peak Response = 1985602891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #49: Chlorpyrifos #2



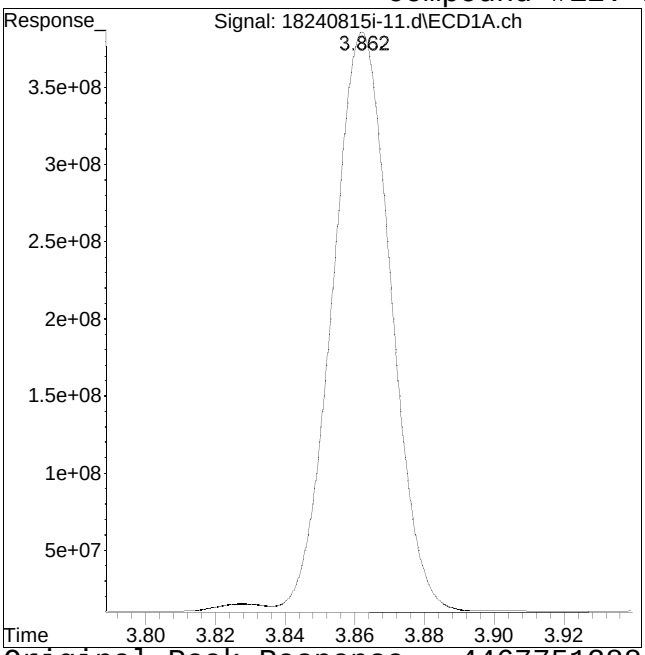


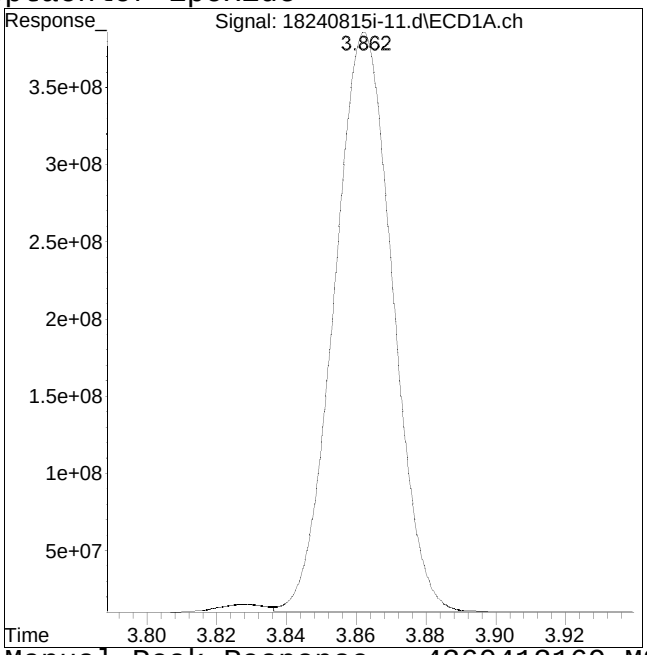
Original Peak Response = 1310617242 Manual Peak Response = 1296865306 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #12: Heptachlor Epoxide



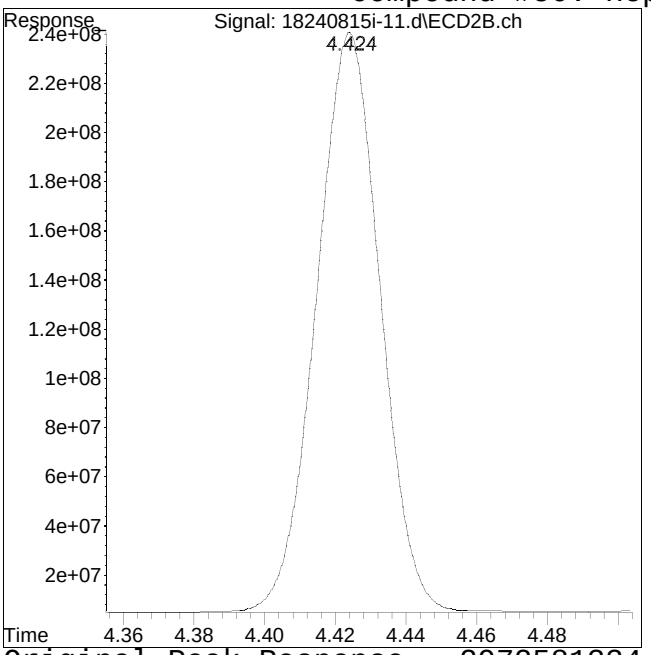


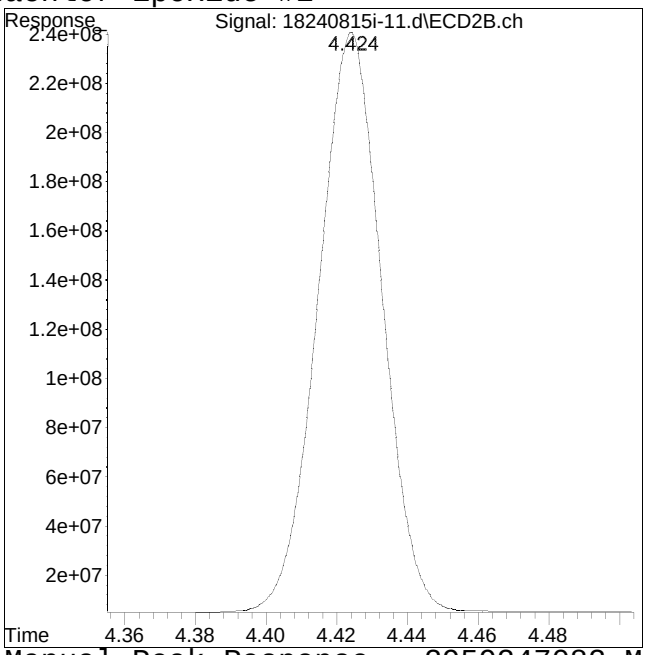
Original Peak Response = 4467751288 Manual Peak Response = 4360413169 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #50: Heptachlor Epoxide #2



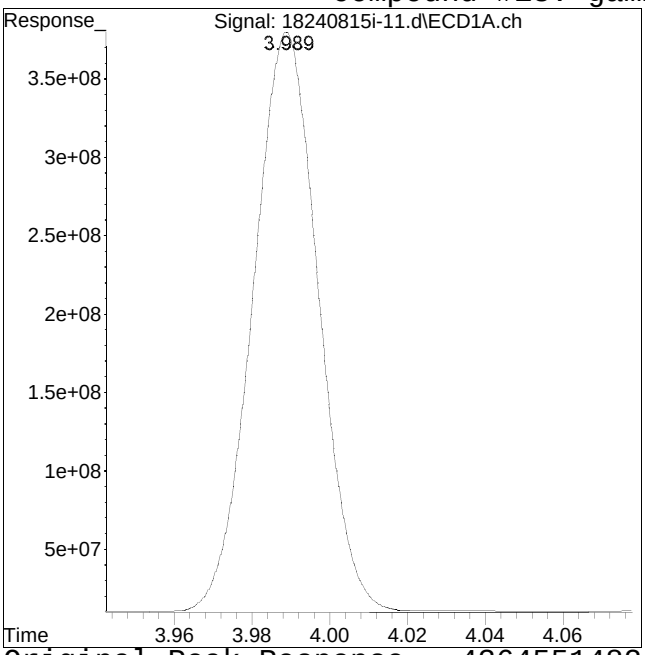


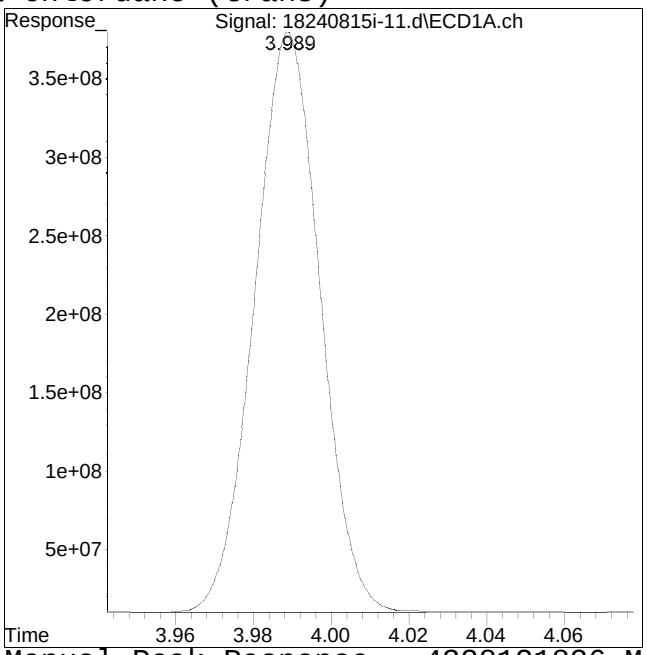
Original Peak Response = 2972581334 Manual Peak Response = 2959247082 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #13: gamma-Chlordane (trans)



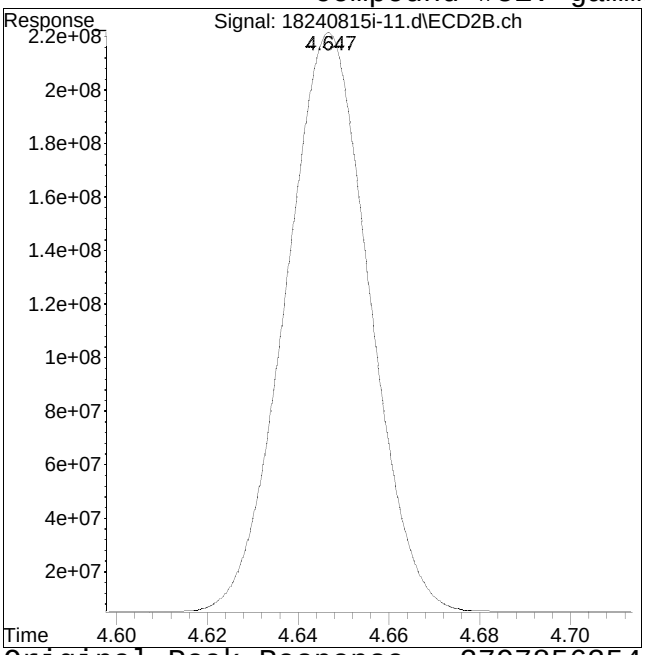


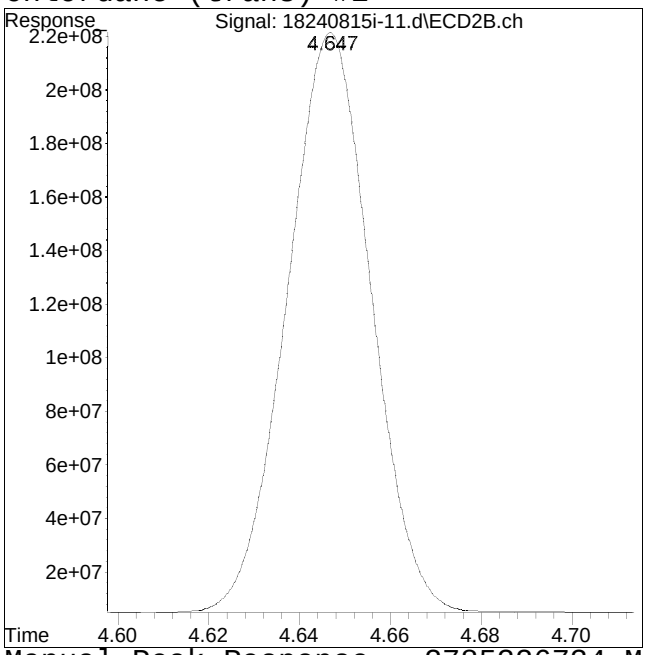
Original Peak Response = 4364551482 Manual Peak Response = 4328121826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #51: gamma-Chlordane (trans) #2



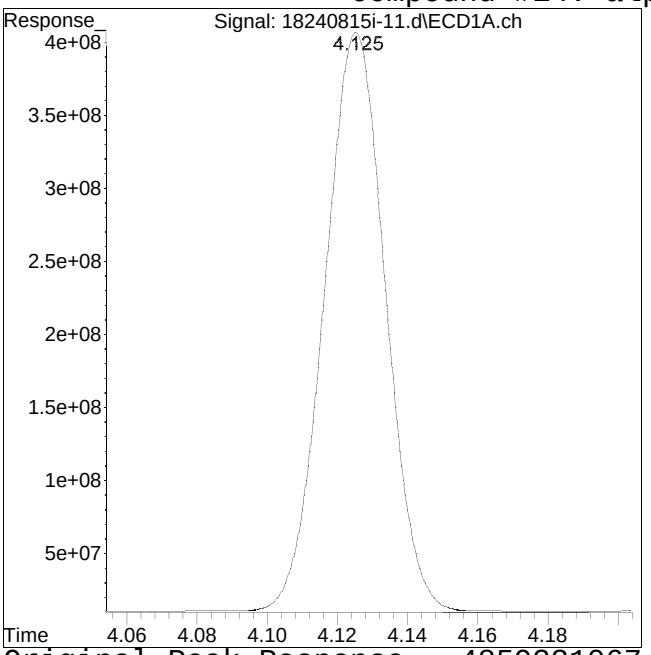


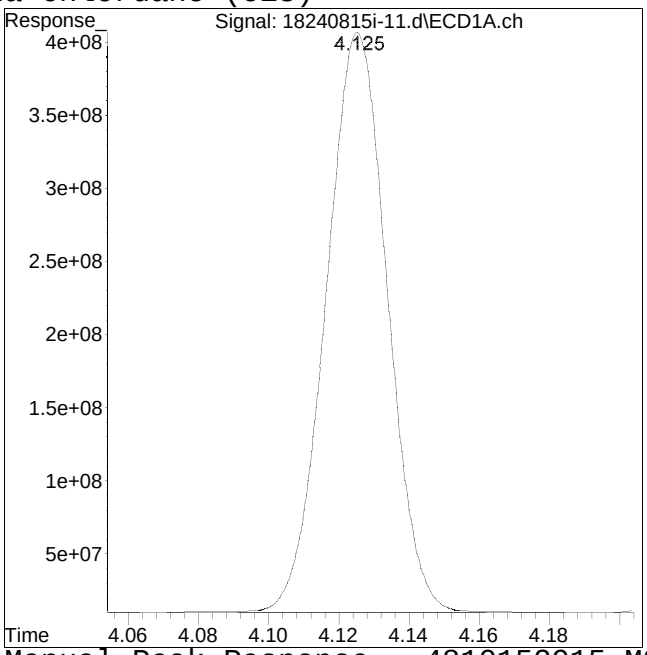
Original Peak Response = 2797856354 Manual Peak Response = 2785326734 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #14: alpha-Chlordane (cis)



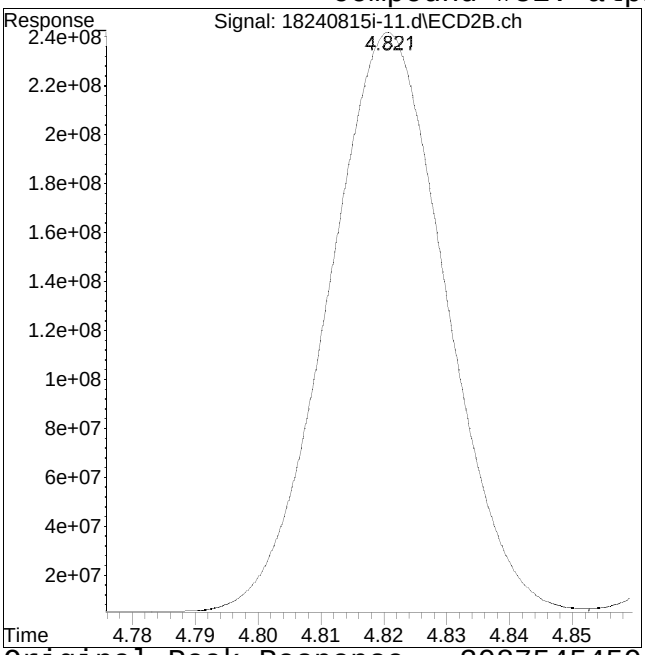


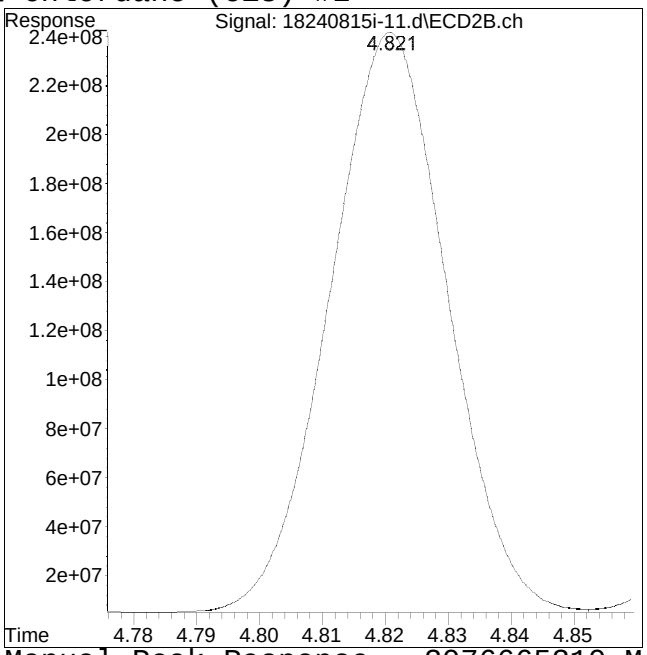
Original Peak Response = 4859331067 Manual Peak Response = 4810152915 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #52: alpha-Chlordane (cis) #2



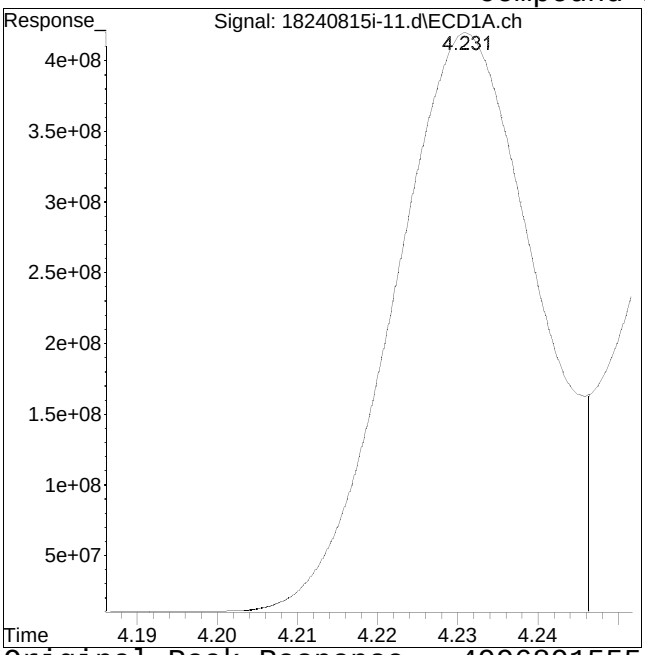


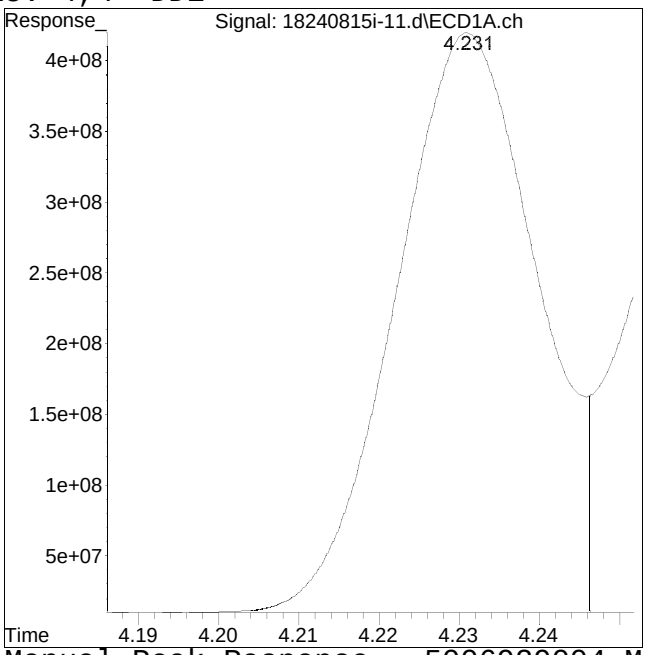
Original Peak Response = 3087545459 Manual Peak Response = 3076665310 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #15: 4,4'-DDE



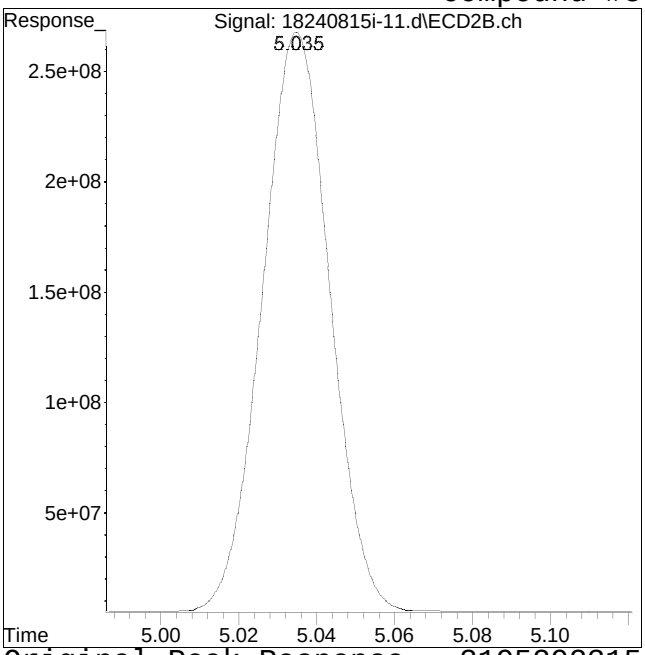


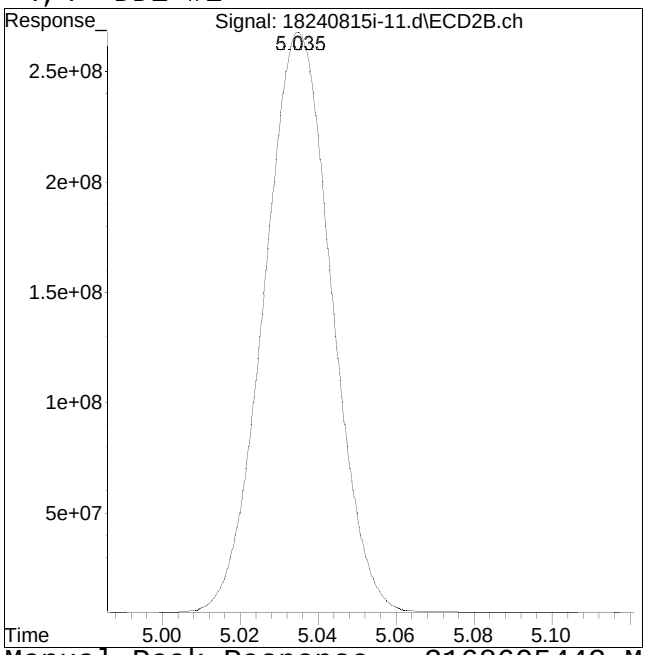
Original Peak Response = 4996891555 Manual Peak Response = 5006929004 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #53: 4,4'-DDE #2



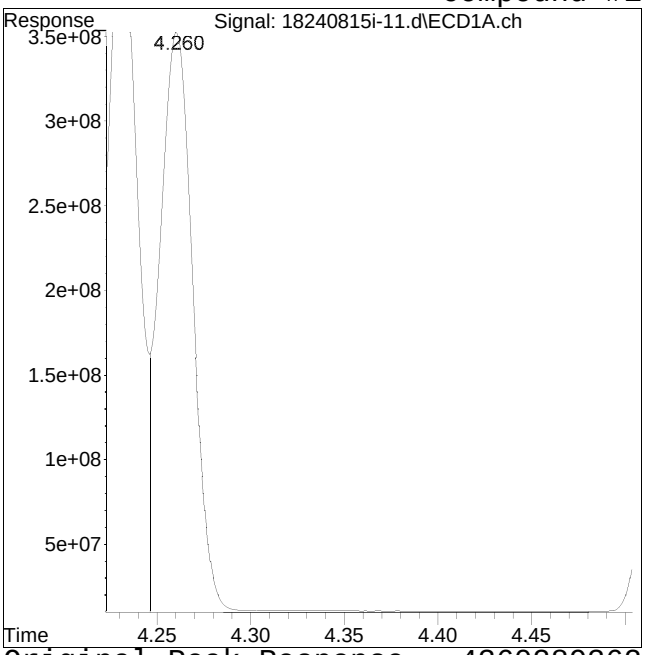


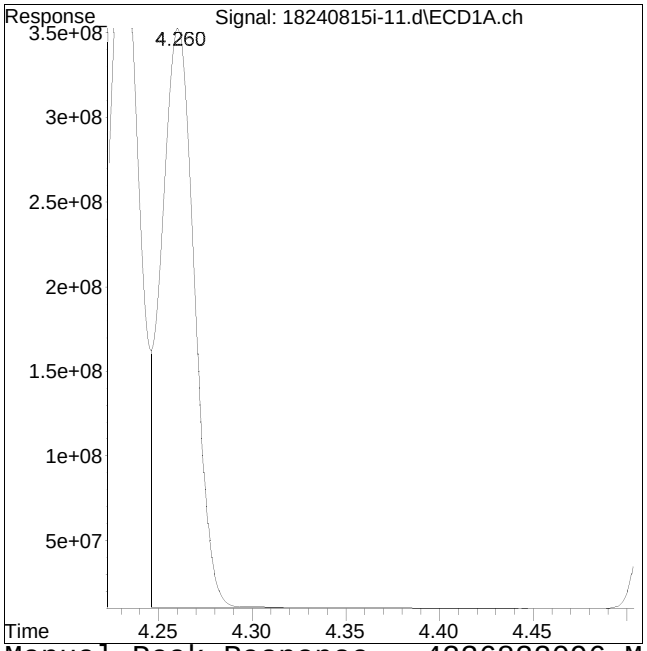
Original Peak Response = 3195292315 Manual Peak Response = 3168605442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #16: Endosulfan I



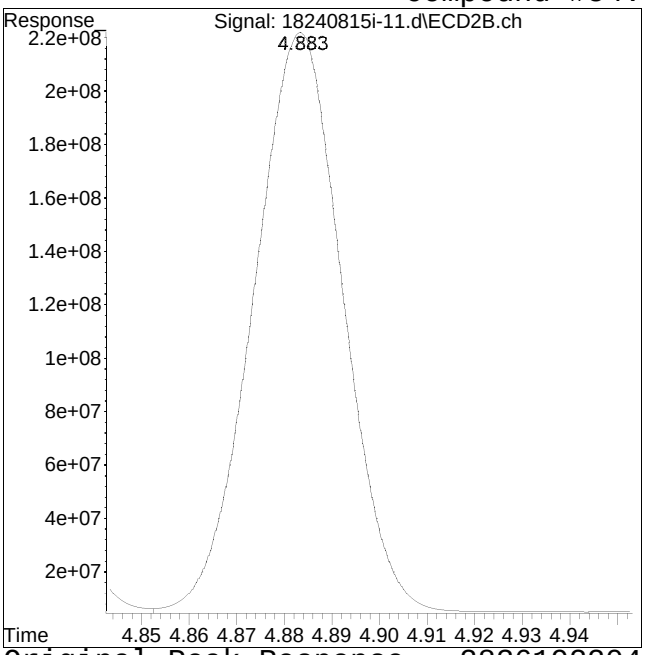


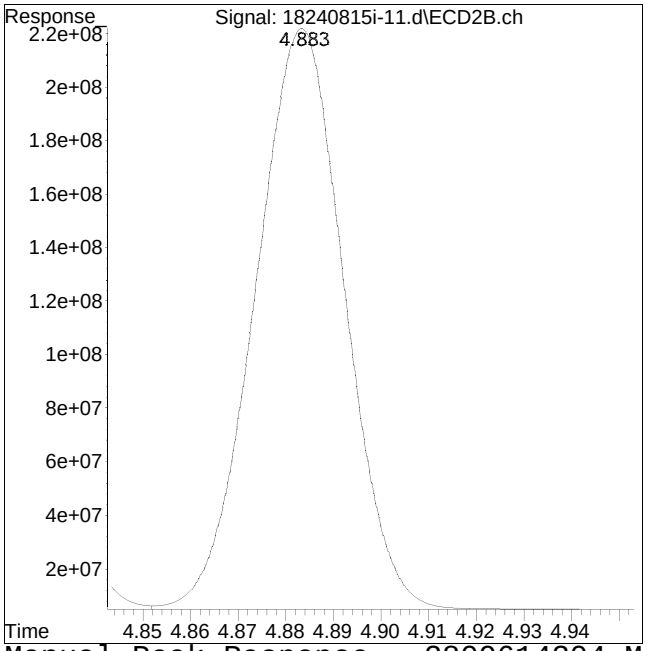
Original Peak Response = 4360289362 Manual Peak Response = 4236832096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #54: Endosulfan I #2



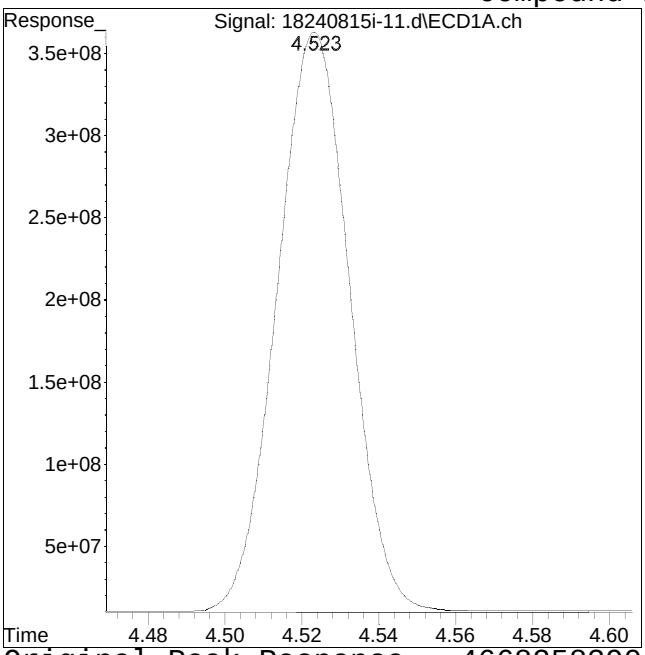


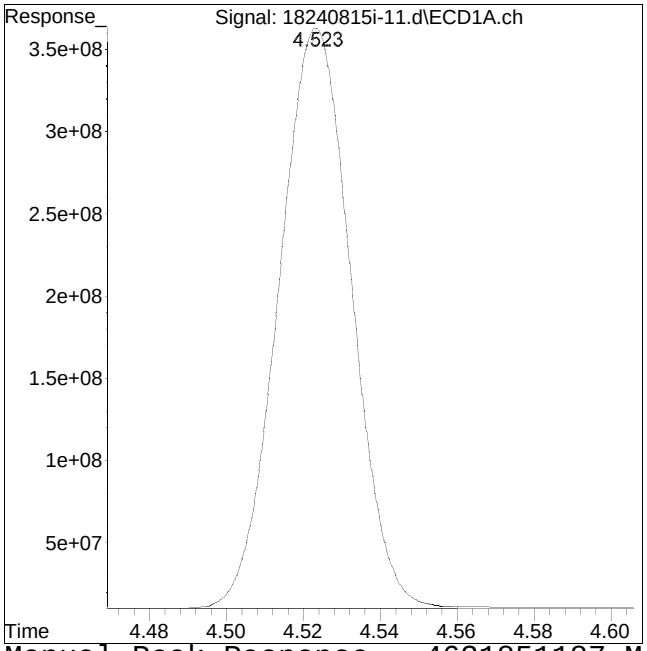
Original Peak Response = 2836192204 Manual Peak Response = 2809614304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #17: Dieldrin



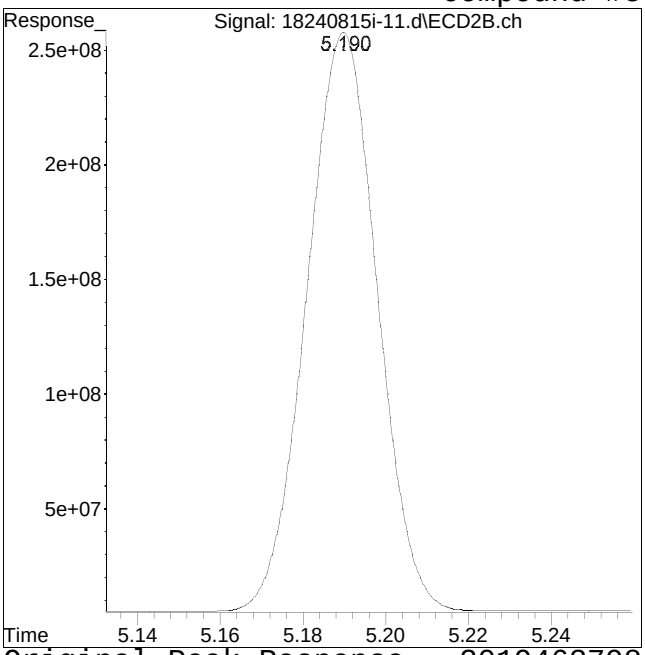


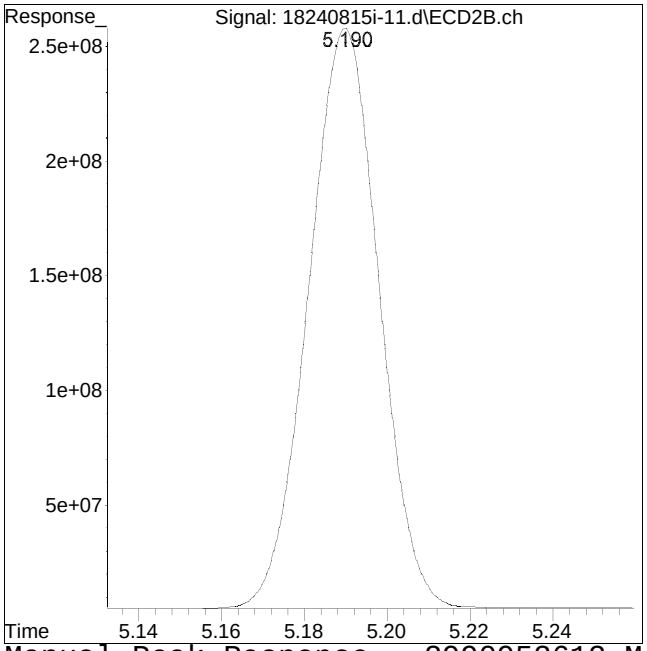
Original Peak Response = 4668258390 Manual Peak Response = 4631851187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #55: Dieldrin #2



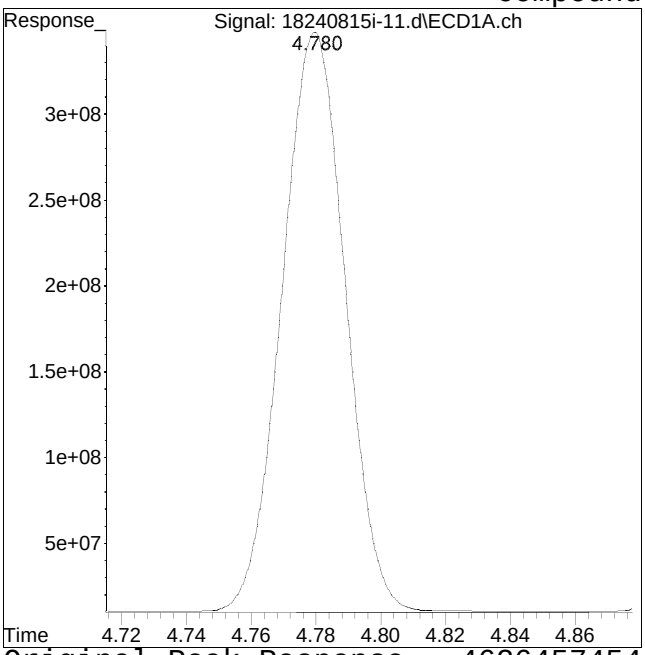


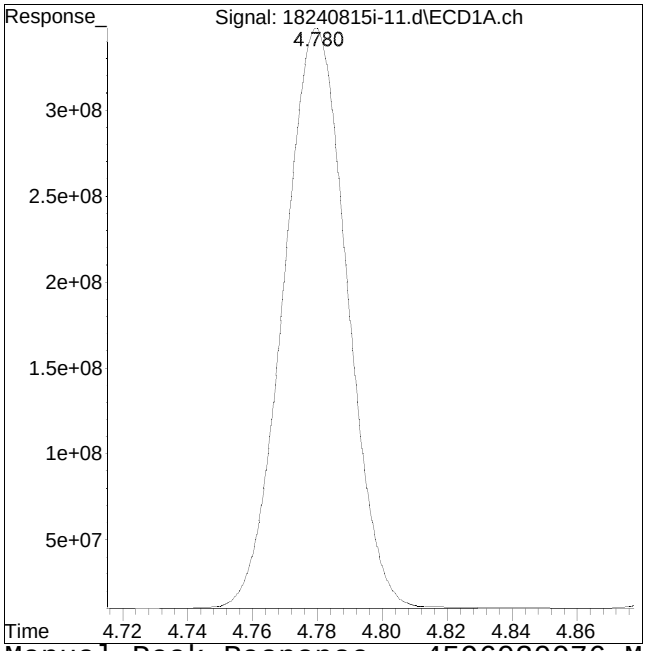
Original Peak Response = 3019463798 Manual Peak Response = 2990952612 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #18: Endrin



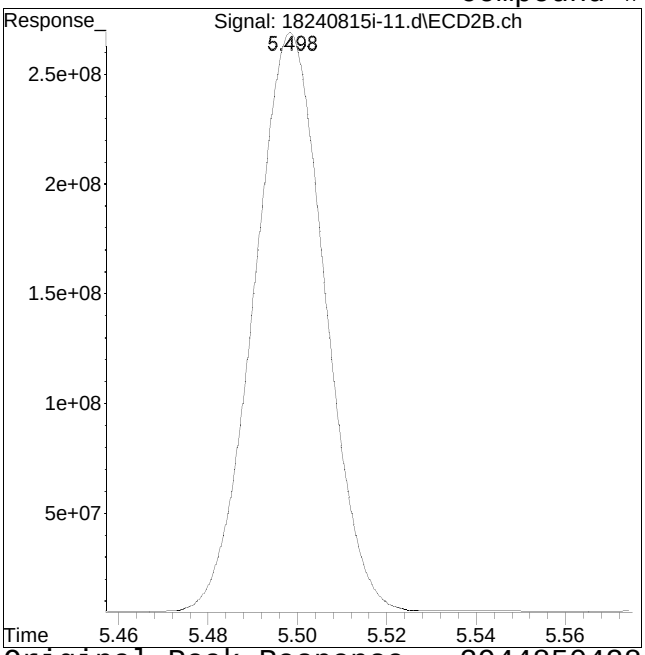


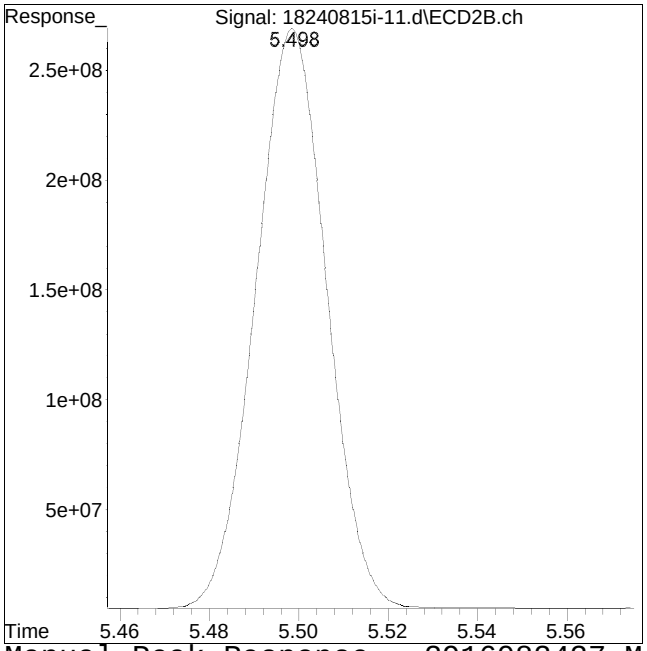
Original Peak Response = 4626457454 Manual Peak Response = 4596030076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #56: Endrin #2



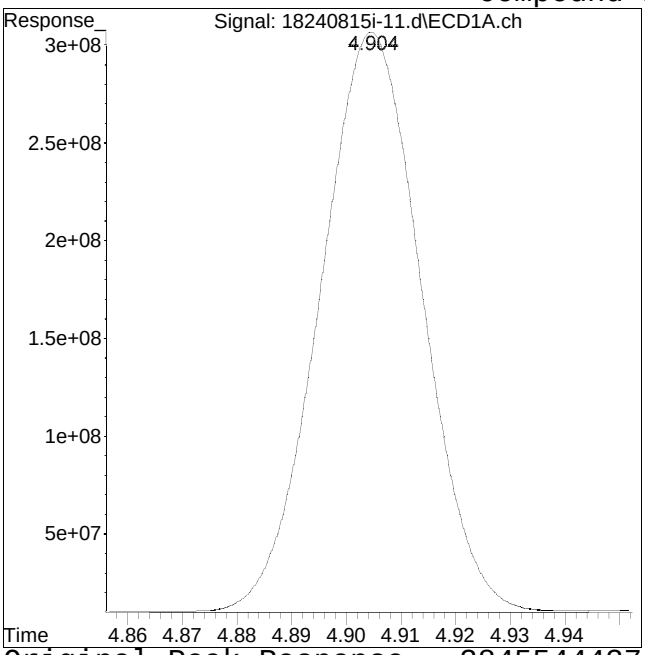


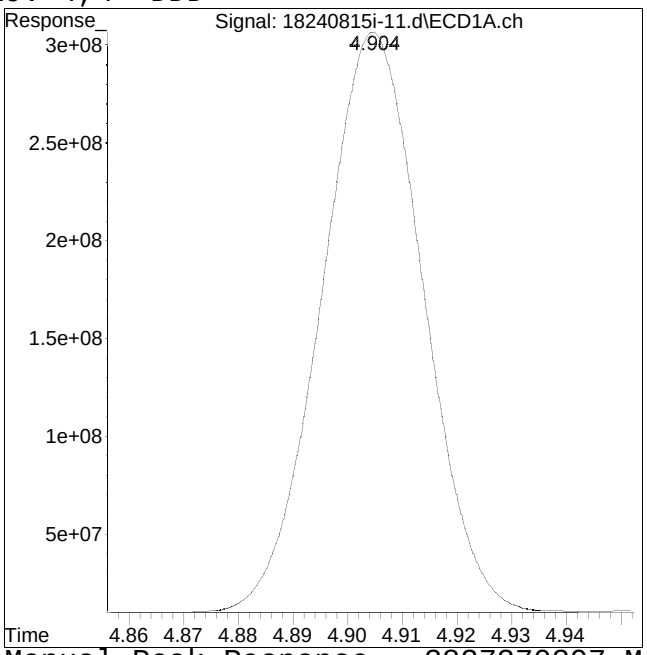
Original Peak Response = 2944850428 Manual Peak Response = 2916082437 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #19: 4,4'-DDD



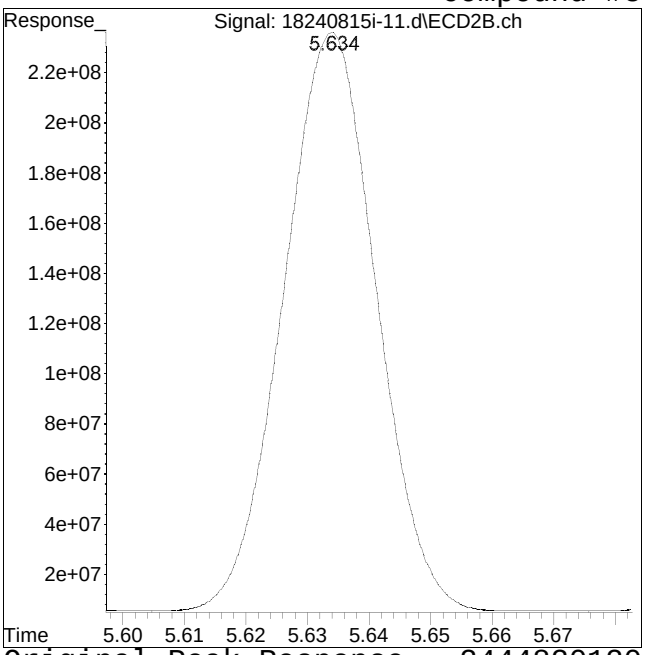


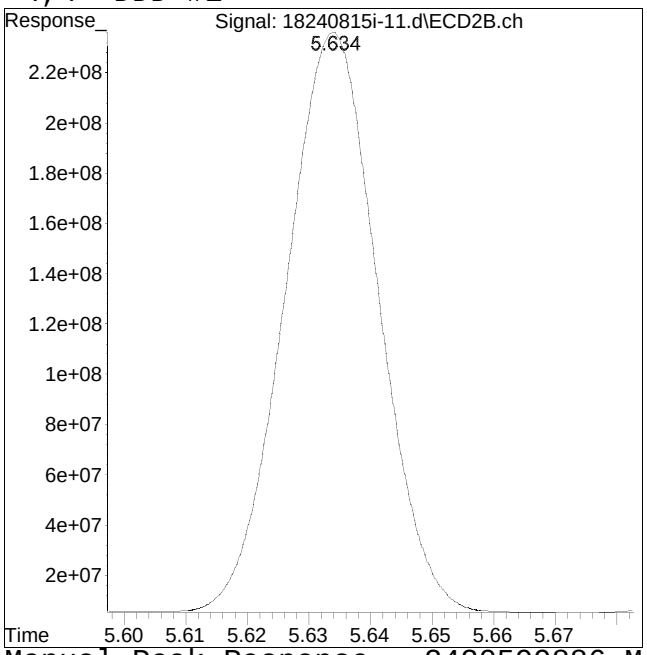
Original Peak Response = 3845544437 Manual Peak Response = 3827370307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #57: 4,4'-DDD #2



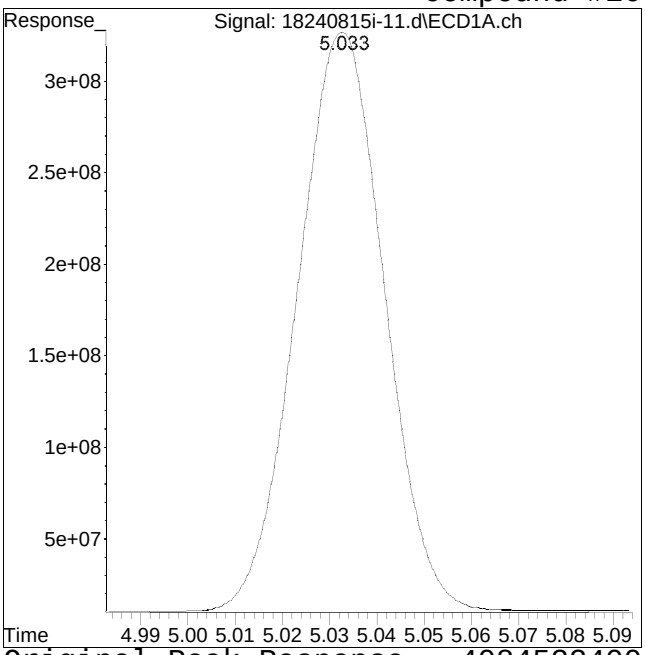


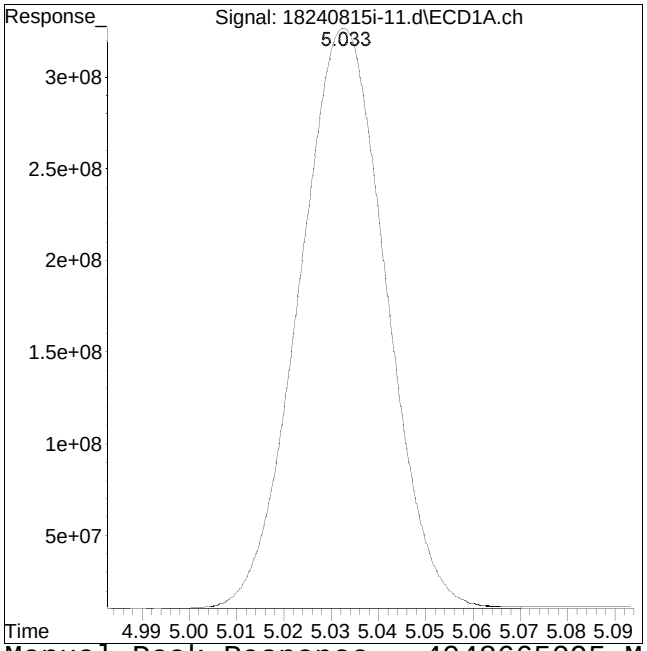
Original Peak Response = 2444820120 Manual Peak Response = 2420599886 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #20: Endosulfan II



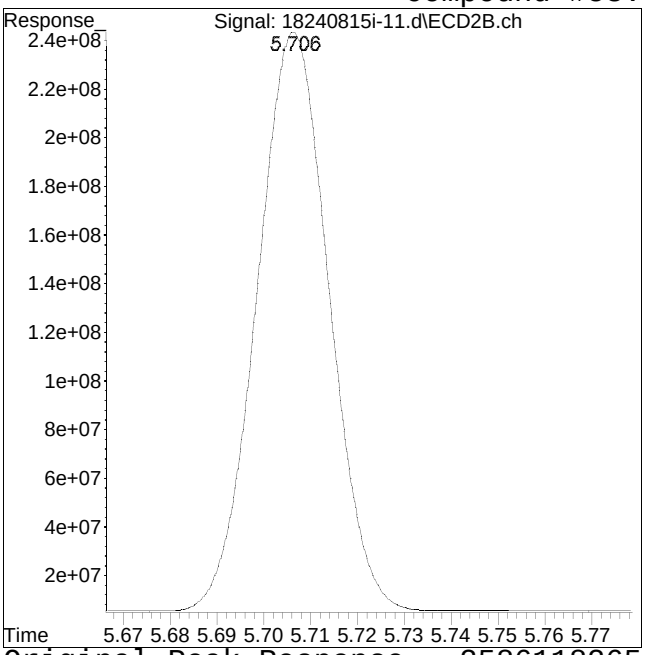


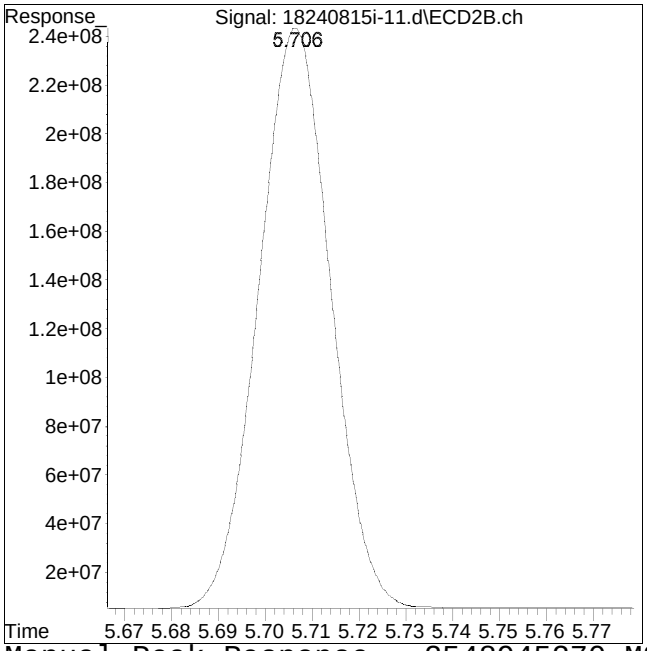
Original Peak Response = 4084533400 Manual Peak Response = 4048665095 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-11.d
Date Inj'd : 8/15/2024 15:36
Sample : il10pest,42e,,pp 11679 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:27 am

Compound #58: Endosulfan II #2



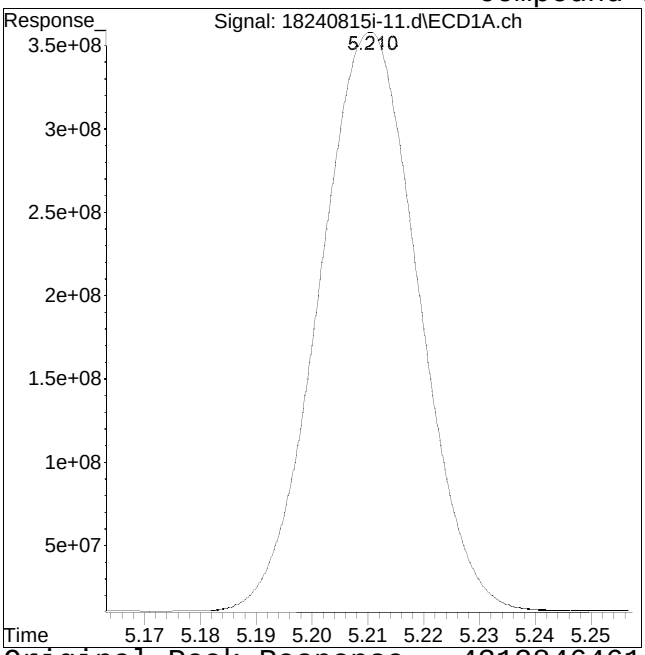


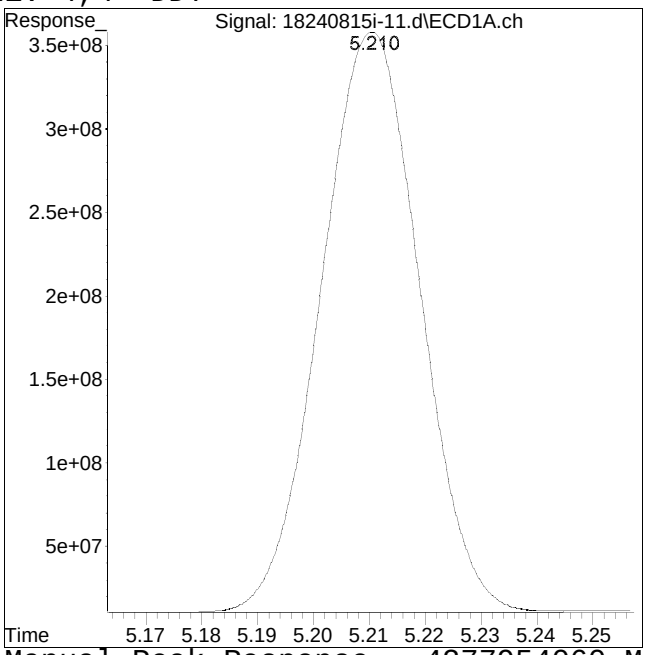
Original Peak Response = 2586118265 Manual Peak Response = 2548945270 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #21: 4,4'-DDT



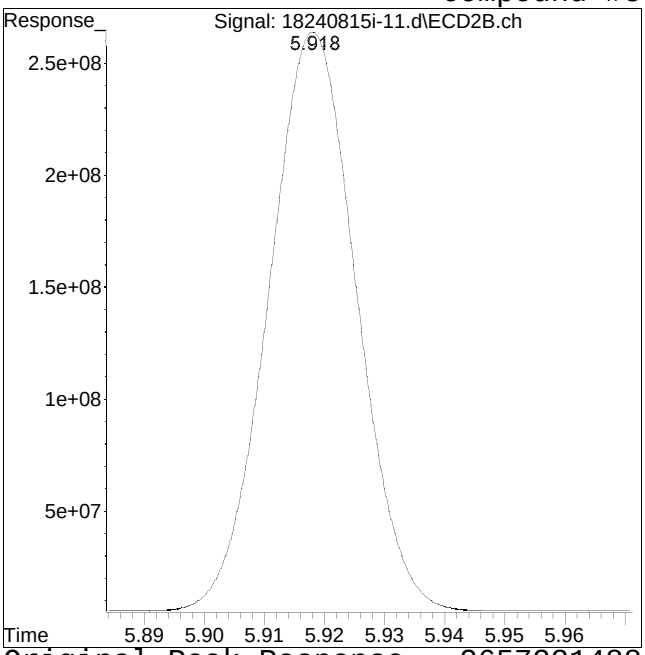


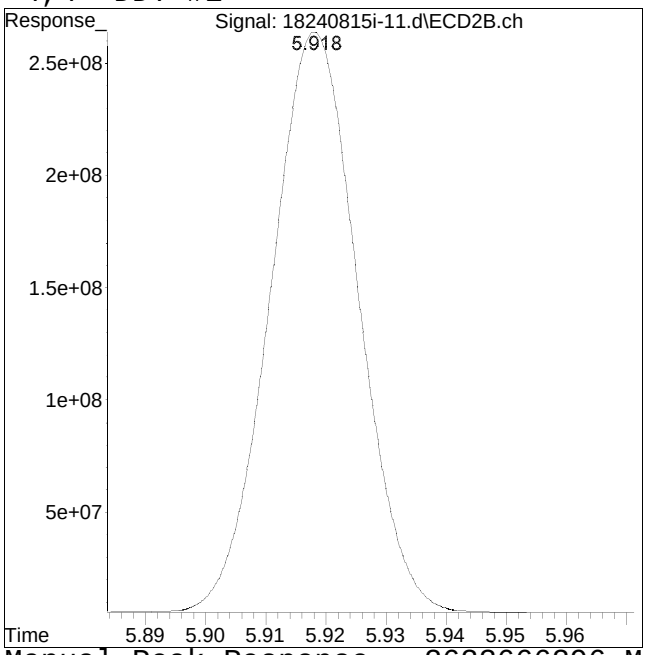
Original Peak Response = 4312846461 Manual Peak Response = 4277954060 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #59: 4,4'-DDT #2



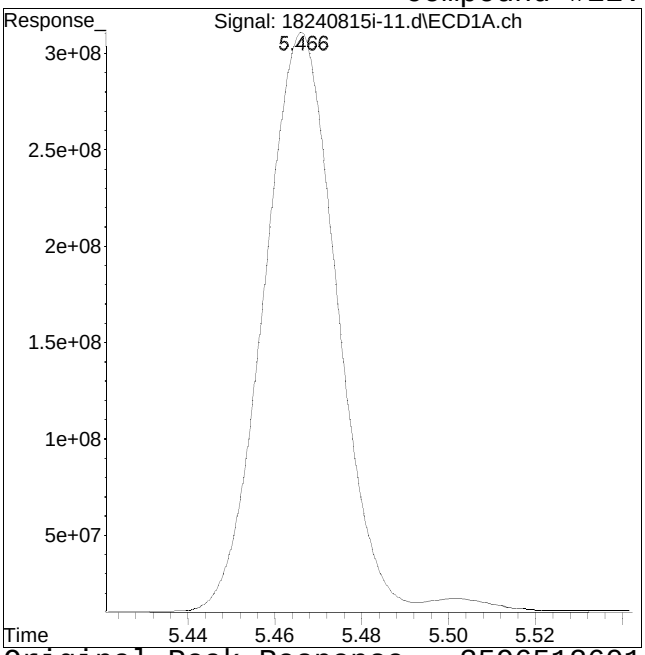


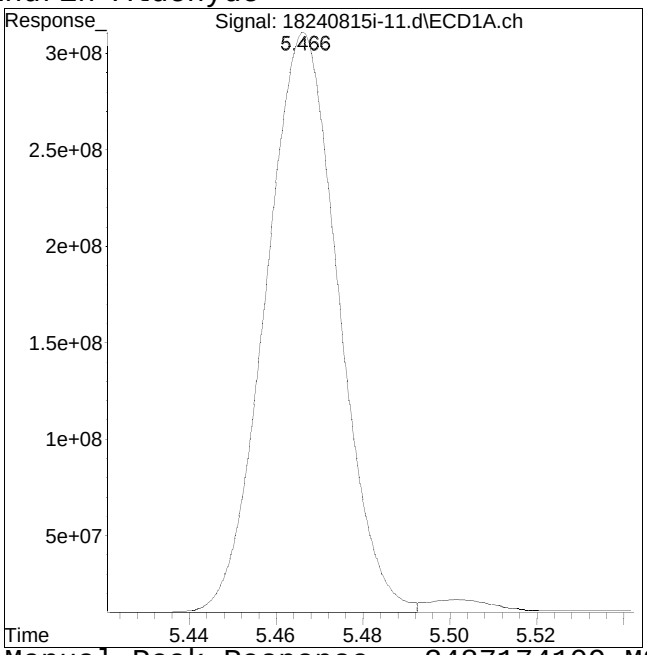
Original Peak Response = 2657221488 Manual Peak Response = 2623666296 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #22: Endrin Aldehyde



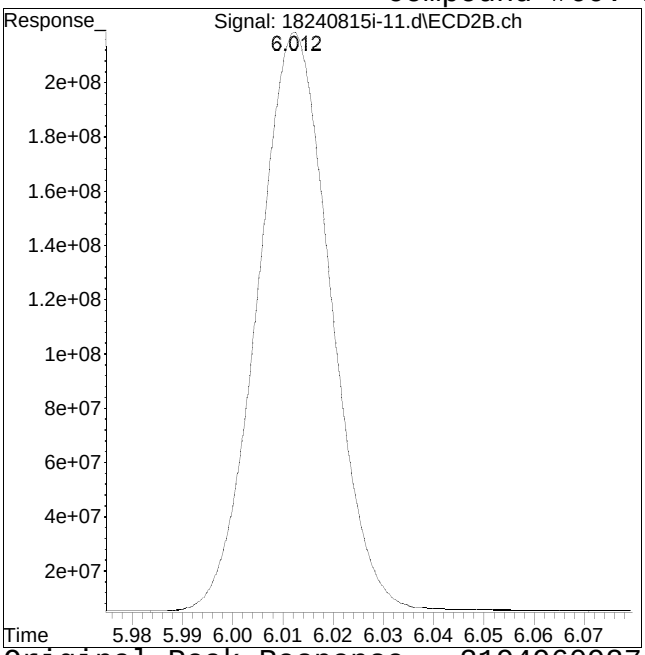


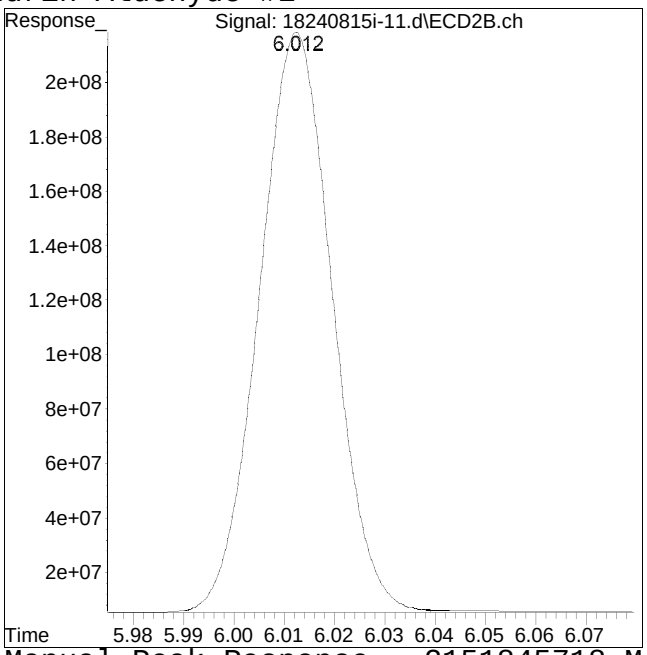
Original Peak Response = 3596512601 Manual Peak Response = 3487174109 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #60: Endrin Aldehyde #2



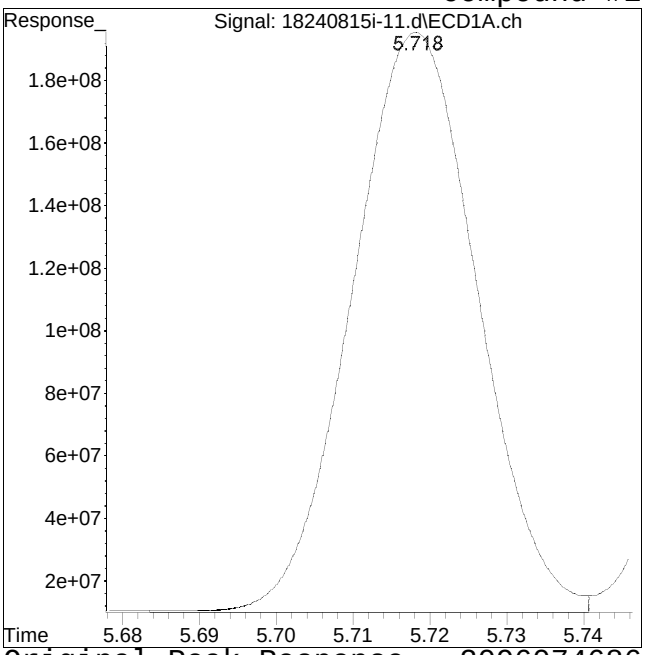


Original Peak Response = 2194960927 Manual Peak Response = 2151845718 M4
M4 = Poor automated baseline construction.

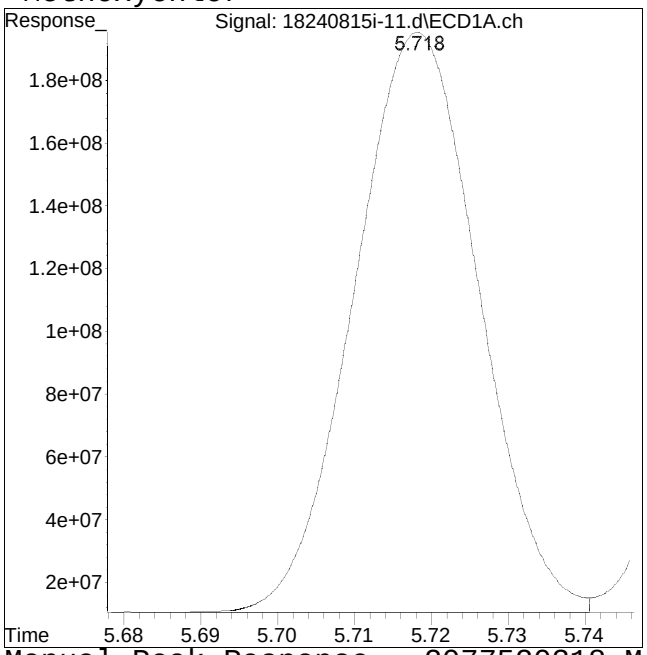
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #23: Methoxychlor



Original Peak Response = 2096074686

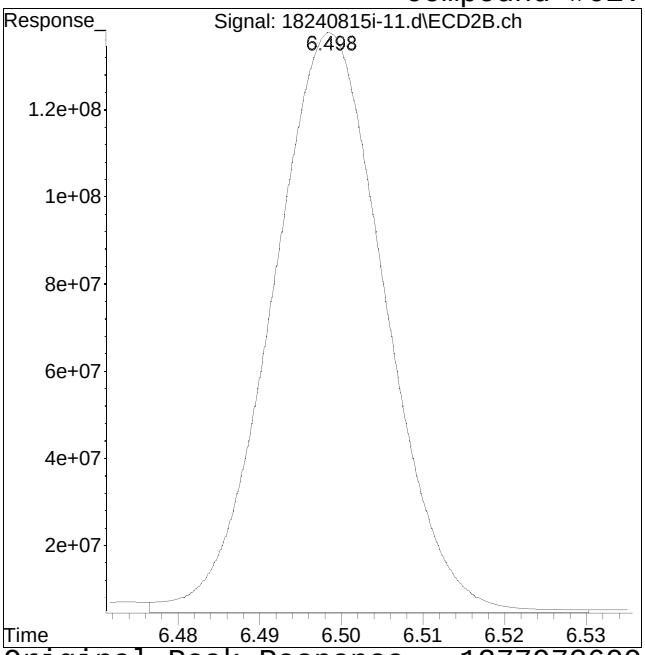


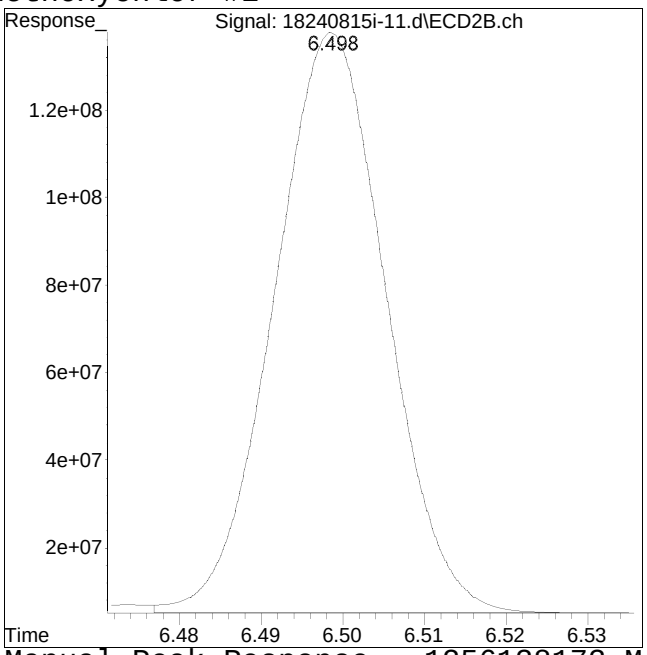
Manual Peak Response = 2077520318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #61: Methoxychlor #2



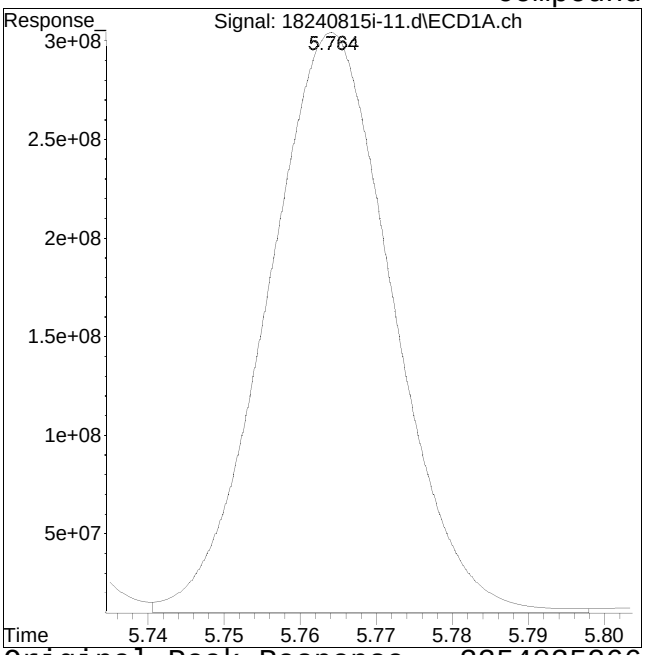


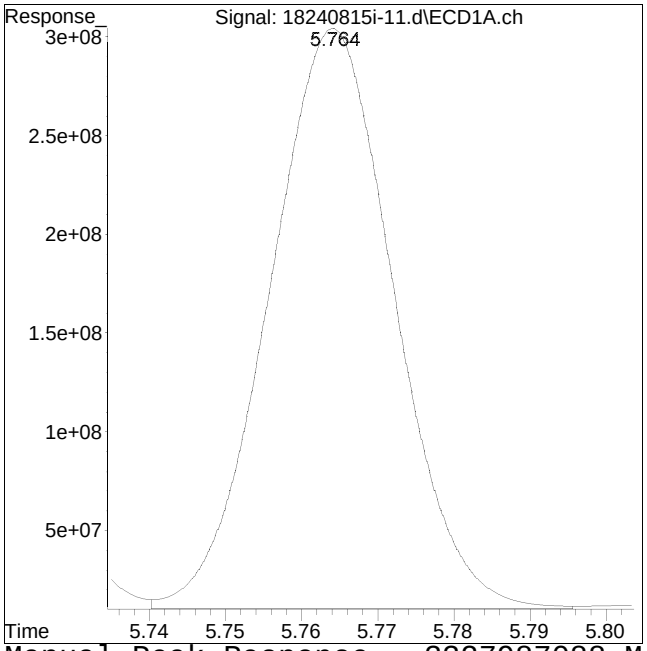
Original Peak Response = 1277973609 Manual Peak Response = 1256138173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-11.d
Date Inj'd : 8/15/2024 15:36
Sample : il10pest,42e,,pp 11679 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:27 am

Compound #24: Mirex



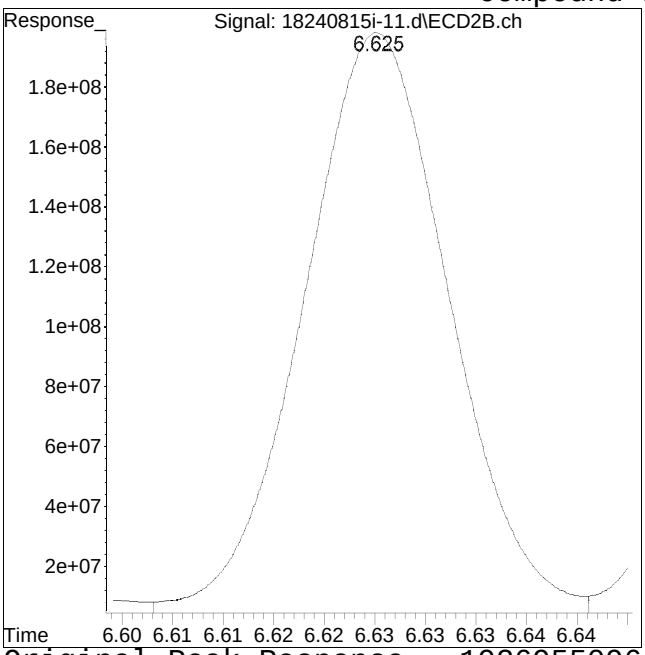


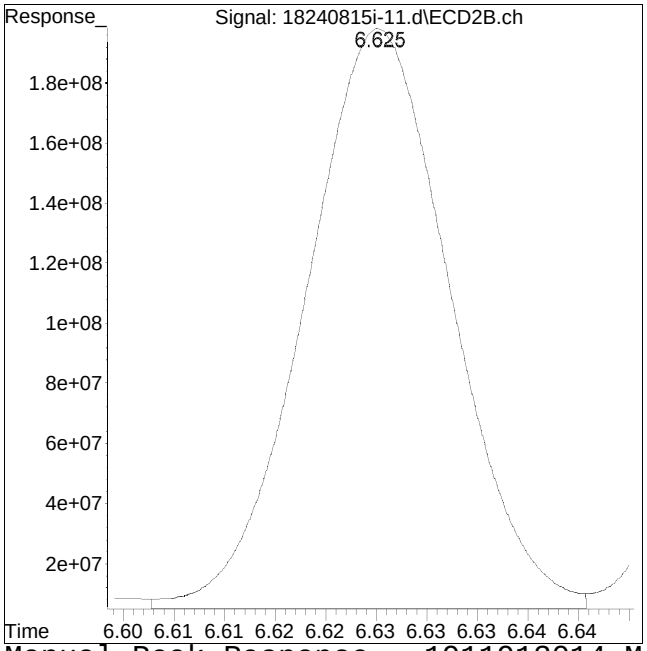
Original Peak Response = 3354835266 Manual Peak Response = 3327987088 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #62: Mirex #2



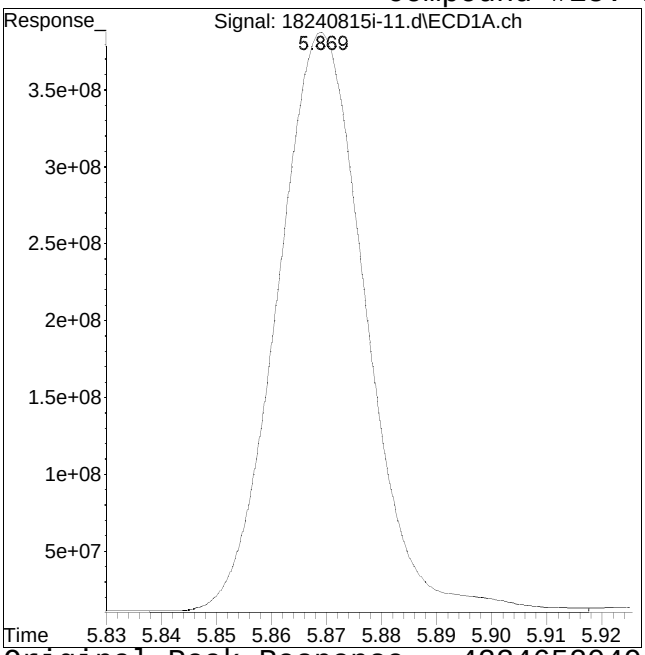


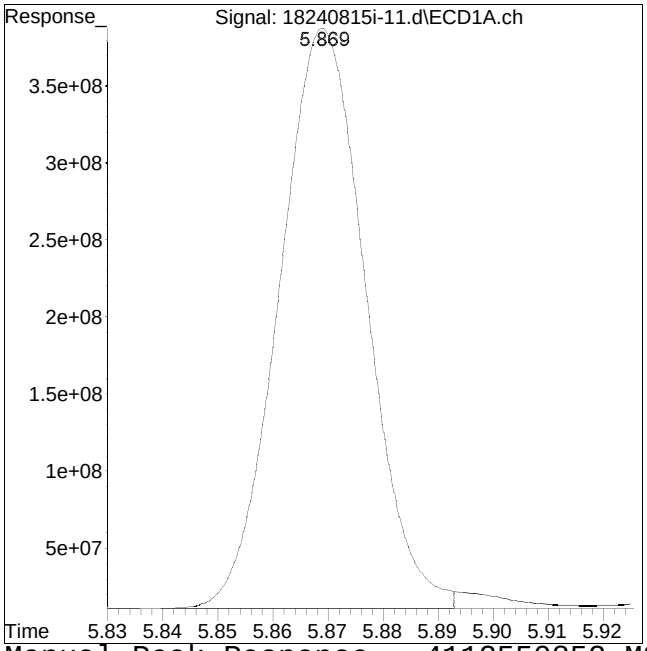
Original Peak Response = 1926955096 Manual Peak Response = 1911913014 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #25: Endosulfan Sulfate



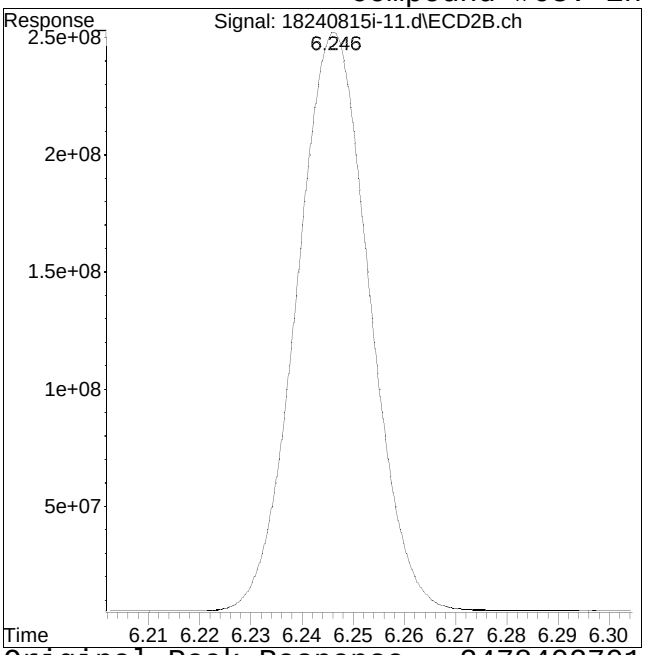


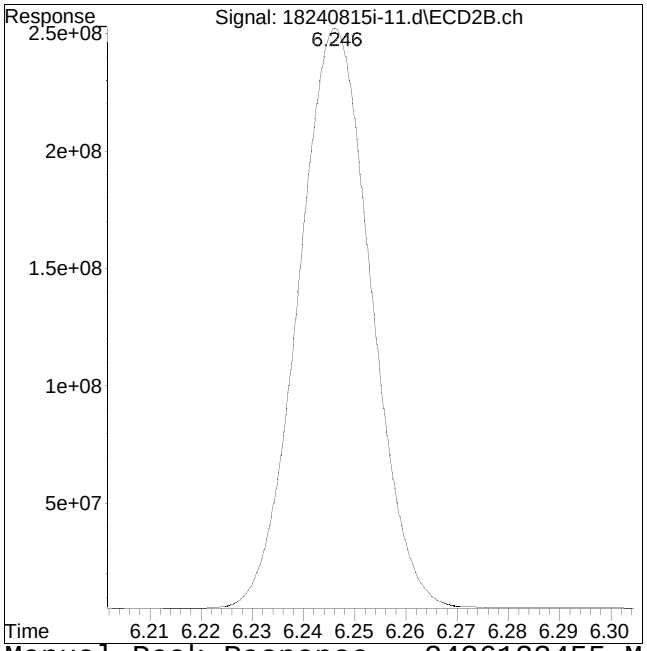
Original Peak Response = 4234652049 Manual Peak Response = 4112550852 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #63: Endosulfan Sulfate #2



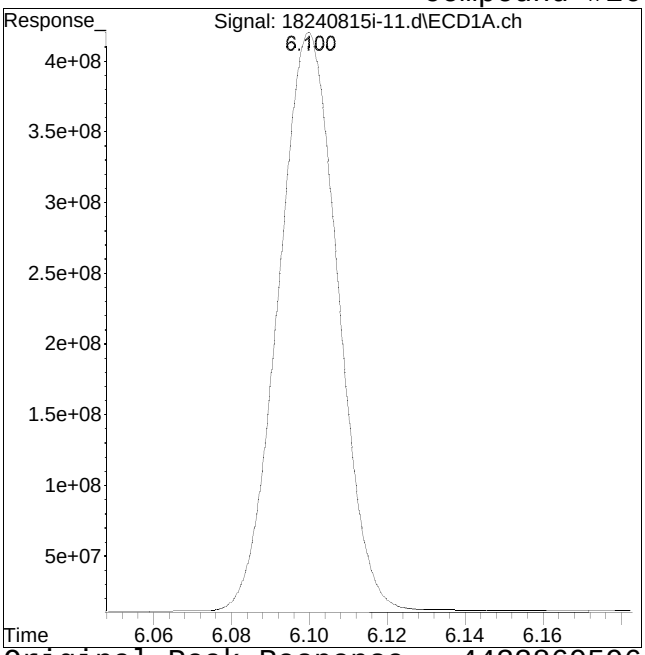


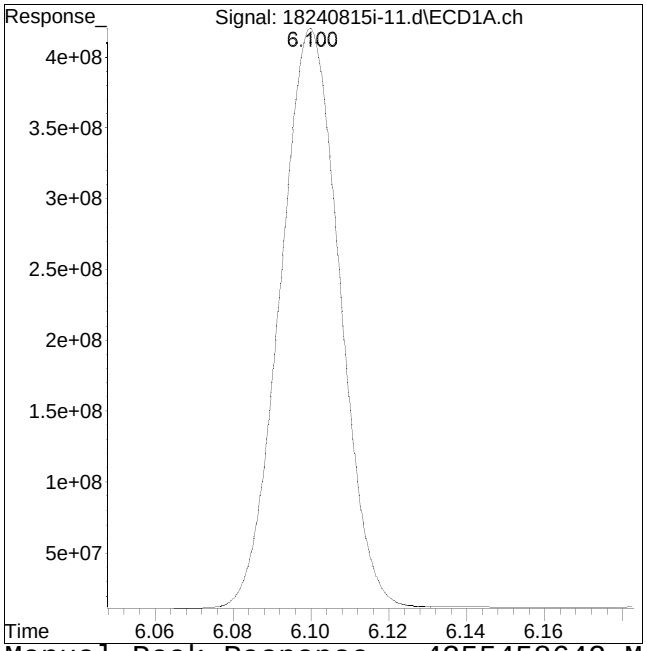
Original Peak Response = 2478402701 Manual Peak Response = 2436123455 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #26: Endrin Ketone



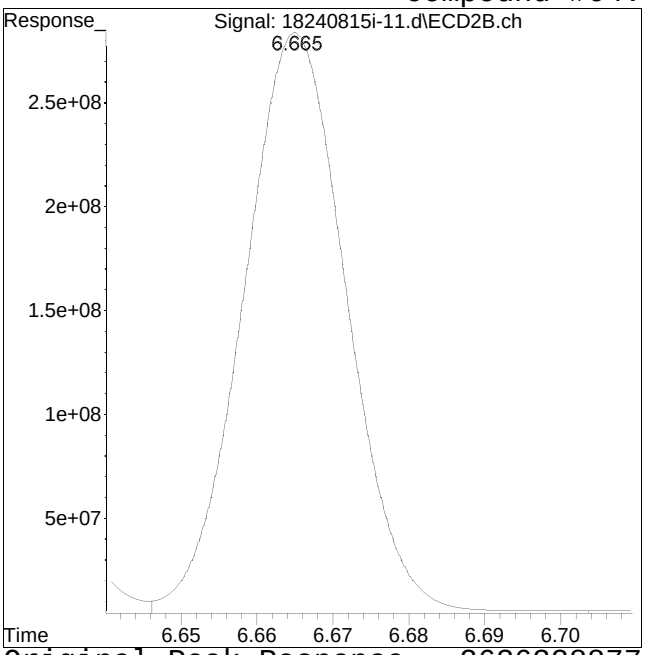


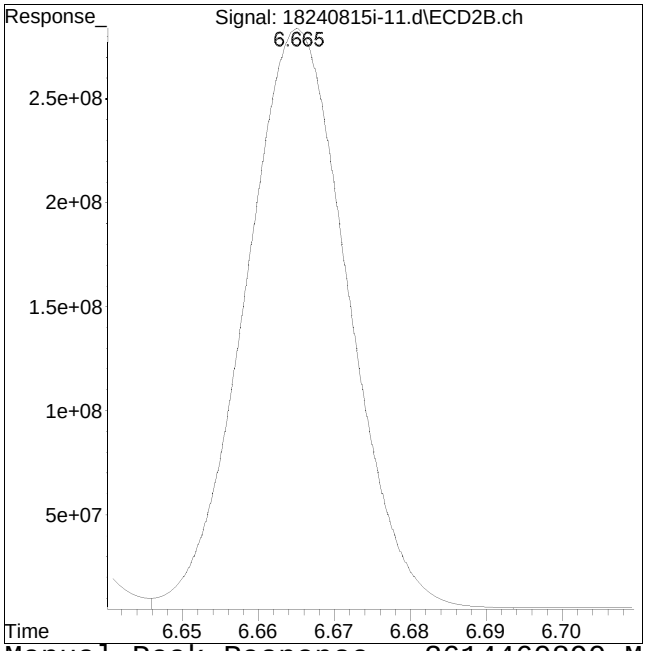
Original Peak Response = 4433869596 Manual Peak Response = 4355458642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #64: Endrin Ketone #2



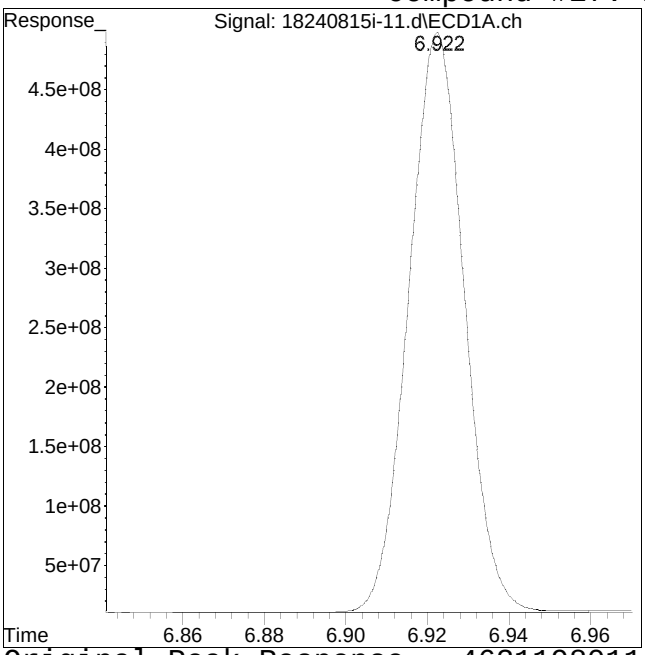


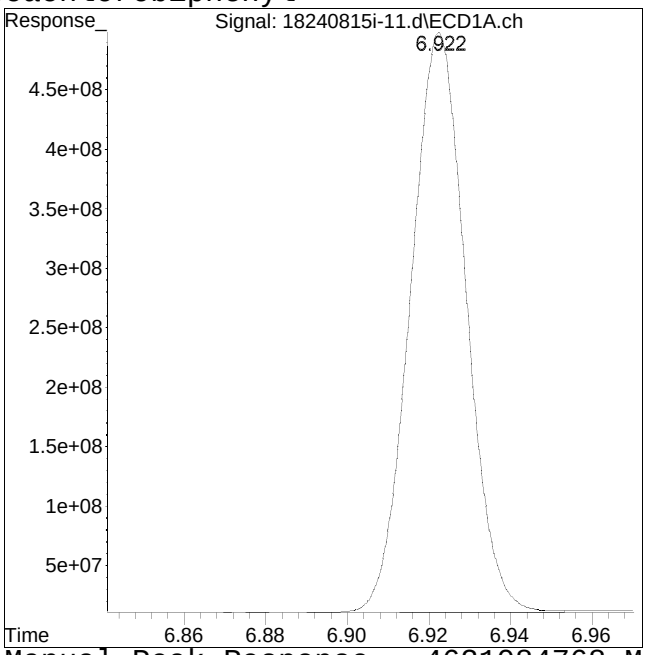
Original Peak Response = 2636328877 Manual Peak Response = 2614460890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-11.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:36 Instrument : Pest 18
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/16/2024 6:27 am

Compound #27: Decachlorobiphenyl





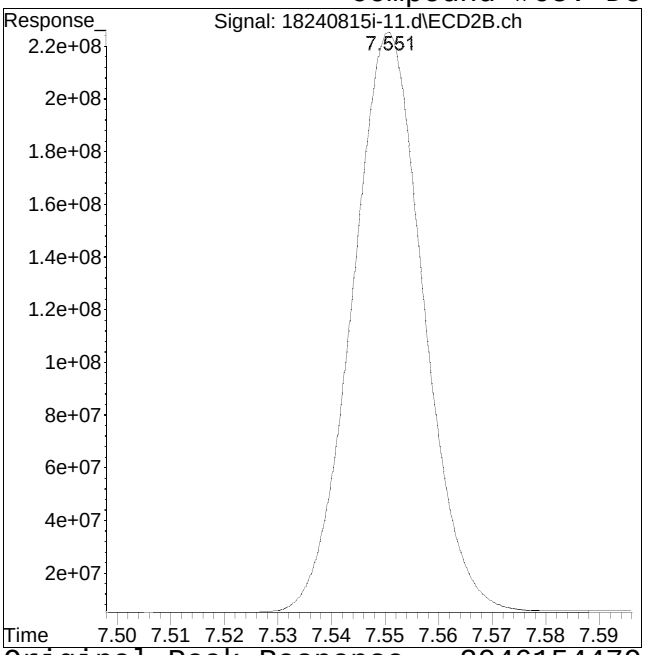
Original Peak Response = 4631198011 Manual Peak Response = 4621084768 M4
M4 = Poor automated baseline construction.

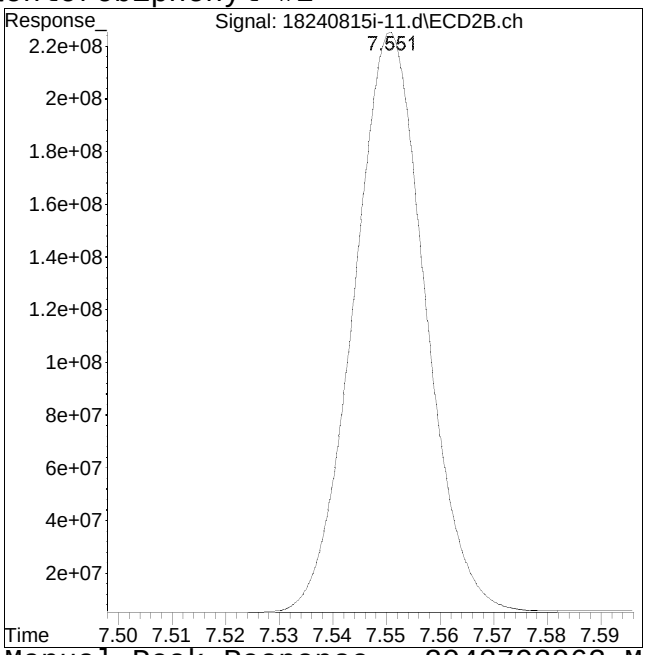
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-11.d
Date Inj'd : 8/15/2024 15:36
Sample : il10pest,42e,,pp 11679 L0.

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:27 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 2046154479 Manual Peak Response = 2043793963 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:48
Operator : PEST18:peg
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1961557,ical
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:57:21 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.683	1.784	552.7E6	339.1E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.118	2.340	9556.6E6	6138.8E6	388.556M3	401.096M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =	777.11%#	802.19%#	
27) s	Decachlorobi	6.922	7.548	10767.4E6	4867.2E6	420.508M4	424.116M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	841.02%#	848.23%#	
	Target Compounds						
3)	Hexachlorobe	2.358	2.684	11399.3E6	6374.6E6	399.096M3	407.749M4
4)	alpha-BHC	2.470	2.787	13945.5E6	9427.6E6	415.352M4	424.297M4
5)	gamma-BHC (l	2.689	3.083	12164.0E6	8336.9E6	408.193M3	422.021M4
6)	beta-BHC	2.752	3.156	5084.5E6	3474.6E6	398.318M4	410.821M4
7)	delta-BHC	2.885	3.426	12587.5E6	8610.1E6	412.657M4	427.175M4
8)	Heptachlor	3.054	3.484	10152.5E6	7032.2E6	381.488M4	407.042M4
9)	Aldrin	3.304	3.804	10786.5E6	7483.8E6	396.892M4	418.070M4
10)	Alachlor	3.441	3.699	1204.7E6	815.4E6	347.207M4	364.749M4
11)	Chlorpyrifos	3.536	4.055	4022.9E6	2759.7E6	363.292M4	378.417M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:48
Operator : PEST18:peg
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1961557,ical
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:57:21 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.424	9163.6E6	6635.9E6	387.279M3	411.934M4
13)		gamma-Chlord	3.988	4.646	9694.4E6	6557.1E6	411.668M4	431.657M4
14)		alpha-Chlord	4.125	4.821	10833.1E6	7219.3E6	410.886M3	429.527
15)		4,4'-DDE	4.231	5.035	11386.7E6	7407.2E6	415.583M4	428.532M4
16)		Endosulfan I	4.260	4.883	8888.0E6	6348.1E6	385.284M4	413.999M4
17)		Dieldrin	4.523	5.190	10059.8E6	6890.3E6	398.938M4	423.144M4
18)		Endrin	4.779	5.498	9802.5E6	6638.5E6	391.757M4	417.632M4
19)		4,4'-DDD	4.905	5.634	8610.8E6	5799.1E6	411.876M4	435.952M4
20)		Endosulfan I	5.032	5.706	8558.3E6	5712.4E6	386.050M4	409.614M4
21)		4,4'-DDT	5.210	5.918	9659.5E6	6245.3E6	411.554M4	432.120M4
22)		Endrin Aldeh	5.466	6.012	7528.3E6	4975.6E6	396.439M4	422.366M4
23)		Methoxychlor	5.718	6.498	4324.0E6	2830.5E6	370.190M4	400.533M4
24)		Mirex	5.764	6.625	7660.1E6	4618.9E6	412.130M3	428.408M4
25)		Endosulfan S	5.869	6.246	8945.3E6	5669.6E6	397.525M3	423.051M4
26)		Endrin Keton	6.099	6.665	9107.3E6	5992.6E6	377.876M4	415.710M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:48
Operator : PEST18:peg
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1961557,ical
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:57:21 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

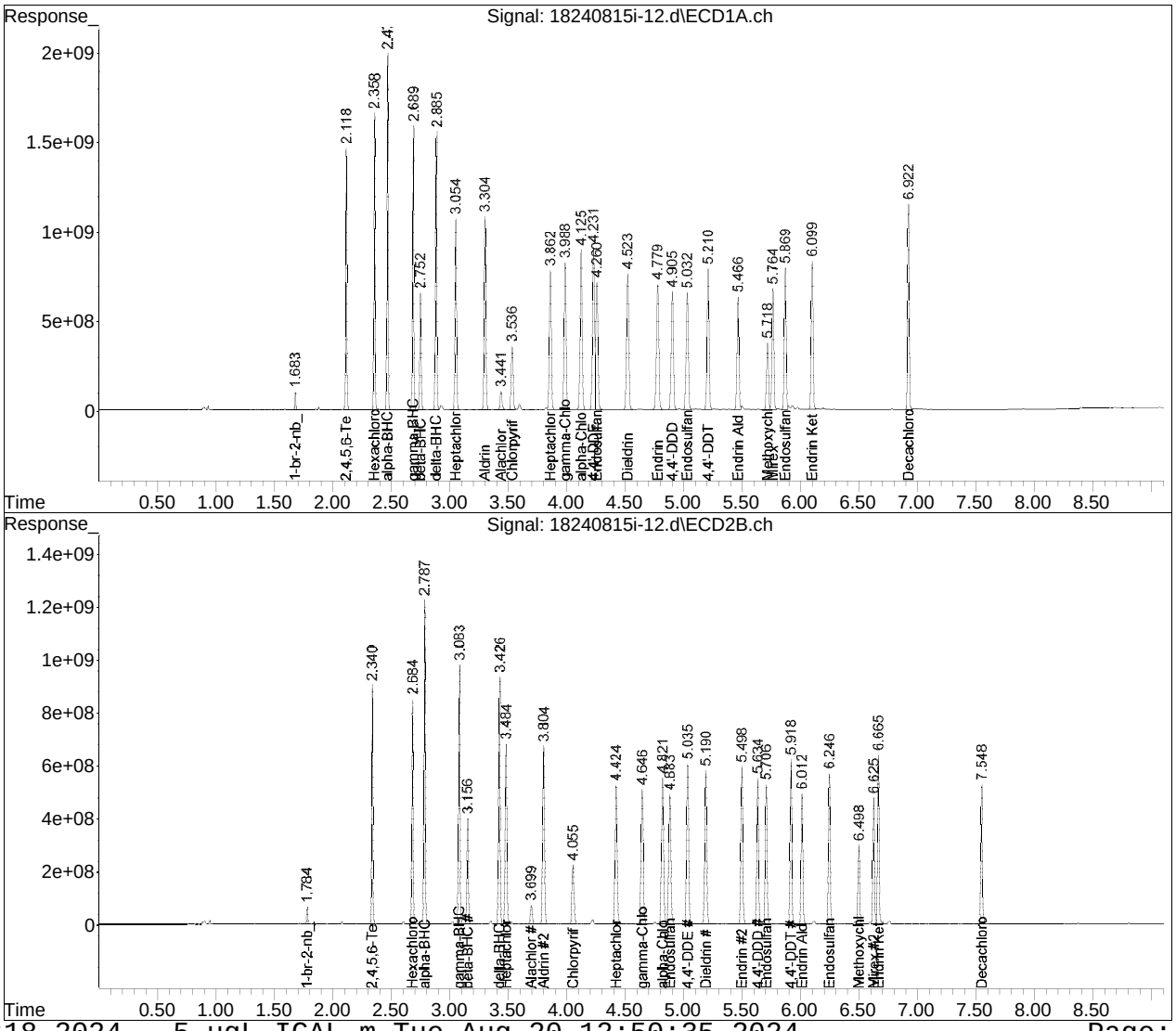
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:48
Operator : PEST18:peg
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1961557,ical
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 06:57:21 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 06:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

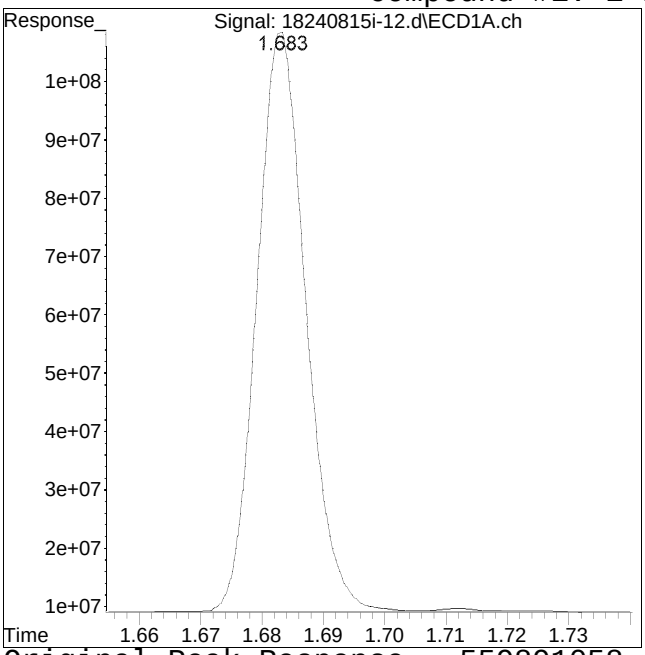


Manual Integration Report

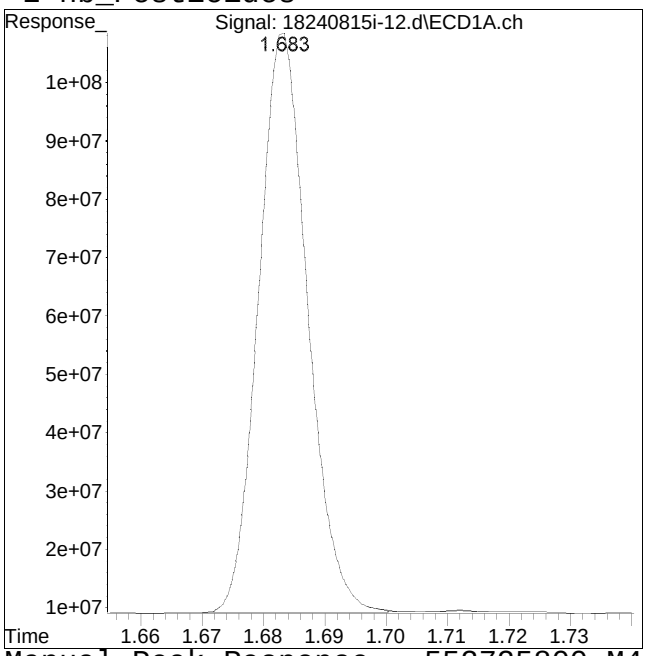
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 559891058



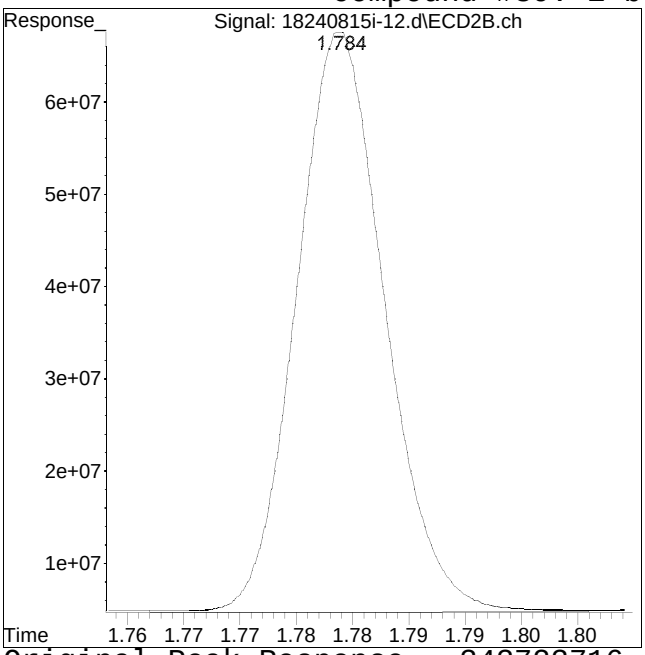
Manual Peak Response = 552725800 M4

M4 = Poor automated baseline construction.

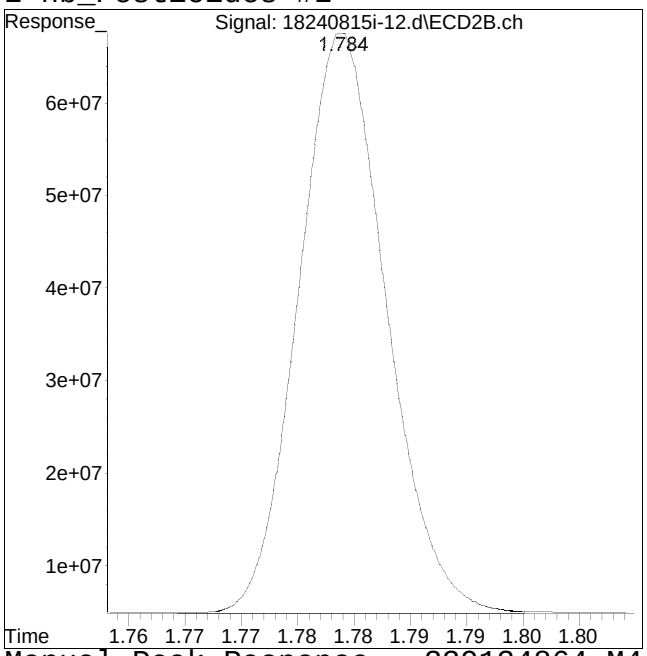
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 343723716



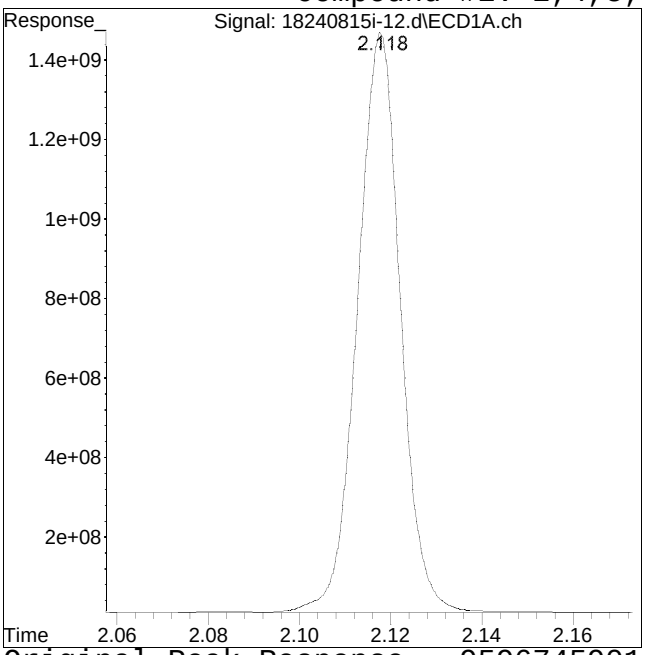
Manual Peak Response = 339134864 M4

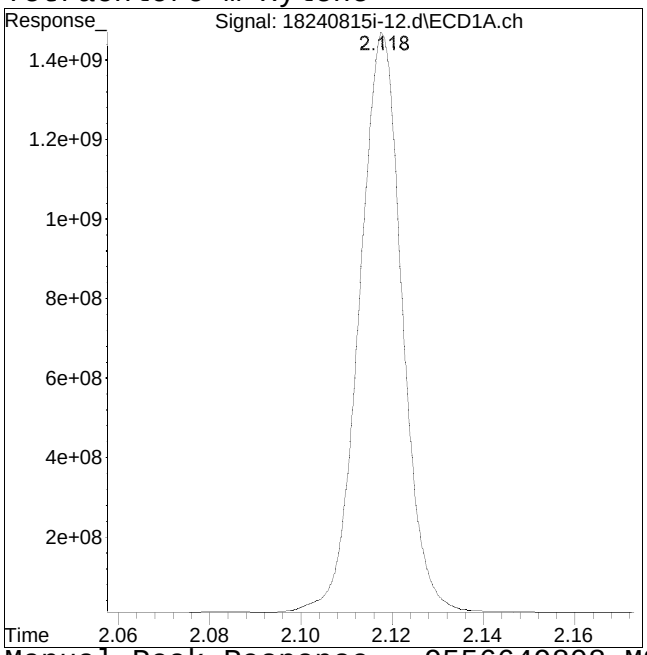
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



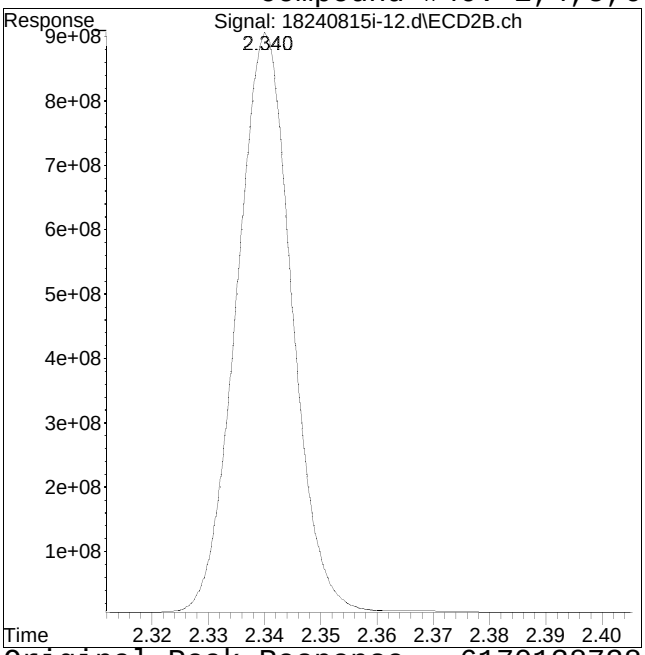


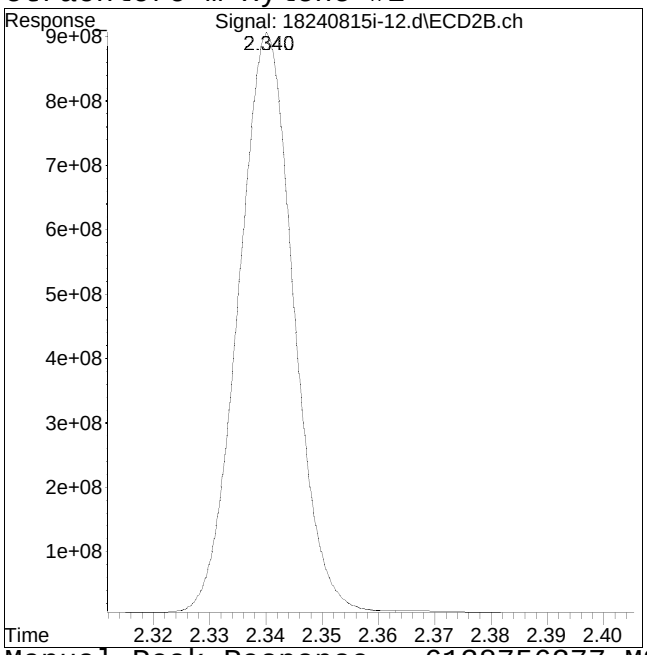
Original Peak Response = 9596745901 Manual Peak Response = 9556649808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



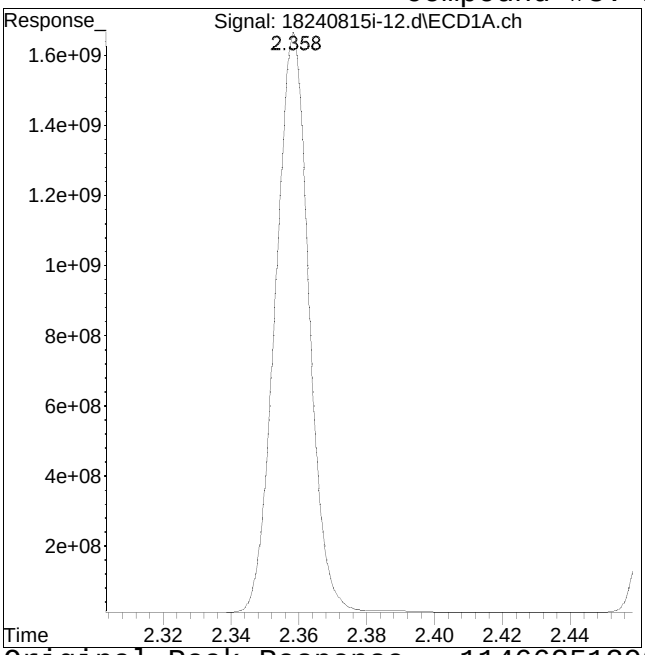


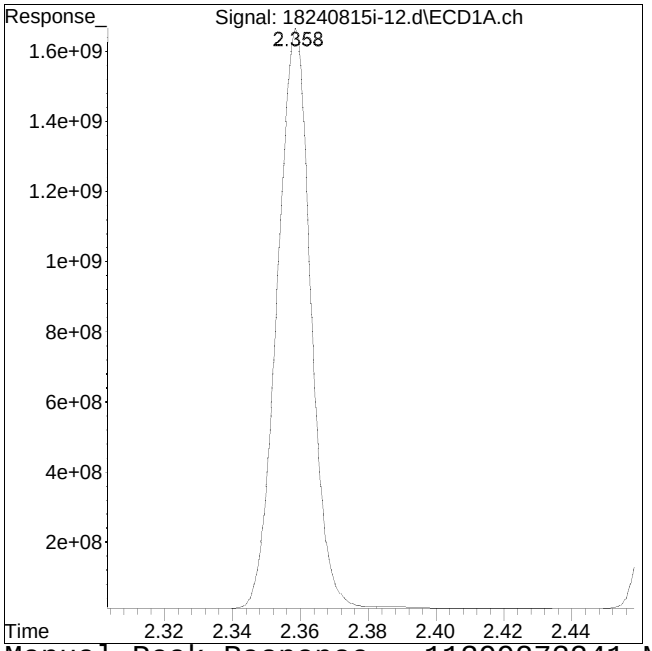
Original Peak Response = 6170138738 Manual Peak Response = 6138756377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #3: Hexachlorobenzene



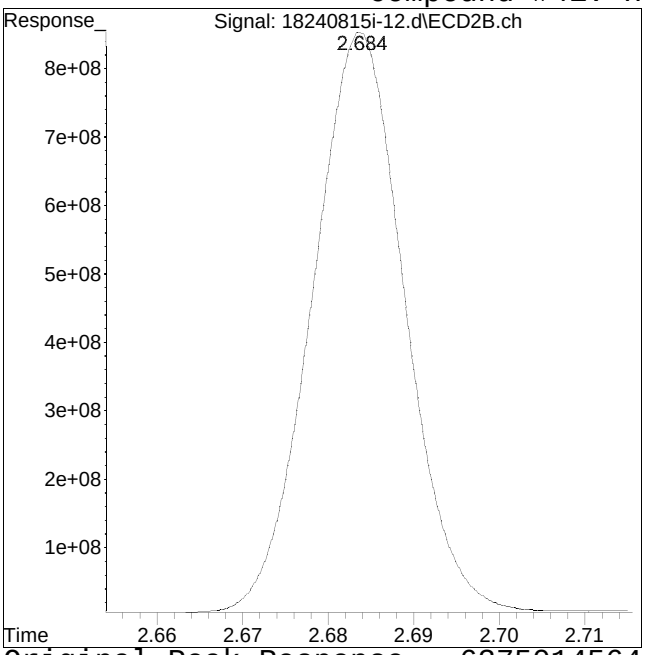


Original Peak Response = 11466251290 Manual Peak Response = 11399273241 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

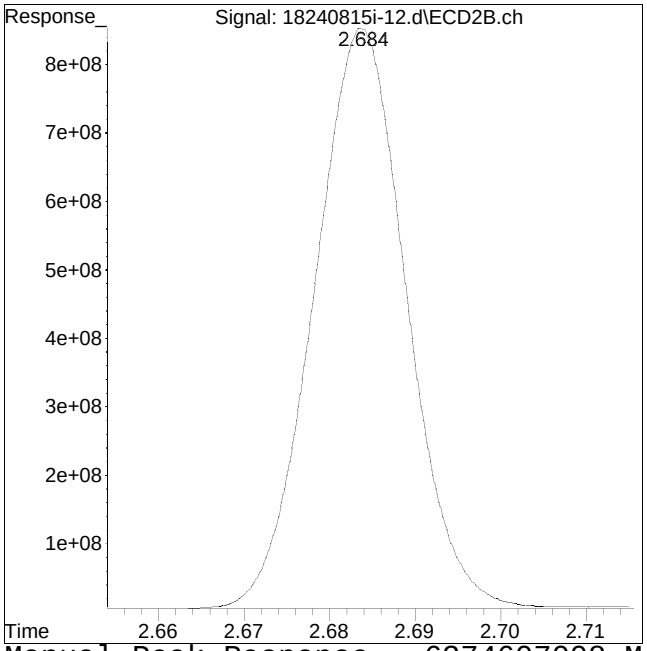
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 6375014564



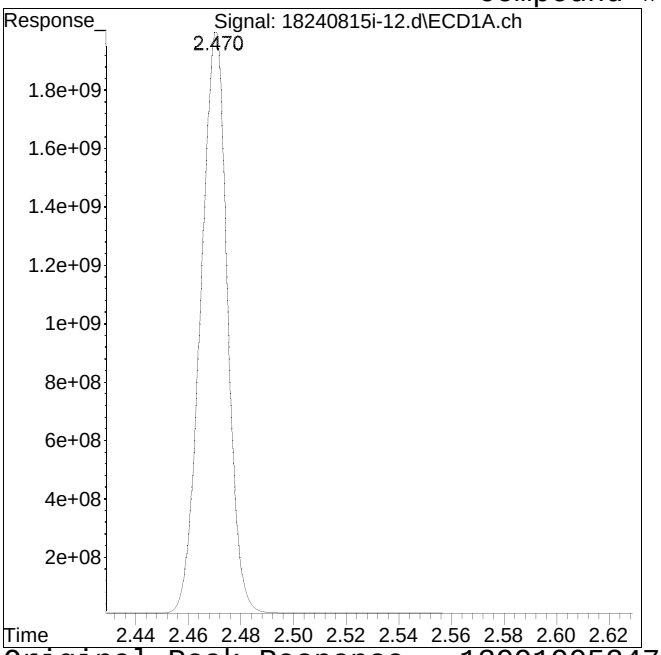
Manual Peak Response = 6374607008 M4

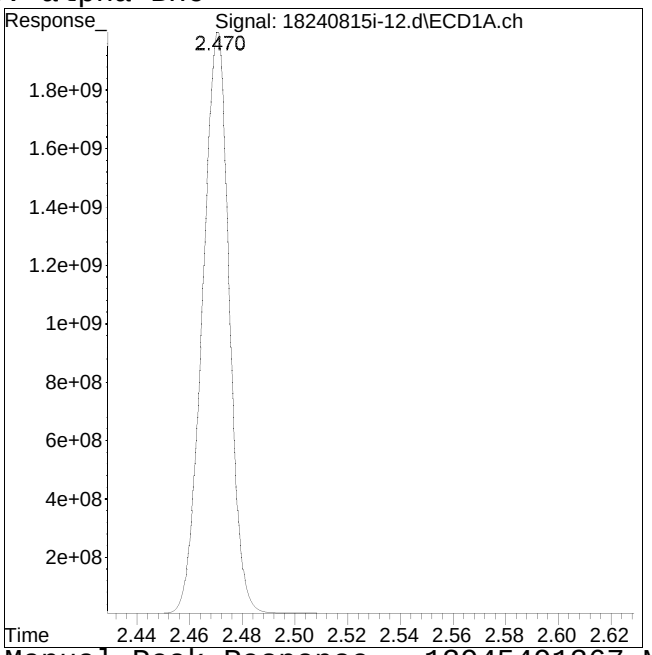
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #4: alpha-BHC



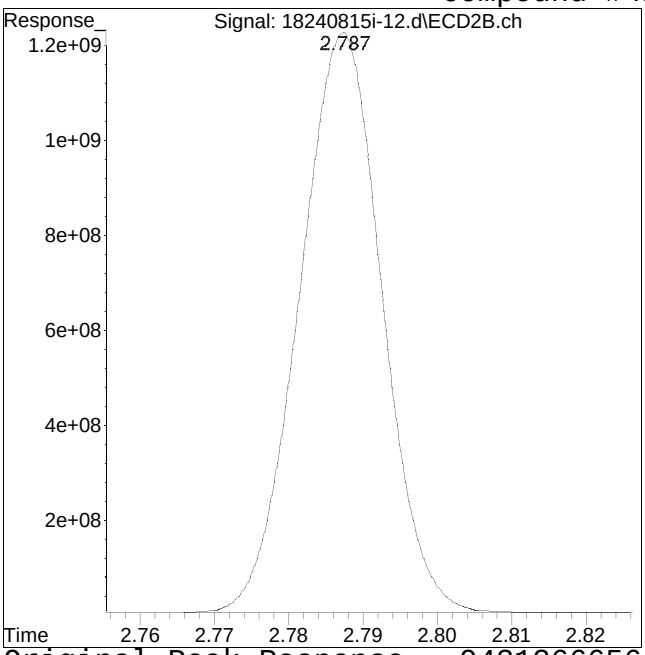


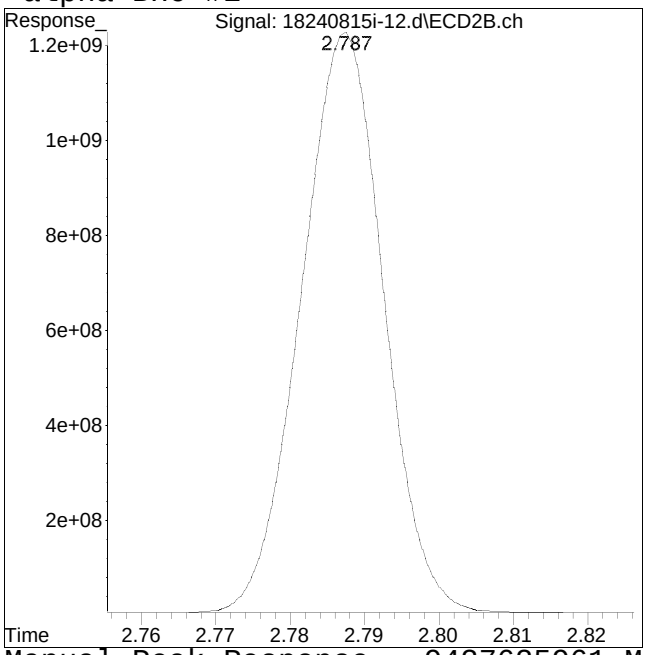
Original Peak Response = 13991995247 Manual Peak Response = 13945491367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #42: alpha-BHC #2



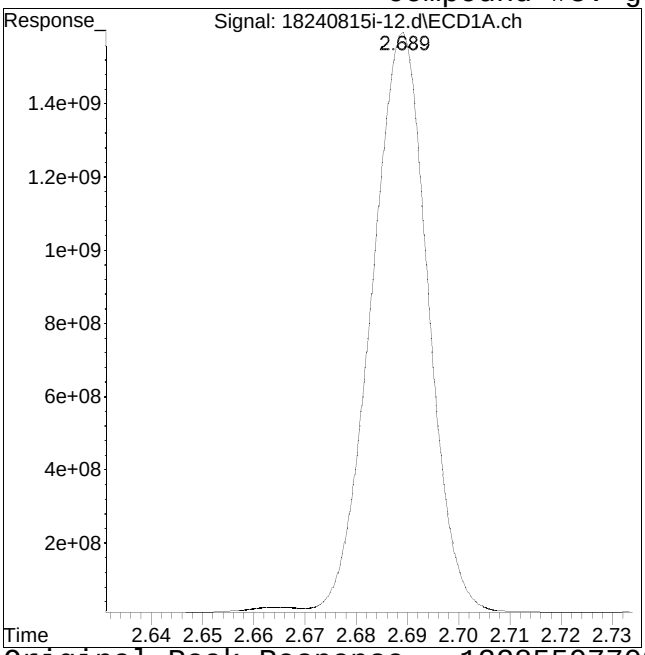


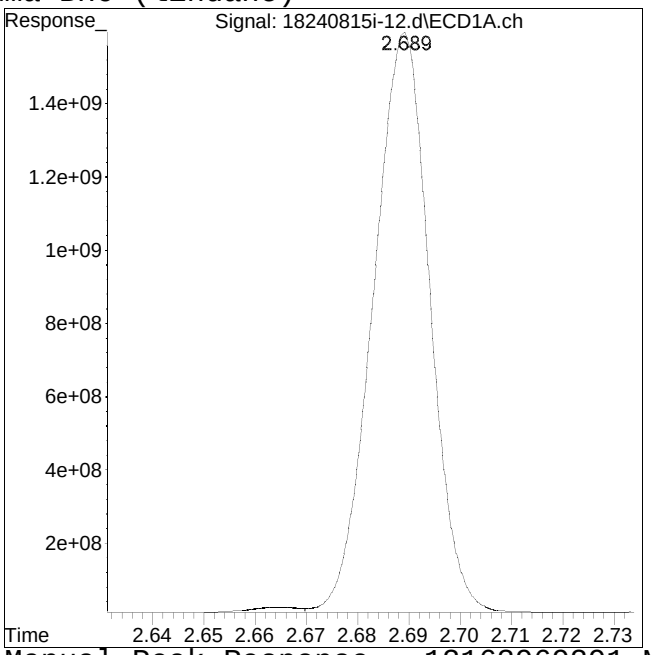
Original Peak Response = 9431266656 Manual Peak Response = 9427625961 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #5: gamma-BHC (lindane)



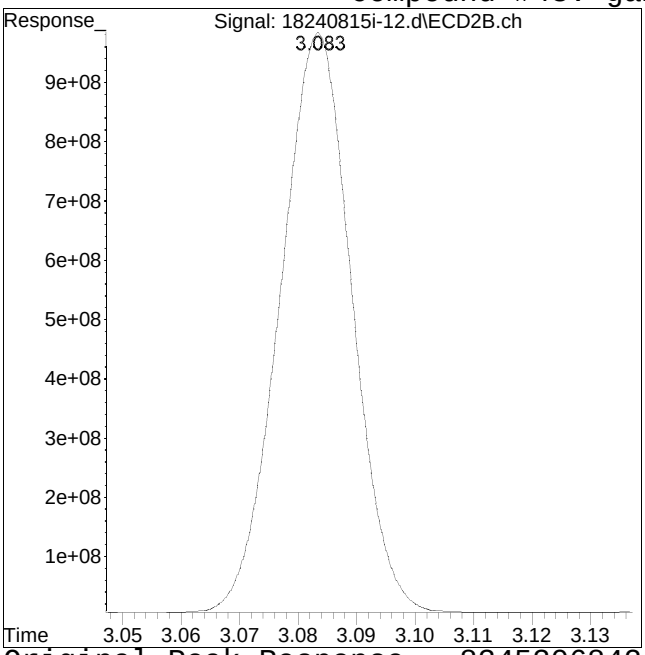


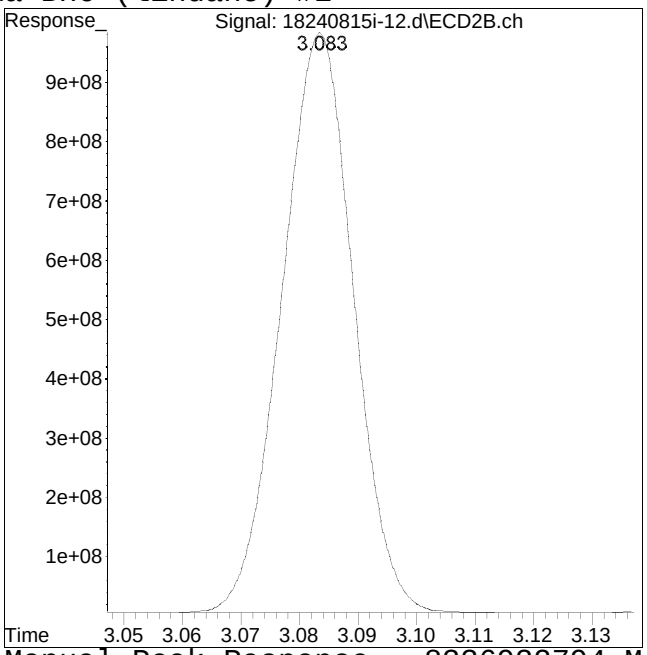
Original Peak Response = 12285597703 Manual Peak Response = 12163969291 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #43: gamma-BHC (lindane) #2



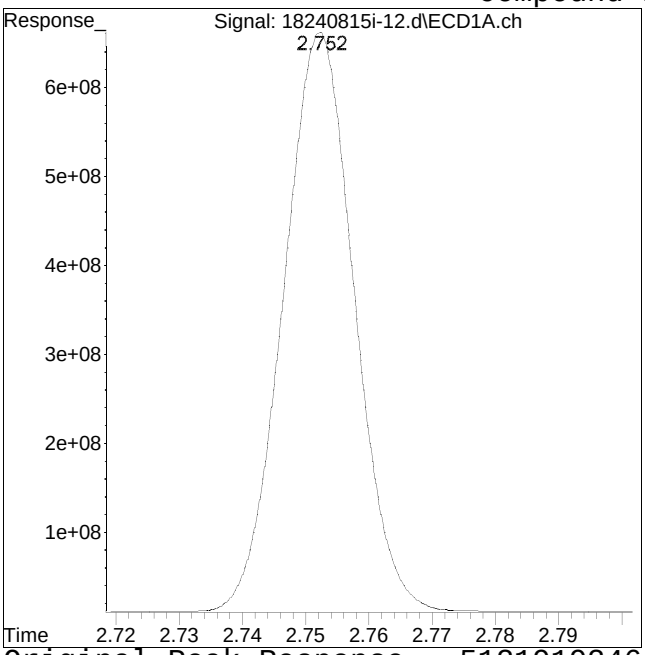


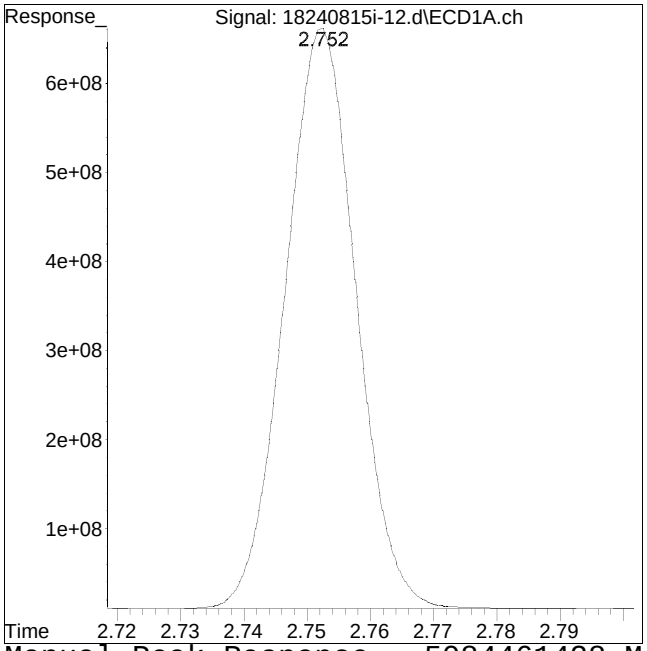
Original Peak Response = 8345306842 Manual Peak Response = 8336932794 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #6: beta-BHC



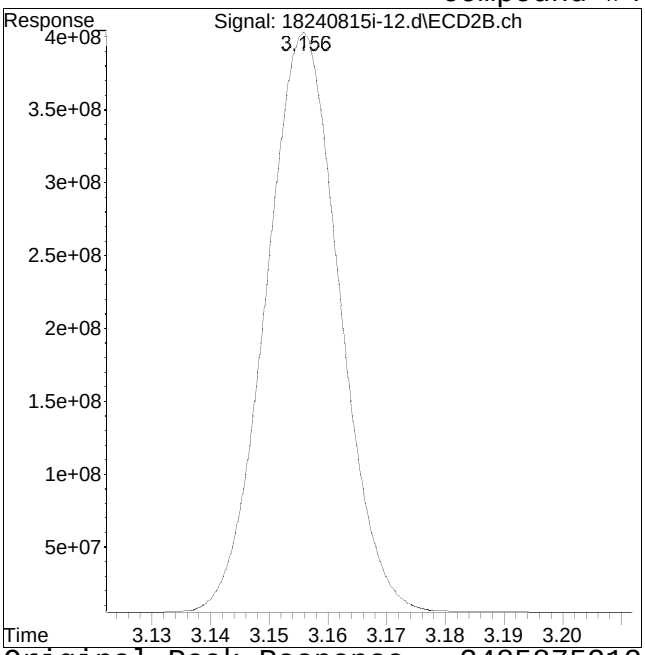


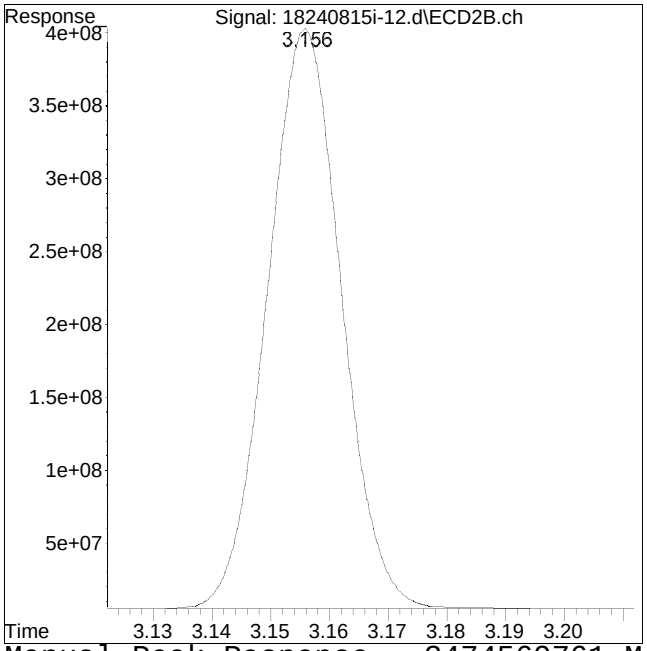
Original Peak Response = 5121919246 Manual Peak Response = 5084461428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #44: beta-BHC #2



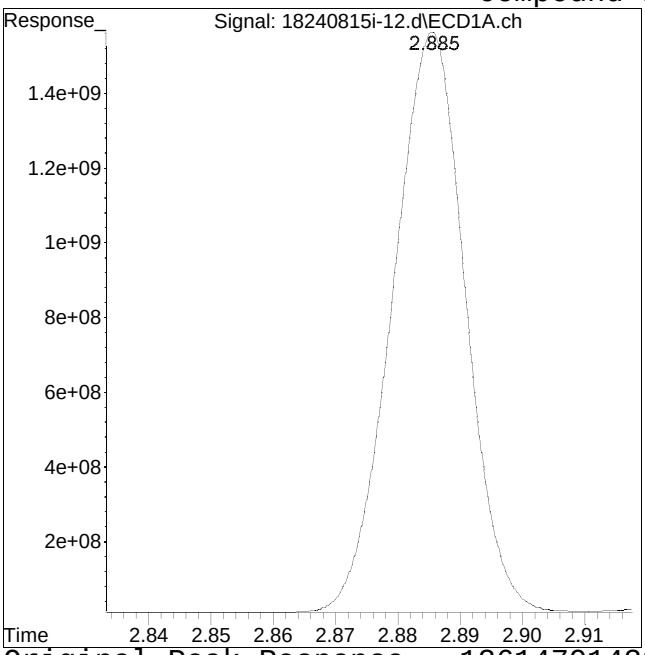


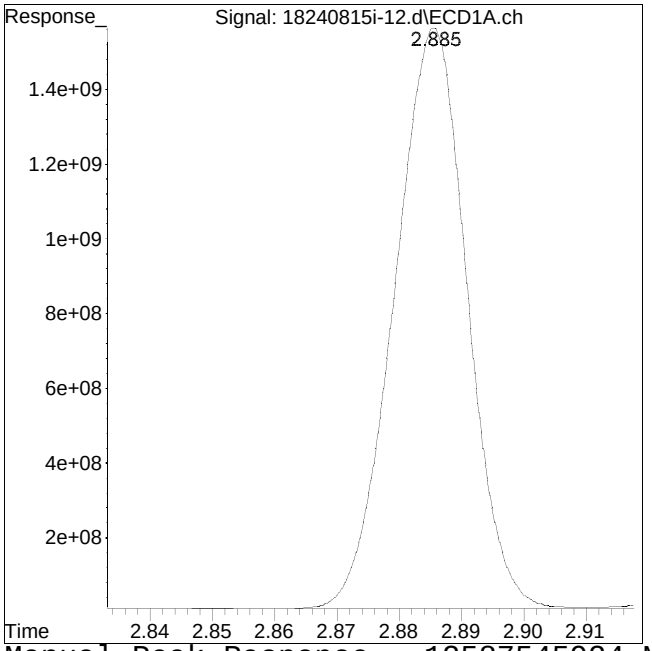
Original Peak Response = 3485875212 Manual Peak Response = 3474569761 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #7: delta-BHC



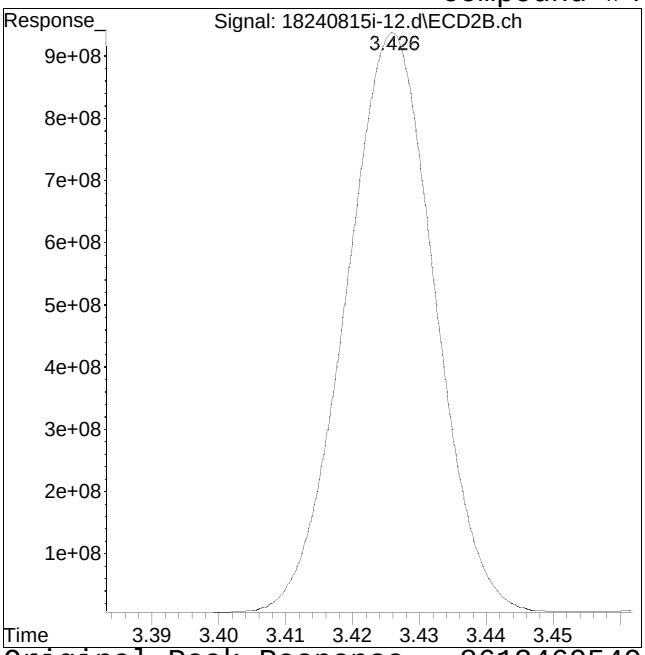


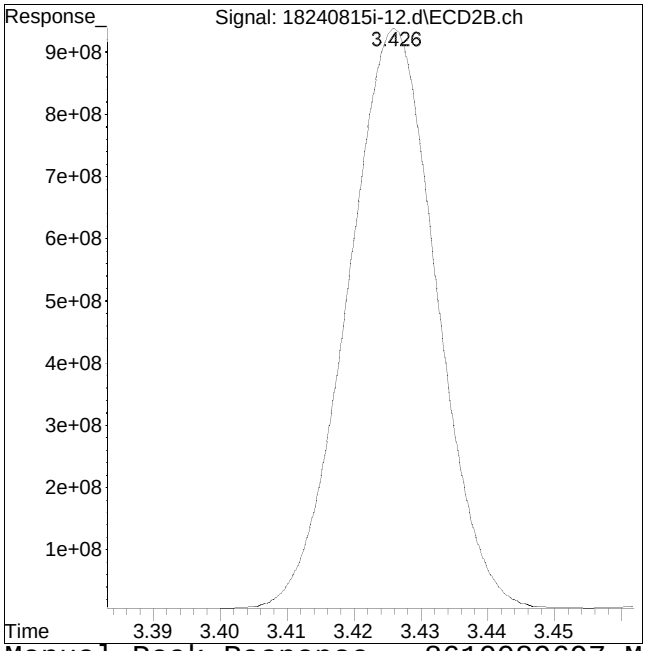
Original Peak Response = 12614791438 Manual Peak Response = 12587545924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #45: delta-BHC #2



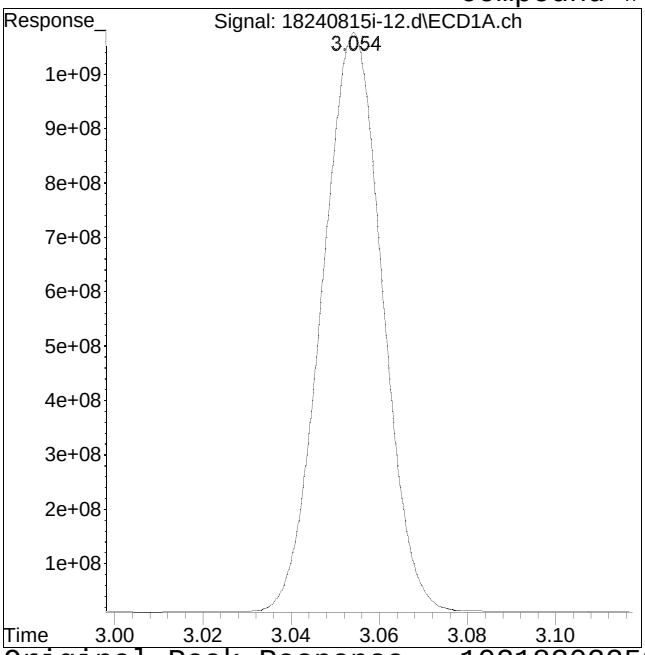


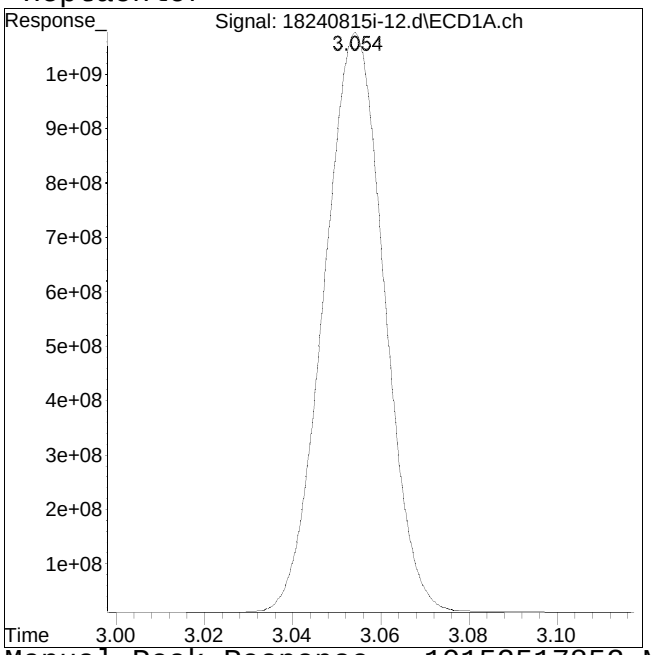
Original Peak Response = 8613469549 Manual Peak Response = 8610089697 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #8: Heptachlor



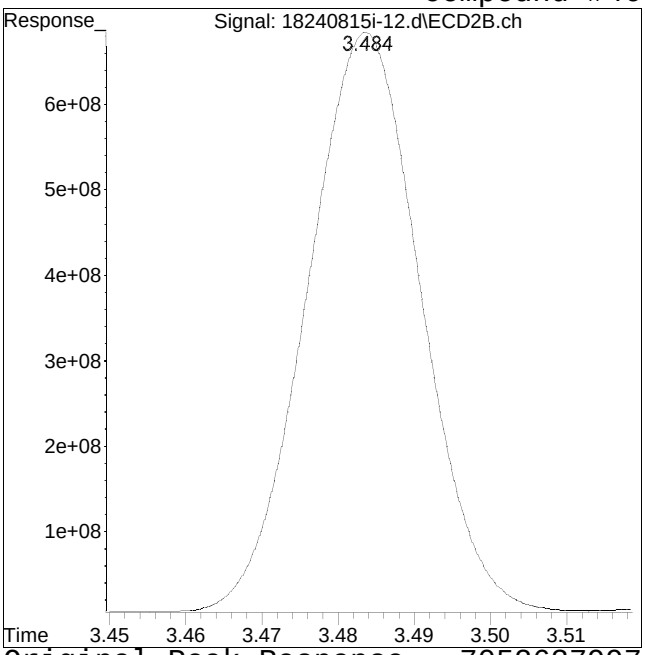


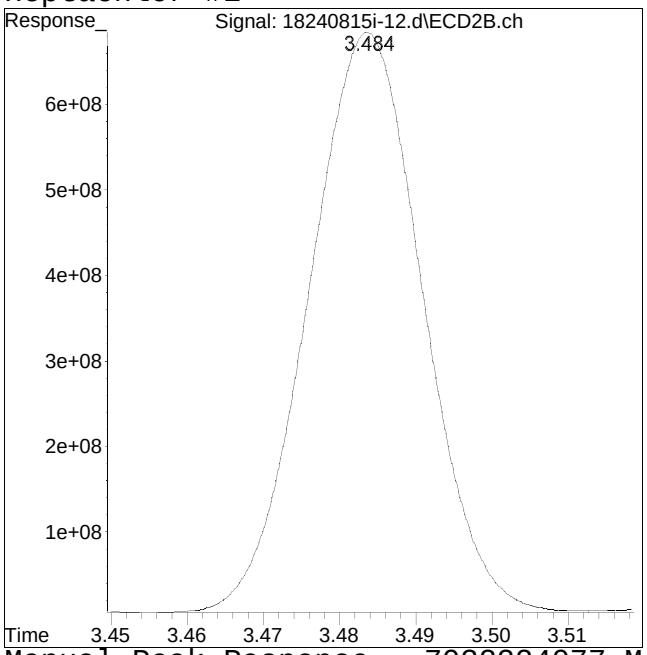
Original Peak Response = 10218302253 Manual Peak Response = 10152517852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #46: Heptachlor #2



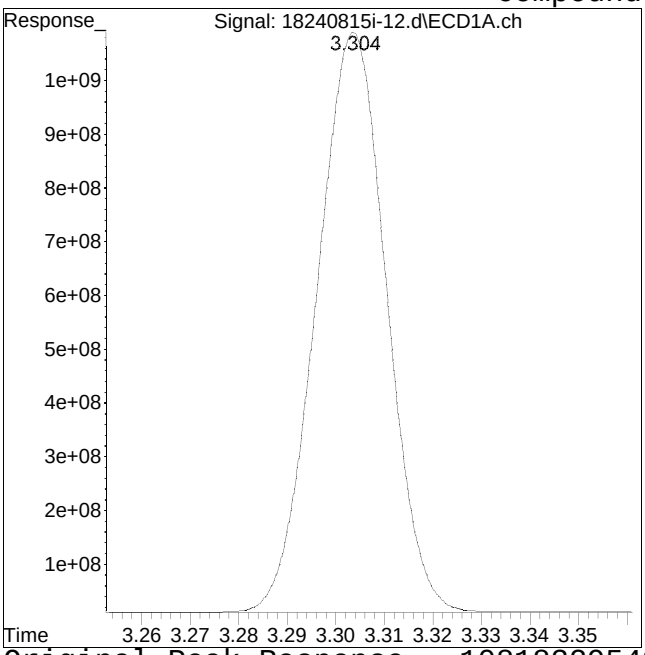


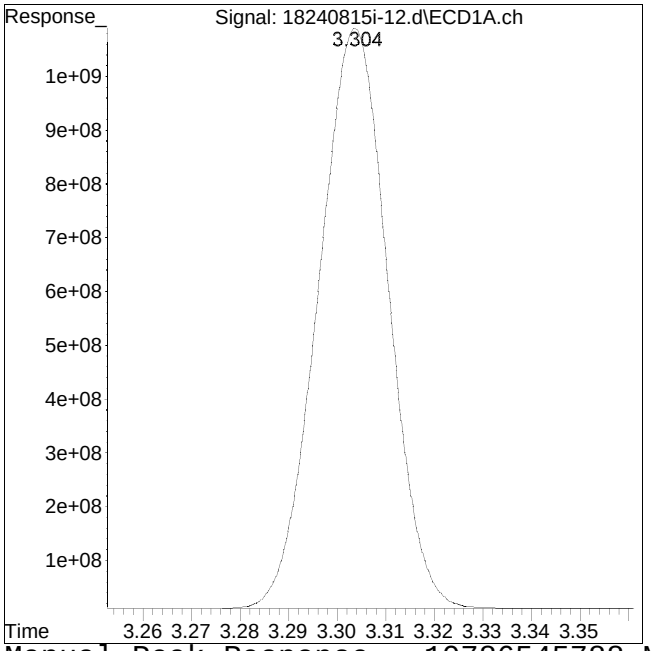
Original Peak Response = 7052637997 Manual Peak Response = 7032224077 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #9: Aldrin



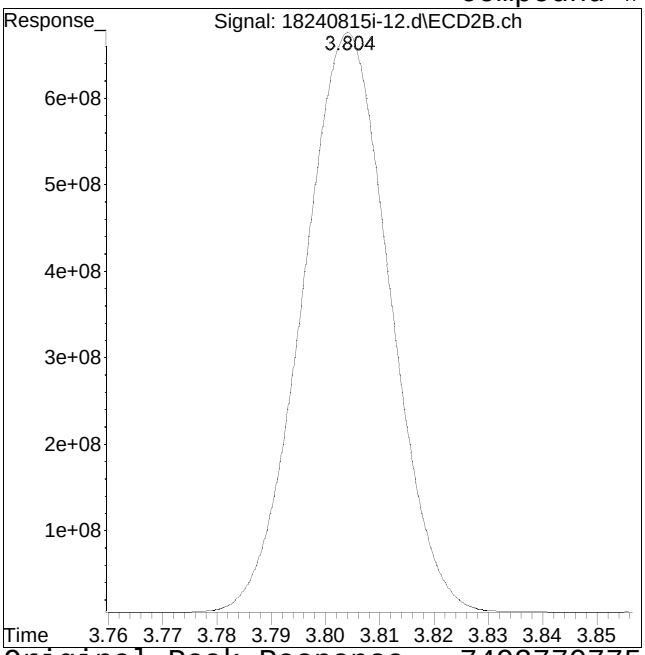


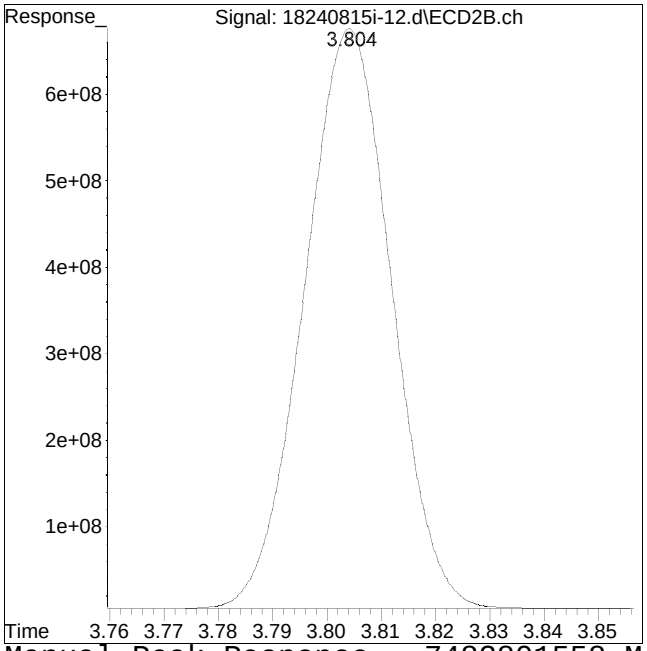
Original Peak Response = 10818329549 Manual Peak Response = 10786545788 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #47: Aldrin #2



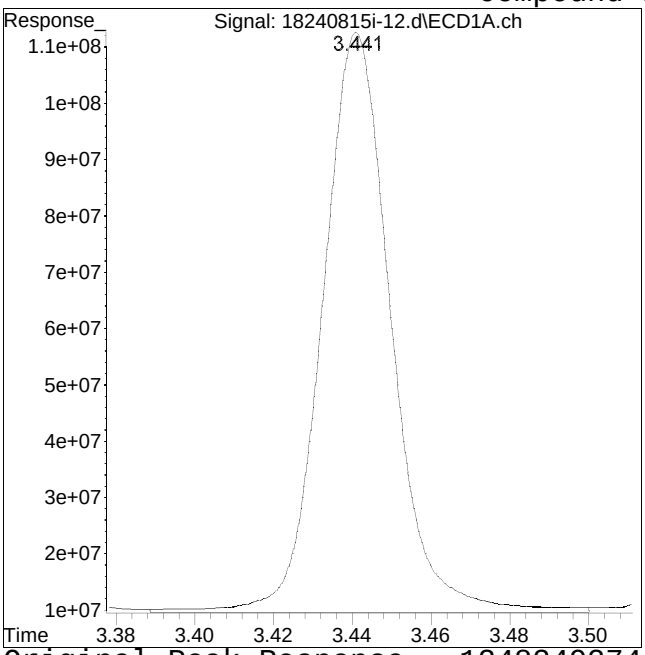


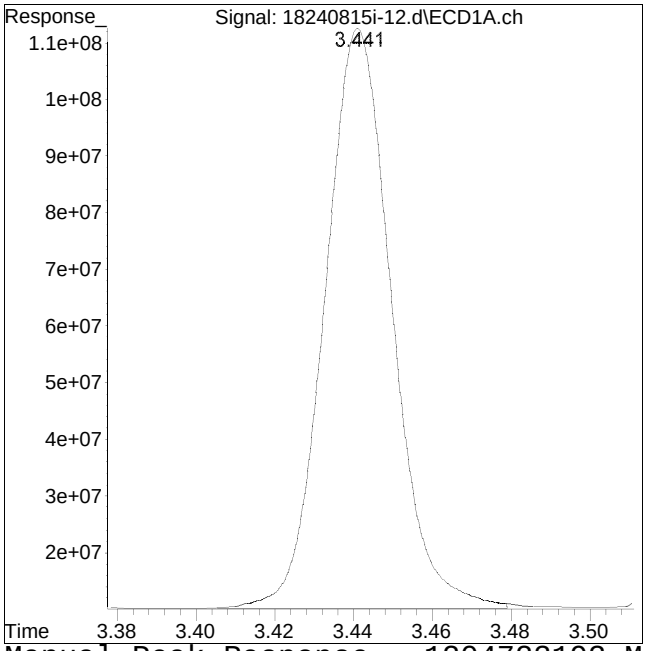
Original Peak Response = 7493779775 Manual Peak Response = 7483801558 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #10: Alachlor



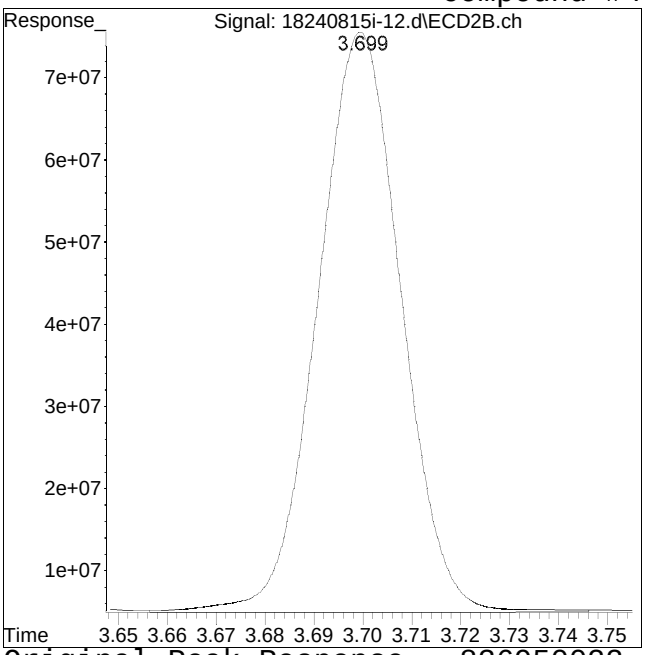


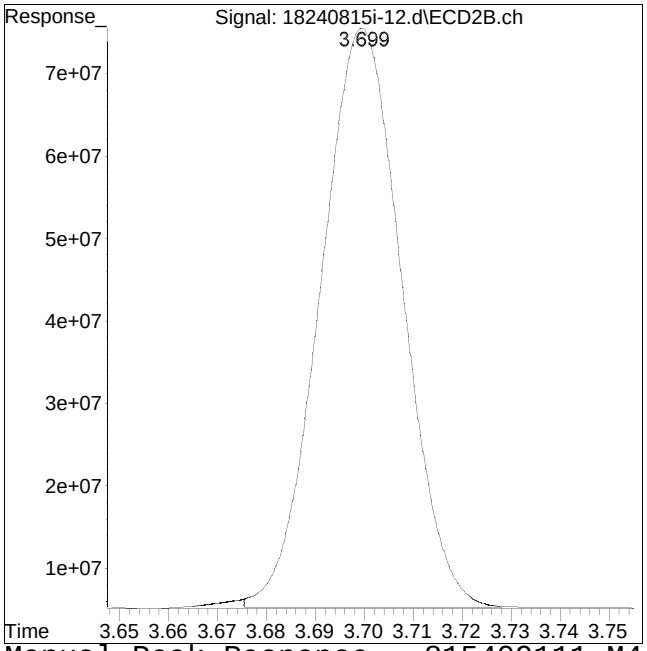
Original Peak Response = 1248249274 Manual Peak Response = 1204723193 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #48: Alachlor #2



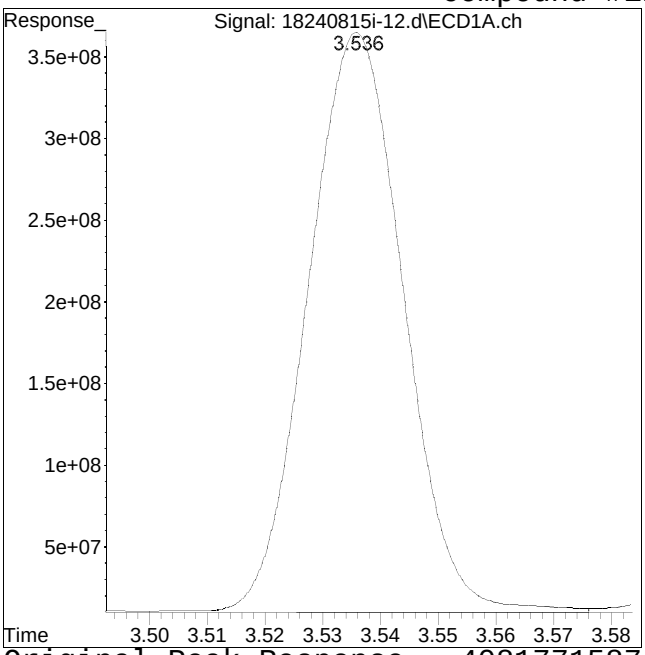


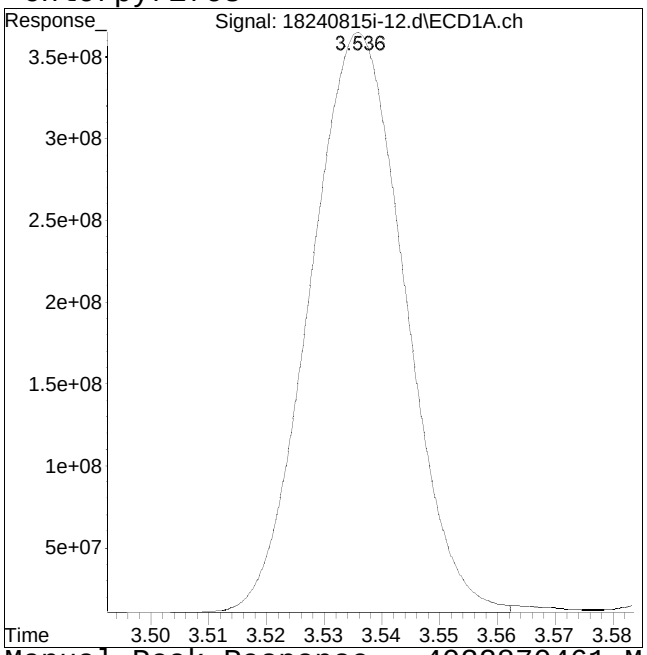
Original Peak Response = 836950022 Manual Peak Response = 815409111 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #11: Chlorpyrifos



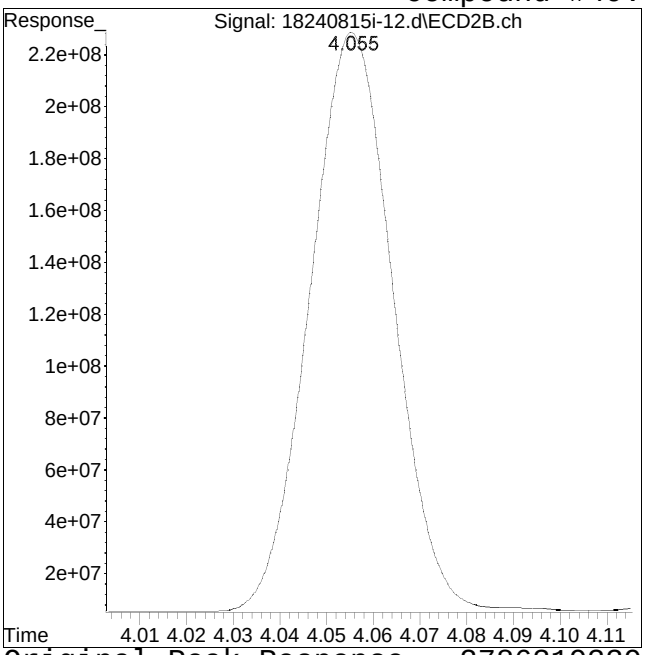


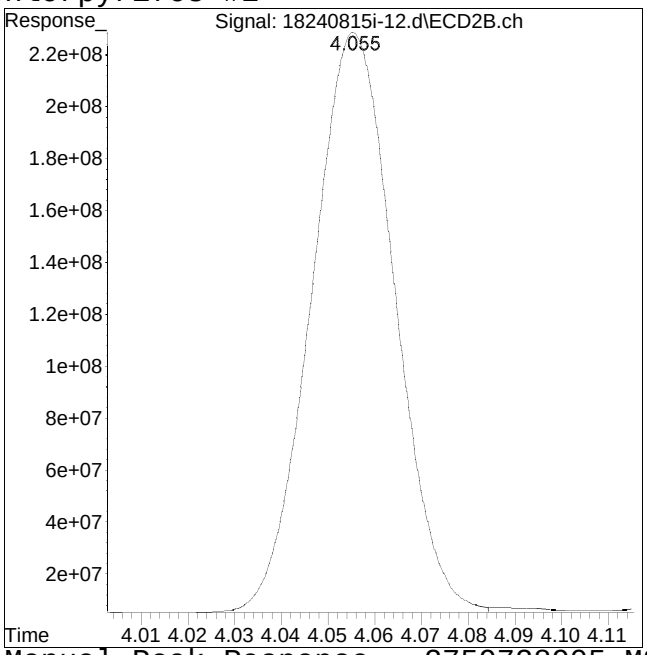
Original Peak Response = 4081771587 Manual Peak Response = 4022870461 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #49: Chlorpyrifos #2



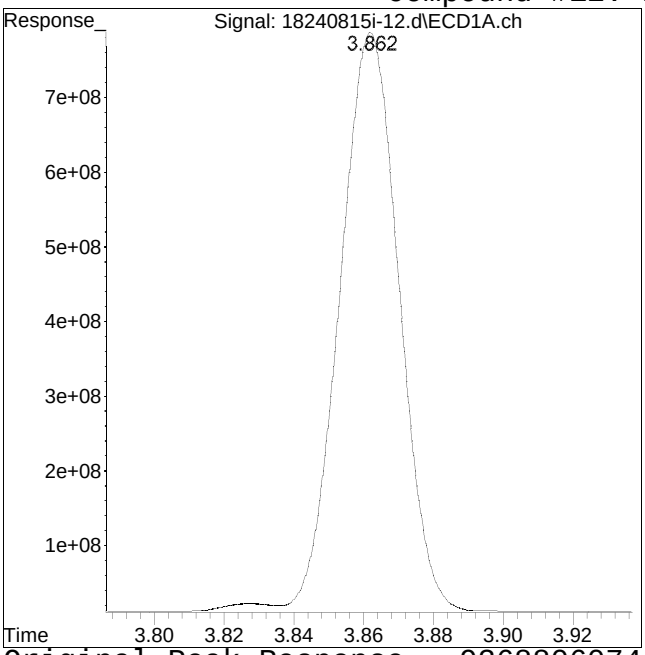


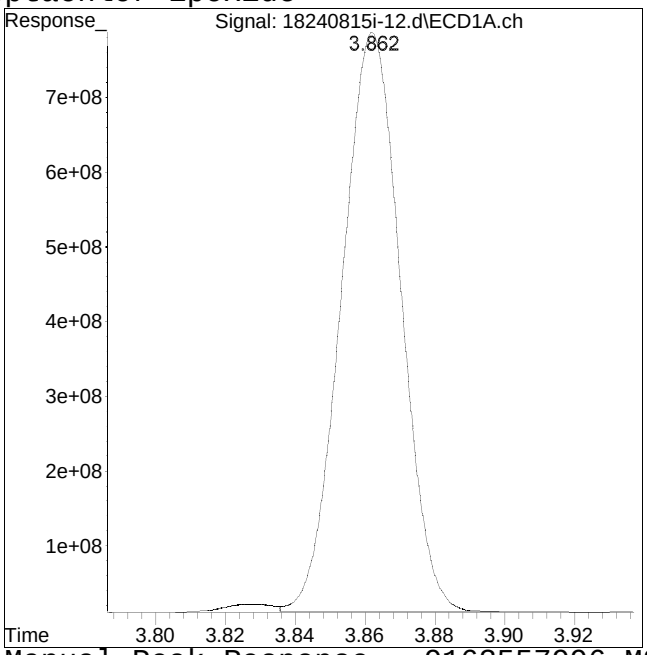
Original Peak Response = 2786319339 Manual Peak Response = 2759728905 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #12: Heptachlor Epoxide



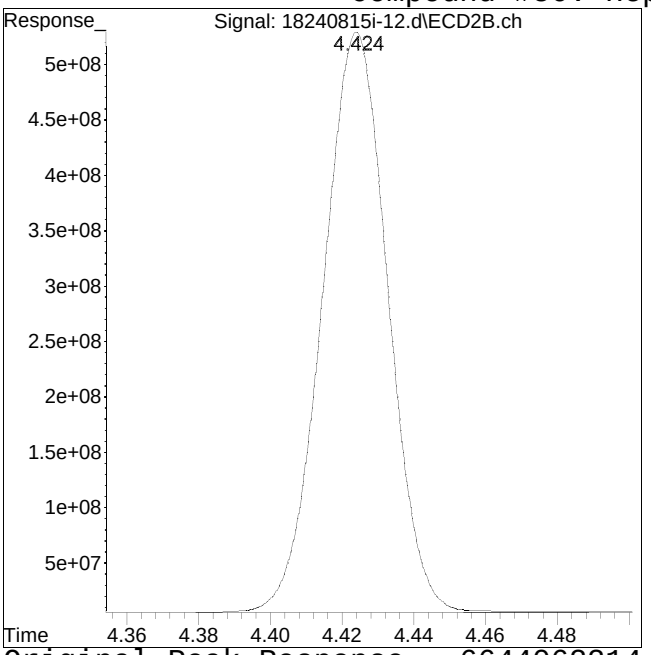


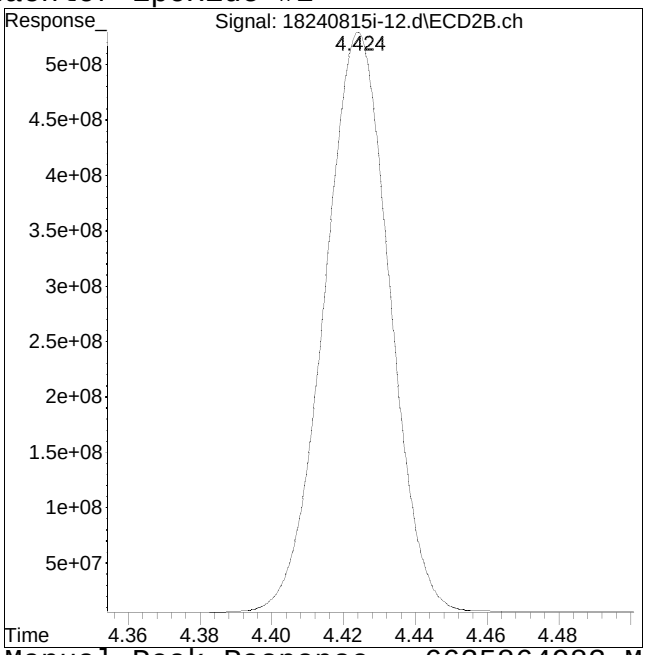
Original Peak Response = 9368806074 Manual Peak Response = 9163557996 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #50: Heptachlor Epoxide #2



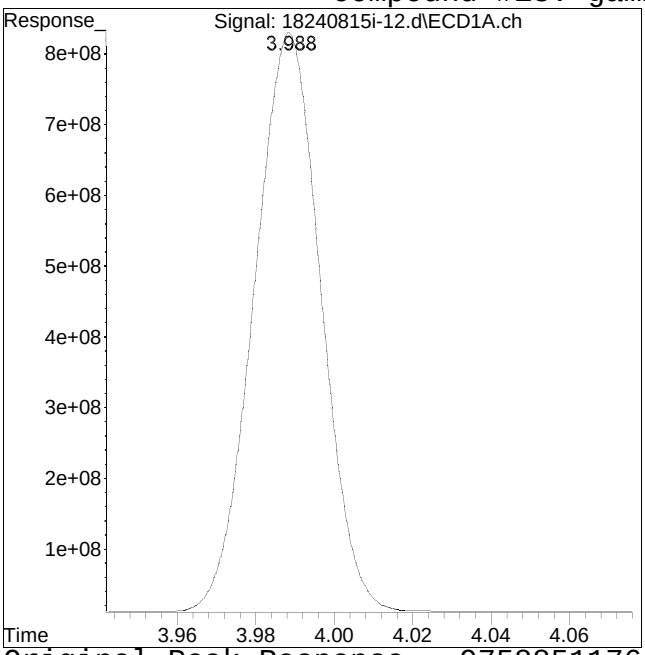


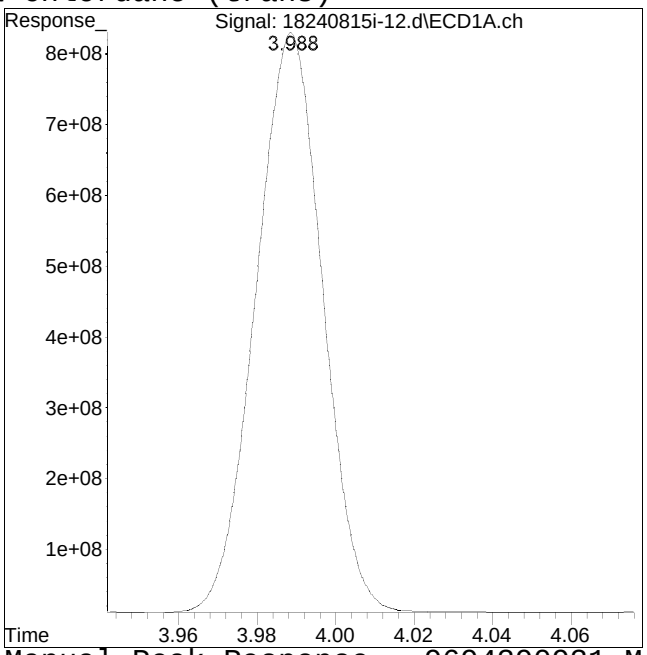
Original Peak Response = 6644062214 Manual Peak Response = 6635864983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #13: gamma-Chlordane (trans)



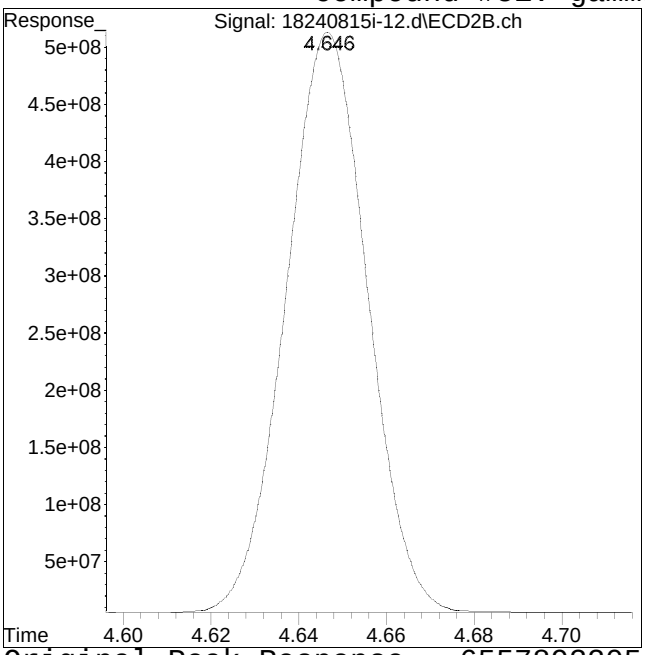


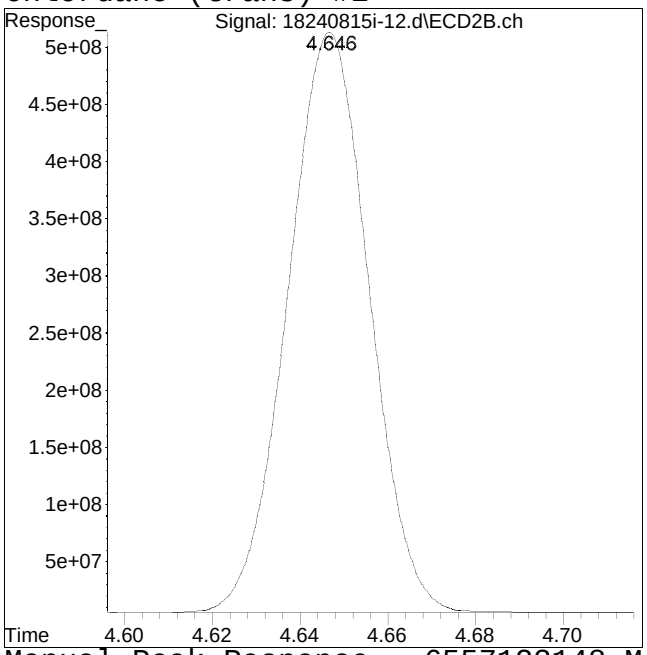
Original Peak Response = 9758851176 Manual Peak Response = 9694390931 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #51: gamma-Chlordane (trans) #2



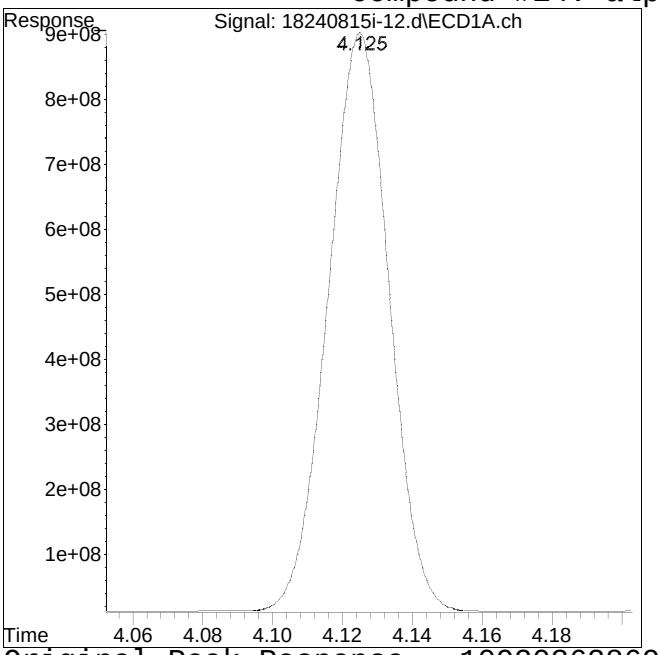


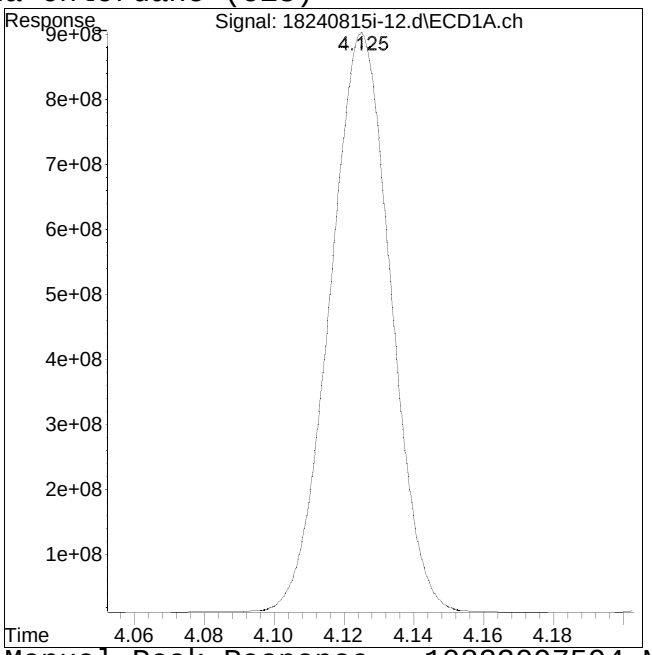
Original Peak Response = 6557893205 Manual Peak Response = 6557123148 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #14: alpha-Chlordane (cis)



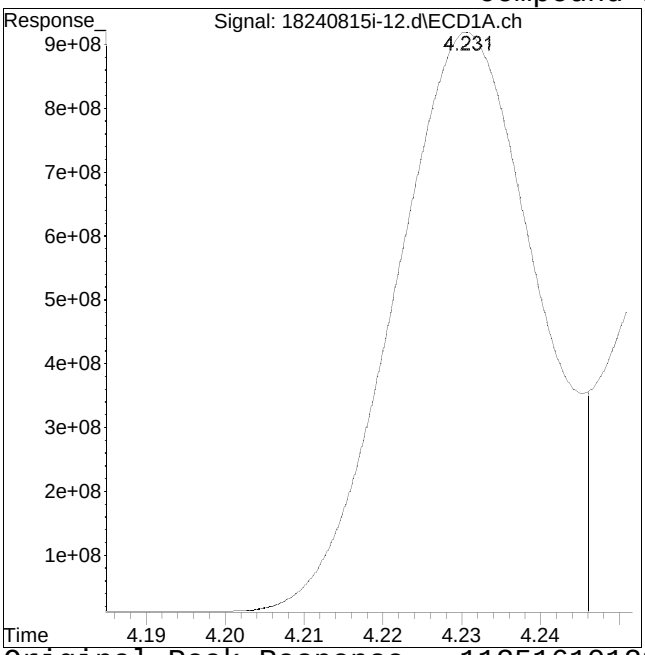


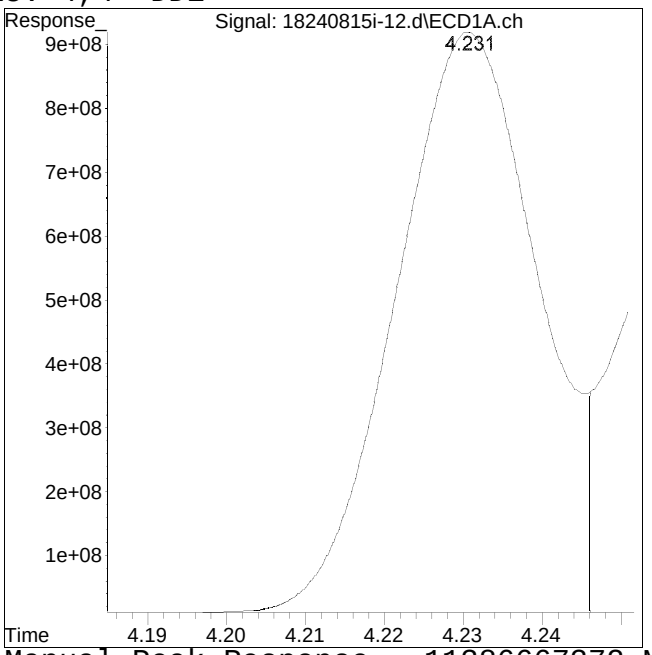
Original Peak Response = 10920362869 Manual Peak Response = 10833097594 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #15: 4,4'-DDE



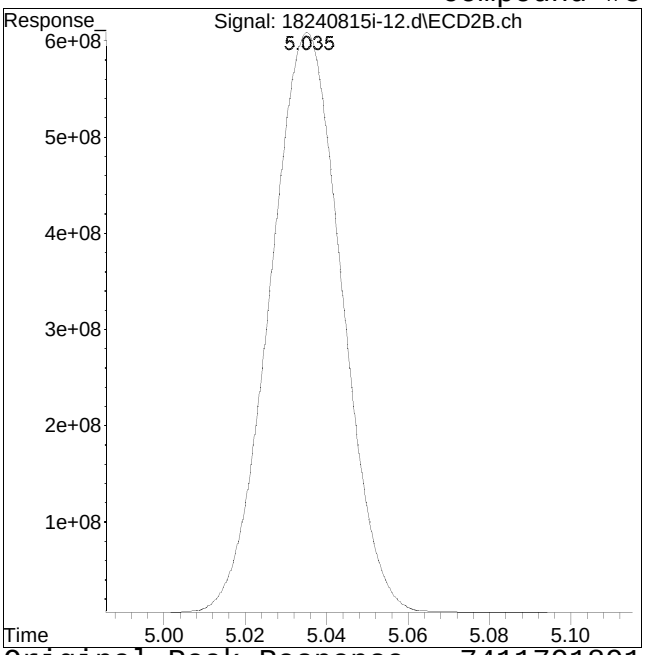


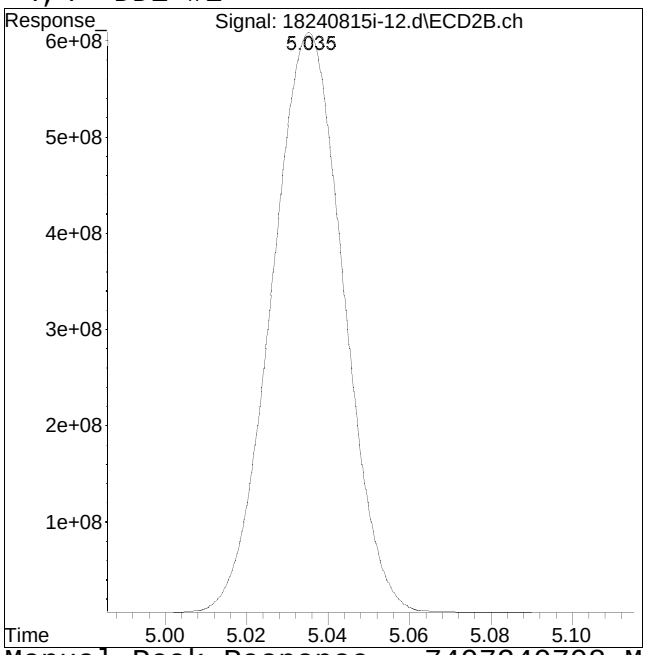
Original Peak Response = 11251610121 Manual Peak Response = 11386667372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #53: 4,4'-DDE #2



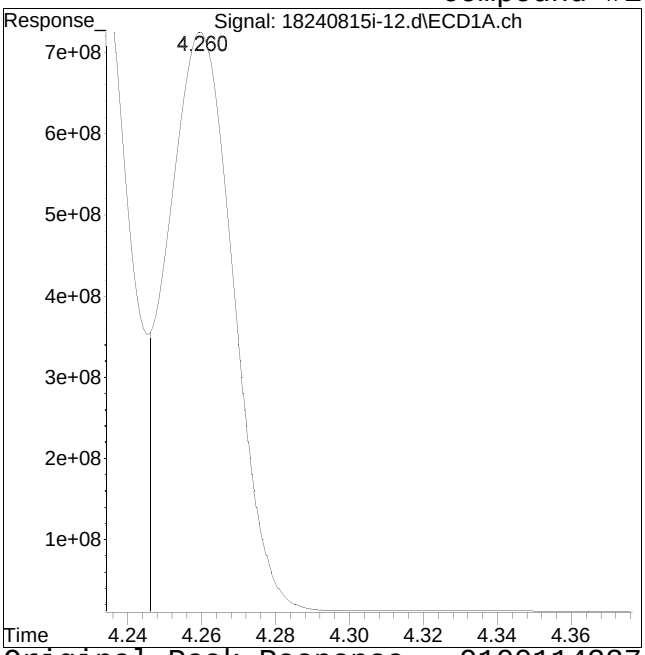


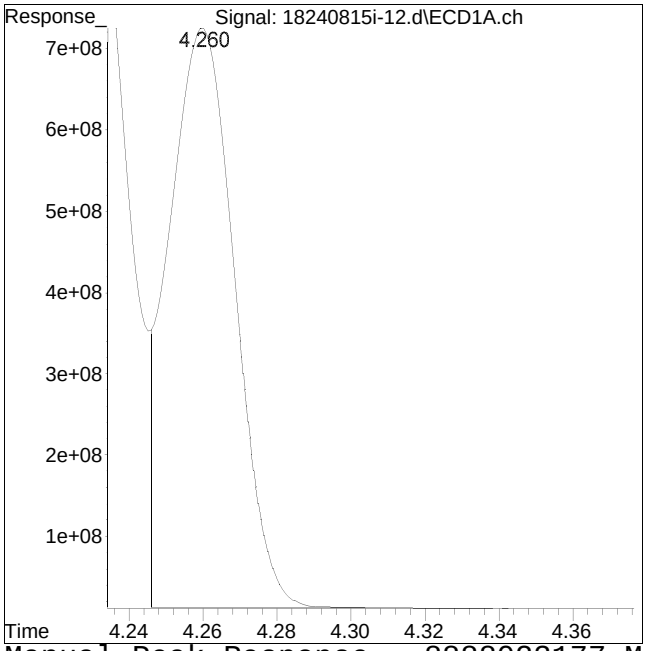
Original Peak Response = 7411791891 Manual Peak Response = 7407240708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #16: Endosulfan I



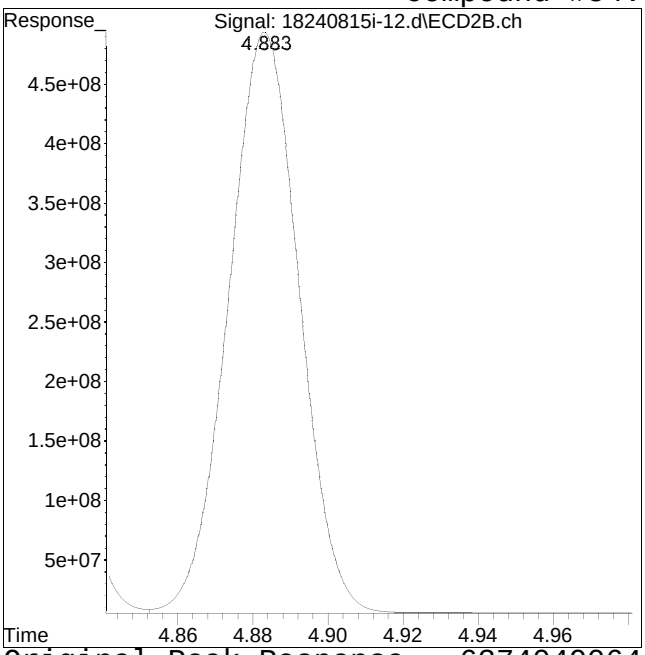


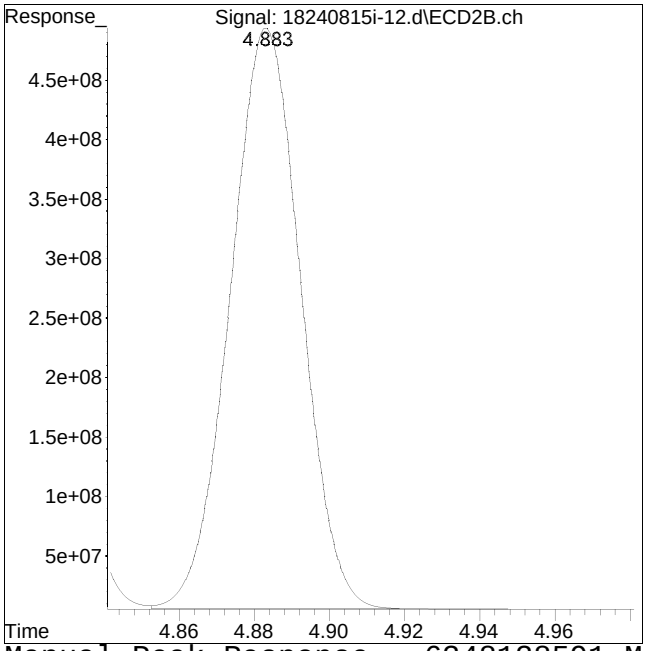
Original Peak Response = 9100114237 Manual Peak Response = 8888023177 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #54: Endosulfan I #2



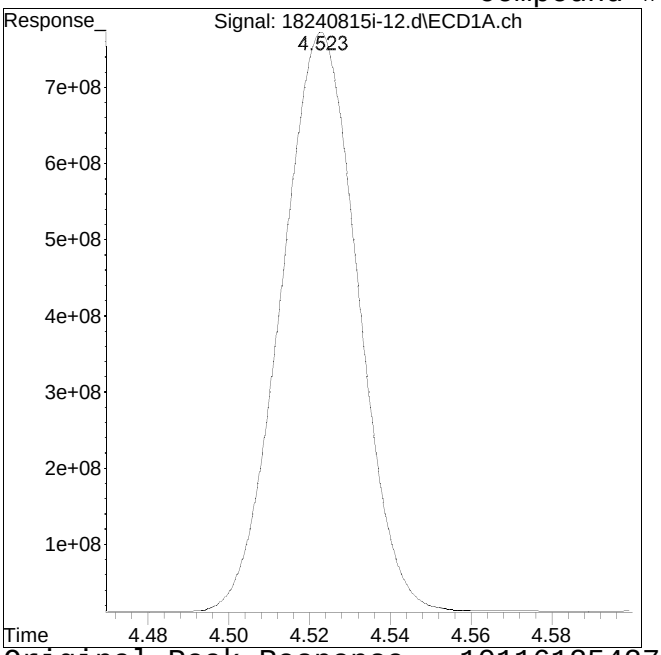


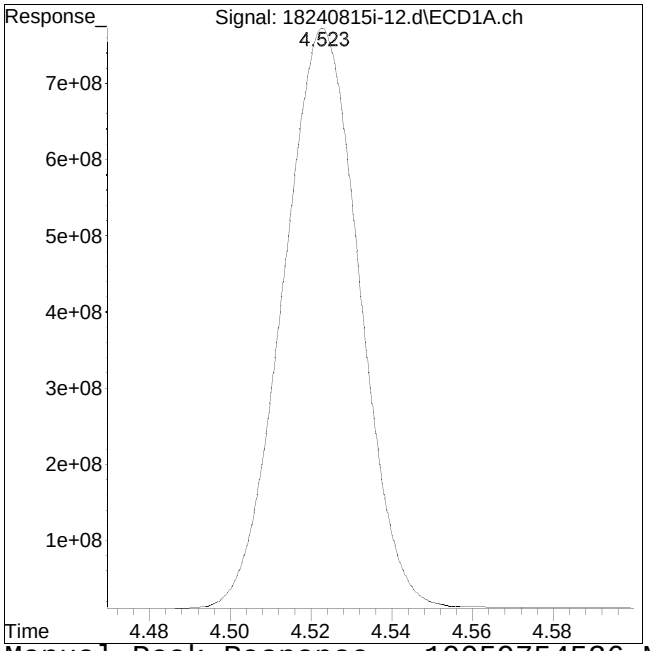
Original Peak Response = 6374049064 Manual Peak Response = 6348138591 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #17: Dieldrin



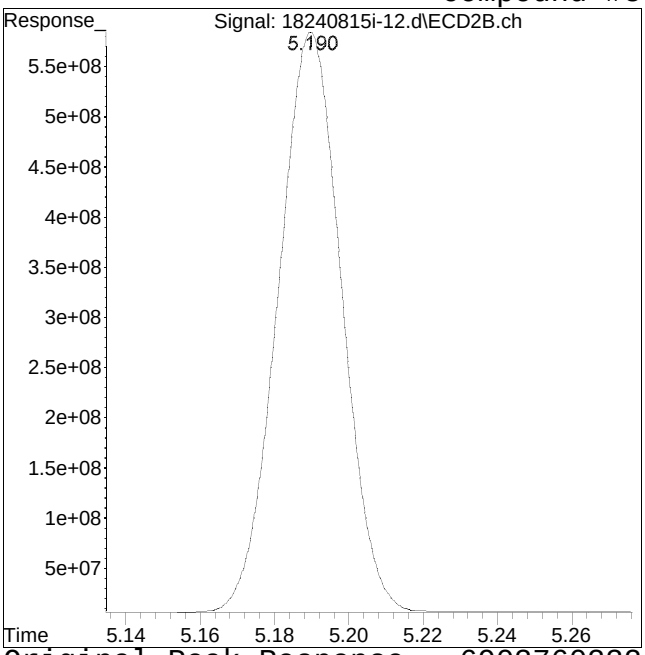


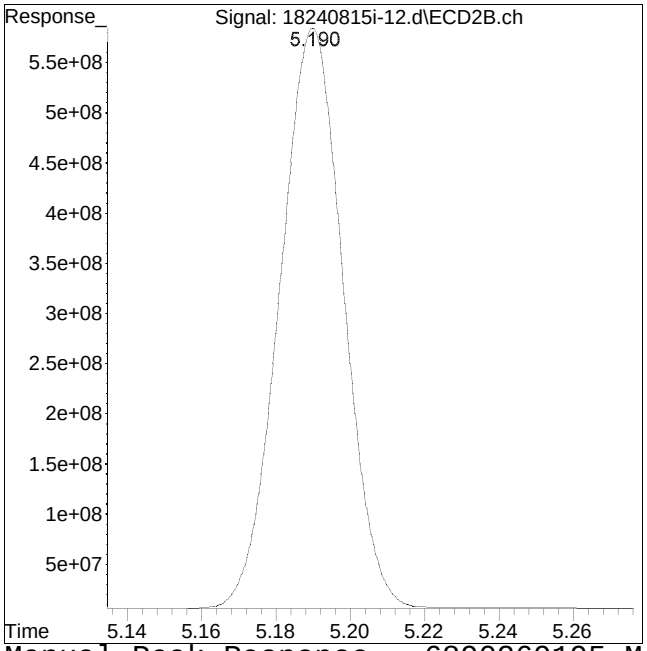
Original Peak Response = 10116125427 Manual Peak Response = 10059754536 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #55: Dieldrin #2



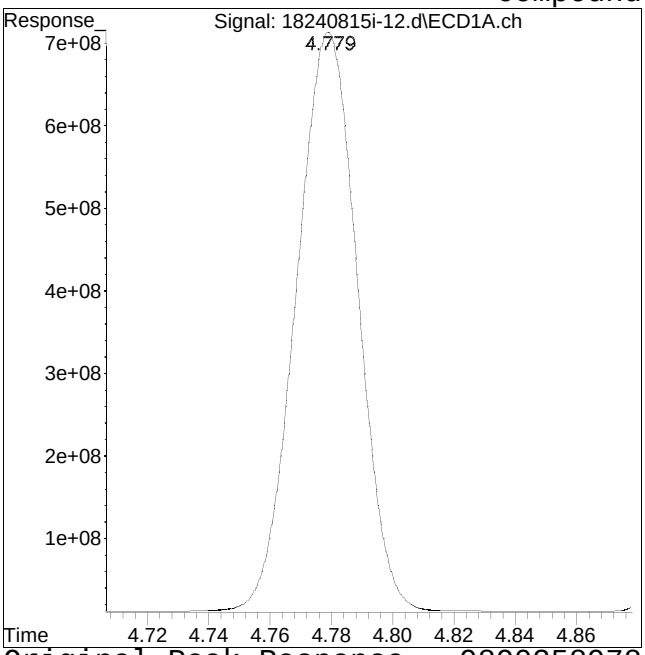


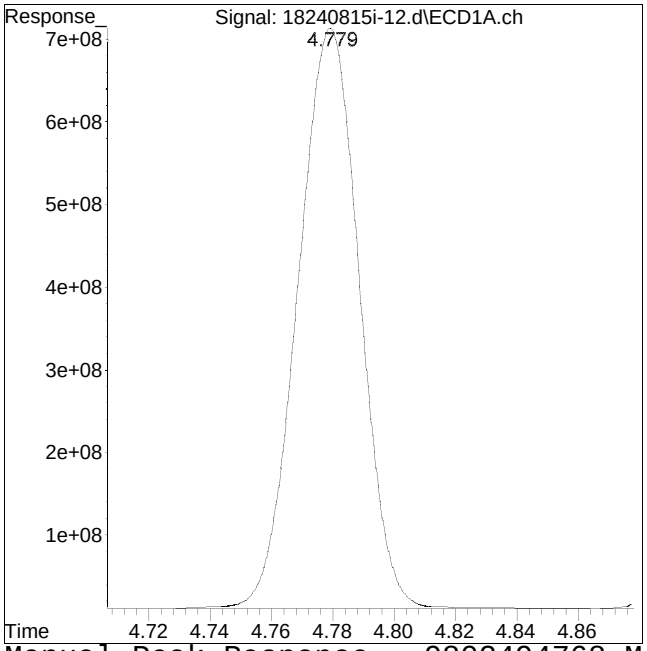
Original Peak Response = 6903760232 Manual Peak Response = 6890269195 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #18: Endrin



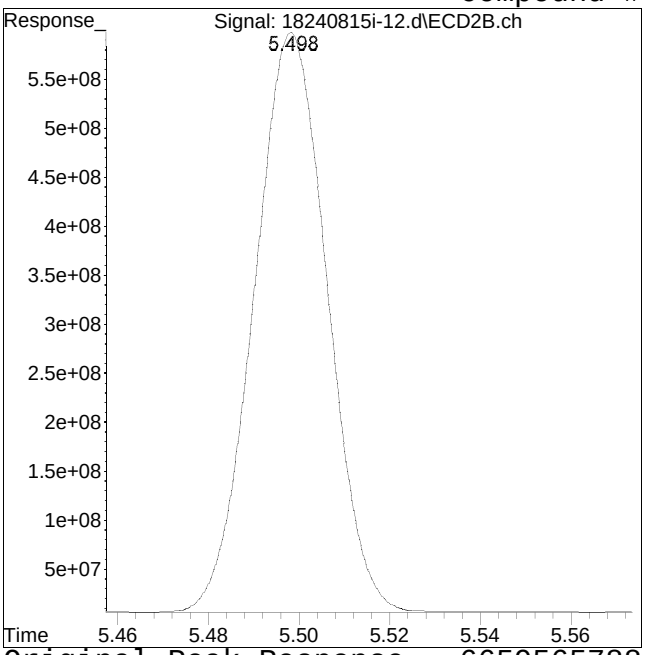


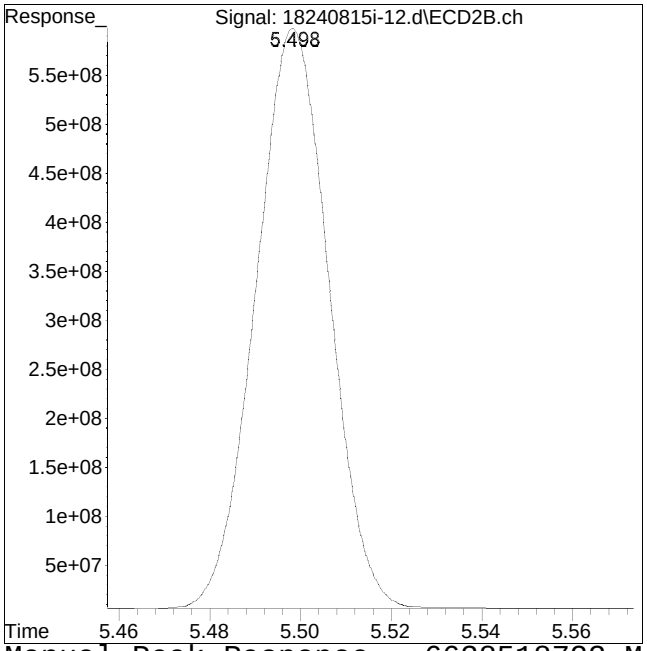
Original Peak Response = 9890358978 Manual Peak Response = 9802494768 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #56: Endrin #2



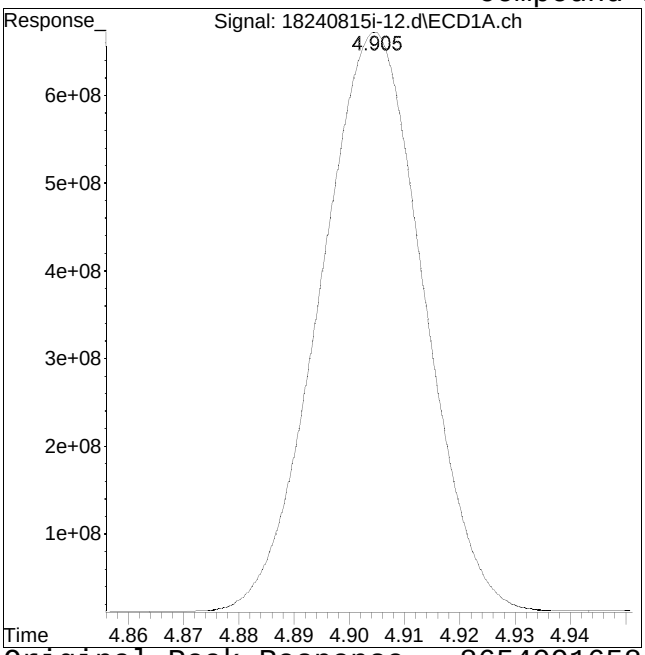


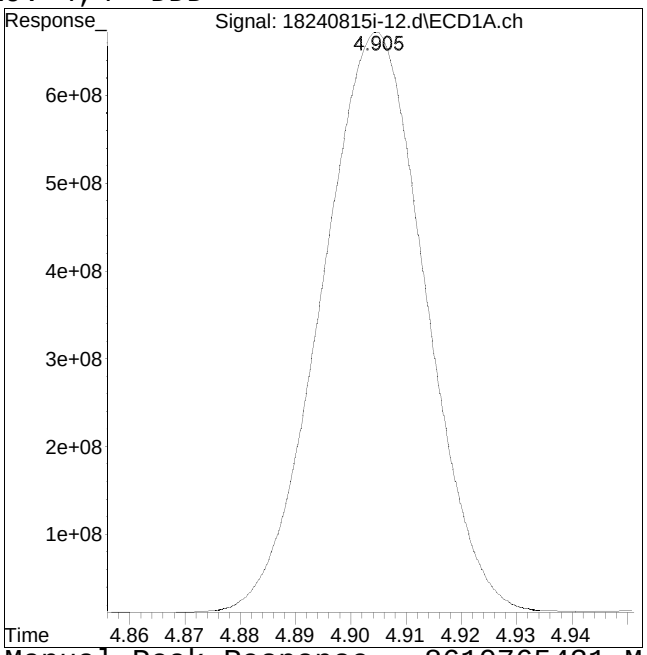
Original Peak Response = 6659565788 Manual Peak Response = 6638518723 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #19: 4,4'-DDD



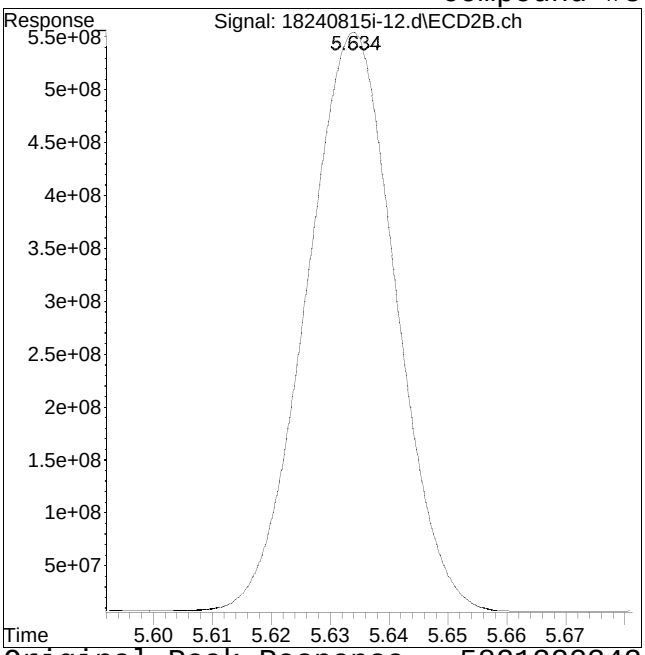


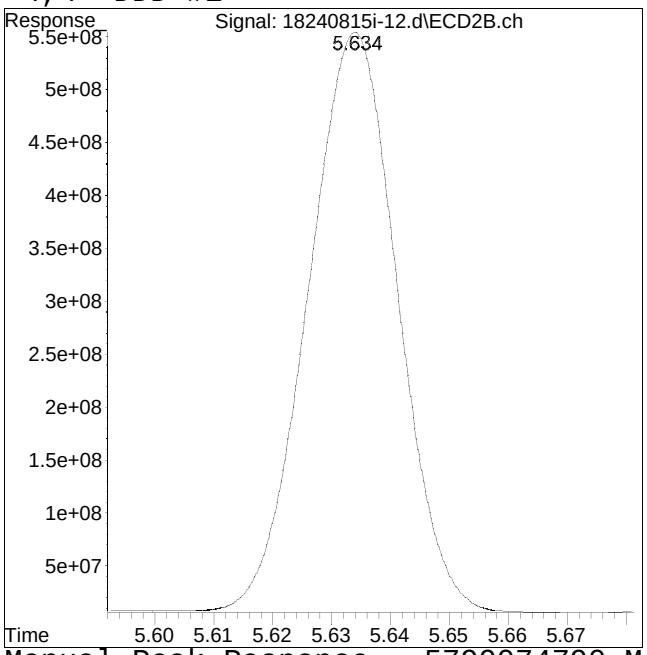
Original Peak Response = 8654091658 Manual Peak Response = 8610765431 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #57: 4,4'-DDD #2



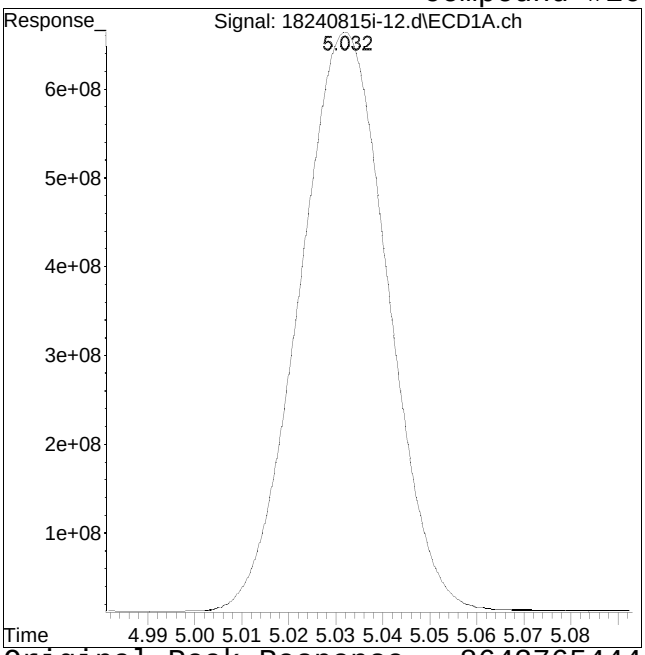


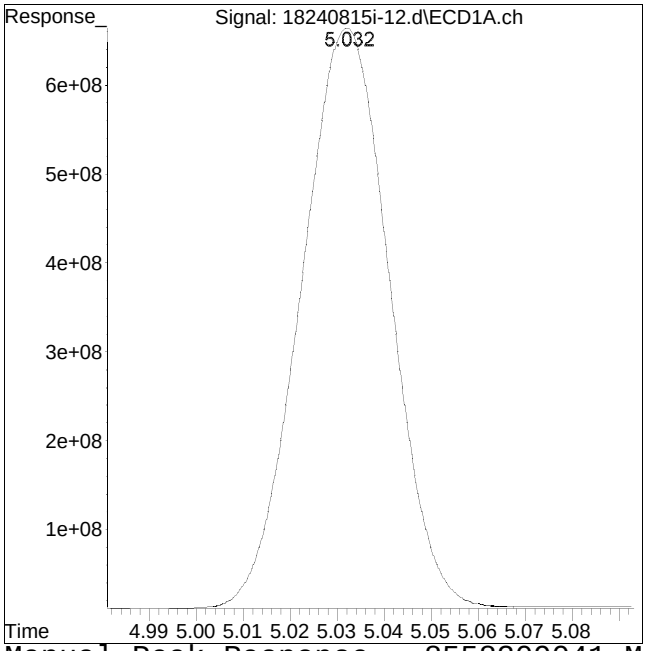
Original Peak Response = 5821322343 Manual Peak Response = 5799074790 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #20: Endosulfan II



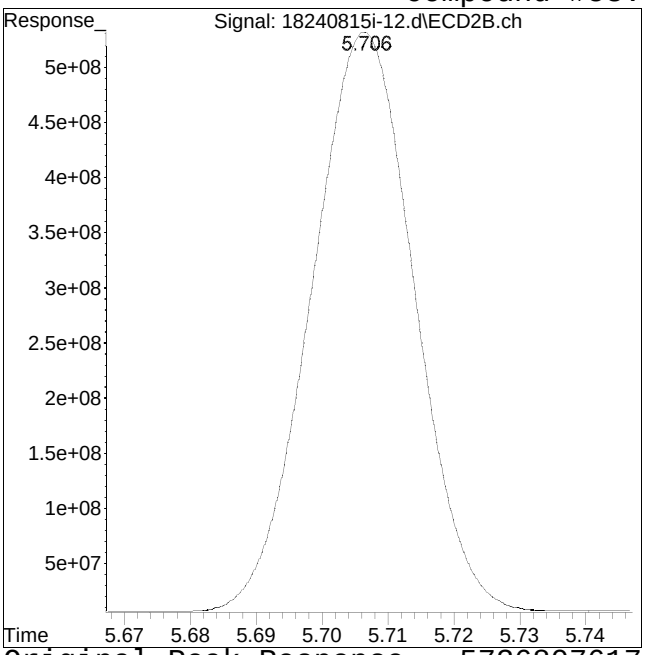


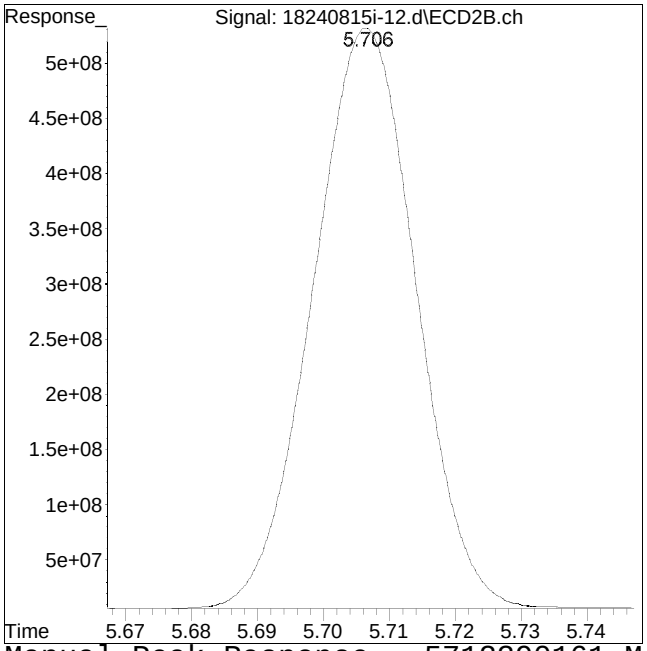
Original Peak Response = 8643765444 Manual Peak Response = 8558309041 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #58: Endosulfan II #2



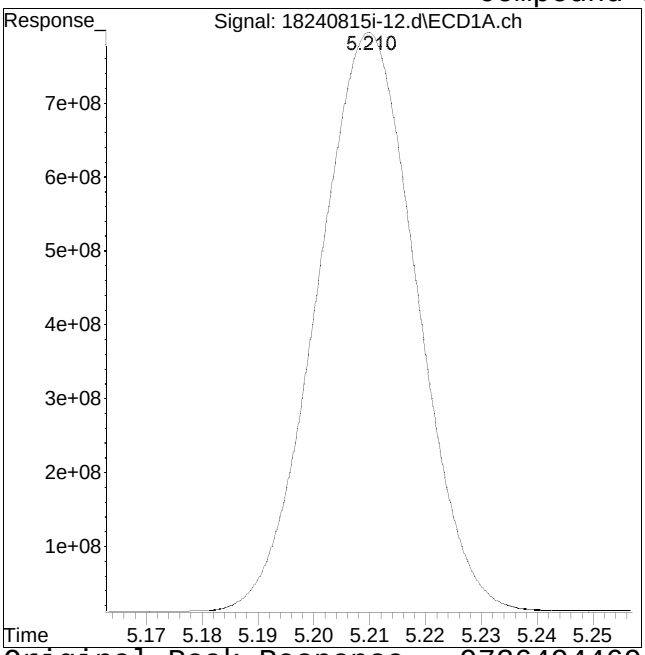


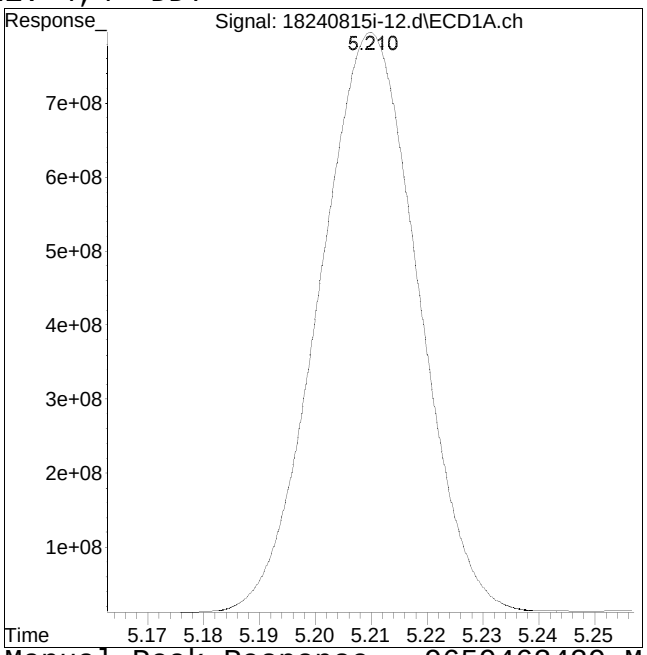
Original Peak Response = 5736807617 Manual Peak Response = 5712390161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #21: 4,4'-DDT



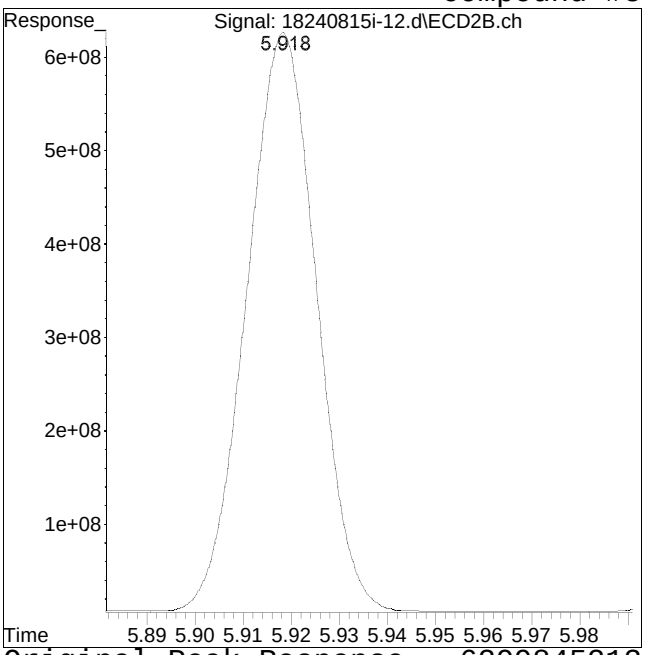


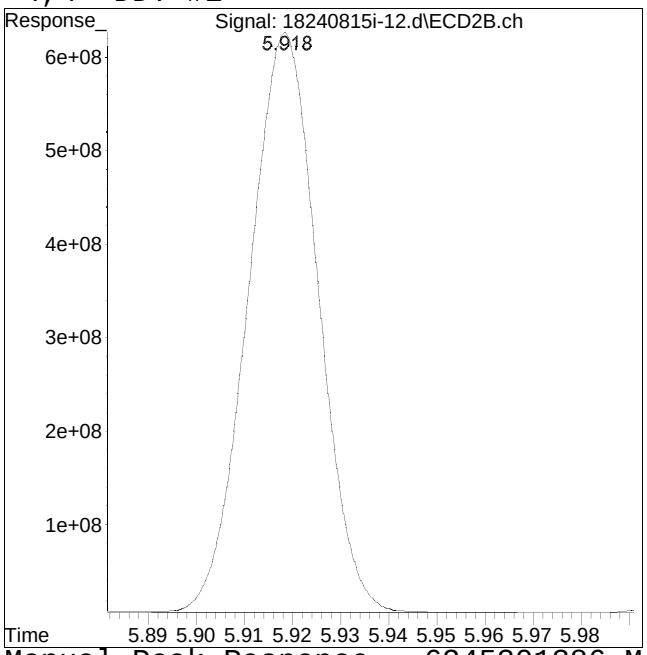
Original Peak Response = 9736494469 Manual Peak Response = 9659463429 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #59: 4,4'-DDT #2



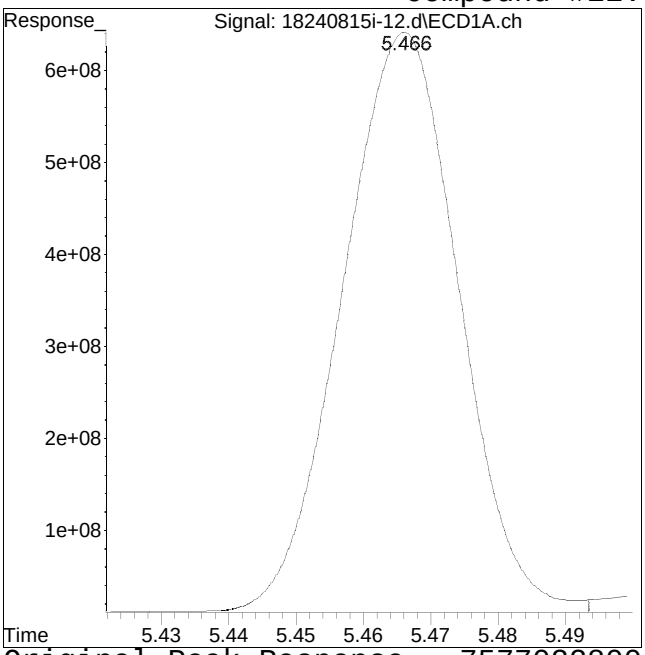


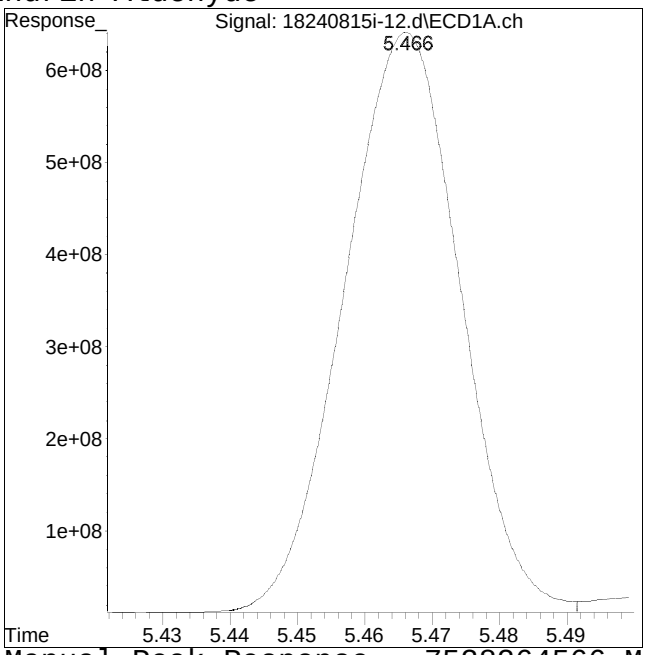
Original Peak Response = 6299845213 Manual Peak Response = 6245301386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #22: Endrin Aldehyde



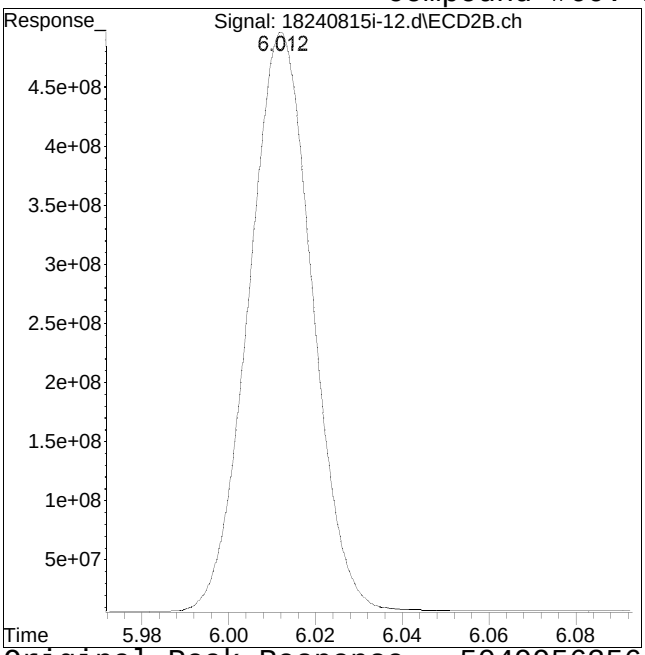


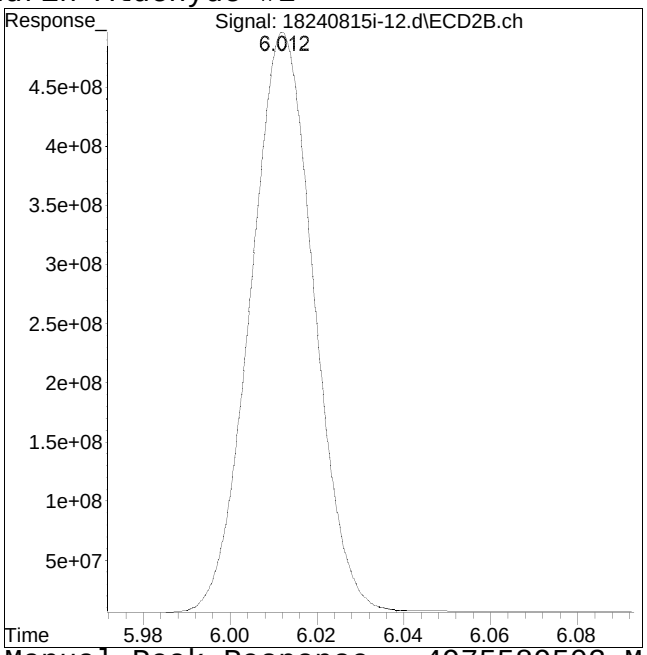
Original Peak Response = 7577022800 Manual Peak Response = 7528264566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #60: Endrin Aldehyde #2



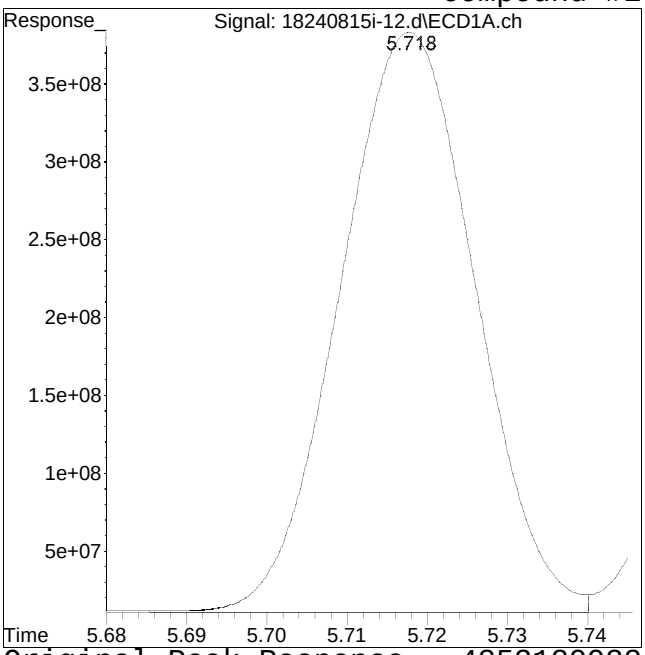


Original Peak Response = 5049956356 Manual Peak Response = 4975589503 M4
M4 = Poor automated baseline construction.

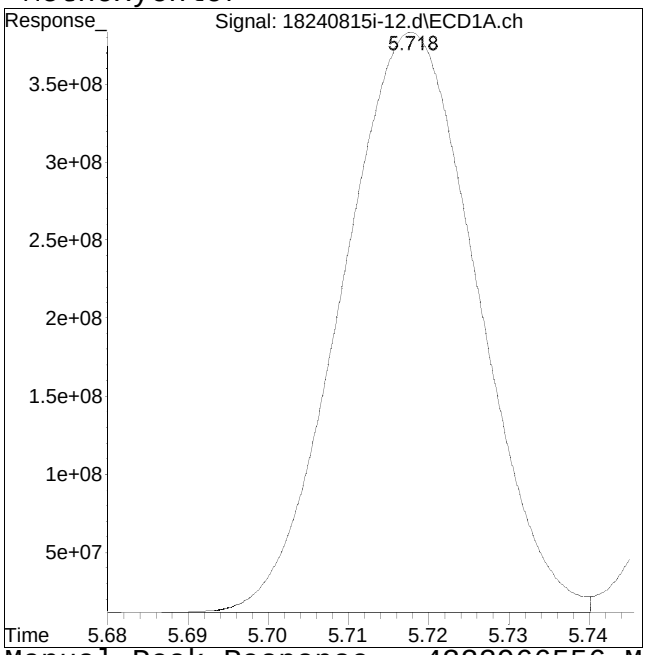
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #23: Methoxychlor



Original Peak Response = 4353129933

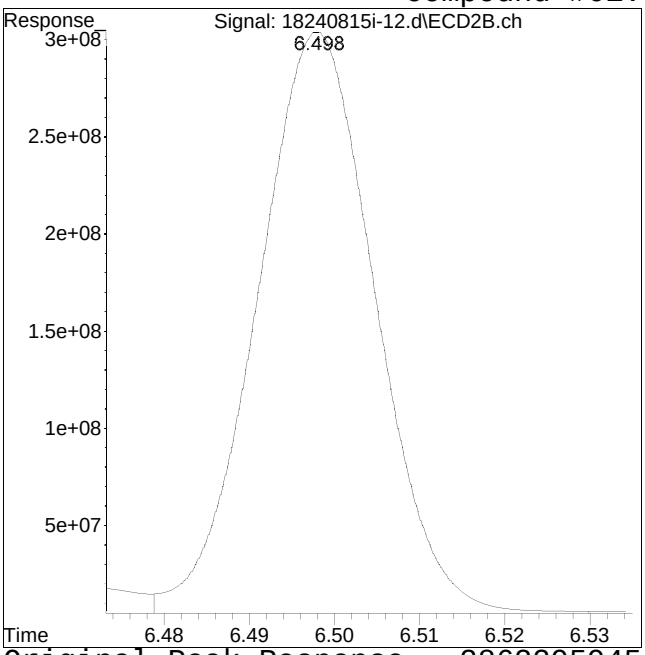


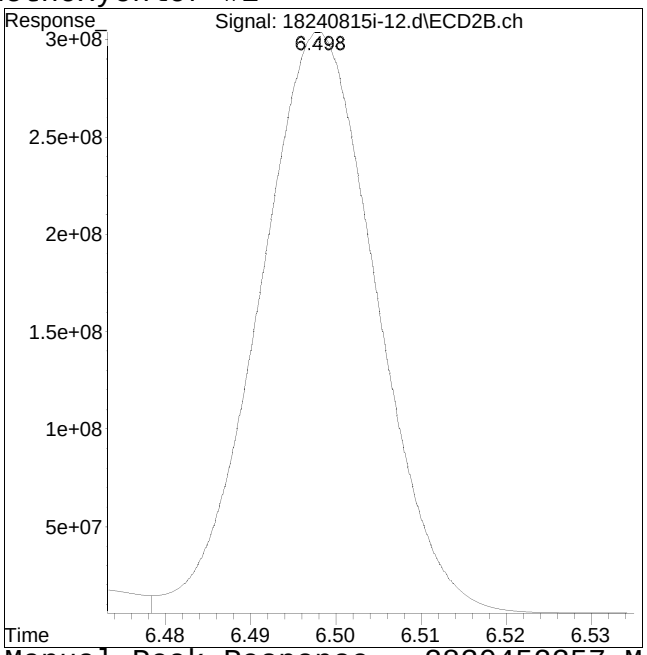
Manual Peak Response = 4323966556 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #61: Methoxychlor #2



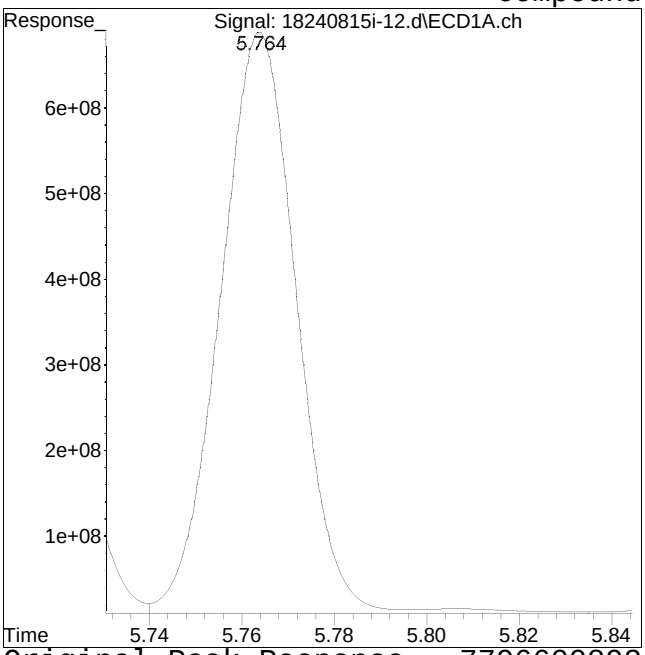


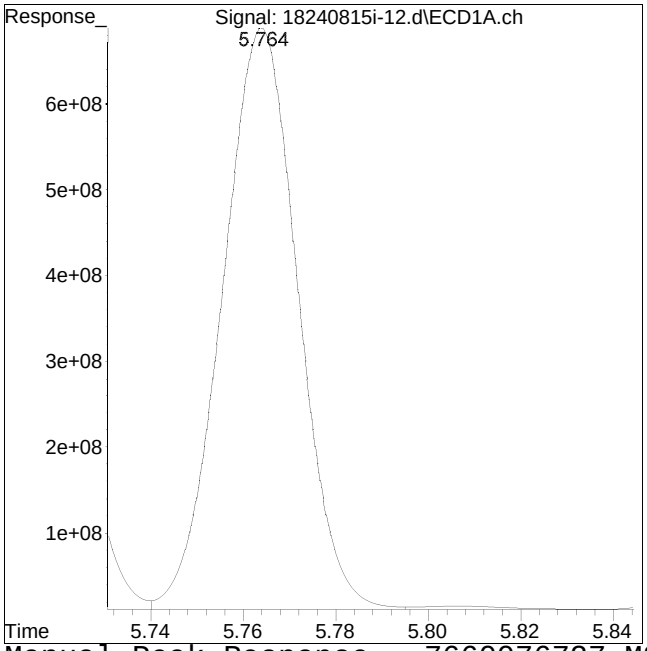
Original Peak Response = 2862295945 Manual Peak Response = 2830452357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #24: Mirex



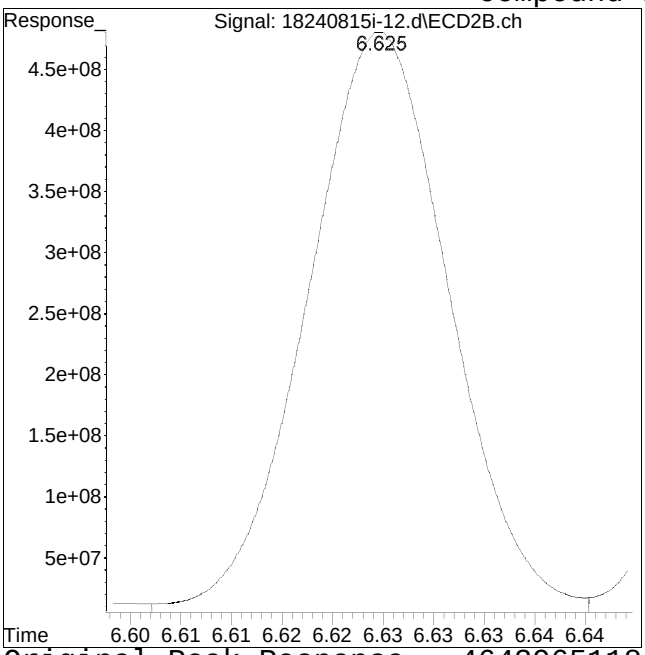


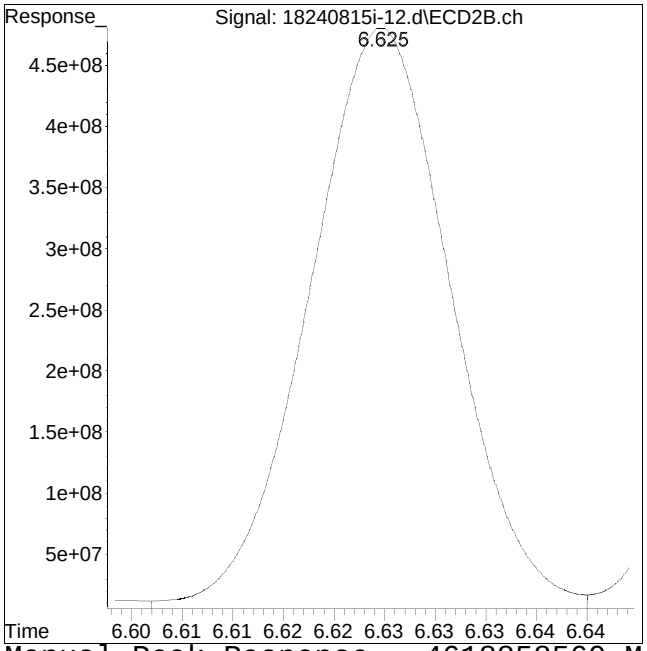
Original Peak Response = 7796609893 Manual Peak Response = 7660076727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #62: Mirex #2



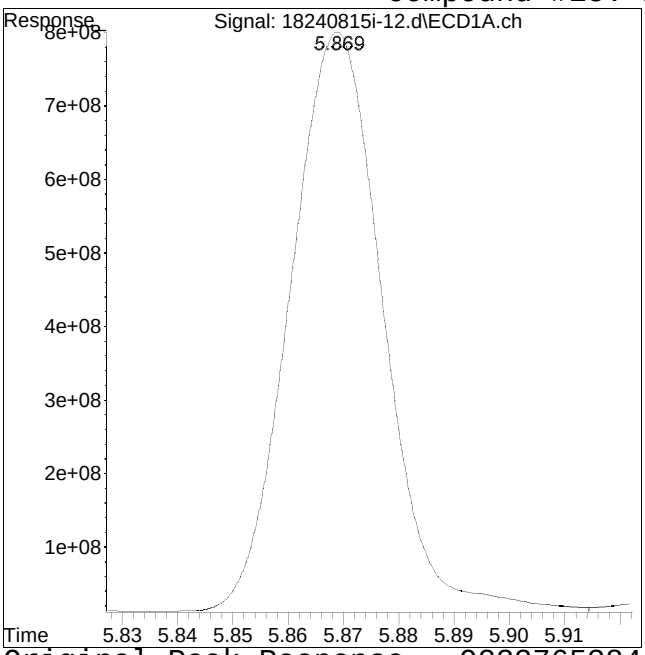


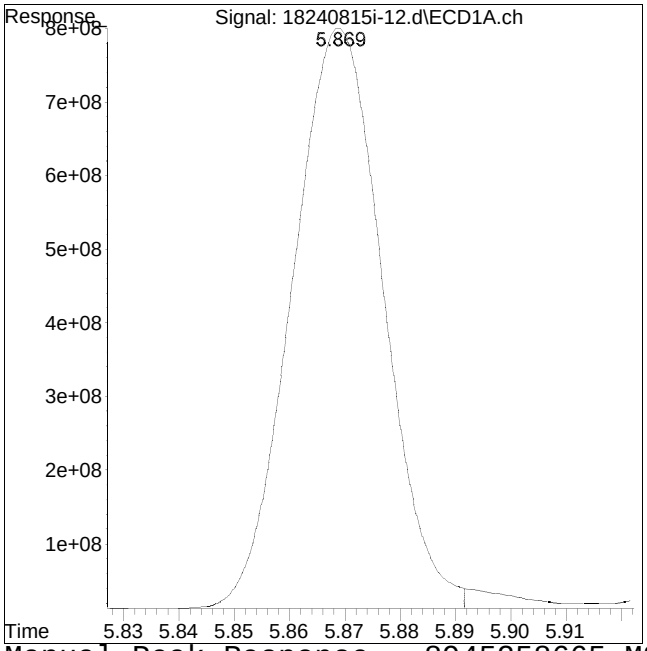
Original Peak Response = 4643965118 Manual Peak Response = 4618858560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #25: Endosulfan Sulfate



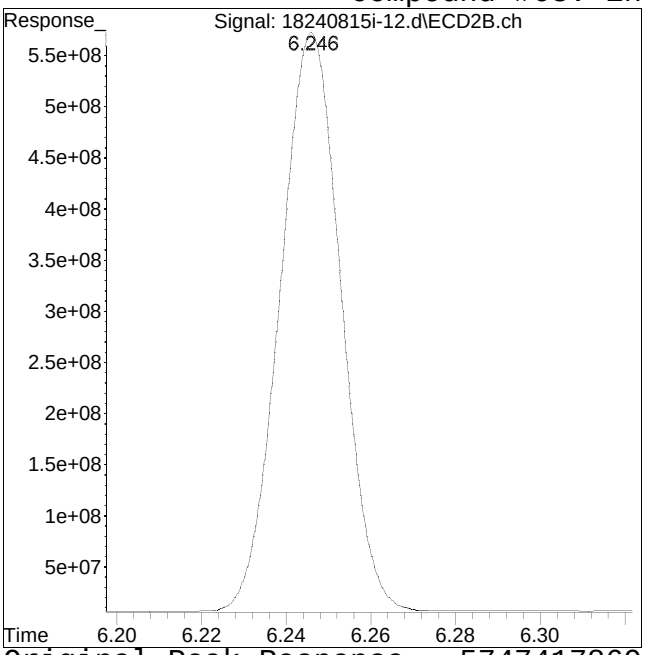


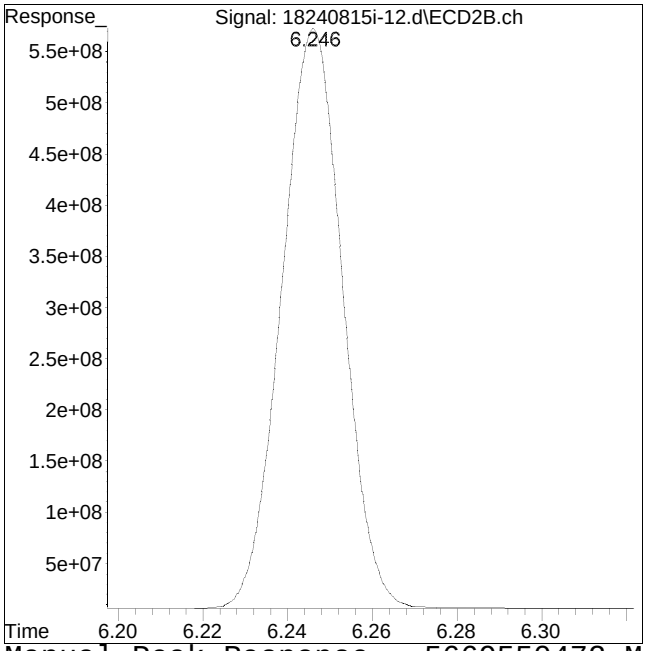
Original Peak Response = 9233765384 Manual Peak Response = 8945258665 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #63: Endosulfan Sulfate #2



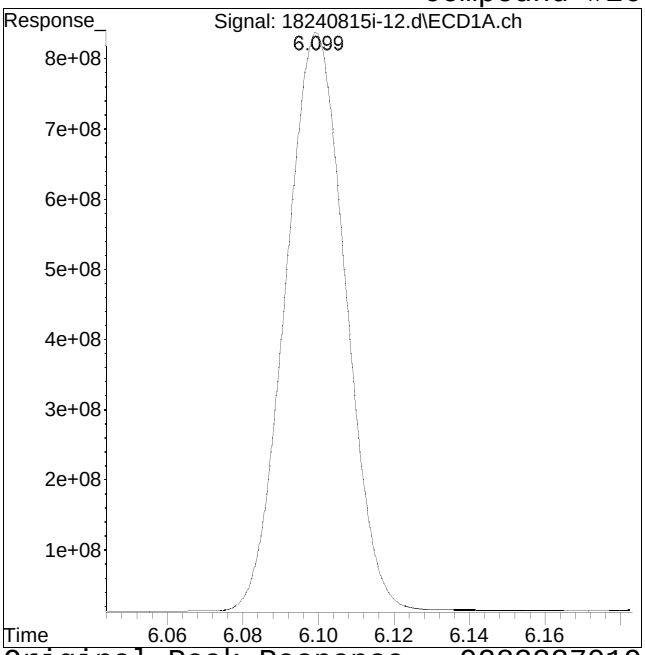


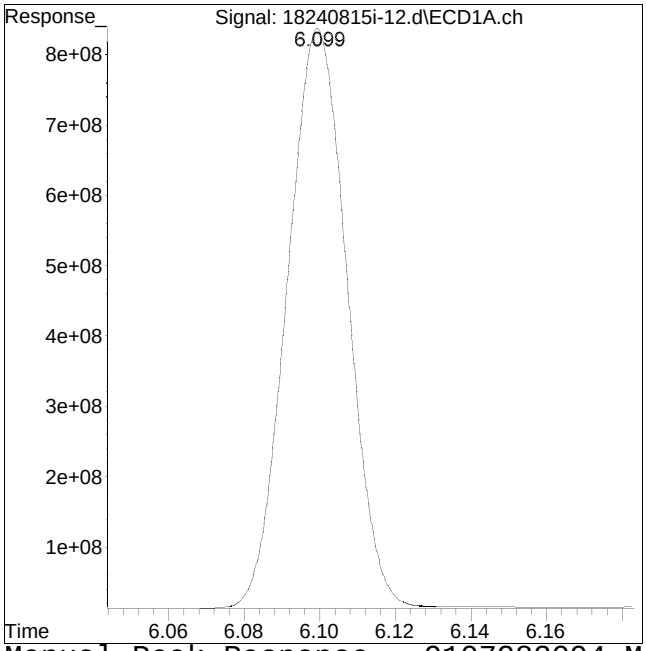
Original Peak Response = 5747417869 Manual Peak Response = 5669550472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #26: Endrin Ketone



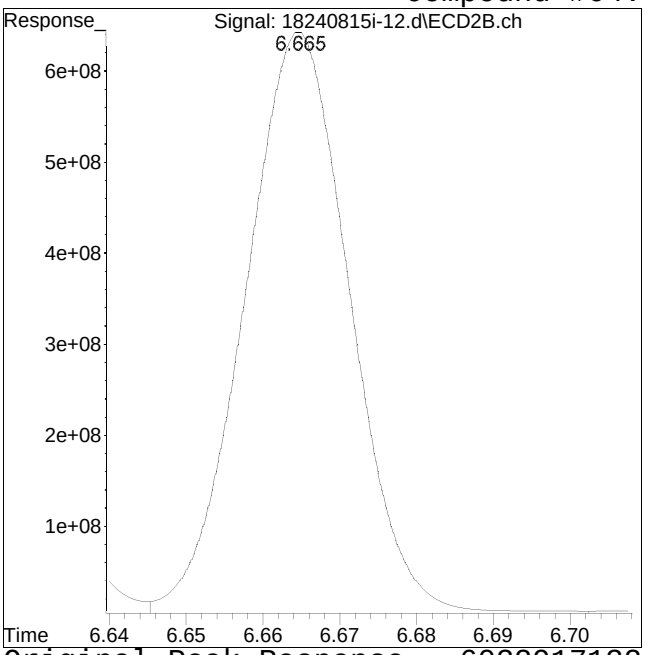


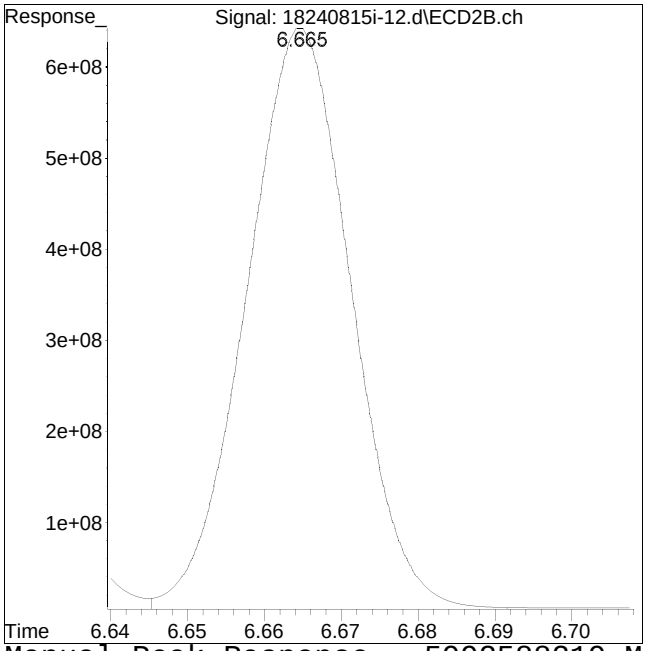
Original Peak Response = 9283337019 Manual Peak Response = 9107282094 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #64: Endrin Ketone #2



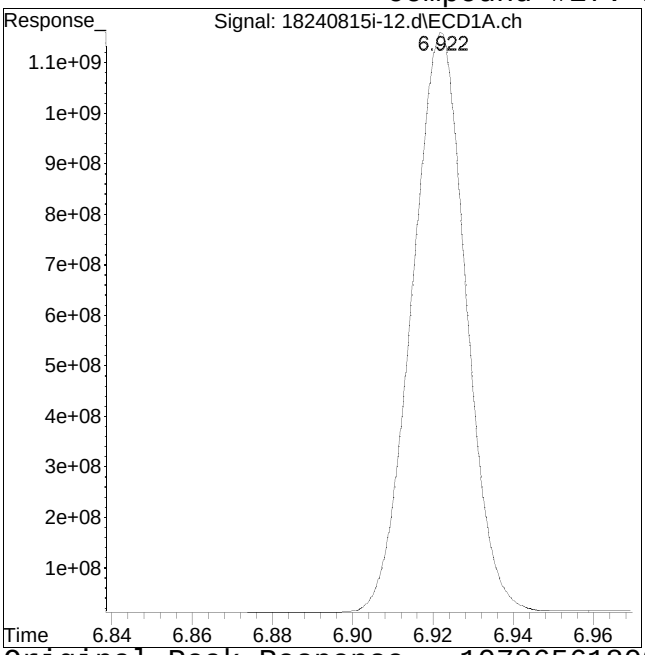


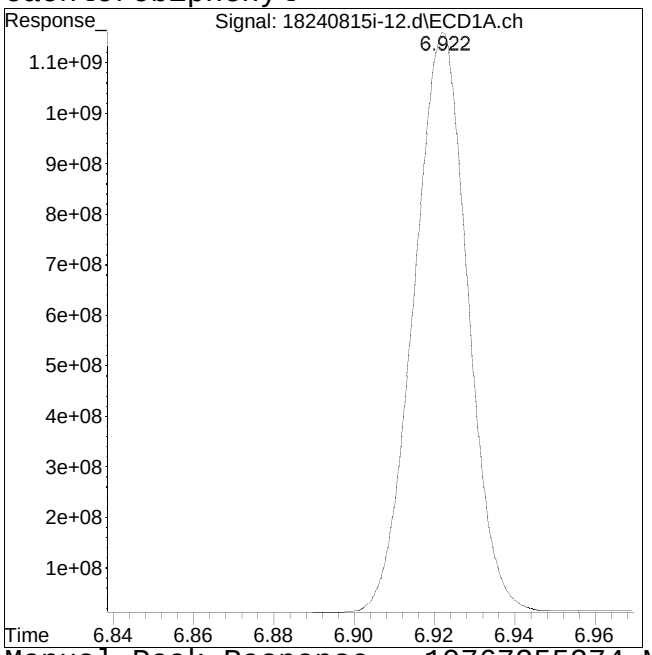
Original Peak Response = 6032917132 Manual Peak Response = 5992588219 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-12.d
Date Inj'd : 8/15/2024 15:48
Sample : il11pest,42e,,pp 11678 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/16/2024 6:57 am

Compound #27: Decachlorobiphenyl



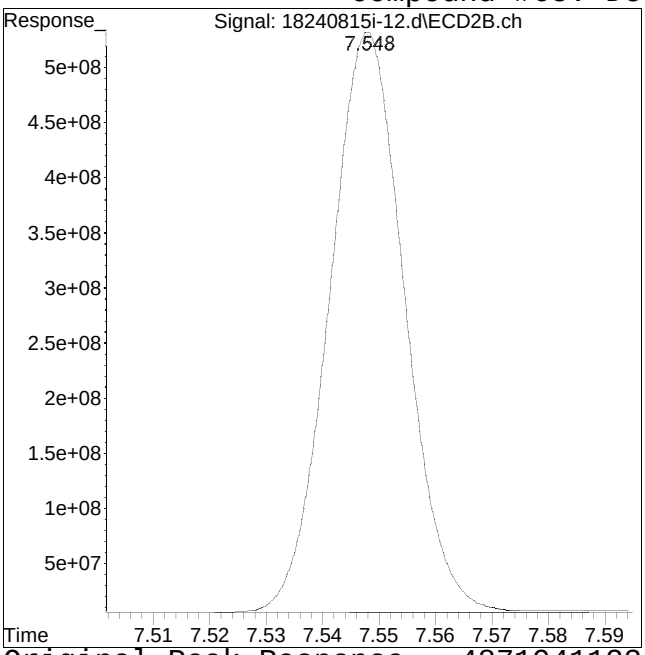


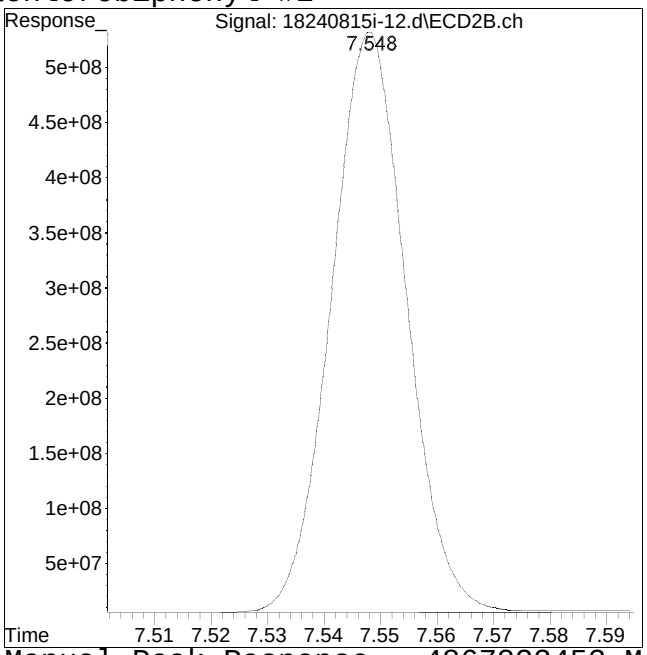
Original Peak Response = 10786561803 Manual Peak Response = 10767355274 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-12.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:48 Instrument : Pest 18
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/16/2024 6:57 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 4871941123 Manual Peak Response = 4867233453 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	1.166	4.4	99	0.00
3		Hexachlorobenzene		1.431	1.345	6.0	99	0.00
4		alpha-BHC		1.531	1.506	1.6	97	0.00
5		gamma-BHC (lindane)		1.404	1.321	5.9	95	0.00
6		beta-BHC		0.638	0.593	7.1	98	0.00
7		delta-BHC		1.404	1.314	6.4	93	0.00
8		Heptachlor		1.315	1.295	1.5	99	0.00
9		Aldrin		1.284	1.310	-2.0	101	0.00
10		Alachlor		0.194	0.189	2.6	103	0.00
11		Chlorpyrifos	*	50.000	60.122	-20.2	103	0.00
12		Heptachlor Epoxide		1.161	1.165	-0.3	101	0.00
13		gamma-Chlordane (trans)		1.140	1.267	-11.1	115	0.00
14		alpha-Chlordane (cis)		1.273	1.251	1.7	100	0.00
15		4,4'-DDE		1.268	1.317	-3.9	103	0.00
16		Endosulfan I		1.138	1.128	0.9	100	0.00
17		Dieldrin		1.209	1.311	-8.4	109	0.00
18		Endrin		1.209	1.213	-0.3	100	0.00
19		4,4'-DDD		0.982	1.064	-8.4	108	0.00
20		Endosulfan II		1.096	1.119	-2.1	103	0.00
21		4,4'-DDT		1.107	1.150	-3.9	104	0.00
22		Endrin Aldehyde		0.923	0.860	6.8	94	0.00
23		Methoxychlor	*	50.000	60.108	-20.2	105	0.00
24		Mirex	*	50.000	55.986	-12.0	106	0.00
25		Endosulfan Sulfate		1.087	1.121	-3.1	104	0.00
26		Endrin Ketone		1.216	1.293	-6.3	108	0.00
27	s	Decachlorobiphenyl	*	50.000	53.275	-6.5	104	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	1.156	2.0	101	0.00
3		Hexachlorobenzene		1.260	1.186	5.9	102	0.00
4		alpha-BHC		1.569	1.580	-0.7	100	0.00
5		gamma-BHC (lindane)		1.462	1.398	4.4	98	0.00
6		beta-BHC		0.679	0.627	7.7	100	0.00
7		delta-BHC		1.445	1.373	5.0	95	0.00
8		Heptachlor		1.318	1.318	0.0	102	0.00
9		Aldrin		1.307	1.350	-3.3	102	0.00
10		Alachlor		0.196	0.193	1.5	104	0.00
11		Chlorpyrifos	*	50.000	57.727	-15.5	103	0.00
12		Heptachlor Epoxide		1.247	1.218	2.3	100	0.00
13		gamma-Chlordane (trans)		1.137	1.288	-13.3	116	0.00
14		alpha-Chlordane (cis)		1.268	1.268	0.0	102	0.00
15		4,4'-DDE		1.245	1.305	-4.8	103	0.00
16		Endosulfan I		1.167	1.167	0.0	101	0.00
17		Dieldrin		1.196	1.326	-10.9	110	0.00
18		Endrin		1.197	1.205	-0.7	101	0.00
19		4,4'-DDD		0.976	1.068	-9.4	110	0.00
20		Endosulfan II		1.072	1.103	-2.9	104	0.00
21		4,4'-DDT		1.070	1.108	-3.6	104	0.00
22		Endrin Aldehyde		0.903	0.833	7.8	95	0.00
23		Methoxychlor		0.581	0.585	-0.7	105	0.00
24		Mirex		0.903	0.872	3.4	106	0.00
25		Endosulfan Sulfate		1.032	1.041	-0.9	104	0.00
26		Endrin Ketone		1.116	1.183	-6.0	108	0.00
27	s	Decachlorobiphenyl		0.953	0.916	3.9	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.68#
29	l1	chlordane-1		0.078	0.000	100.0#	0#	-3.05#
30	l1	chlordane-3		0.050	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4		0.176	0.000	100.0#	0#	-3.99#
32	l1	chlordane-5		0.270	0.000	100.0#	0#	-4.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.68#
34	l2	toxaphene-1		0.050	0.000	100.0#	0#	-5.02#
35	l2	toxaphene-2		0.054	0.000	100.0#	0#	-5.15#
36	l2	toxaphene-3		0.055	0.000	100.0#	0#	-5.39#
37	l2	toxaphene-4		0.055	0.000	100.0#	0#	-5.77#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.78#
29	l1	chlordane-1		0.041	0.000	100.0#	0#	-3.35#
30	l1	chlordane-3		0.046	0.000	100.0#	0#	-3.96#
31	l1	chlordane-4		0.164	0.000	100.0#	0#	-4.64#
32	l1	chlordane-5		0.131	0.000	100.0#	0#	-4.82#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.78#
34	l2	toxaphene-1		0.025	0.000	100.0#	0#	-5.66#
35	l2	toxaphene-2		0.038	0.000	100.0#	0#	-5.69#
36	l2	toxaphene-3		0.045	0.000	100.0#	0#	-6.02#
37	l2	toxaphene-4		0.040	0.000	100.0#	0#	-6.43#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.683	1.784	551.3E6	340.8E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.117	2.340	1285.2E6	788.3E6	47.784M4	49.036M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		95.57%	98.07%
27) s	Decachlorobi	6.921	7.549	1388.5E6	624.5E6	53.275M4	48.078
	Spiked Amount 50.000	Range 30 - 150		Recovery =		106.55%	96.16%
	Target Compounds						
3)	Hexachlorobe	2.358	2.683	1482.5E6	808.8E6	46.982M4	47.069M4
4)	alpha-BHC	2.470	2.787	1660.8E6	1077.2E6	49.205M4	50.351M4
5)	gamma-BHC (l	2.688	3.083	1456.2E6	953.2E6	47.035M4	47.810M4
6)	beta-BHC	2.752	3.156	654.3E6	427.6E6	46.483M4	46.157M4
7)	delta-BHC	2.885	3.426	1448.9E6	935.8E6	46.806M4	47.518
8)	Heptachlor	3.054	3.484	1427.9E6	898.5E6	49.253M4	50.001
9)	Aldrin	3.303	3.804	1444.6E6	920.0E6	51.031M4	51.629M4
10)	Alachlor	3.442	3.700	208.9E6	131.8E6	48.917M4	49.258M4
11)	Chlorpyrifos	3.537	4.056	646.4E6	417.5E6	60.122M4	57.727

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.862	4.424	1284.6E6	830.2E6	50.188M4	48.825M3
13)		gamma-Chlord	3.989	4.646	1396.6E6	877.7E6	55.550M4	56.638M4
14)		alpha-Chlord	4.125	4.821	1379.3E6	864.2E6	49.150M4	49.977
15)		4,4'-DDE	4.231	5.035	1452.4E6	889.4E6	51.948M4	52.389
16)		Endosulfan I	4.260	4.883	1244.0E6	795.2E6	49.574M4	49.994M4
17)		Dieldrin	4.523	5.190	1445.4E6	904.2E6	54.221M4	55.473M4
18)		Endrin	4.779	5.499	1337.7E6	821.1E6	50.162M4	50.300
19)		4,4'-DDD	4.905	5.634	1173.1E6	727.9E6	54.172M4	54.684M4
20)		Endosulfan I	5.032	5.706	1233.4E6	751.7E6	51.023M4	51.436M4
21)		4,4'-DDT	5.210	5.917	1268.2E6	755.6E6	51.952M4	51.775M4
22)		Endrin Aldeh	5.466	6.012	948.4E6	567.9E6	46.589M4	46.107M4
23)		Methoxychlor	5.718	6.498	696.7E6	399.1E6	60.108M4	50.396M4
24)		Mirex	5.764	6.625	1048.6E6	594.6E6	55.986M3	48.289M3
25)		Endosulfan S	5.869	6.246	1236.0E6	709.8E6	51.586M3	50.452M4
26)		Endrin Keton	6.099	6.664	1425.8E6	806.3E6	53.183M4	52.996M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

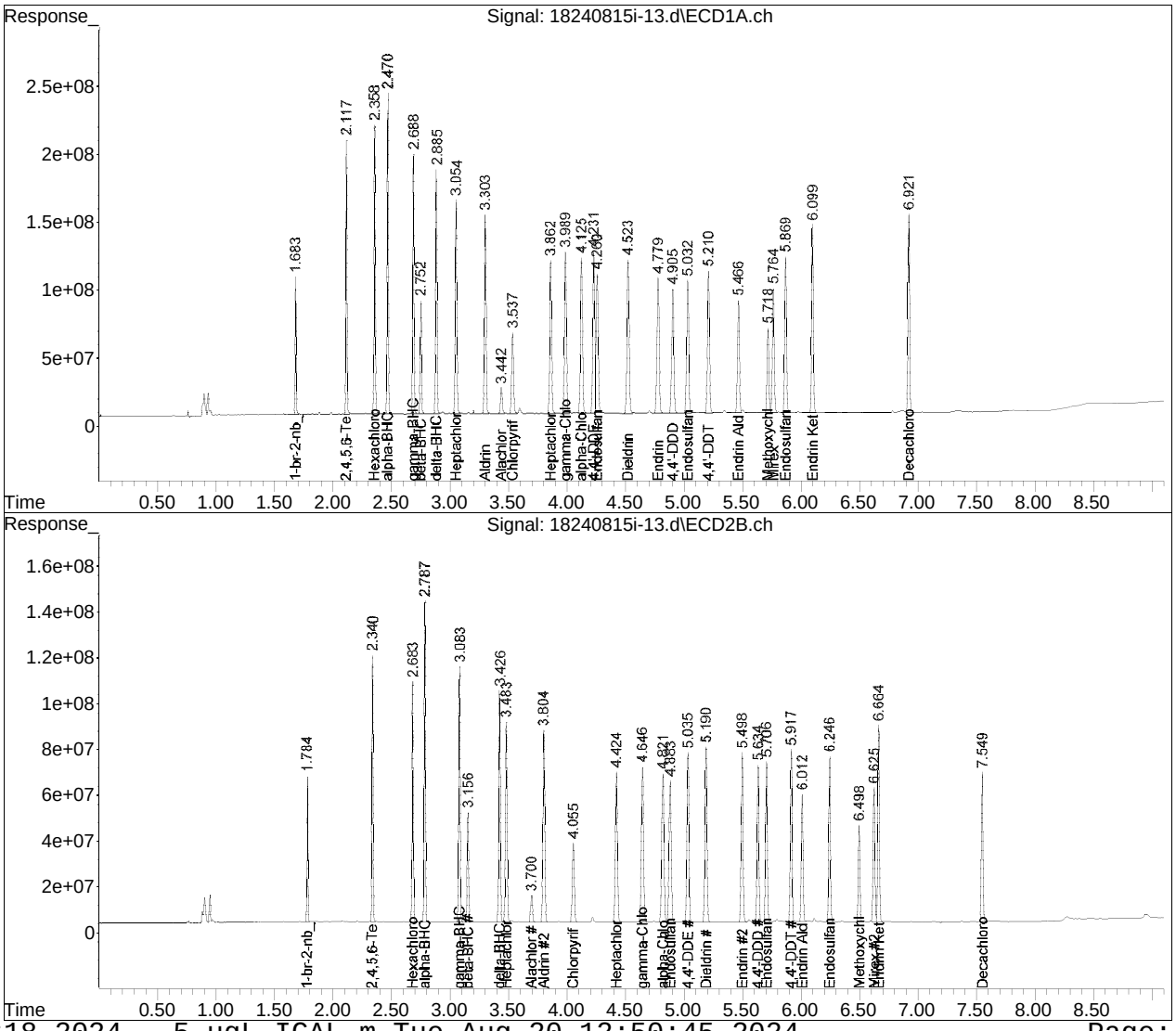
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 15:59
Operator : PEST18:peg
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:40:26 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

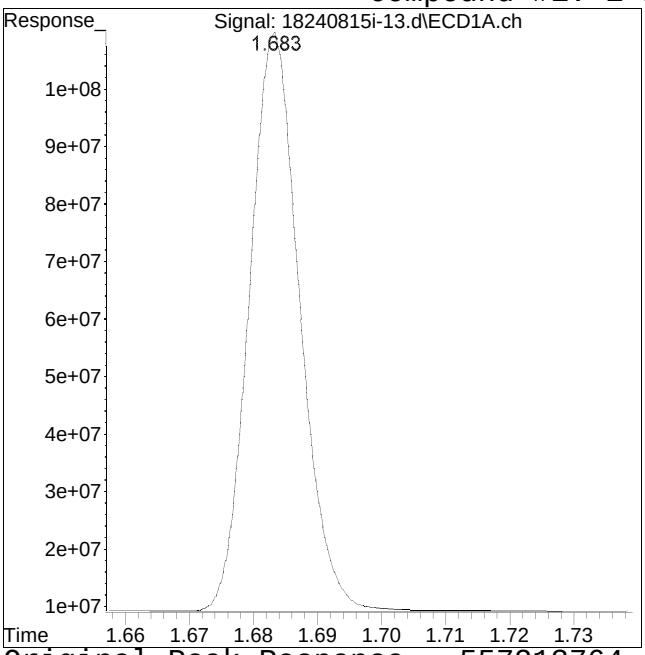
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



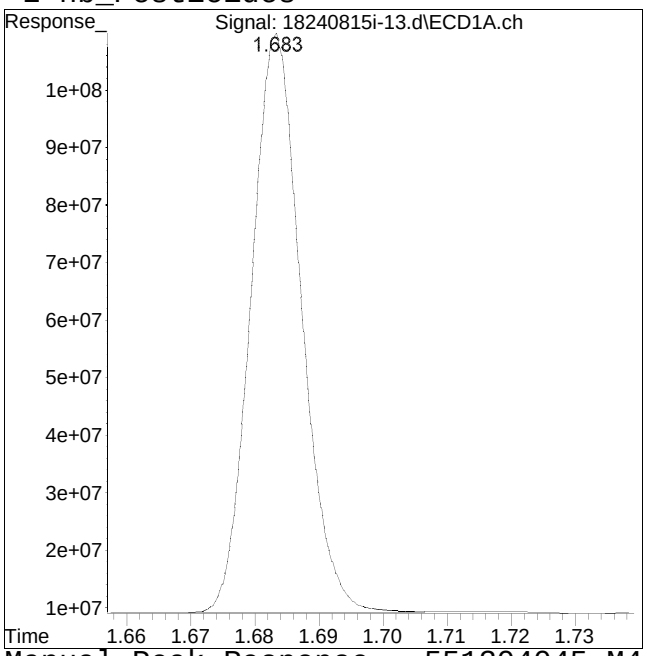
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 557213764



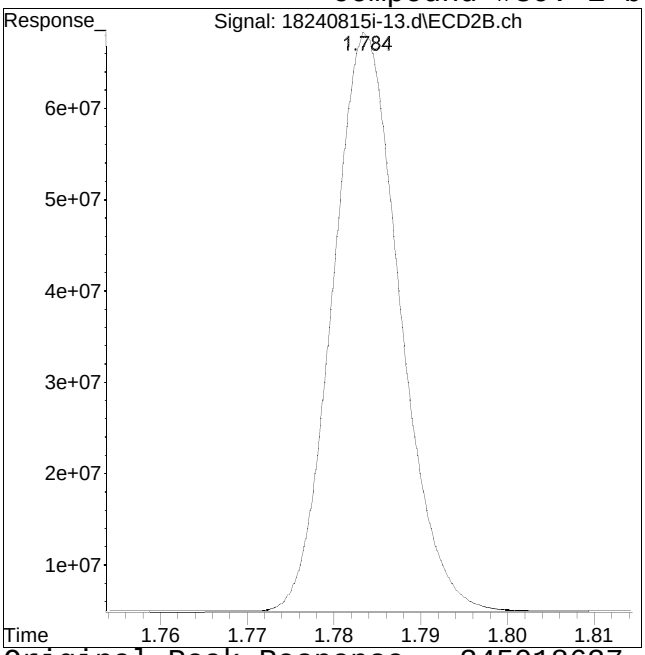
Manual Peak Response = 551304045 M4

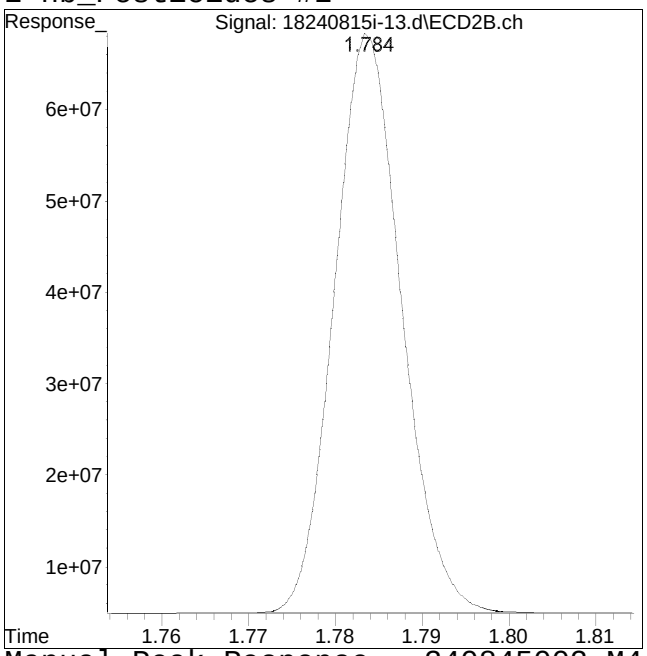
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



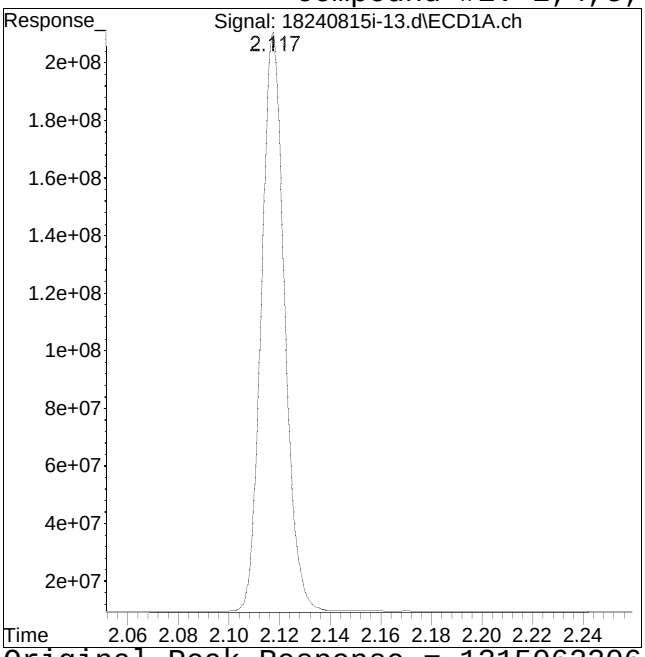


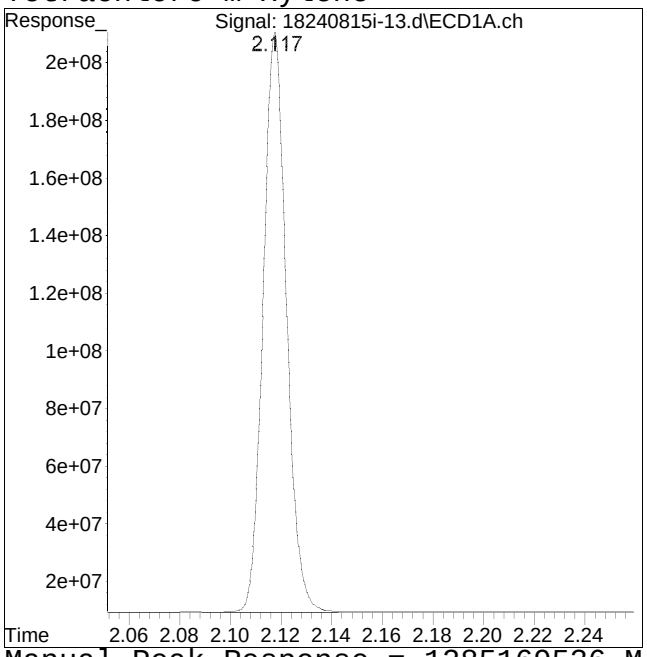
Original Peak Response = 345018637 Manual Peak Response = 340845002 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



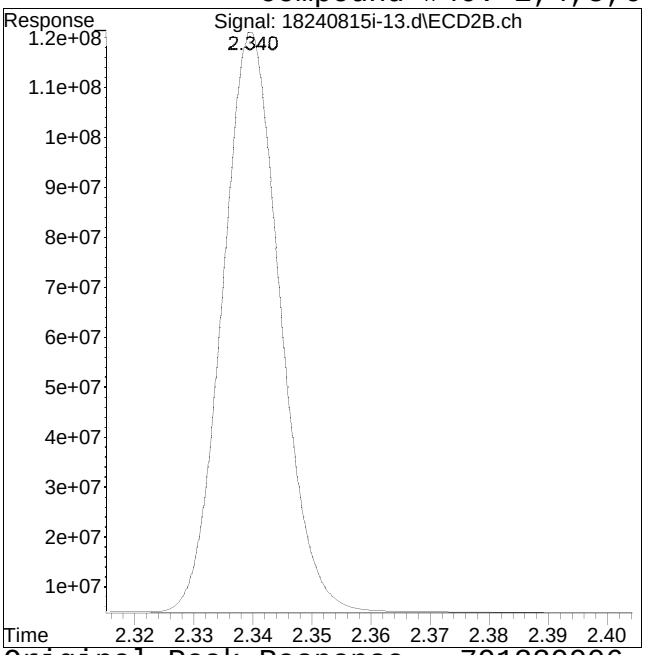


Original Peak Response = 1315062206 Manual Peak Response = 1285169536 M4
M4 = Poor automated baseline construction.

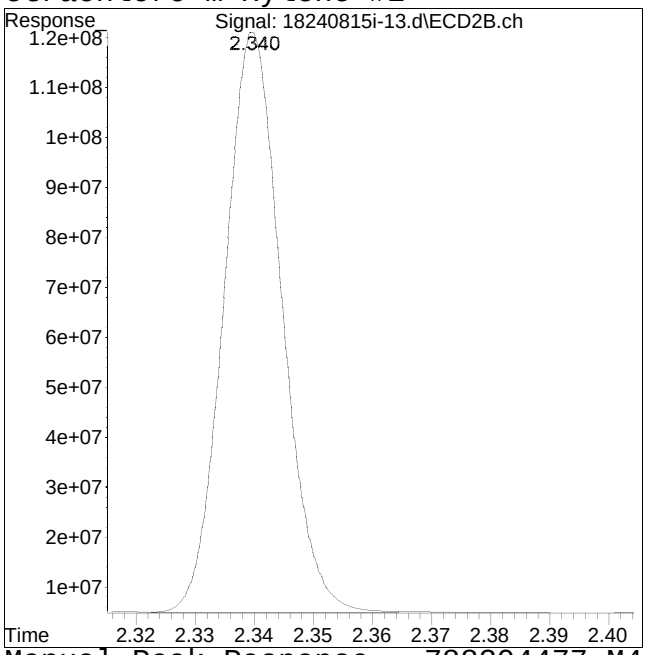
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 791339906



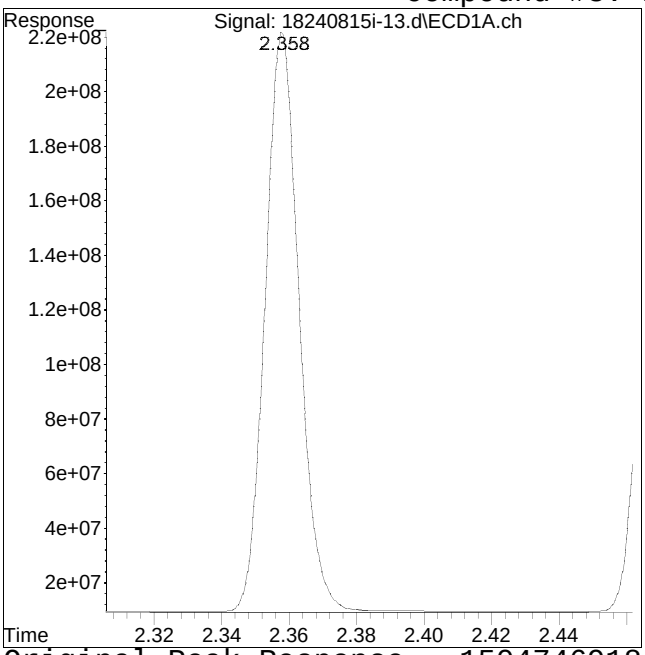
Manual Peak Response = 788304477 M4

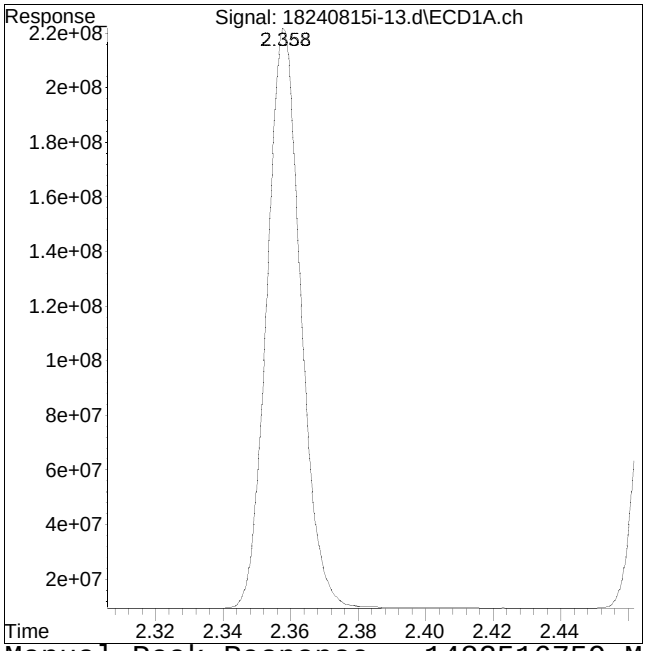
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #3: Hexachlorobenzene



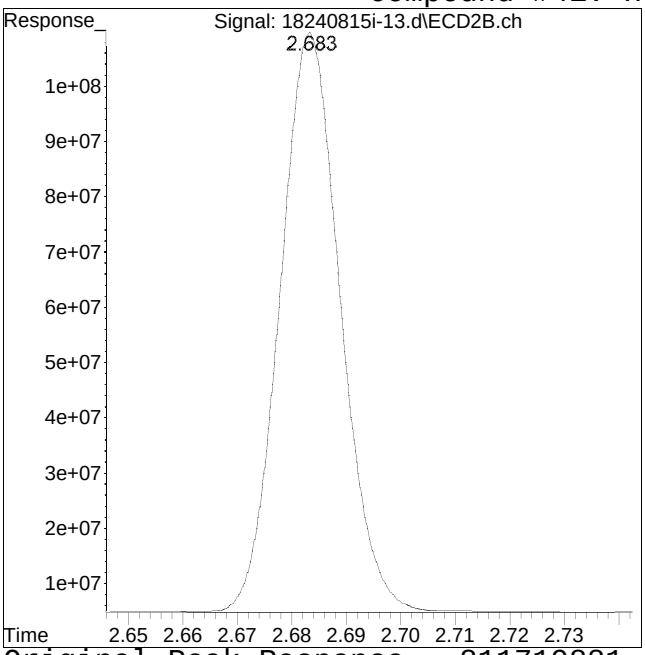


Original Peak Response = 1504746918 Manual Peak Response = 1482516759 M4
M4 = Poor automated baseline construction.

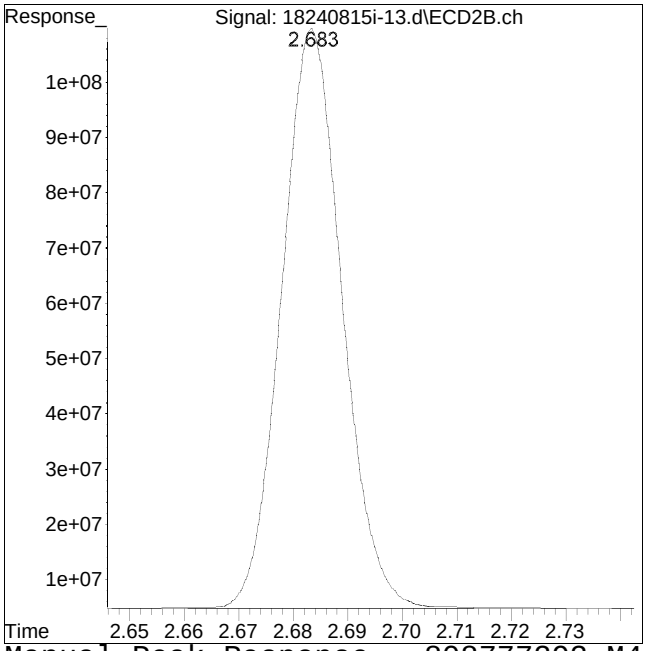
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-13.d
Date Inj'd : 8/15/2024 15:59
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/20/2024 12:40 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 811719881



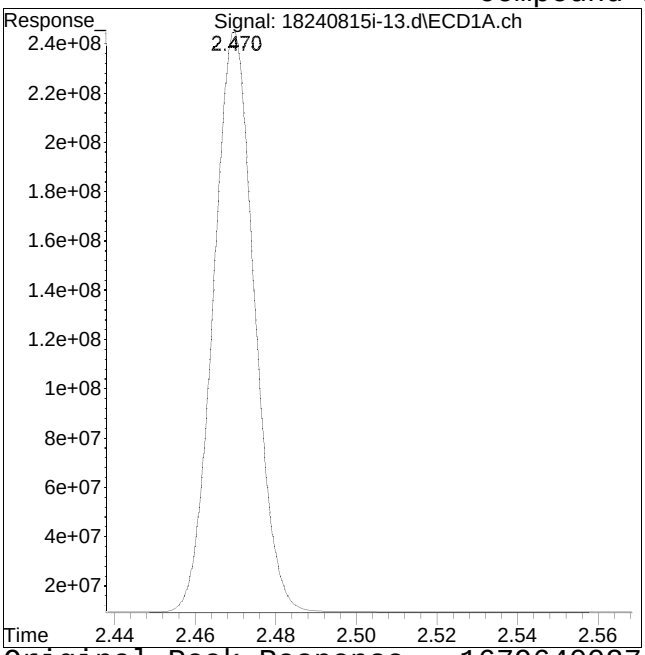
Manual Peak Response = 808777293 M4

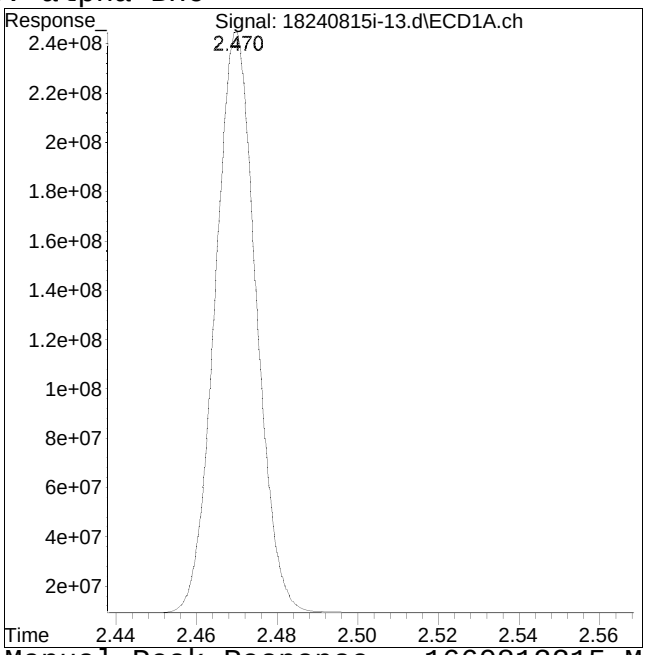
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #4: alpha-BHC



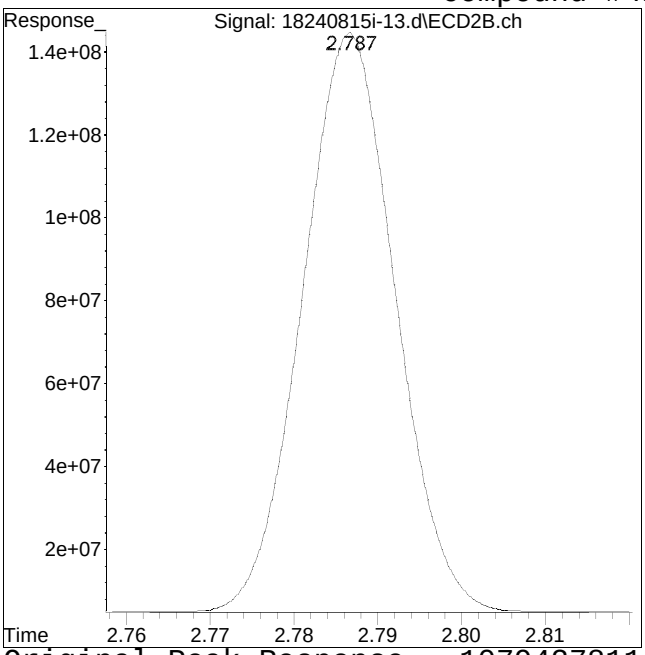


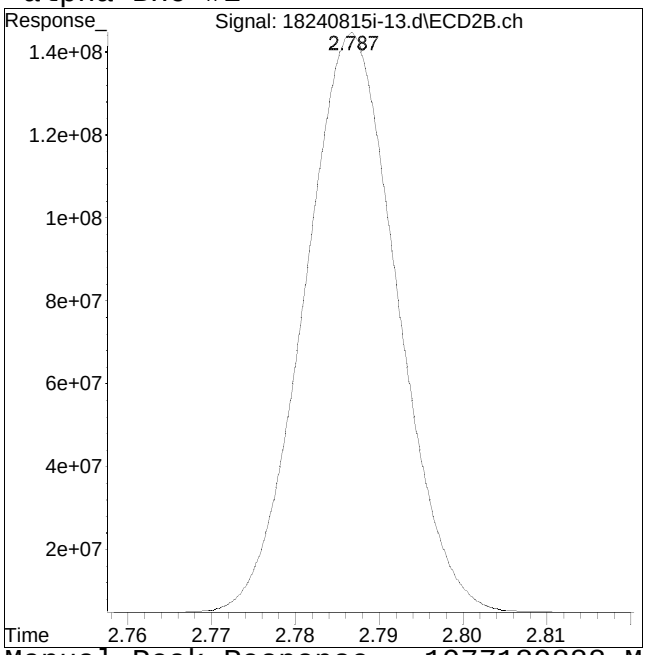
Original Peak Response = 1679640027 Manual Peak Response = 1660813215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #42: alpha-BHC #2



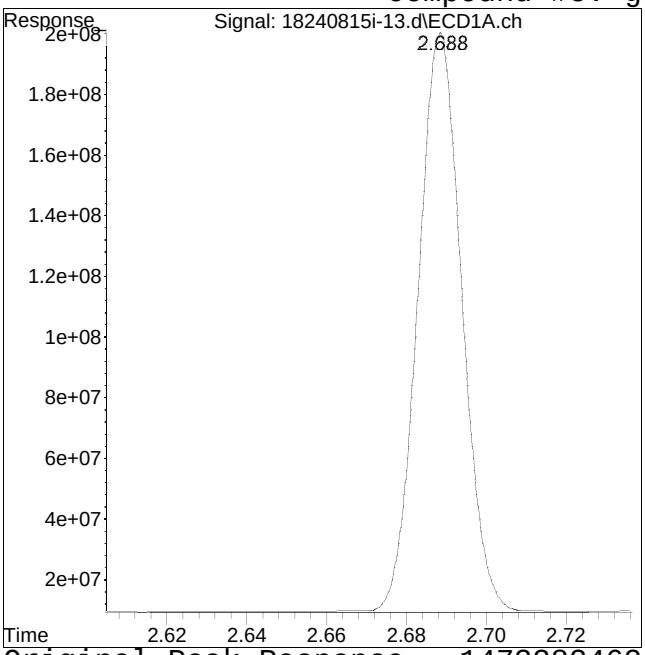


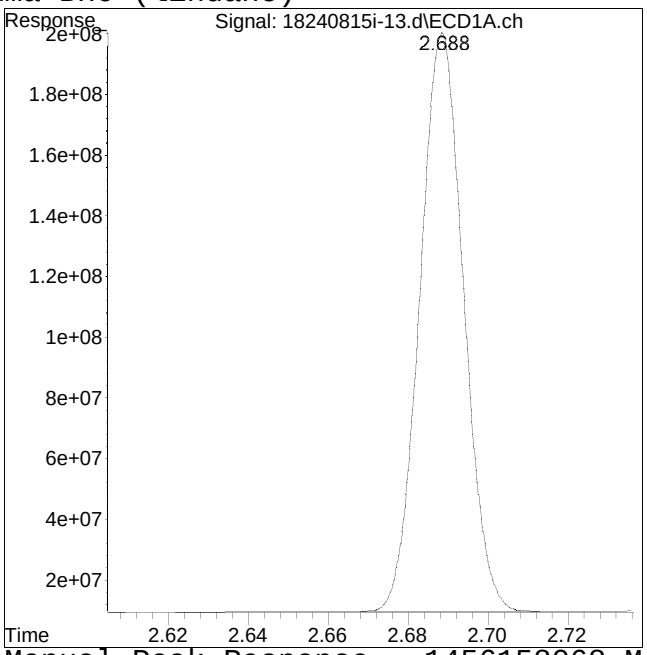
Original Peak Response = 1079427811 Manual Peak Response = 1077189888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #5: gamma-BHC (lindane)



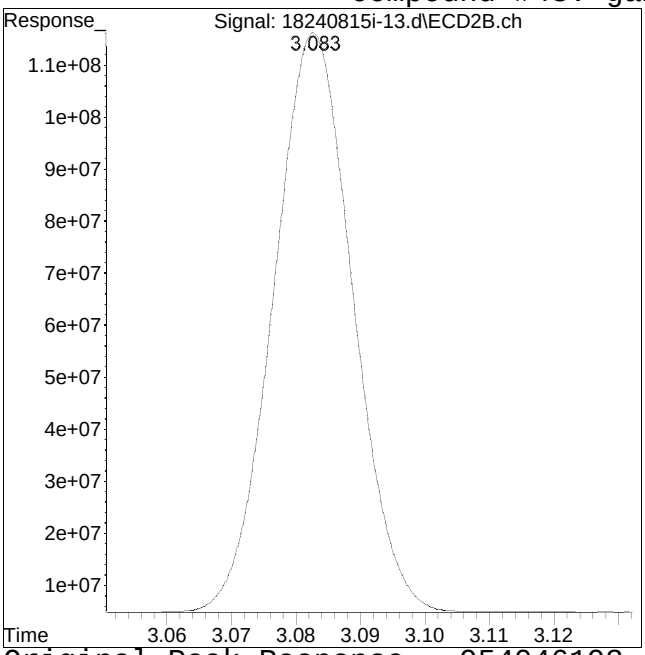


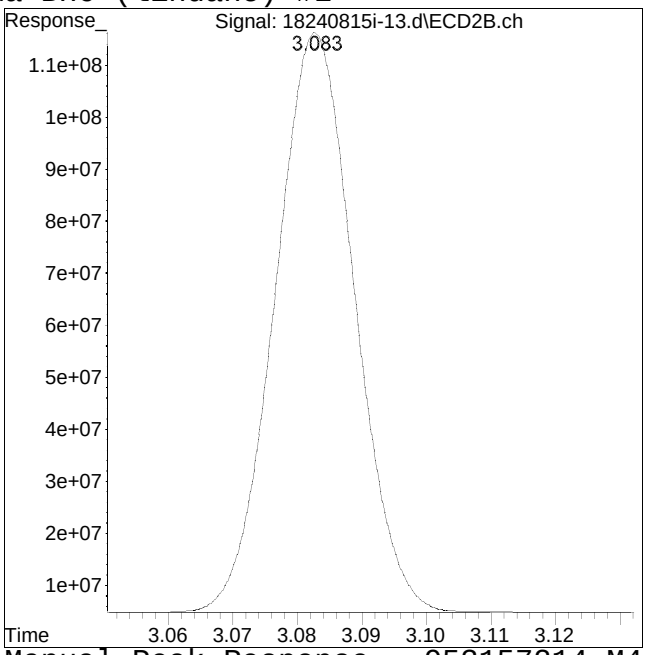
Original Peak Response = 1473282462 Manual Peak Response = 1456158068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #43: gamma-BHC (lindane) #2



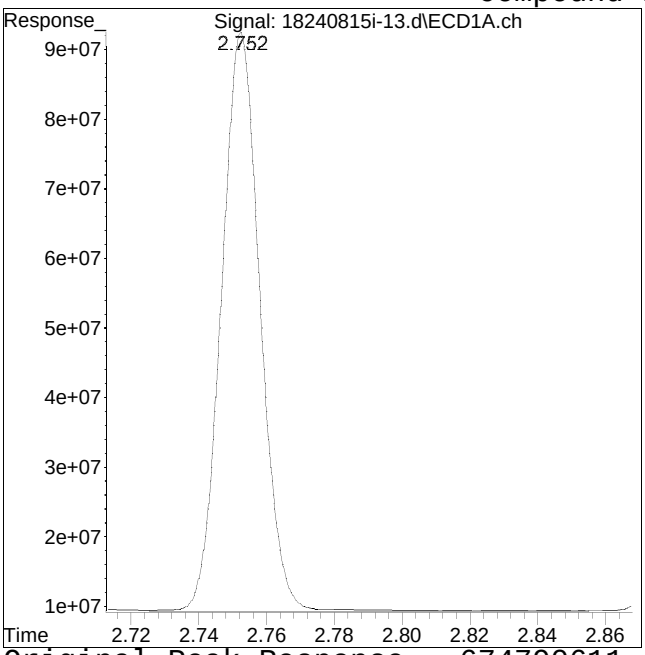


Original Peak Response = 954046193 Manual Peak Response = 953157214 M4
M4 = Poor automated baseline construction.

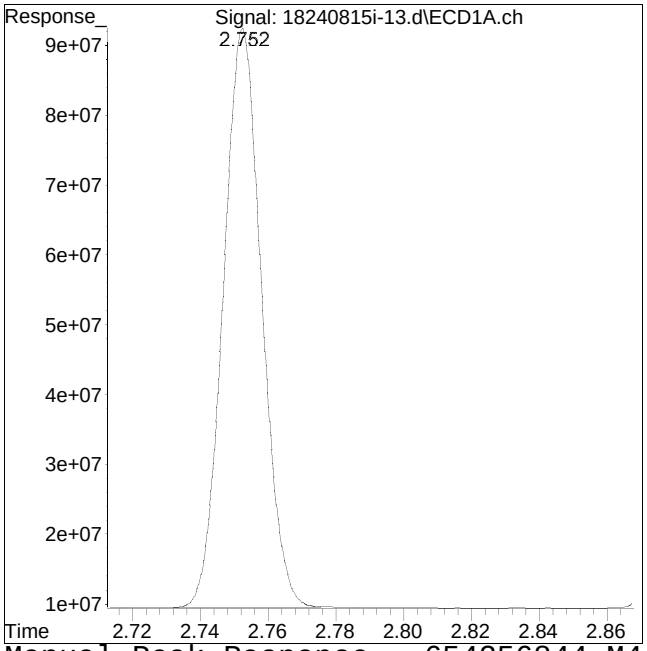
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #6: beta-BHC



Original Peak Response = 674790611

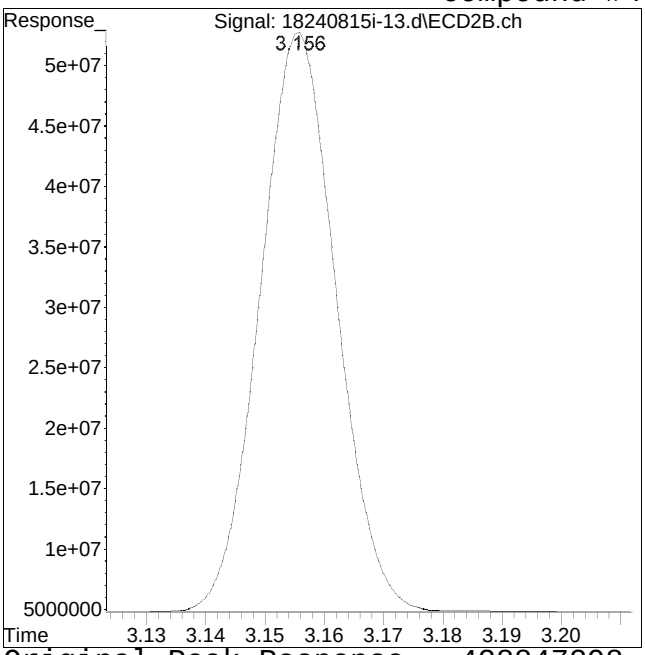


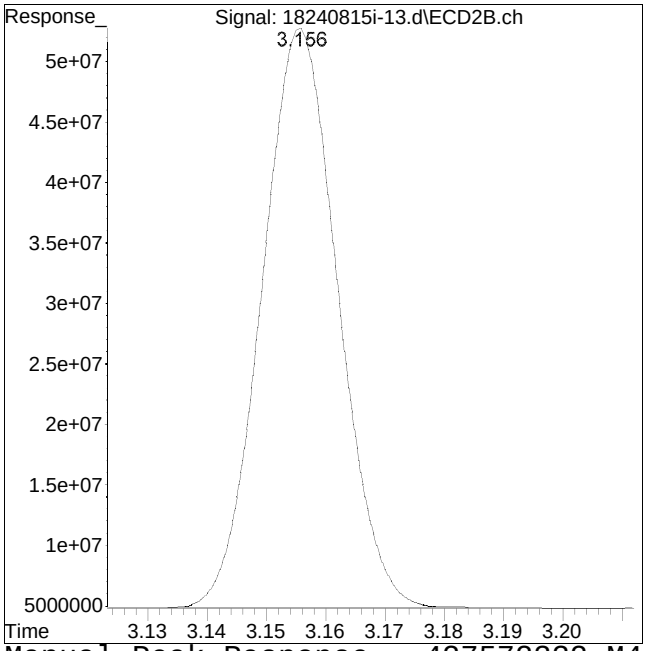
Manual Peak Response = 654256844 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #44: beta-BHC #2



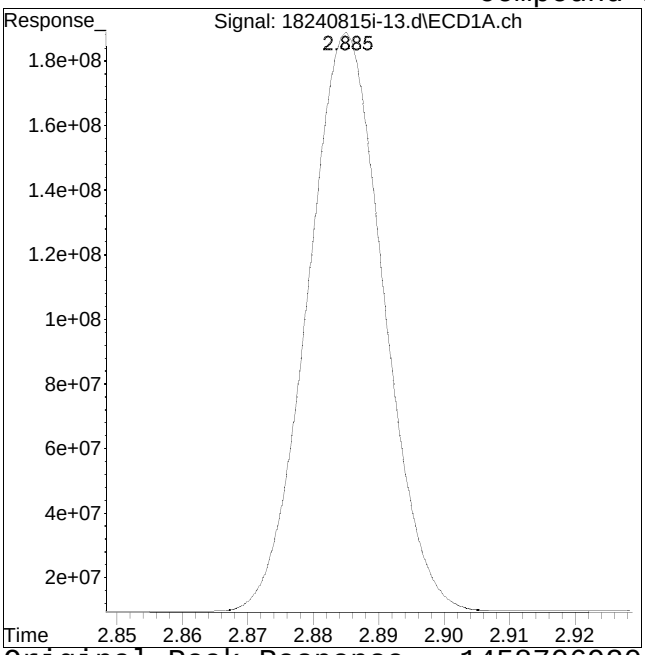


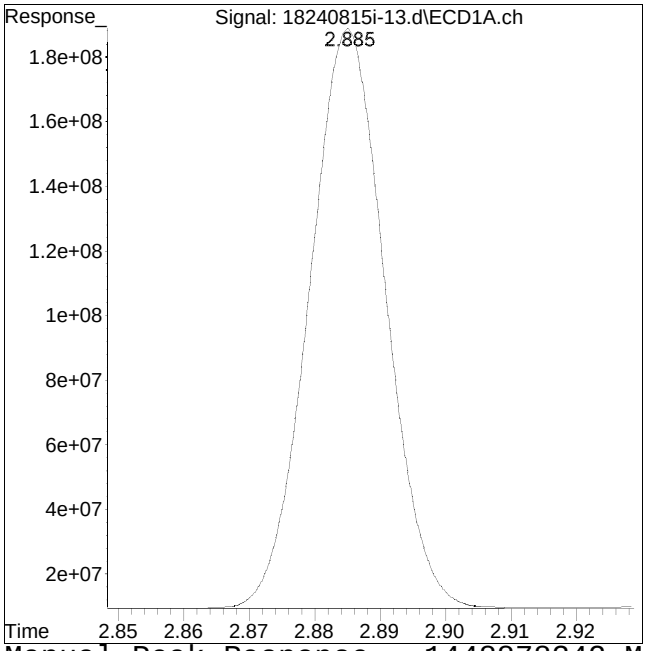
Original Peak Response = 428847298 Manual Peak Response = 427572332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #7: delta-BHC



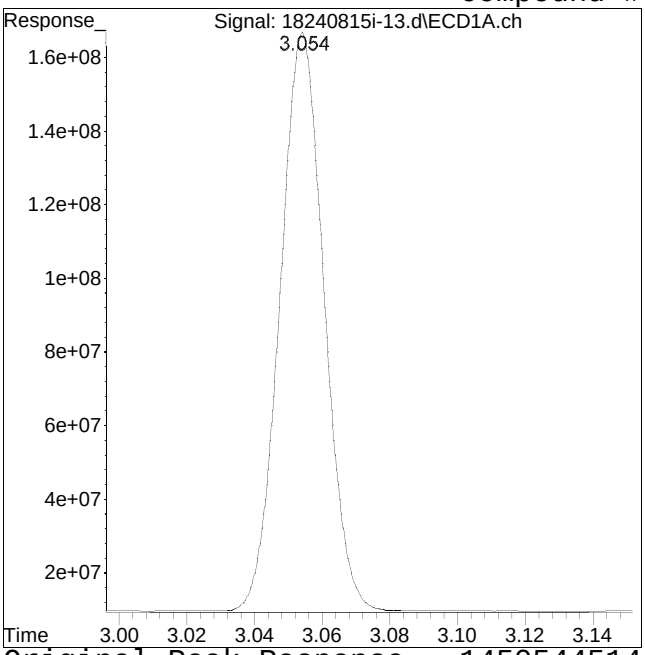


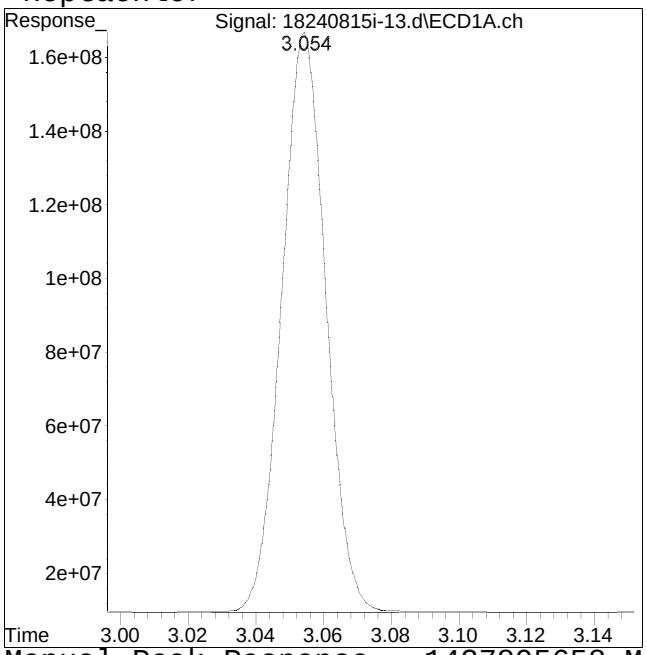
Original Peak Response = 1458706920 Manual Peak Response = 1448878342 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #8: Heptachlor



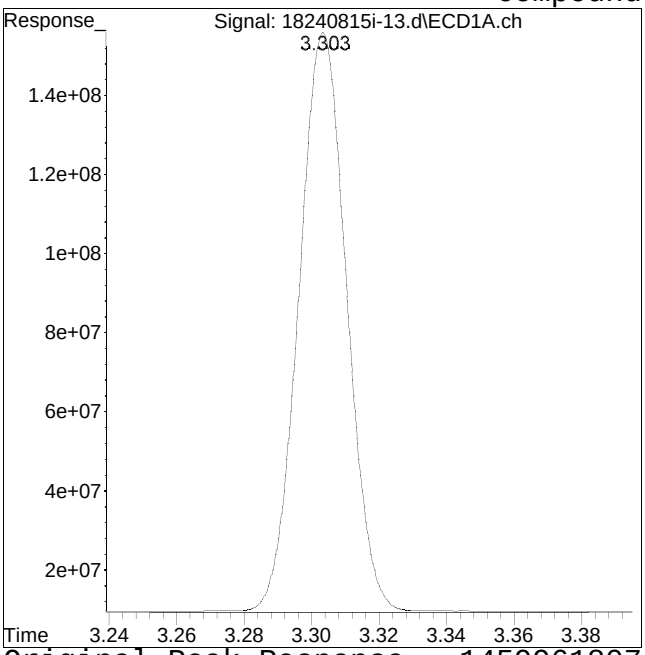


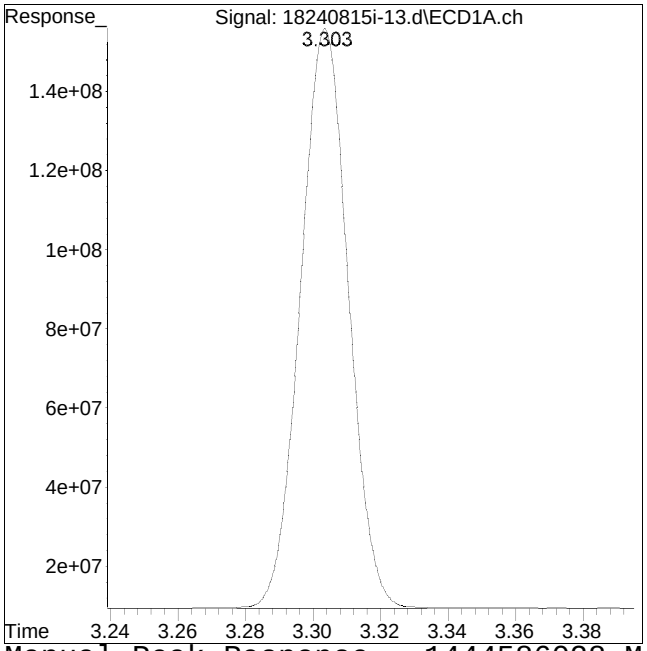
Original Peak Response = 1450544514 Manual Peak Response = 1427895658 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #9: Aldrin



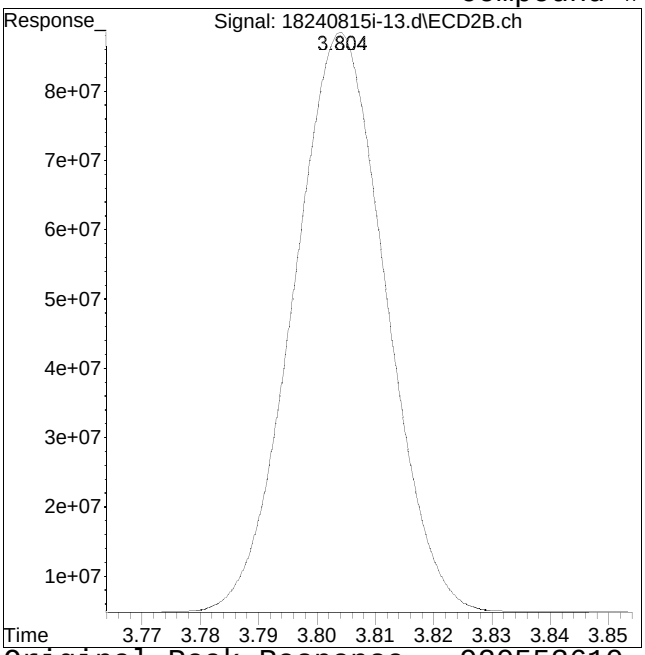


Original Peak Response = 1459961807 Manual Peak Response = 1444586028 M4
M4 = Poor automated baseline construction.

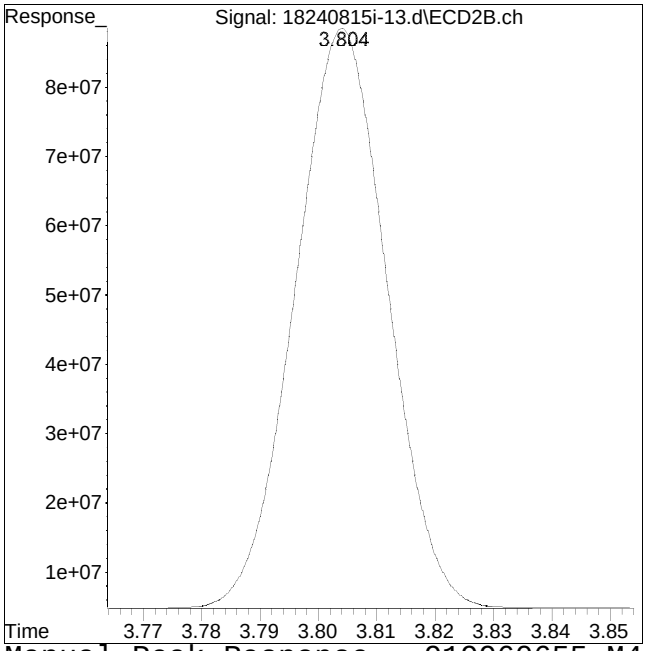
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #47: Aldrin #2



Original Peak Response = 920553610

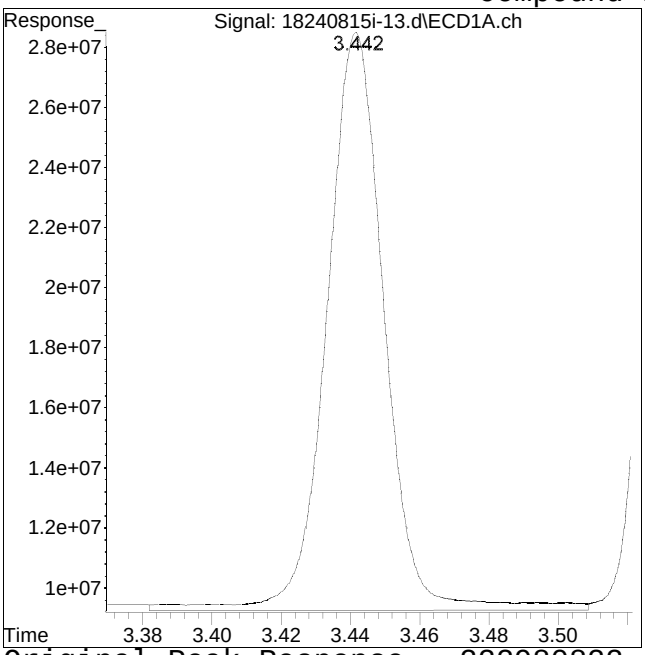


Manual Peak Response = 919960655 M4
M4 = Poor automated baseline construction.

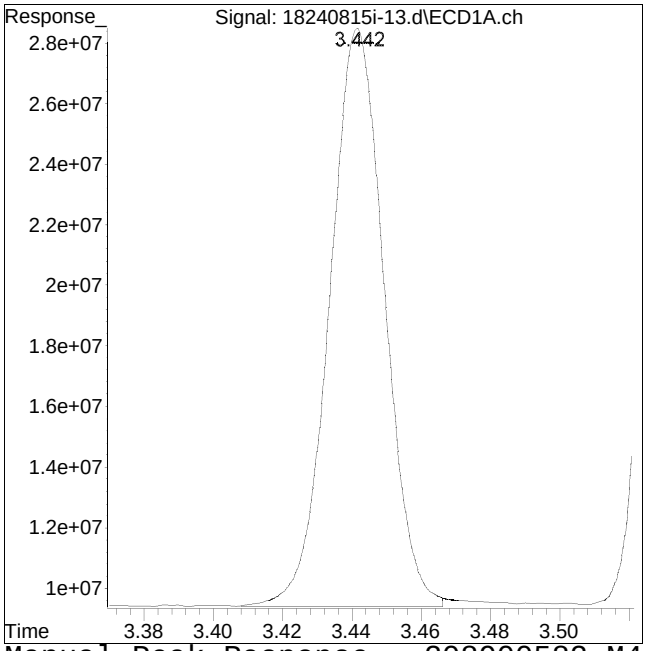
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #10: Alachlor



Original Peak Response = 222980822



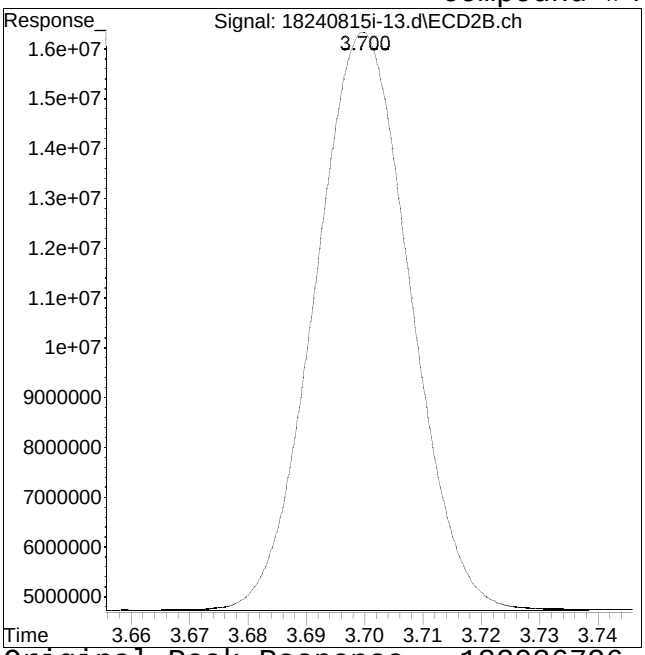
Manual Peak Response = 208900582 M4

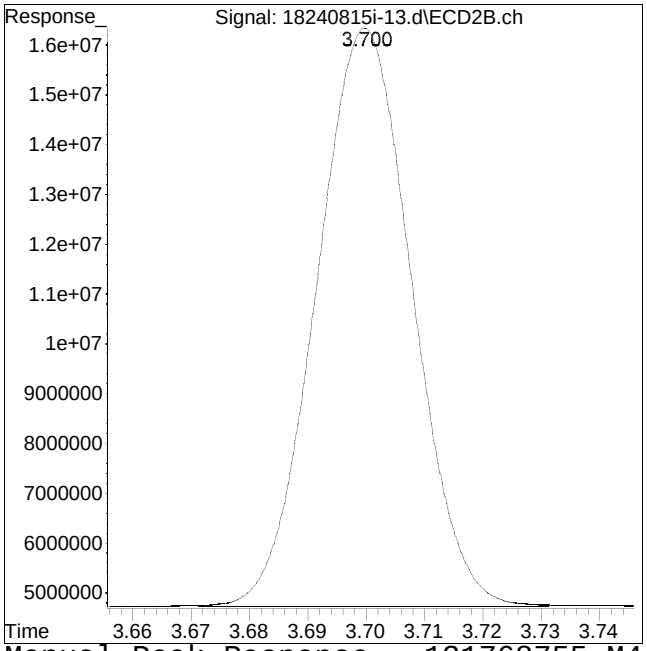
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #48: Alachlor #2



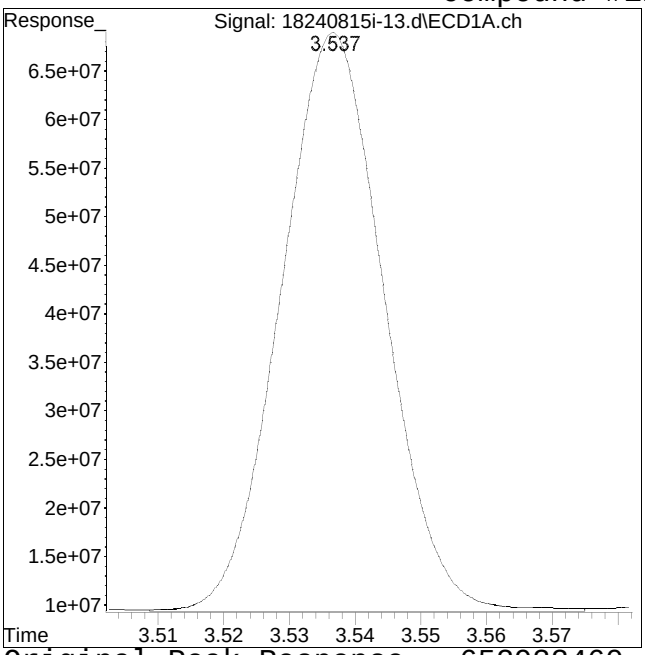


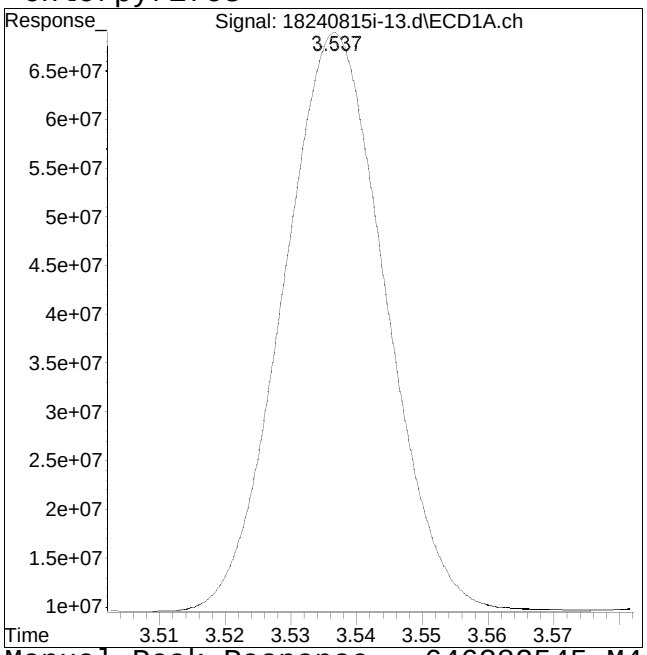
Original Peak Response = 132036726 Manual Peak Response = 131768755 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #11: Chlorpyrifos



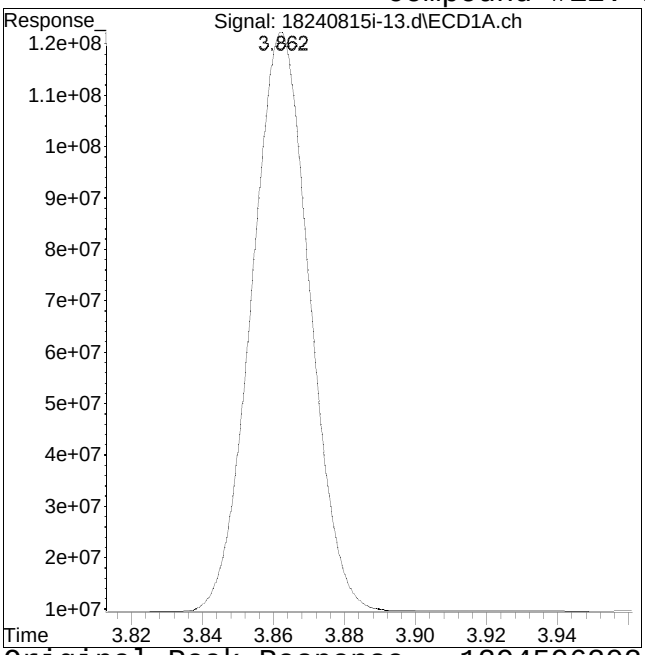


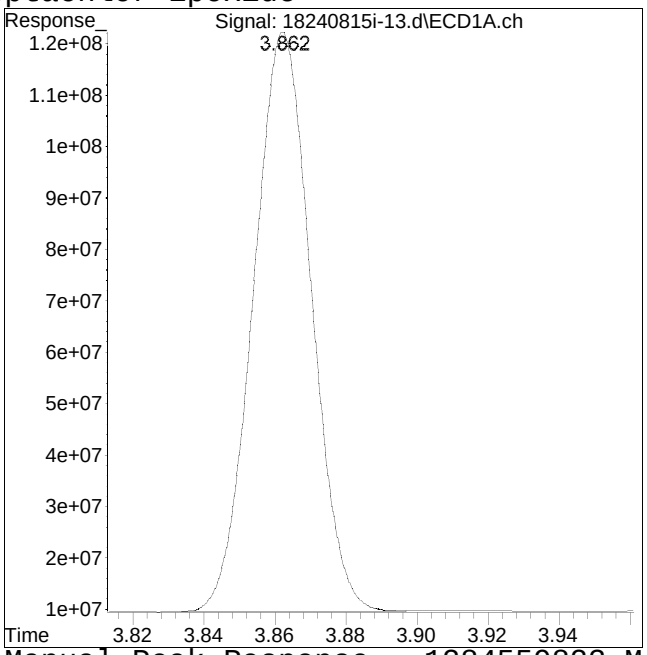
Original Peak Response = 652932460 Manual Peak Response = 646382545 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #12: Heptachlor Epoxide



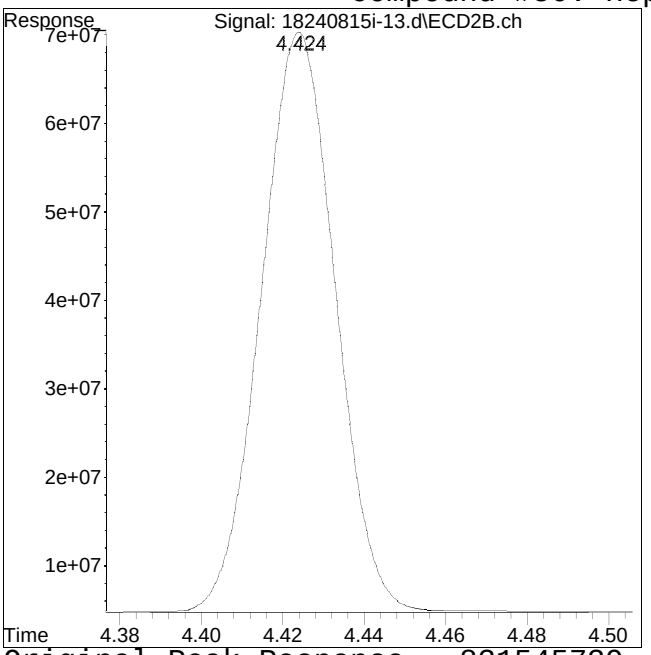


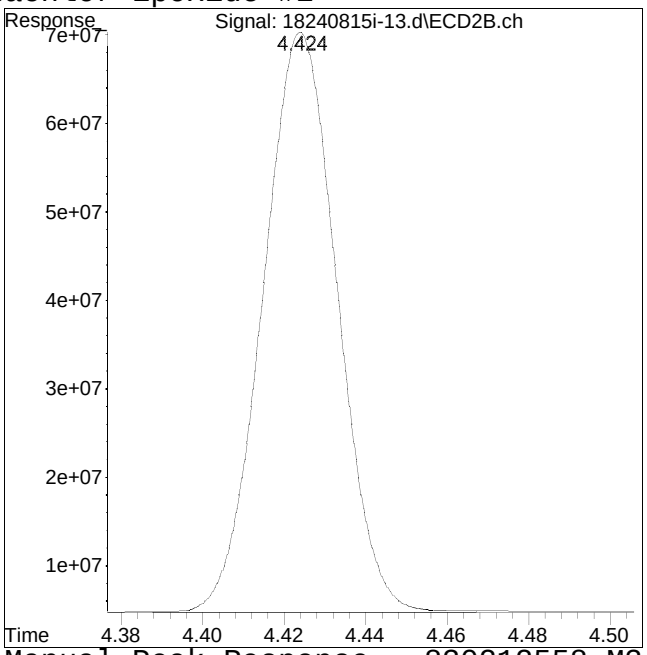
Original Peak Response = 1294596202 Manual Peak Response = 1284559823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #50: Heptachlor Epoxide #2



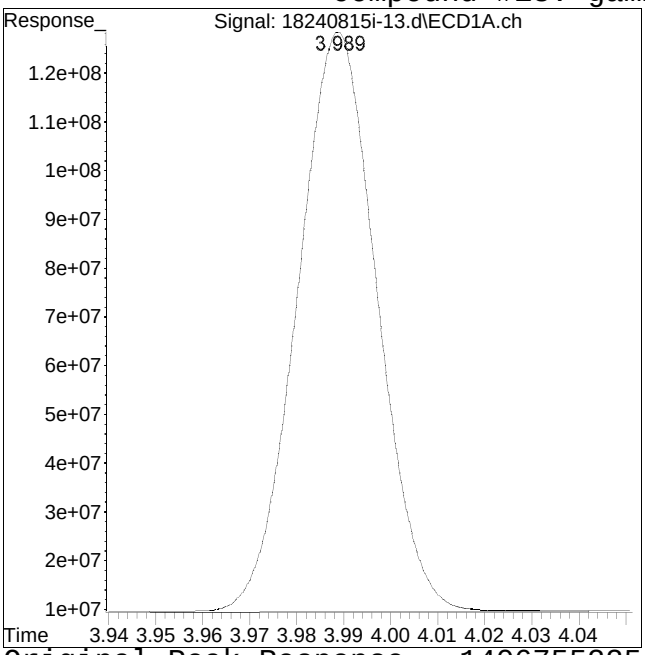


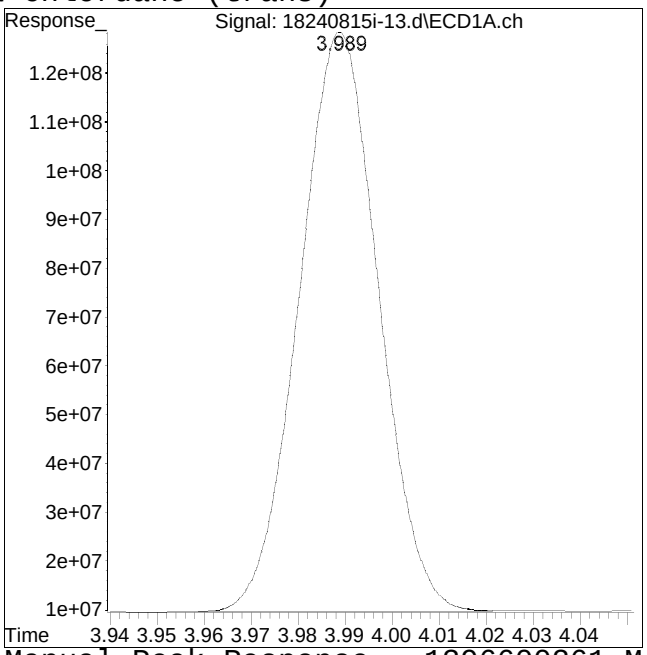
Original Peak Response = 831545739 Manual Peak Response = 830212558 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #13: gamma-Chlordane (trans)



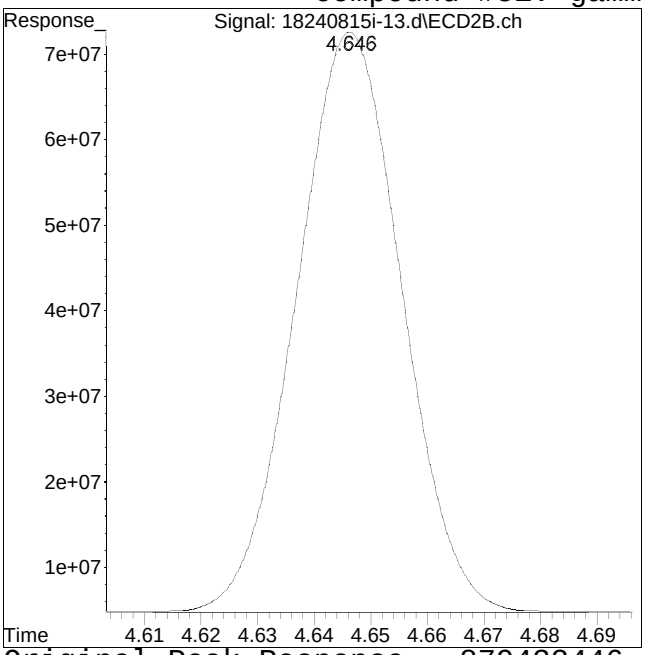


Original Peak Response = 1406755225 Manual Peak Response = 1396600261 M4
M4 = Poor automated baseline construction.

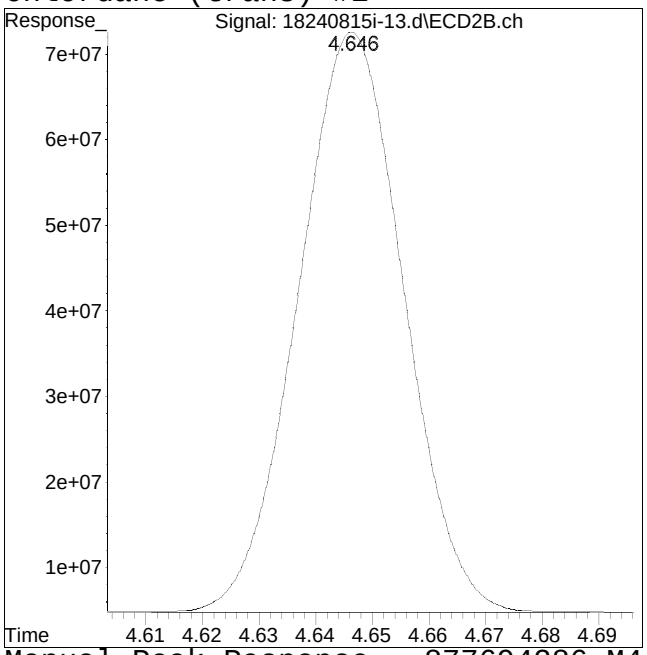
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 879432446

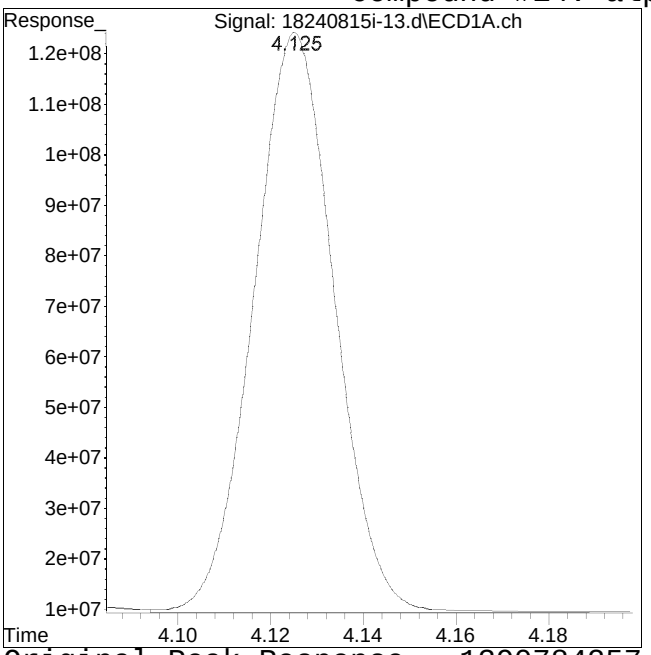


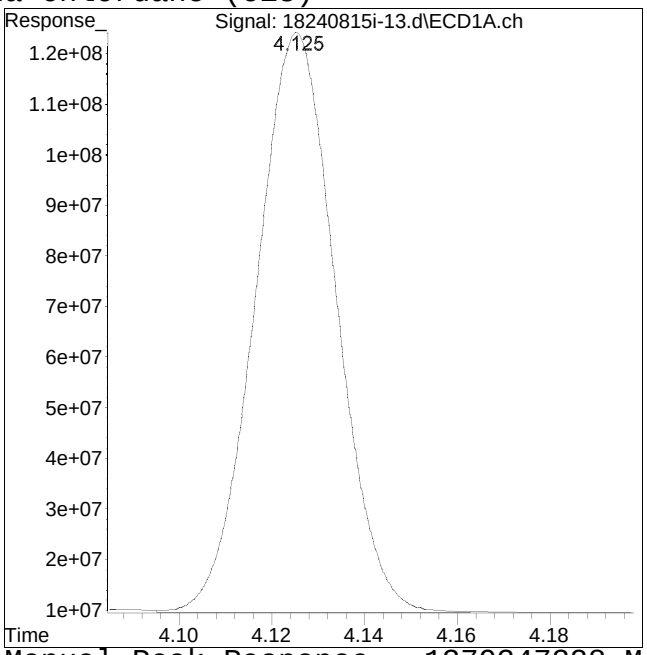
Manual Peak Response = 877694286 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #14: alpha-Chlordane (cis)



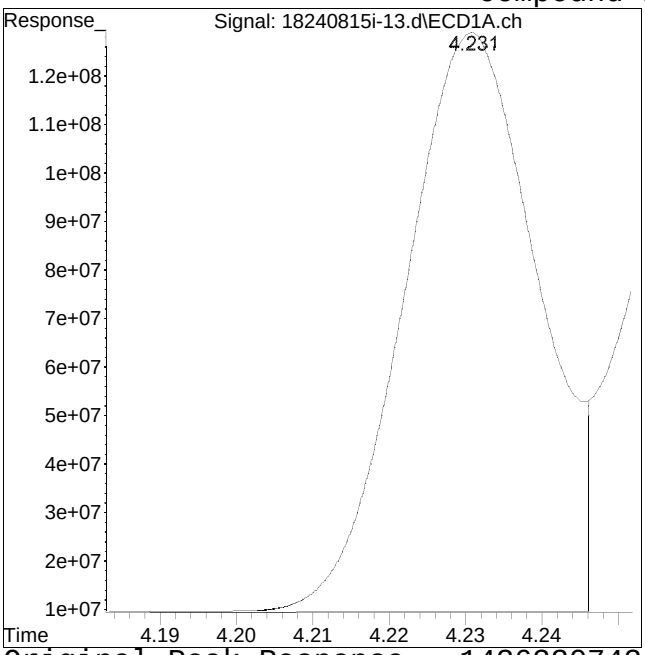


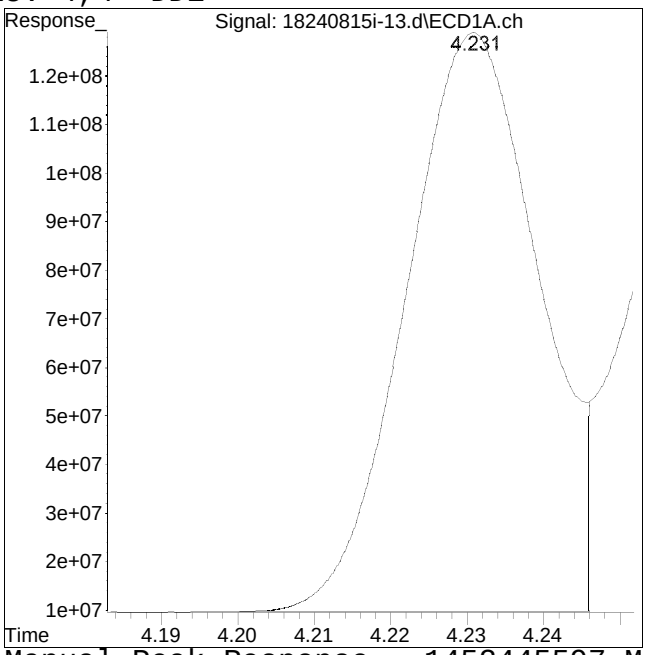
Original Peak Response = 1390784257 Manual Peak Response = 1379347328 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #15: 4,4'-DDE



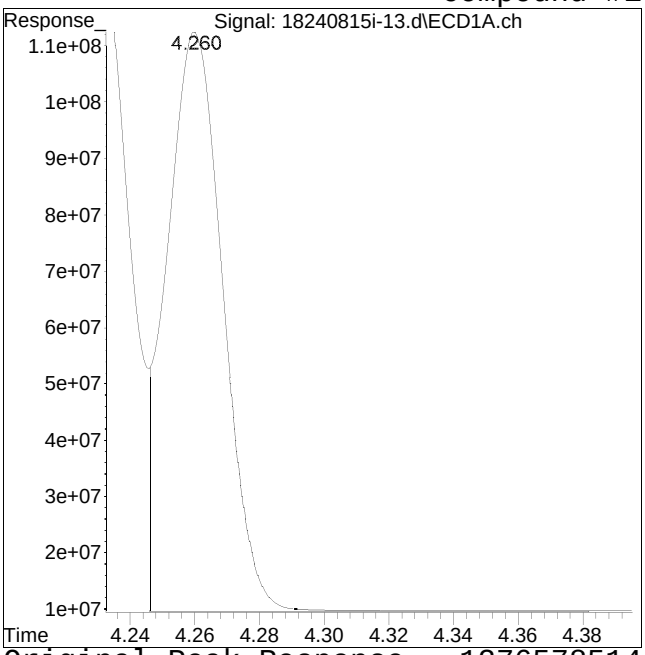


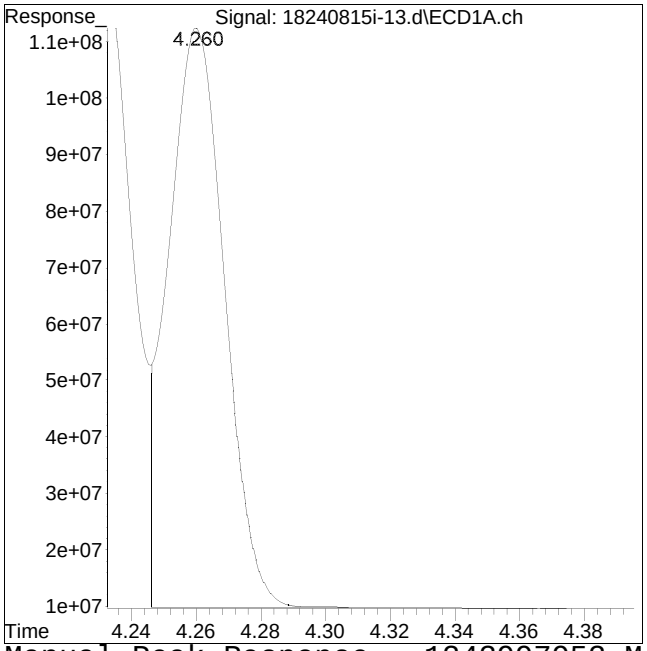
Original Peak Response = 1436330743 Manual Peak Response = 1452445597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #16: Endosulfan I



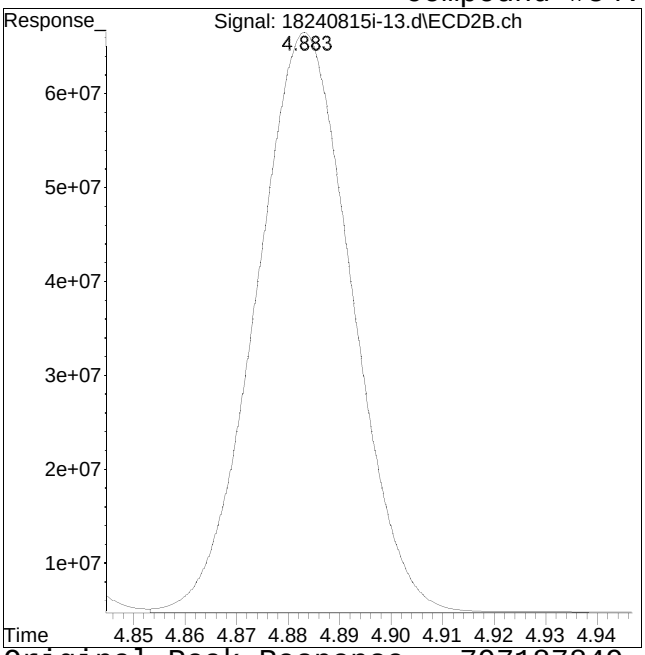


Original Peak Response = 1276578514 Manual Peak Response = 1243997953 M4
M4 = Poor automated baseline construction.

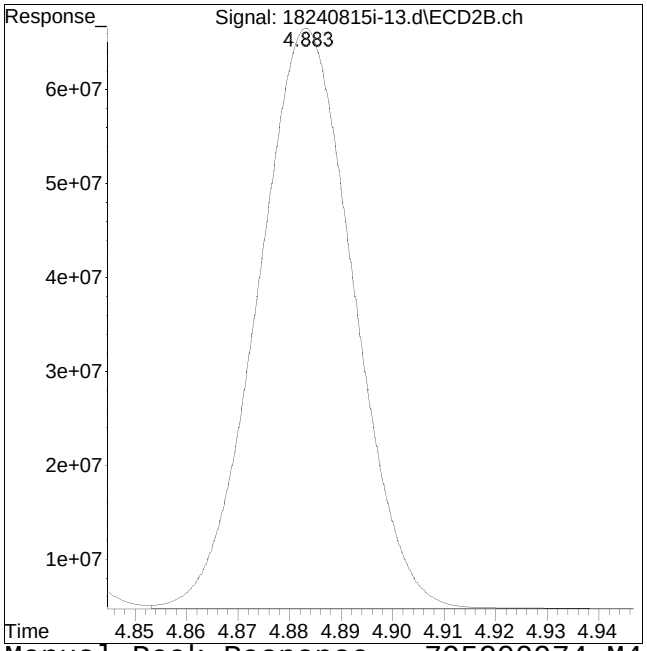
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #54: Endosulfan I #2



Original Peak Response = 797187849



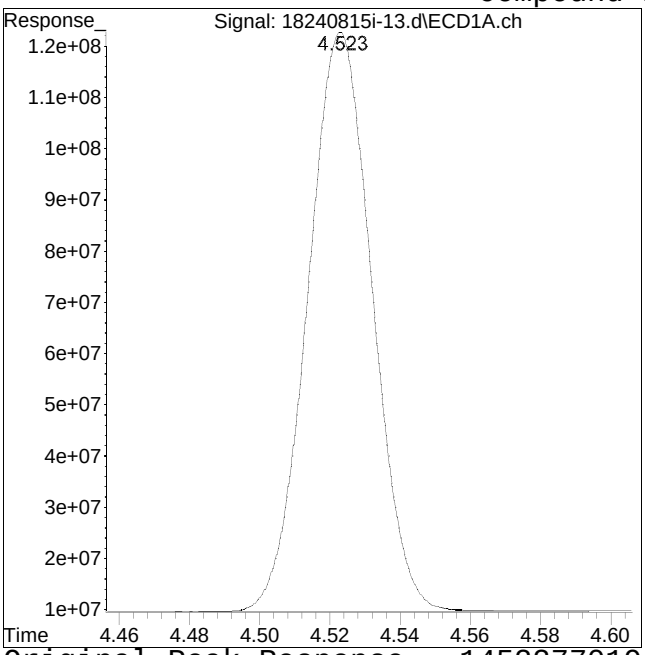
Manual Peak Response = 795200974 M4

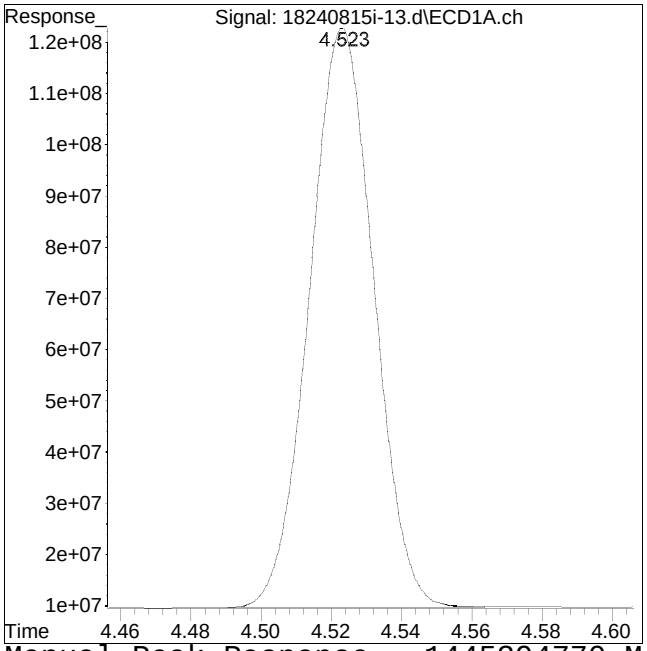
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #17: Dieldrin





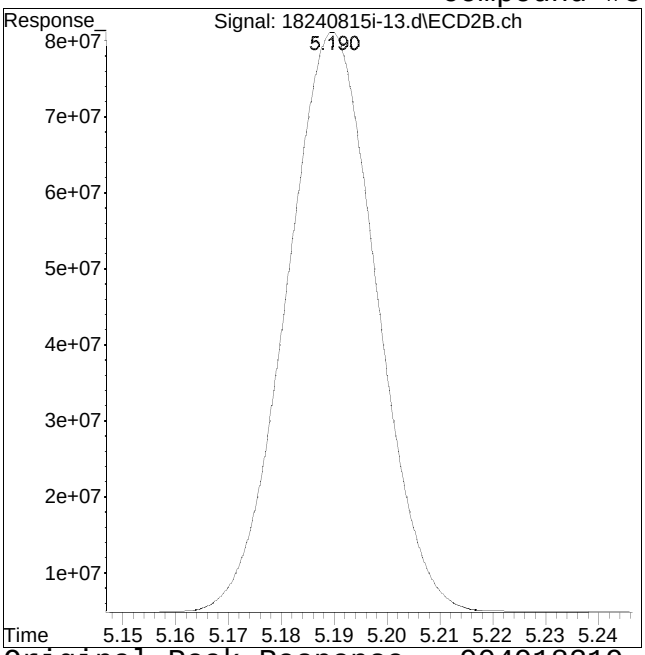
Original Peak Response = 1452277019 Manual Peak Response = 1445394770 M4
M4 = Poor automated baseline construction.

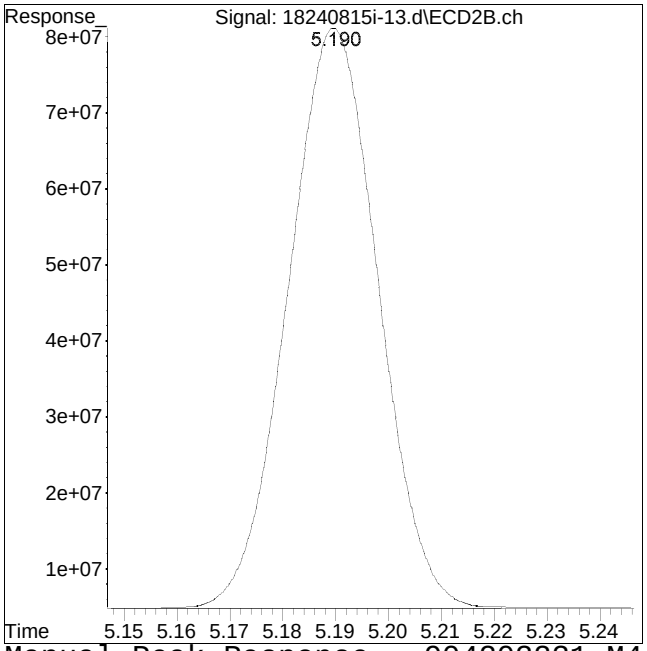
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-13.d
Date Inj'd : 8/15/2024 15:59
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/20/2024 12:40 pm

Compound #55: Dieldrin #2



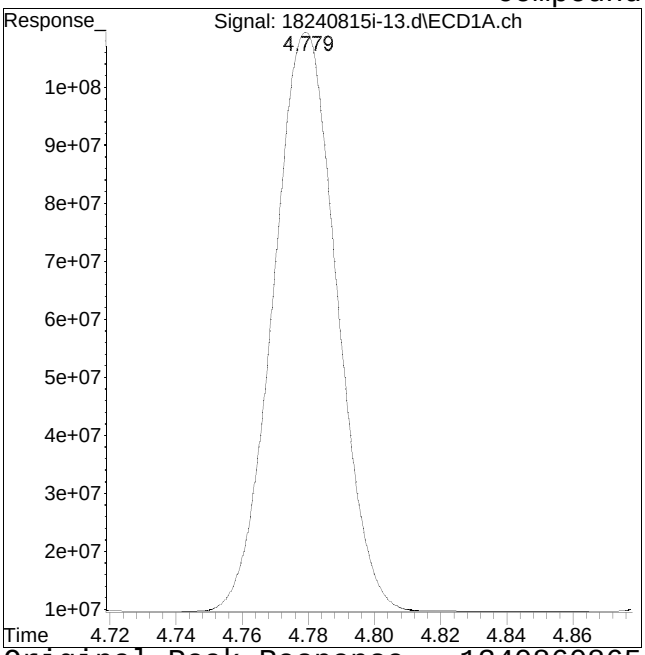


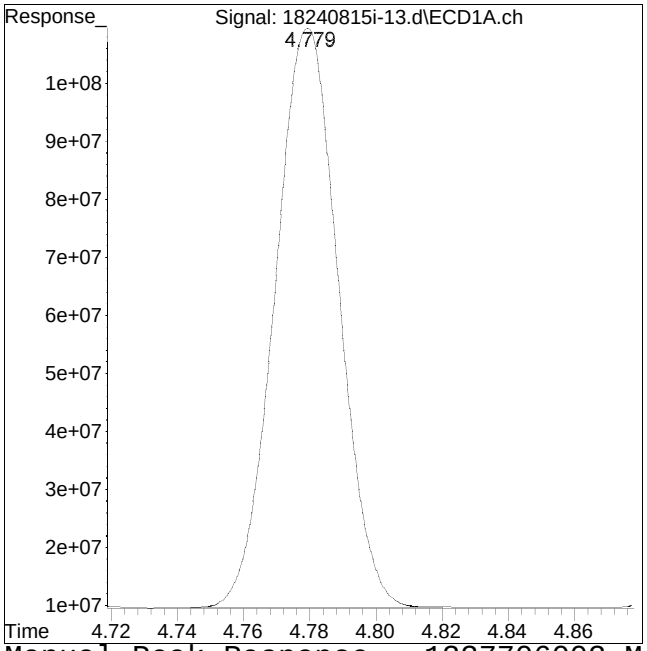
Original Peak Response = 904918319 Manual Peak Response = 904203231 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #18: Endrin



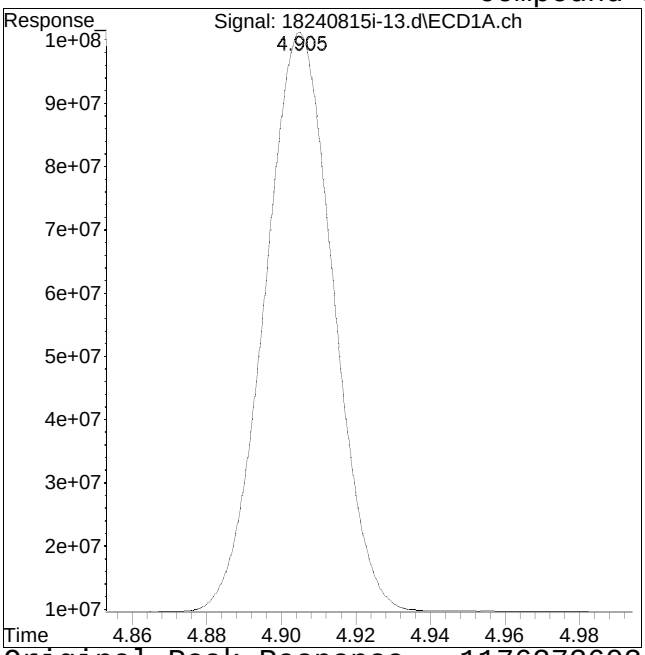


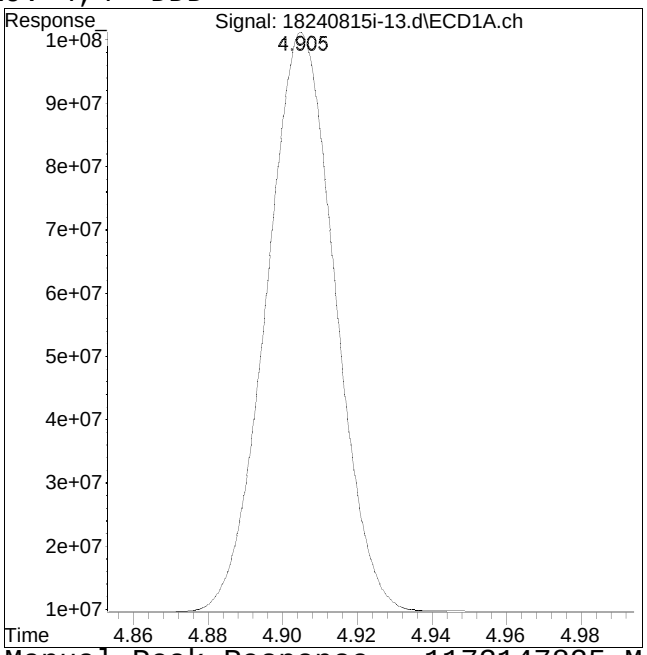
Original Peak Response = 1340860865 Manual Peak Response = 1337706003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #19: 4,4'-DDD



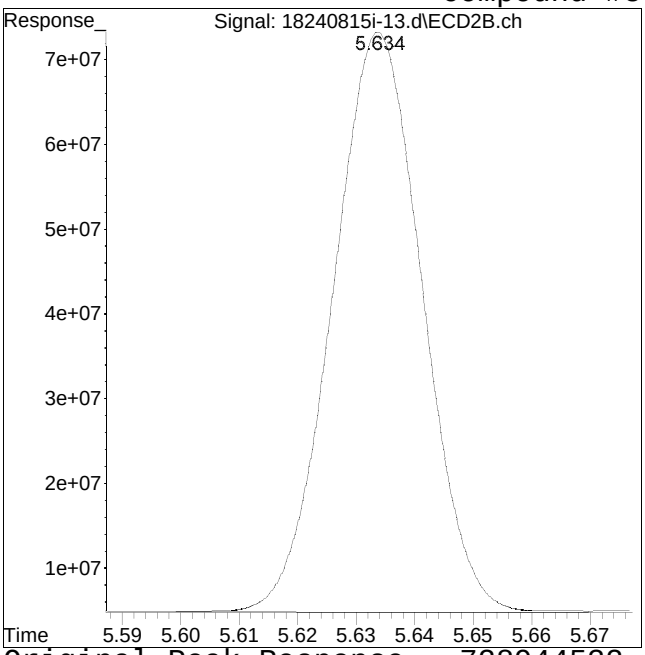


Original Peak Response = 1176273603 Manual Peak Response = 1173147825 M4
M4 = Poor automated baseline construction.

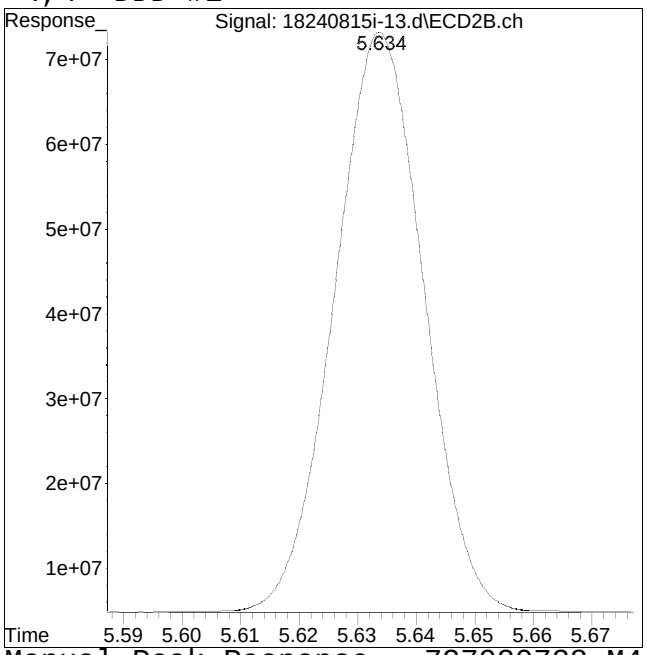
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 728944532



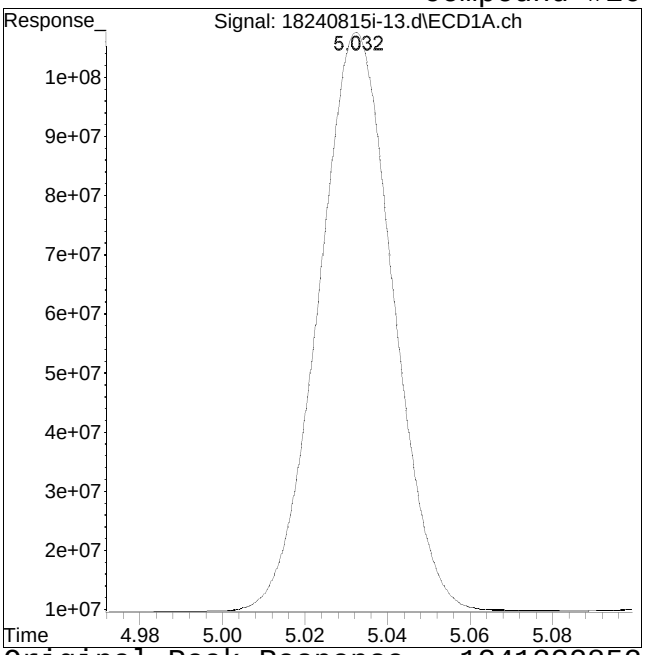
Manual Peak Response = 727920728 M4

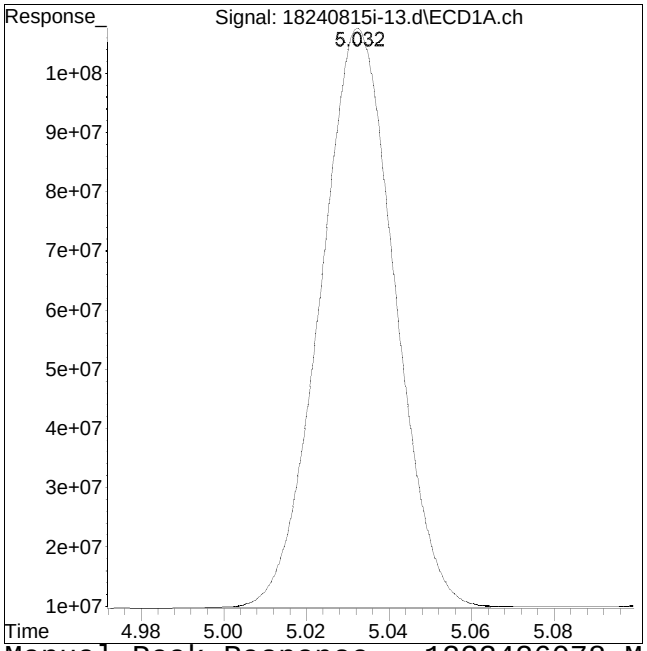
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #20: Endosulfan II



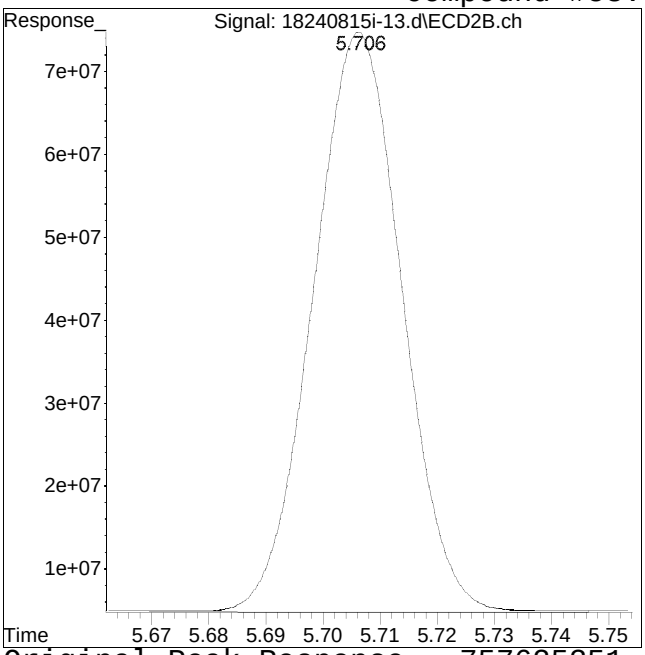


Original Peak Response = 1241332852 Manual Peak Response = 1233426078 M4
M4 = Poor automated baseline construction.

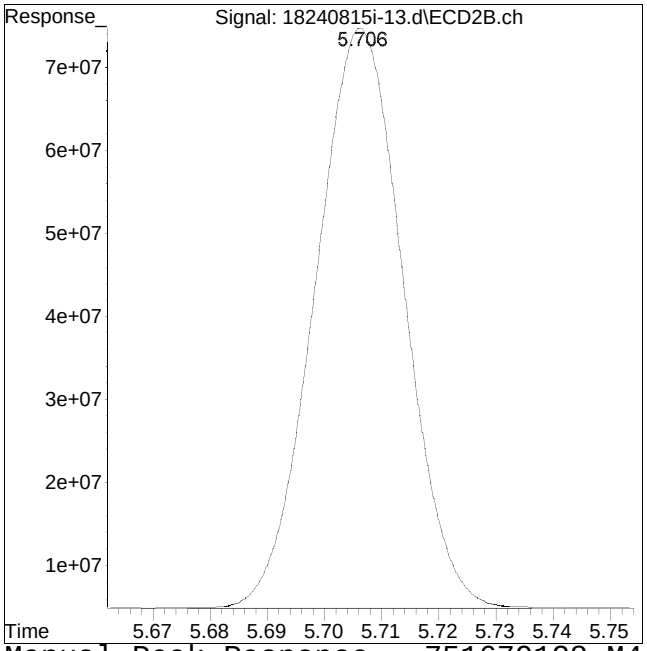
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #58: Endosulfan II #2



Original Peak Response = 757625351

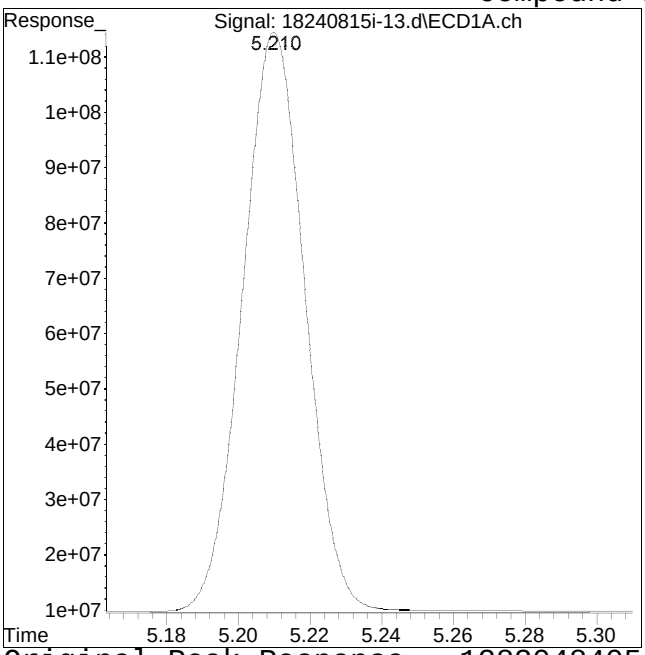


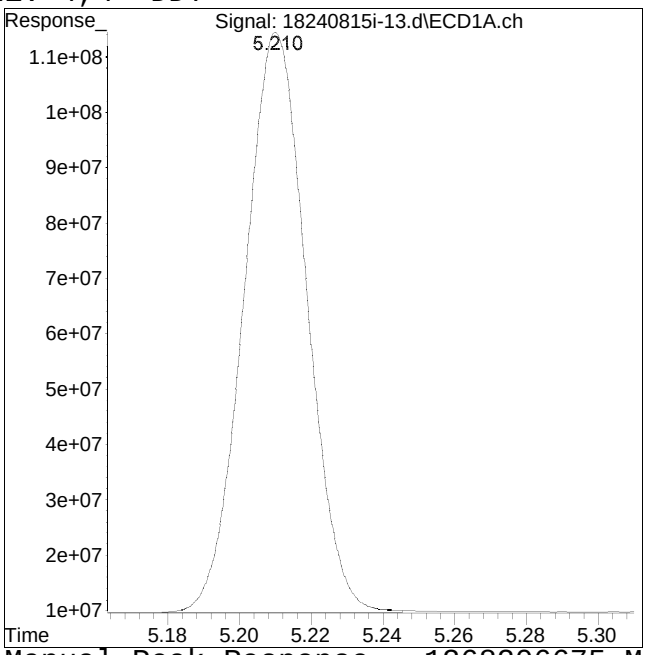
Manual Peak Response = 751679128 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #21: 4,4'-DDT





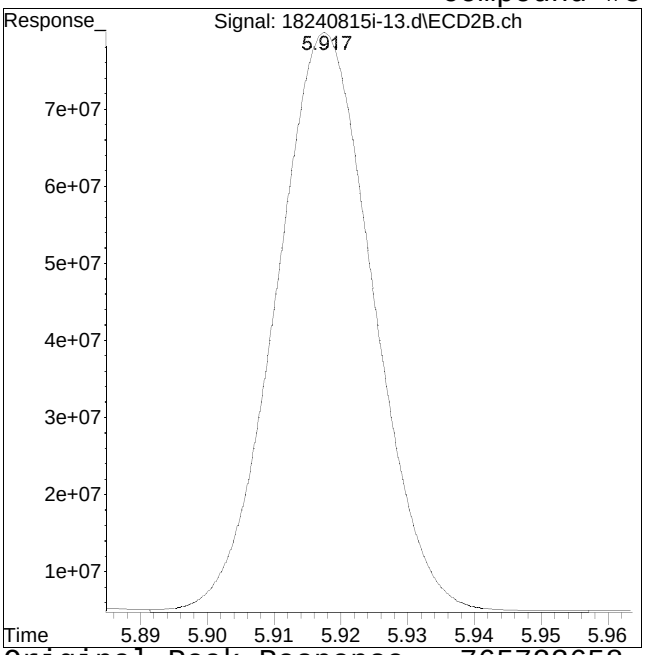
Original Peak Response = 1283048405 Manual Peak Response = 1268206675 M4
M4 = Poor automated baseline construction.

Manual Integration Report

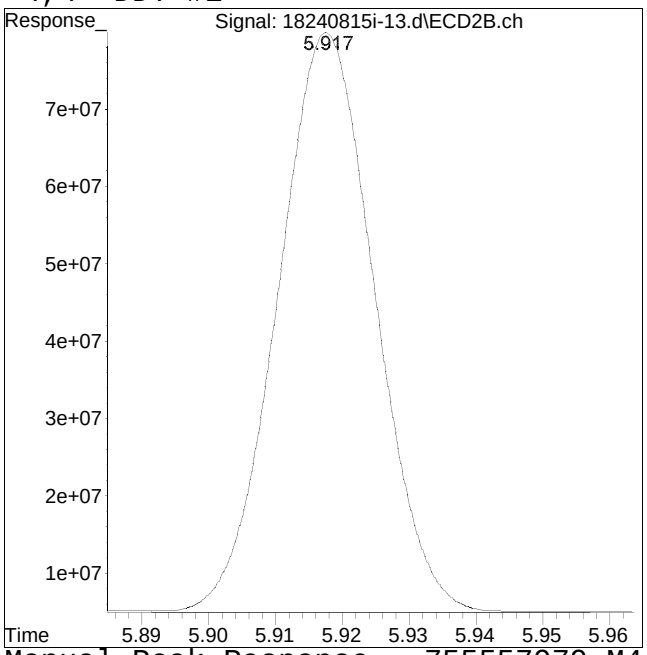
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-13.d
Date Inj'd : 8/15/2024 15:59
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/20/2024 12:40 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 765723658



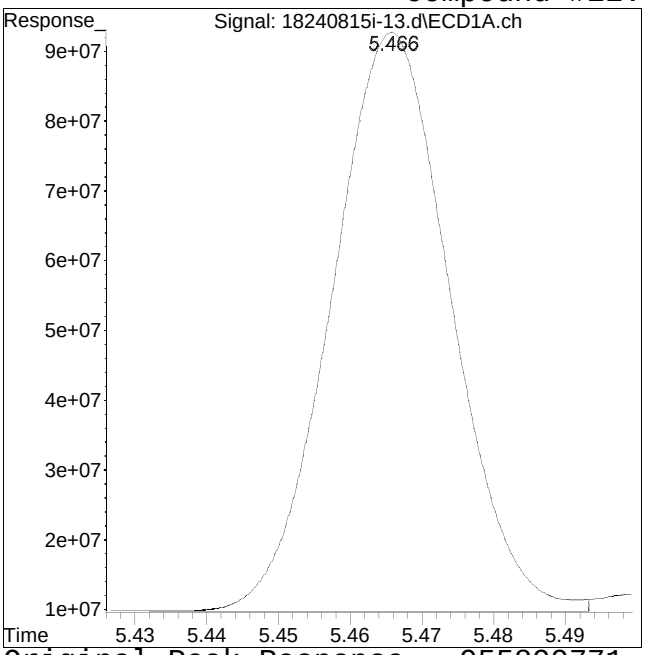
Manual Peak Response = 755557979 M4

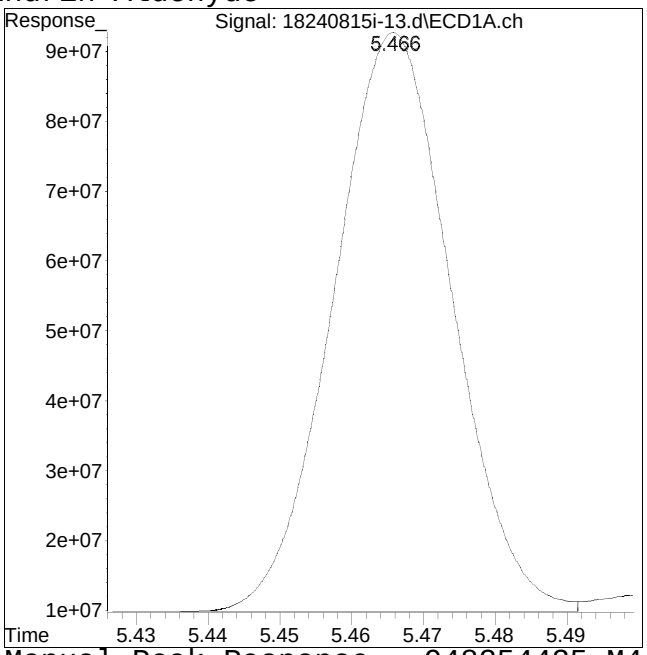
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #22: Endrin Aldehyde



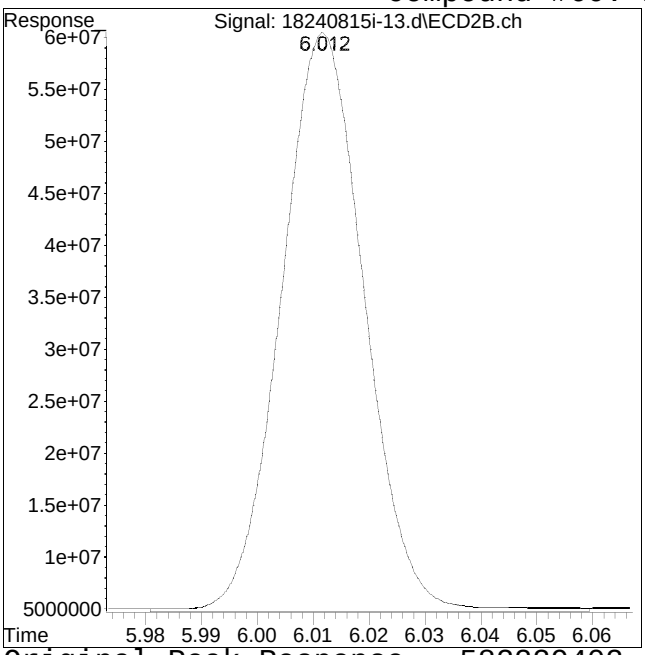


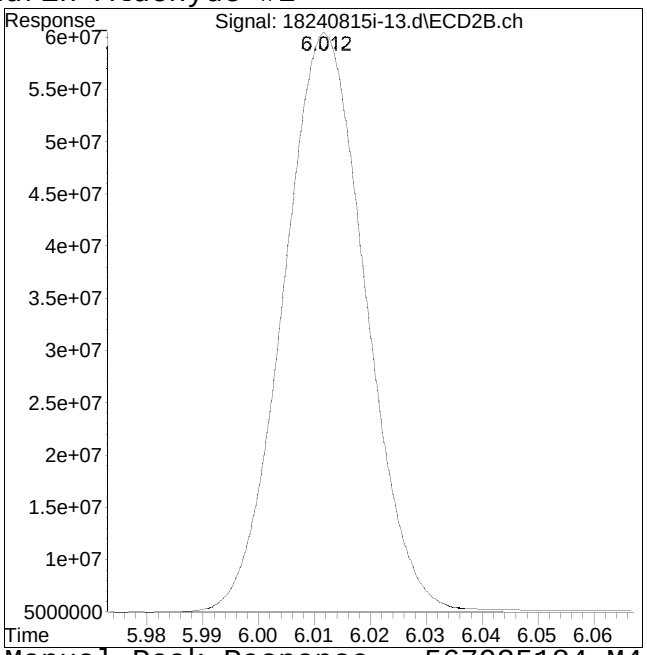
Original Peak Response = 955899771 Manual Peak Response = 948354435 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #60: Endrin Aldehyde #2



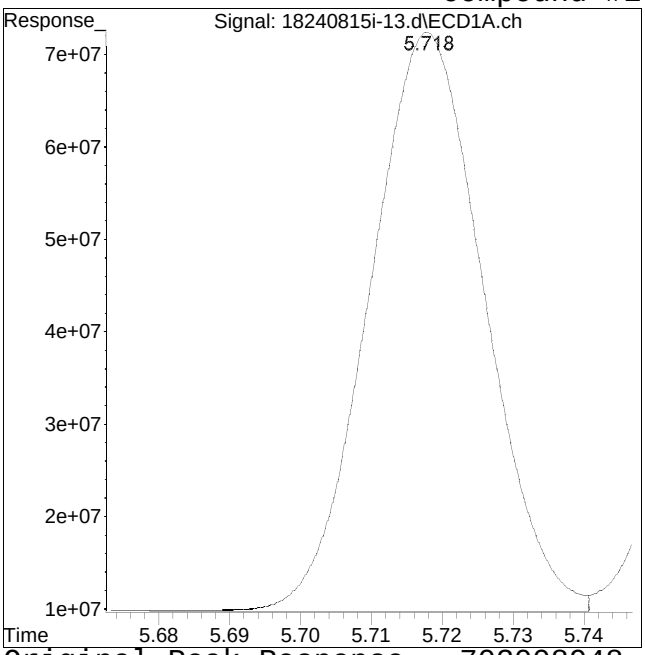


Original Peak Response = 582229402 Manual Peak Response = 567935184 M4
M4 = Poor automated baseline construction.

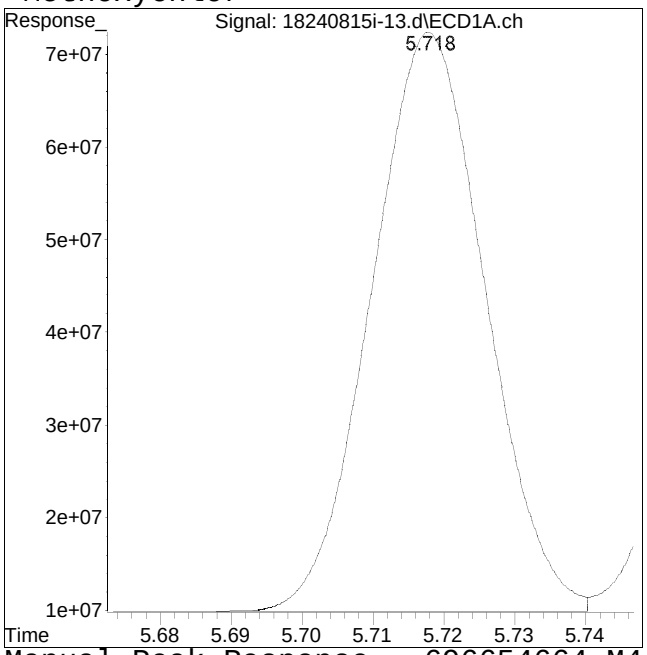
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #23: Methoxychlor



Original Peak Response = 703008948



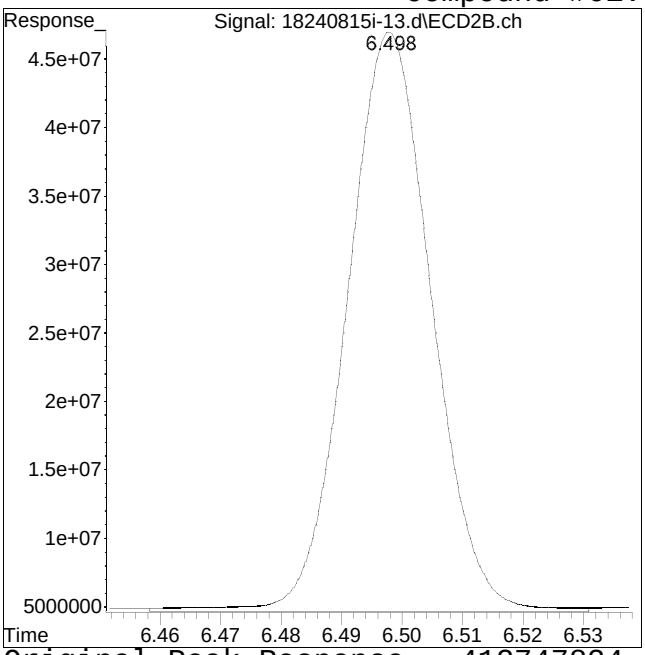
Manual Peak Response = 696654664 M4

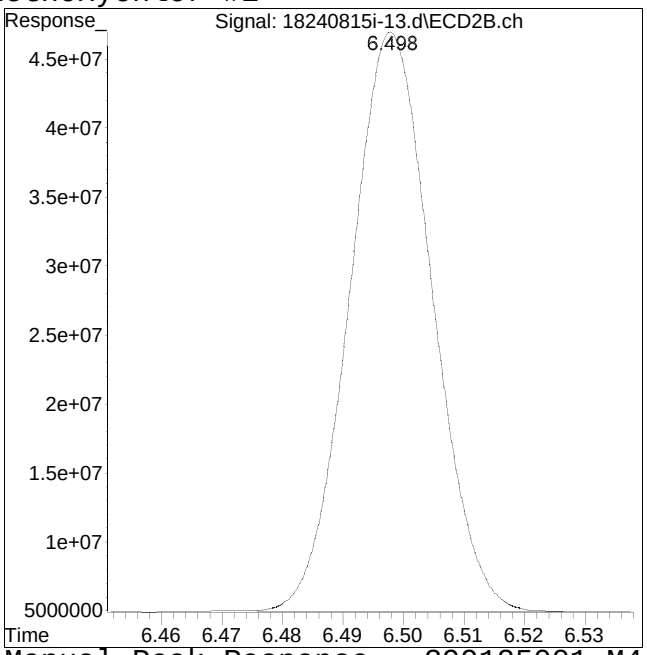
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #61: Methoxychlor #2



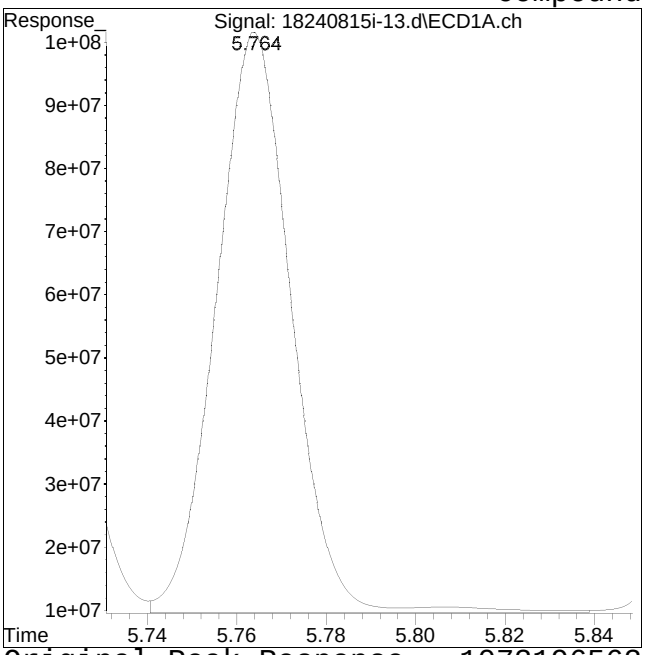


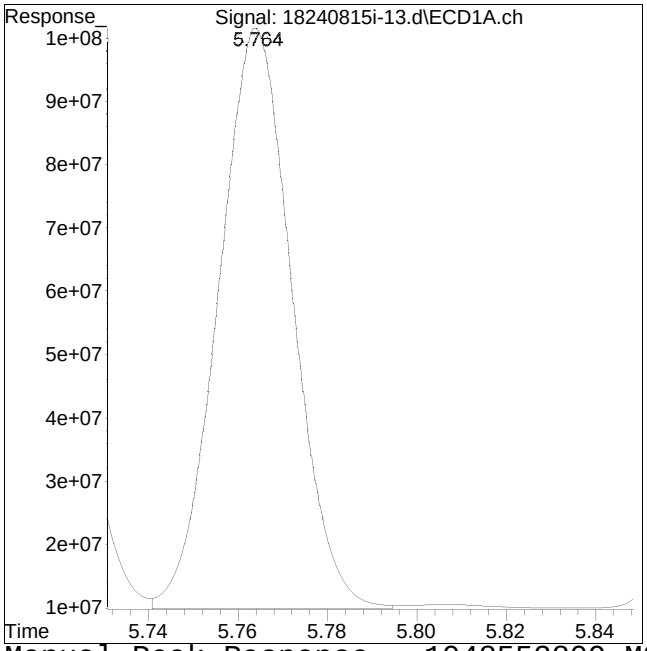
Original Peak Response = 412747824 Manual Peak Response = 399125001 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #24: Mirex



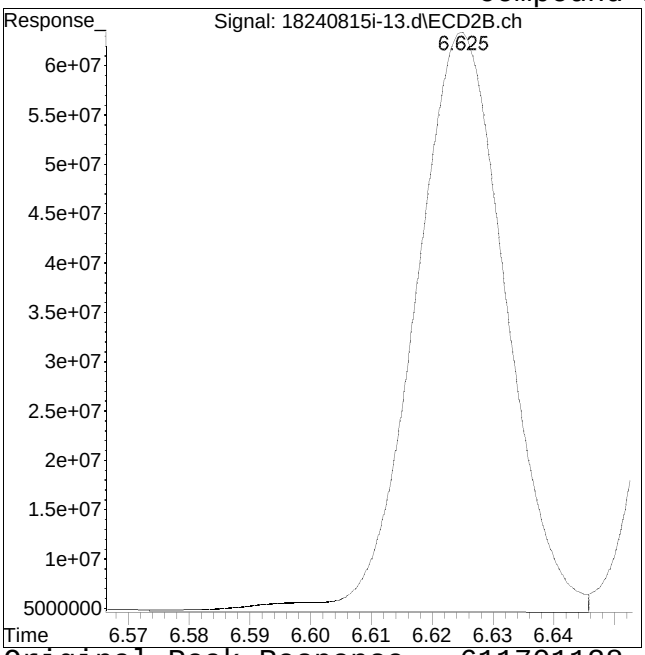


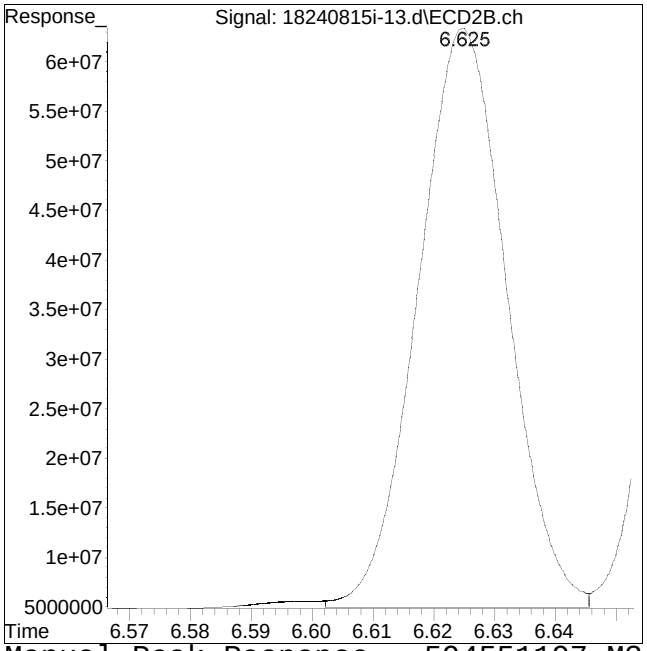
Original Peak Response = 1073196563 Manual Peak Response = 1048552809 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #62: Mirex #2



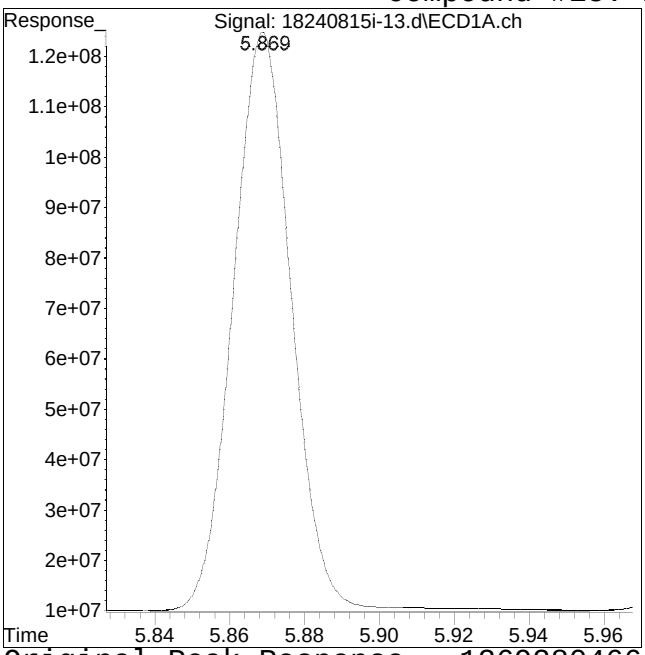


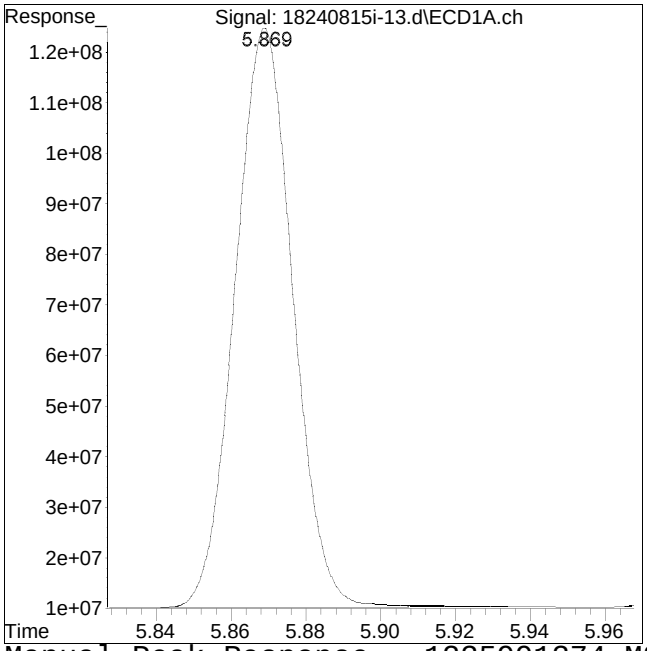
Original Peak Response = 611701128 Manual Peak Response = 594551197 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #25: Endosulfan Sulfate



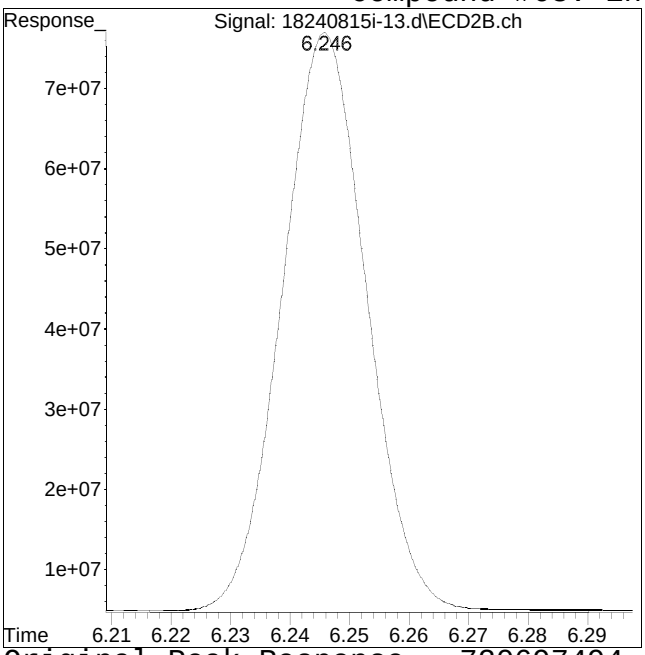


Original Peak Response = 1269280466 Manual Peak Response = 1235991374 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

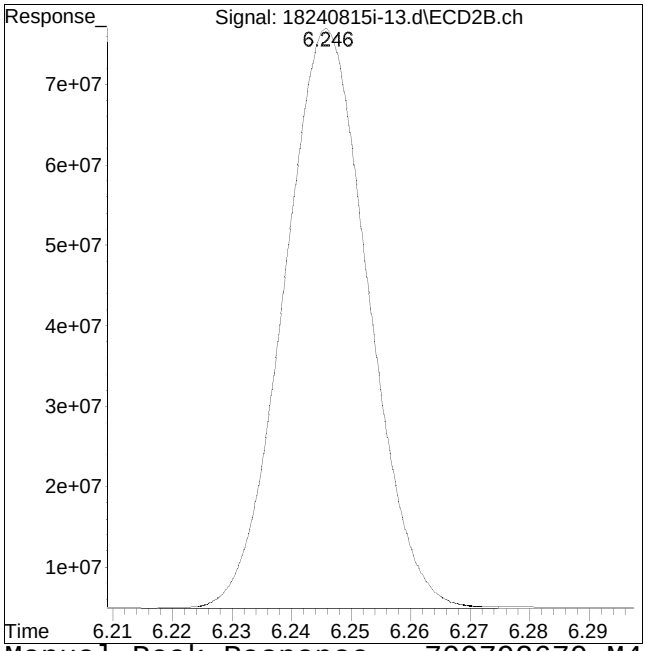
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 720697494

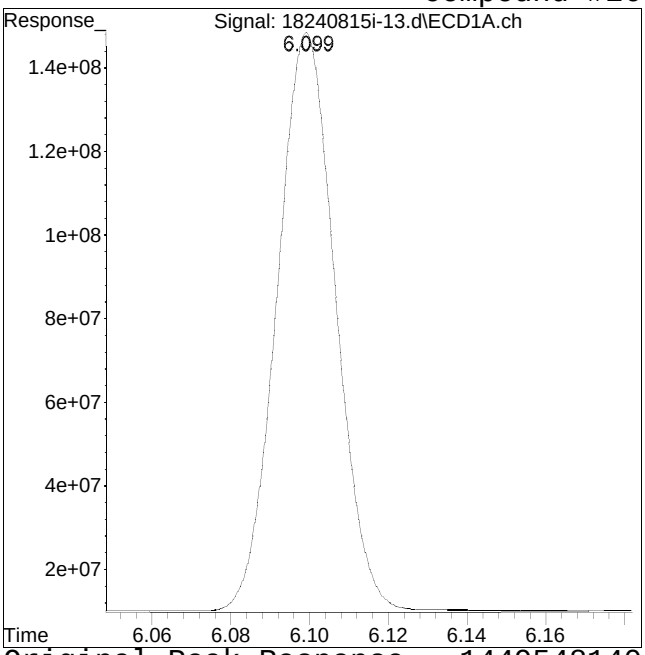


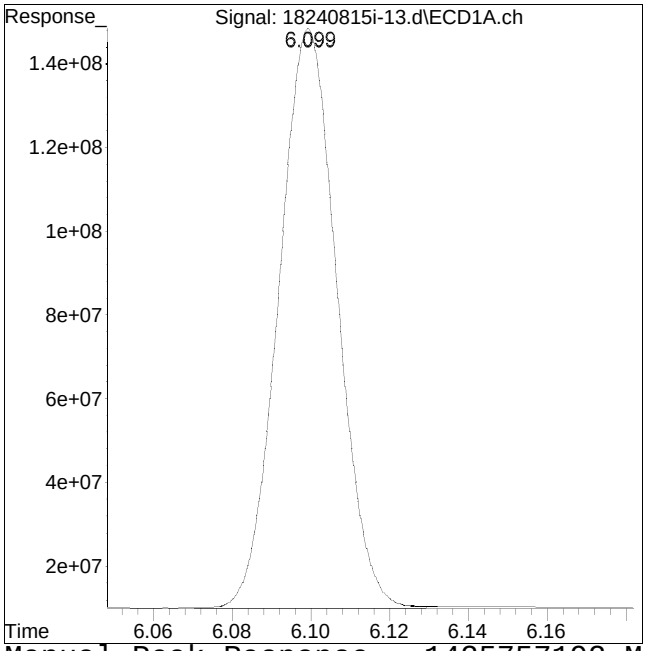
Manual Peak Response = 709792670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #26: Endrin Ketone



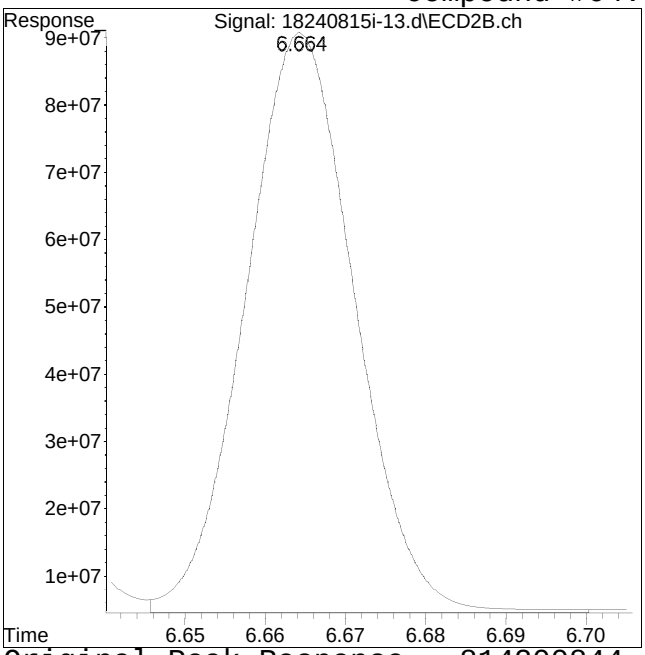


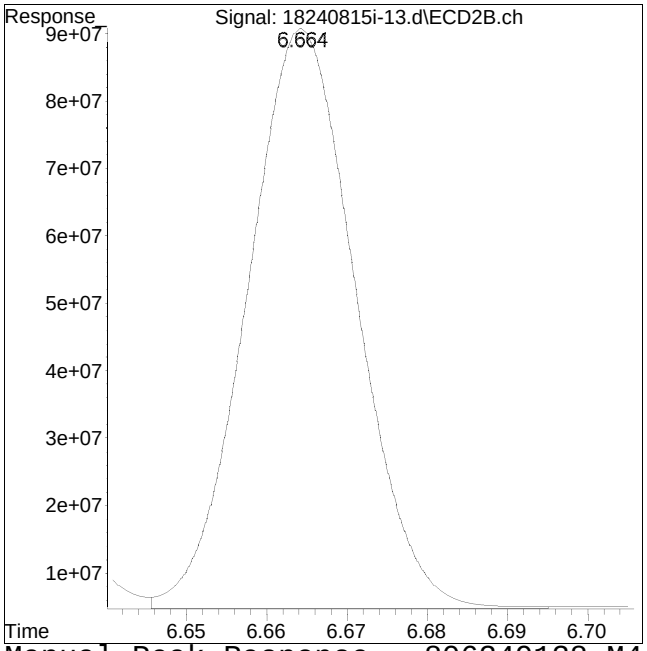
Original Peak Response = 1449548140 Manual Peak Response = 1425757192 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #64: Endrin Ketone #2



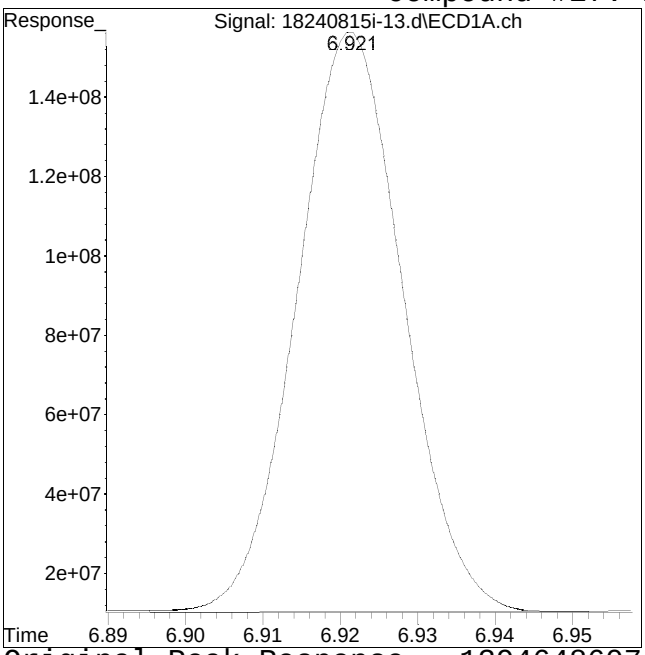


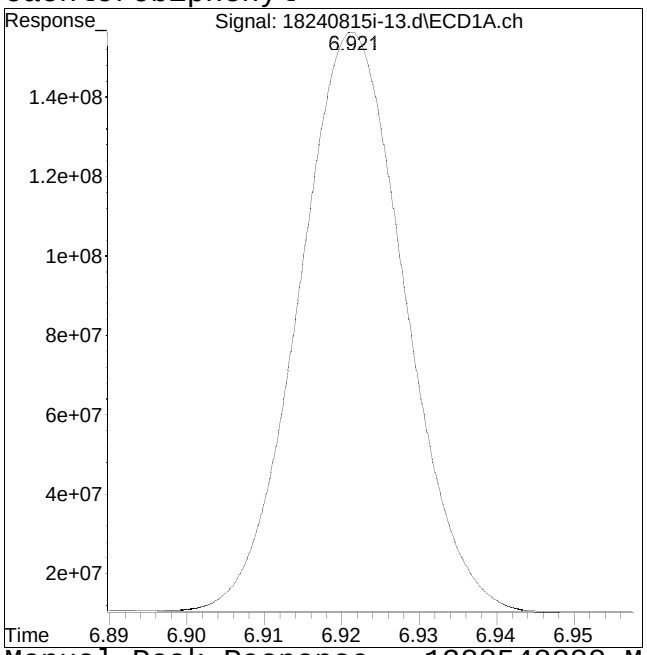
Original Peak Response = 814200844 Manual Peak Response = 806349138 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-13.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 15:59 Instrument : Pest 18
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/20/2024 12:40 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1394648607 Manual Peak Response = 1388548288 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:11
Operator : PEST18:peg
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	546.6E6	341.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:11
Operator : PEST18:peg
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.053	3.347	19932995	6531862	11.727M3	11.589
30)	l1	chlordane-3	3.423	3.962	12469218	7251263	11.430M3	11.621
31)	l1	chlordane-4	3.988	4.647	44966068	24596368	11.658M4	10.965
32)	l1	chlordane-5	4.118	4.821	68754416	19967314	11.639M3	11.204
		Sum chlordane-1			146.1E6	58346807	N.D.	N.D. D
		Average chlordane-1					11.614	11.345
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

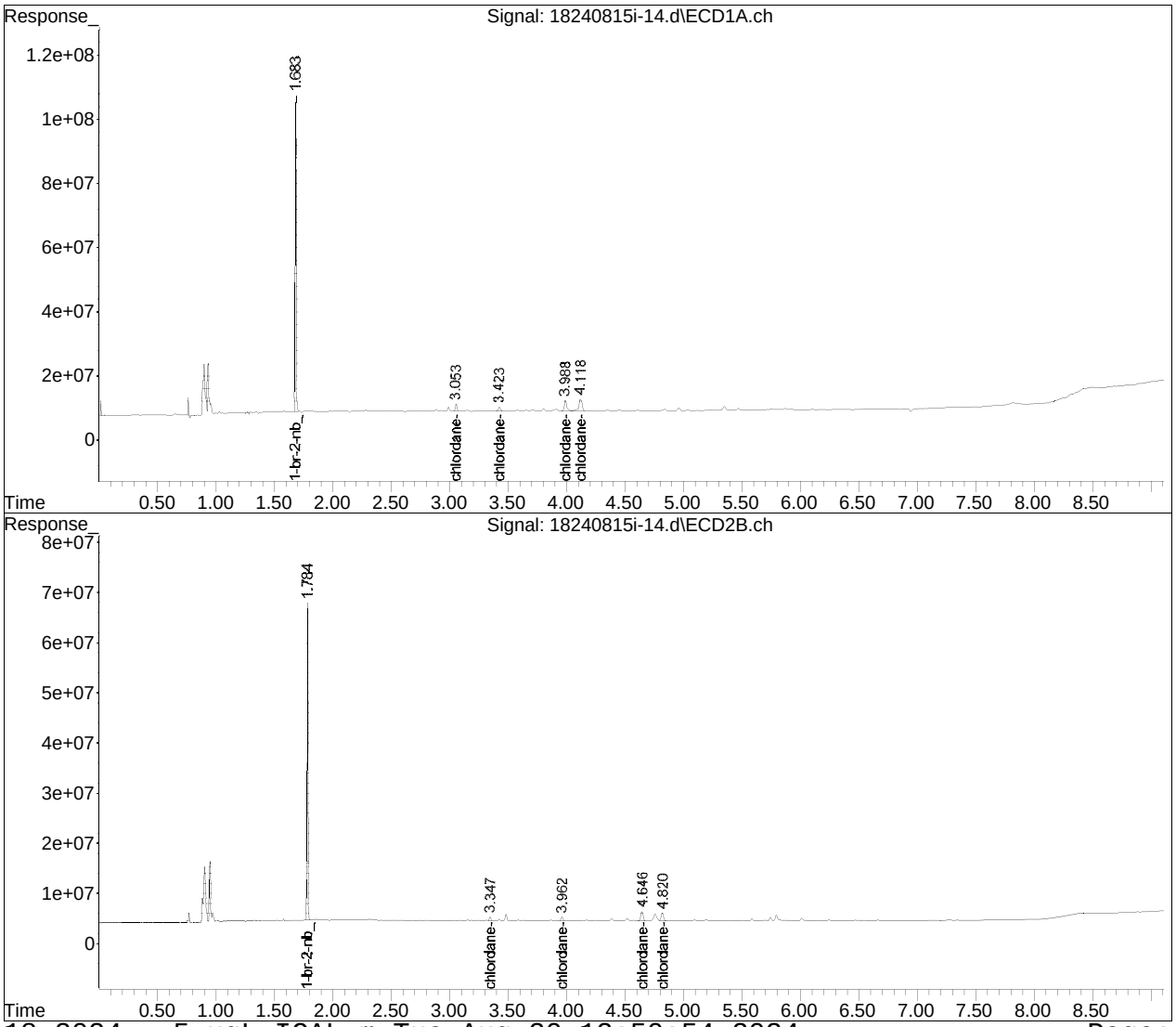
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:11
Operator : PEST18:peg
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

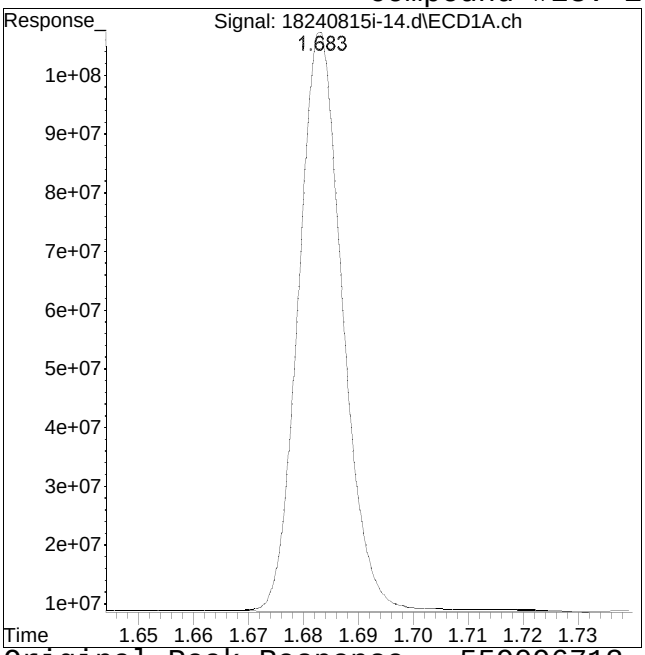
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

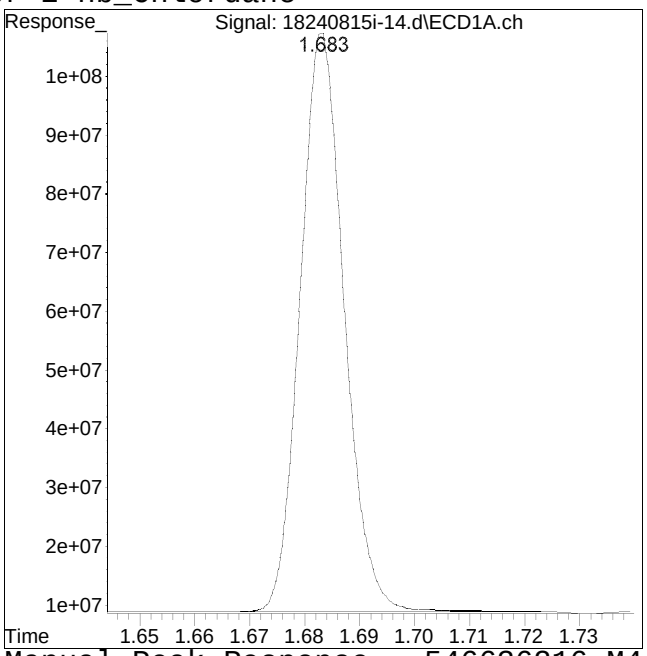


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-14.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:11 Instrument : Pest 18
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 8/20/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



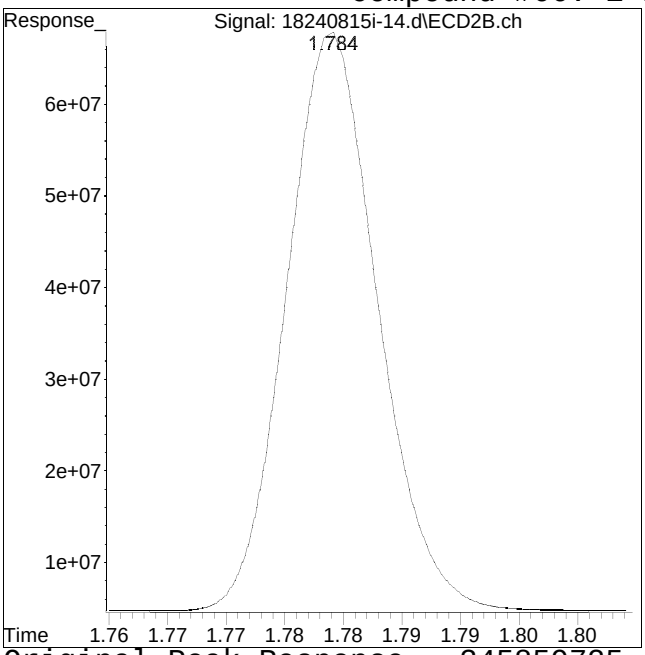


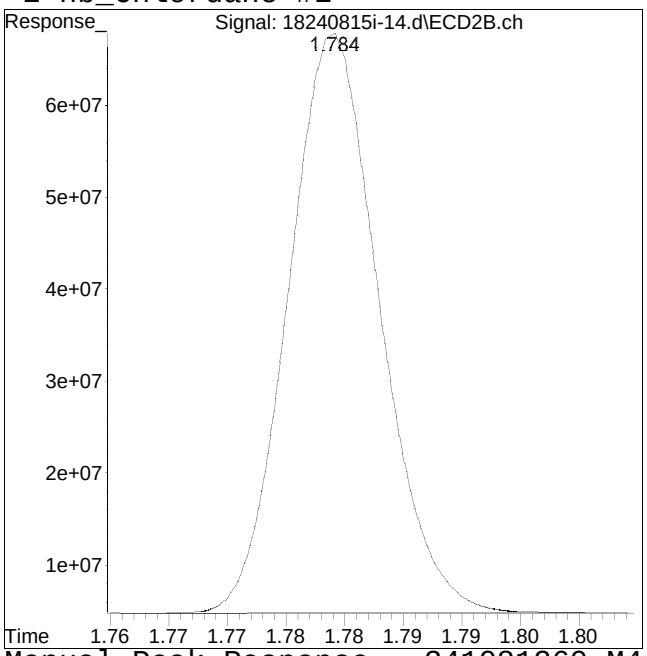
Original Peak Response = 559096713 Manual Peak Response = 546636216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-14.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:11 Instrument : Pest 18
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 8/20/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2



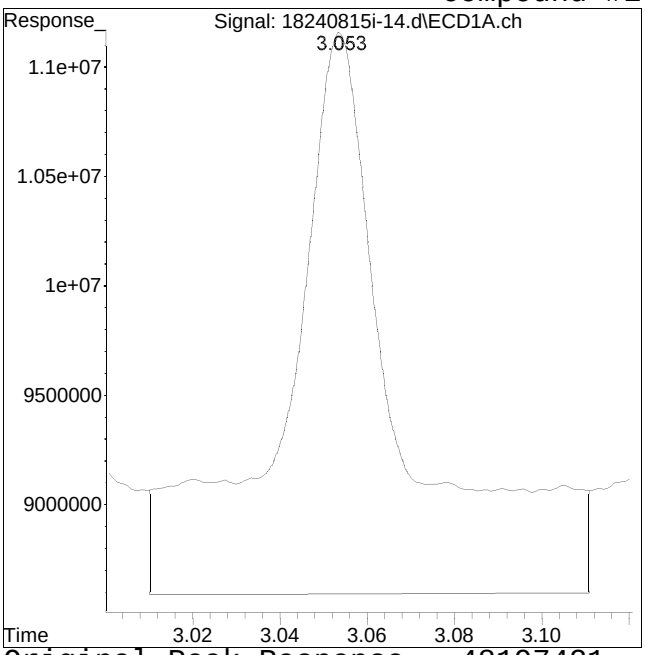


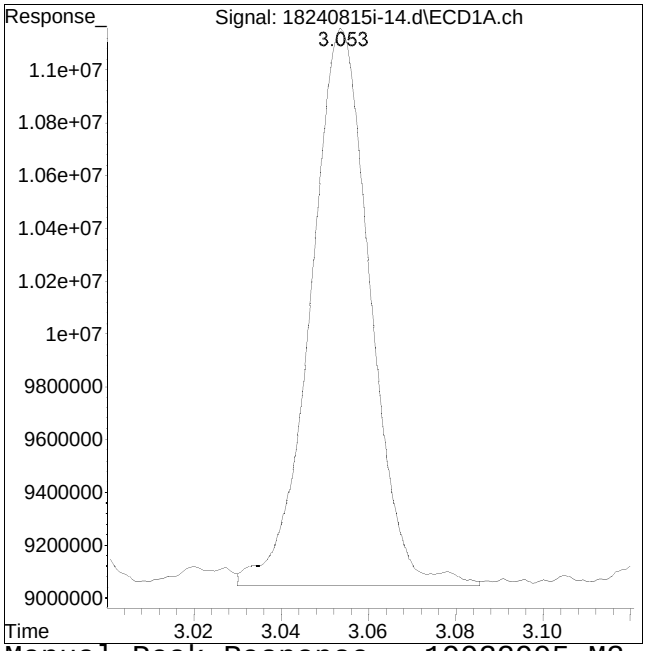
Original Peak Response = 345859725 Manual Peak Response = 341081260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-14.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:11 Instrument : Pest 18
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 8/20/2024 12:13 pm

Compound #29: chlordane-1



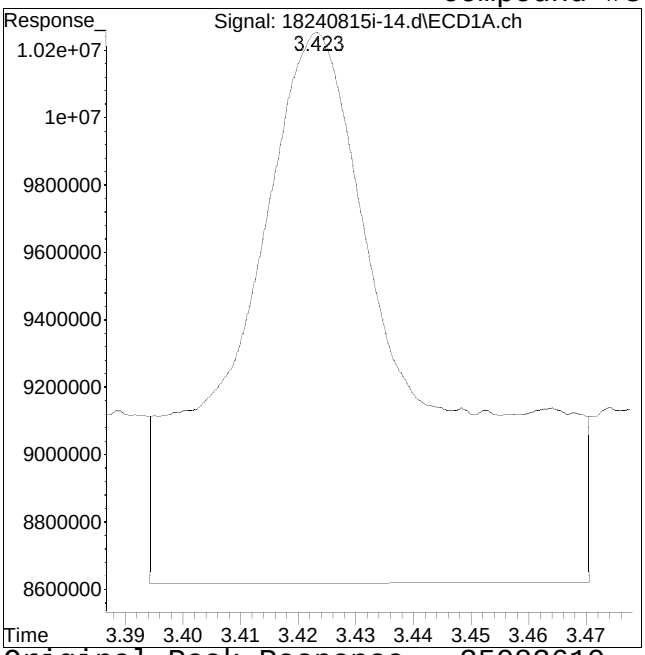


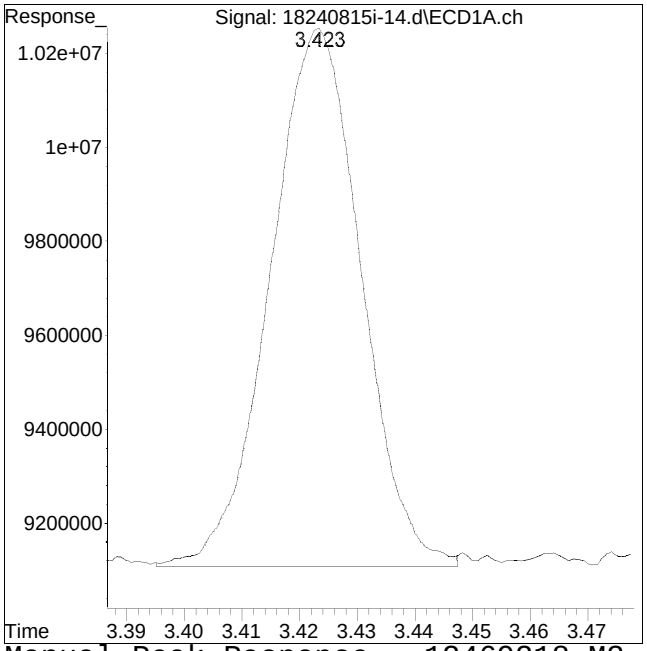
Original Peak Response = 48197421 Manual Peak Response = 19932995 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-14.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:11 Instrument : Pest 18
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 8/20/2024 12:13 pm

Compound #30: chlordane-3





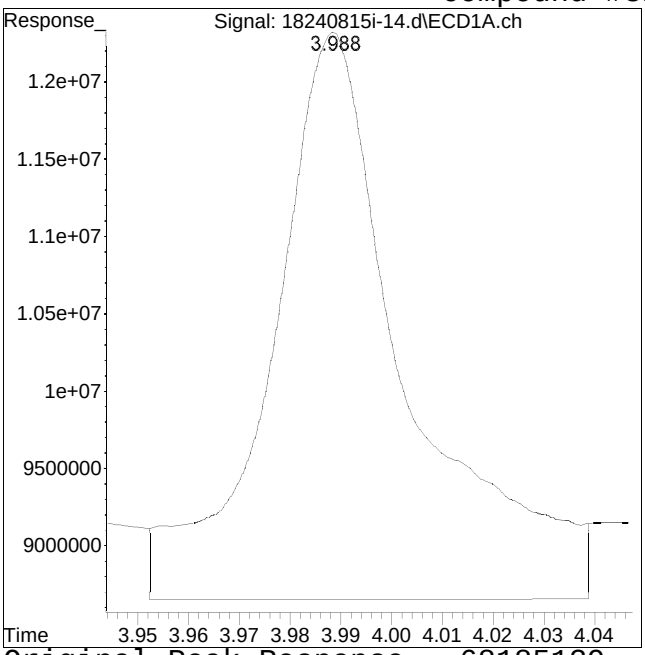
Original Peak Response = 35083610 Manual Peak Response = 12469218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

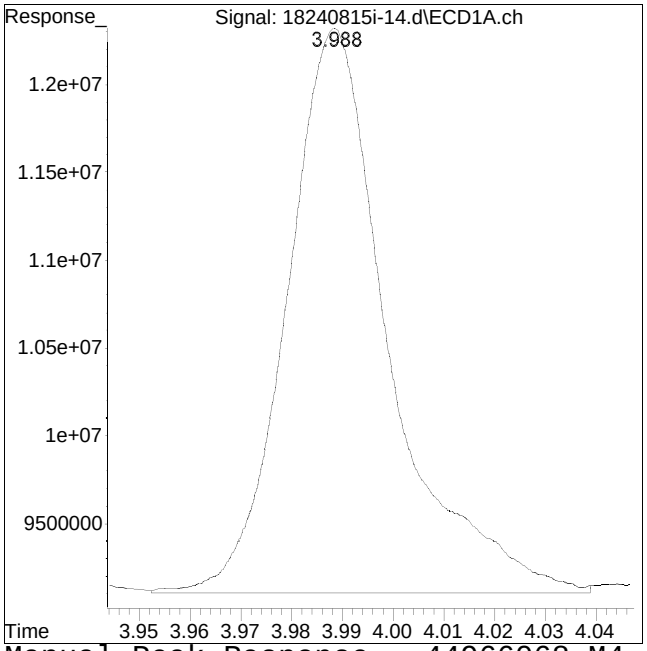
Data Path : I:\PEST\Pest18\2024\240815Q
Data File : 18240815i-14.d
Date Inj'd : 8/15/2024 16:11
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:peg
Instrument : Pest 18
Quant Date : 8/20/2024 12:13 pm

Compound #31: chlordane-4



Original Peak Response = 68185139



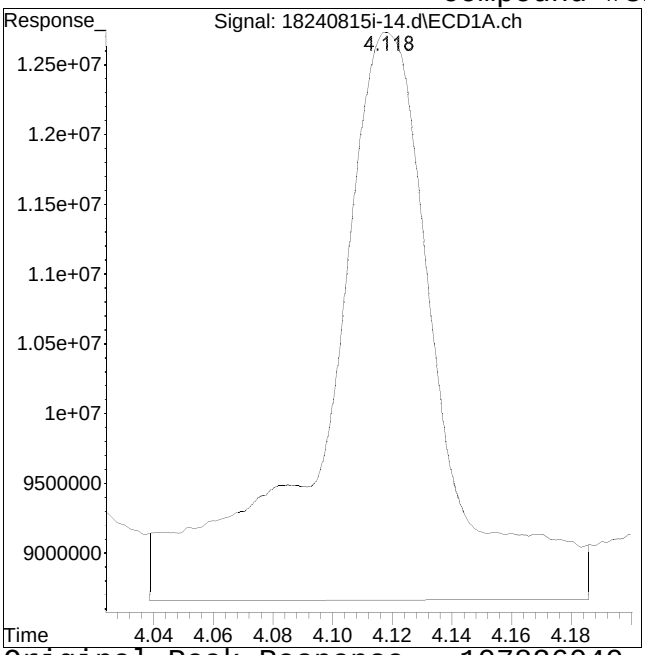
Manual Peak Response = 44966068 M4

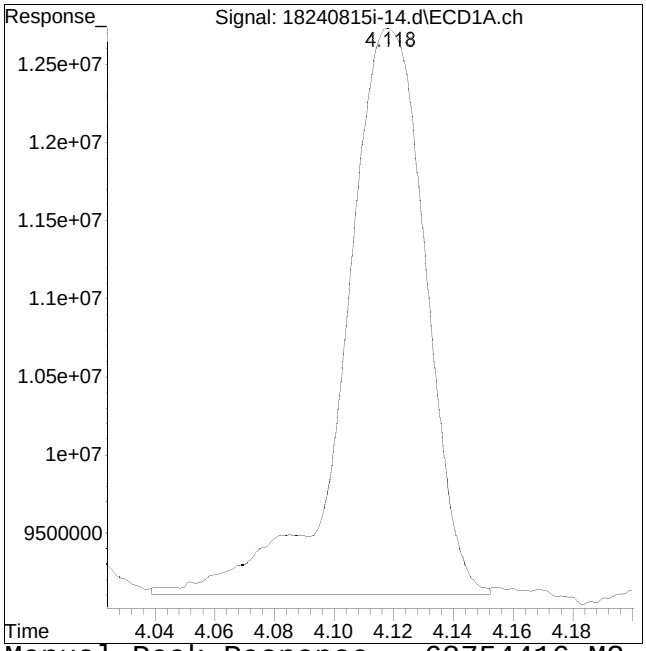
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-14.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:11 Instrument : Pest 18
Sample : il3chlor,42e,,pp 11694 L0.Quant Date : 8/20/2024 12:13 pm

Compound #32: chlordane-5





Original Peak Response = 107826040 Manual Peak Response = 68754416 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:22
Operator : PEST18:peg
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	559.3E6	347.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:22
Operator : PEST18:peg
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.053	3.347	38731393	12242219	22.271M4	21.345
30)	l1	chlordane-3	3.422	3.962	26064029	14721138	23.351M4	23.185
31)	l1	chlordane-4	3.988	4.646	88899765	48562014	22.527M4	21.273
32)	l1	chlordane-5	4.117	4.821	135.0E6	39327903	22.333M3	21.686
		Sum chlordane-1			288.7E6	114.9E6	N.D.	N.D. D
		Average chlordane-1					22.621	21.872
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

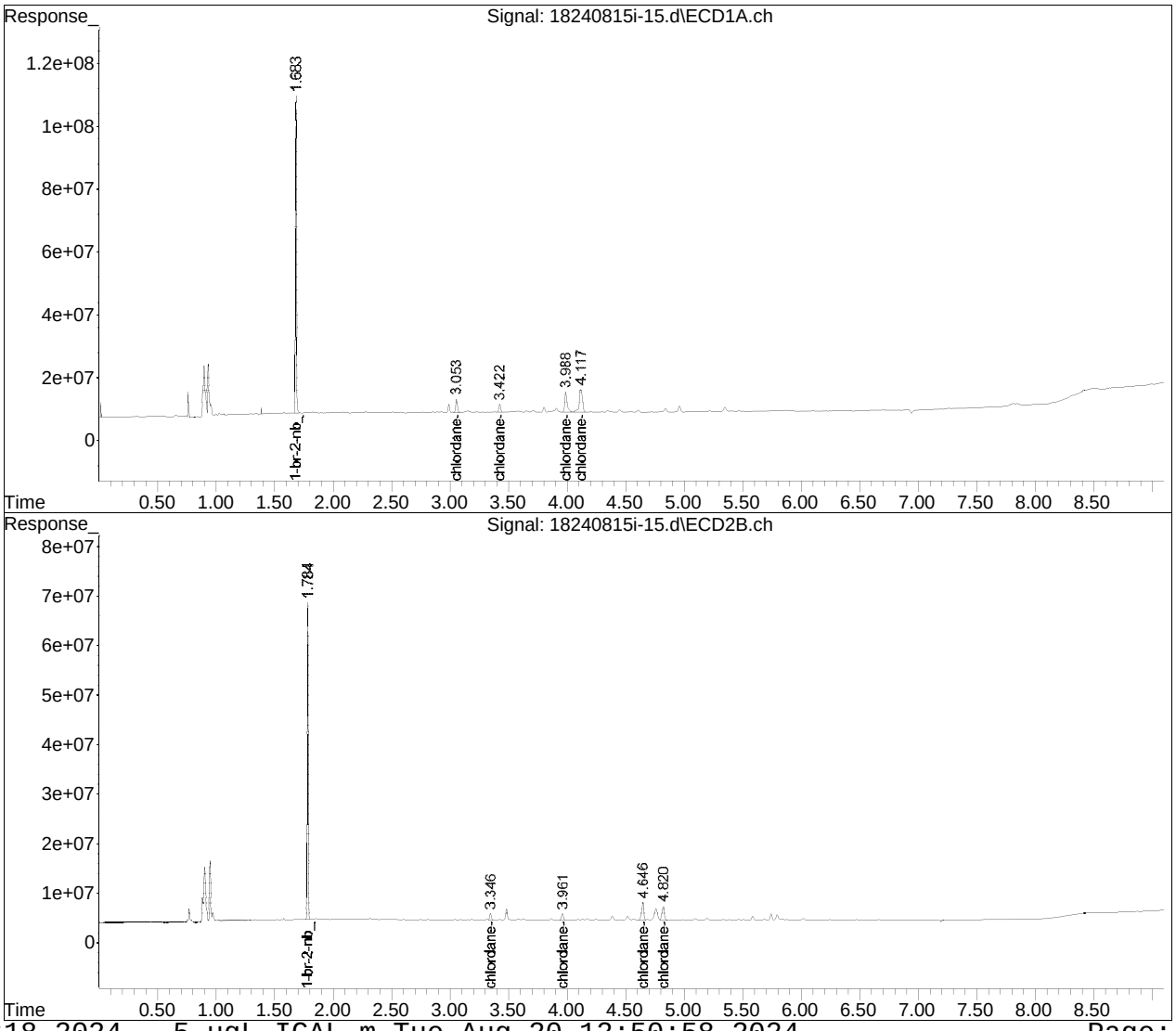
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:22
Operator : PEST18:peg
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

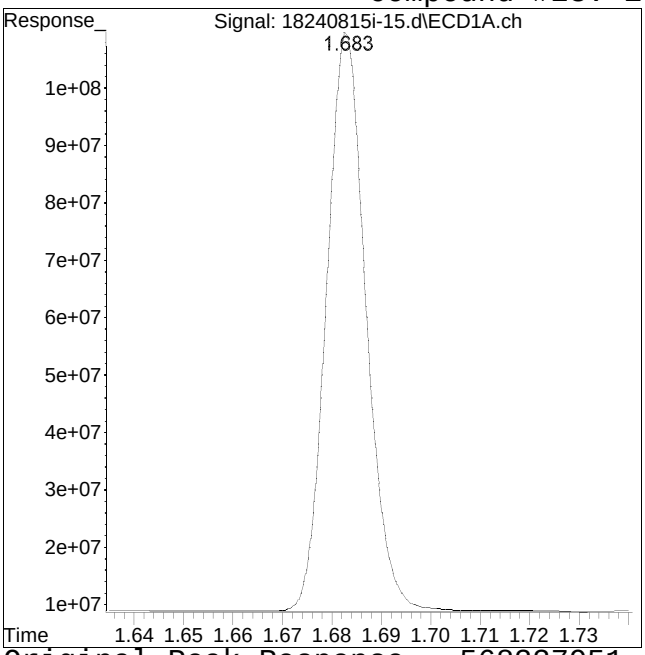
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

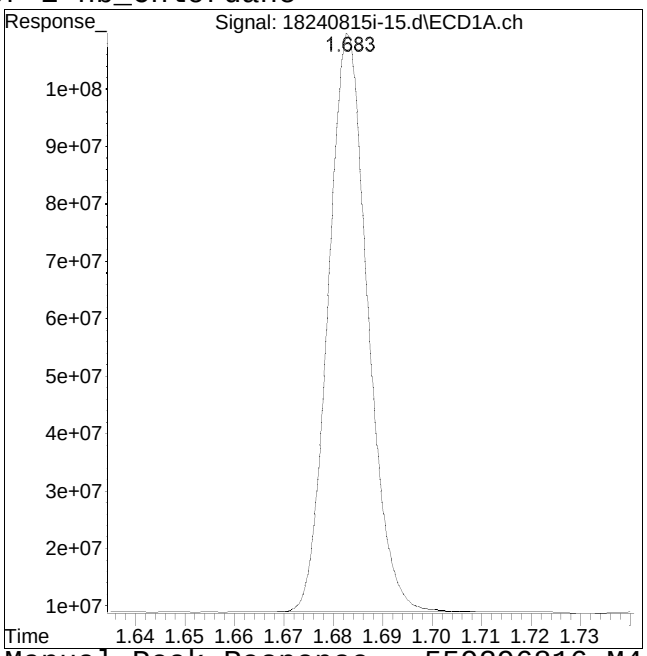


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



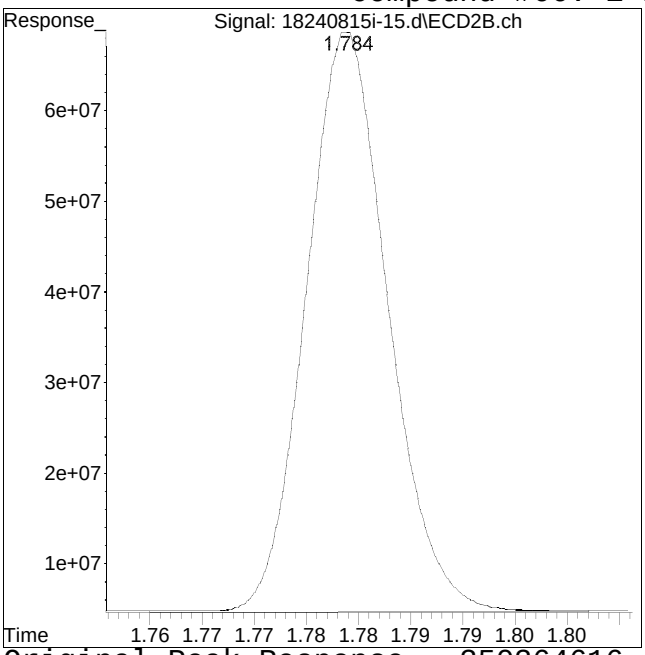


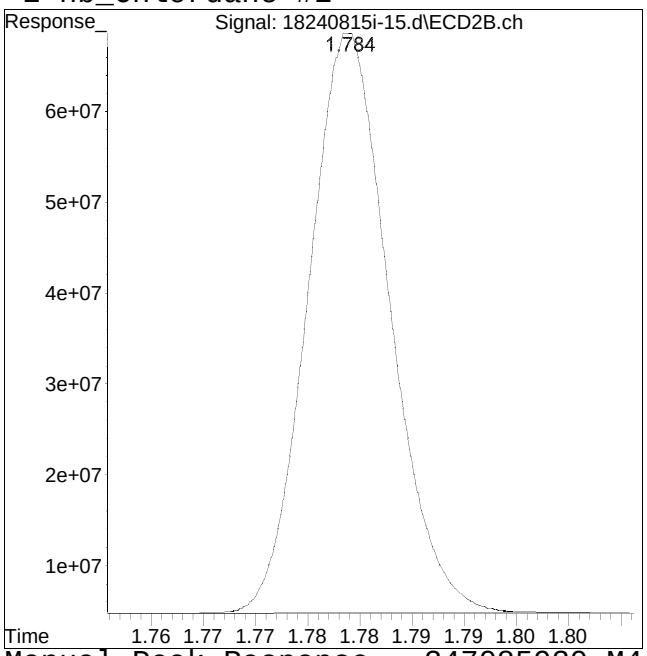
Original Peak Response = 568337951 Manual Peak Response = 559296816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2



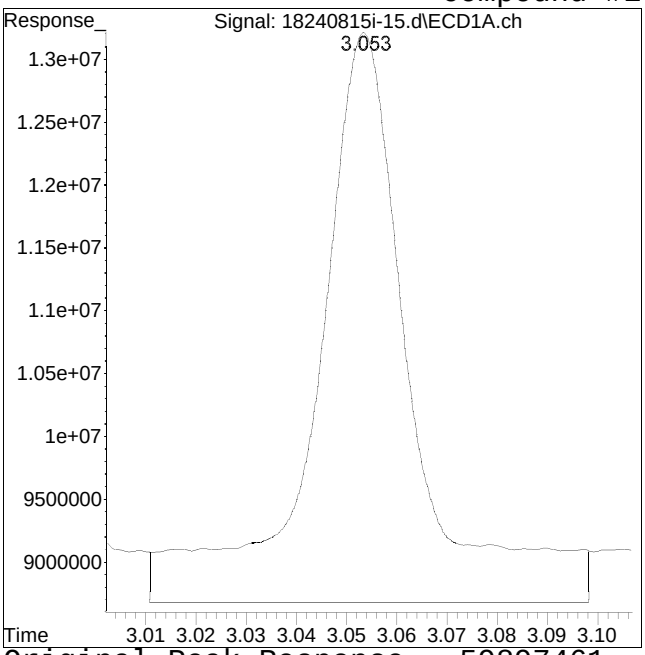


Original Peak Response = 350364616 Manual Peak Response = 347085930 M4
M4 = Poor automated baseline construction.

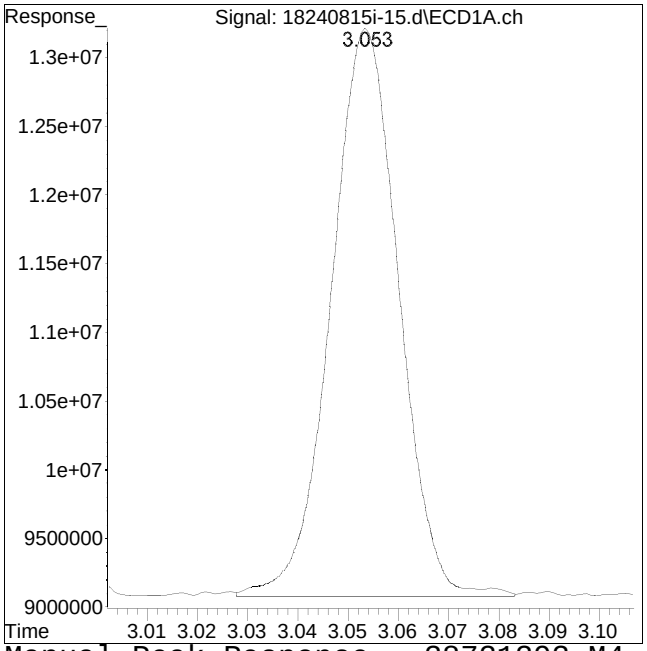
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #29: chlordane-1



Original Peak Response = 59897461



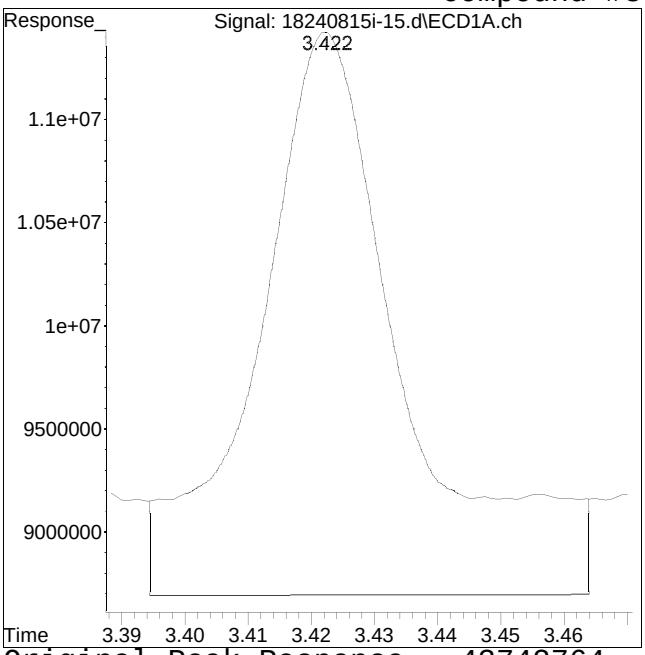
Manual Peak Response = 38731393 M4

M4 = Poor automated baseline construction.

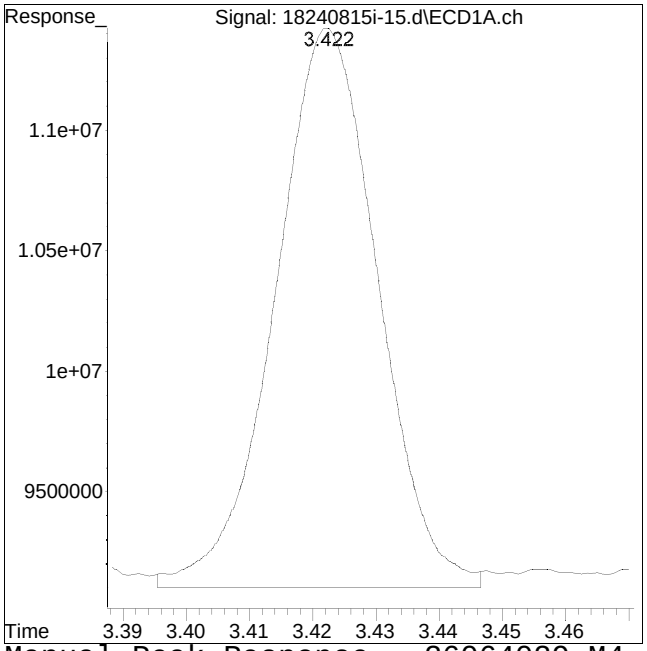
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #30: chlordane-3



Original Peak Response = 43742764



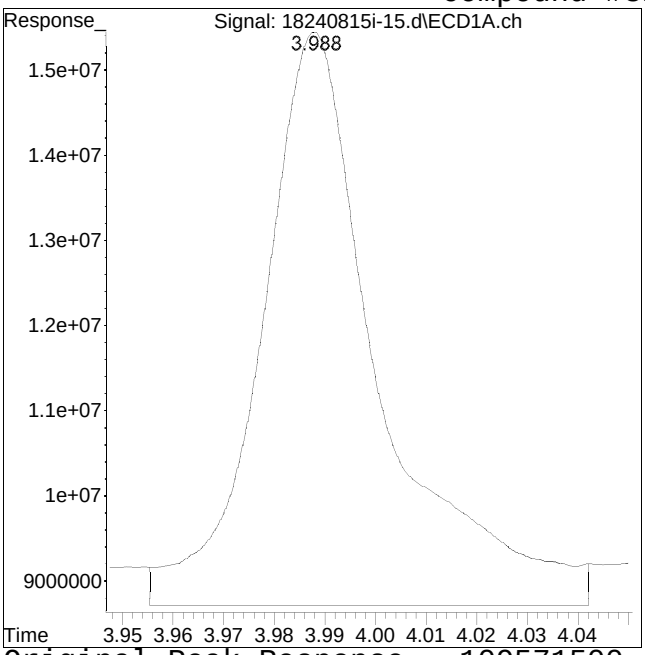
Manual Peak Response = 26064029 M4

M4 = Poor automated baseline construction.

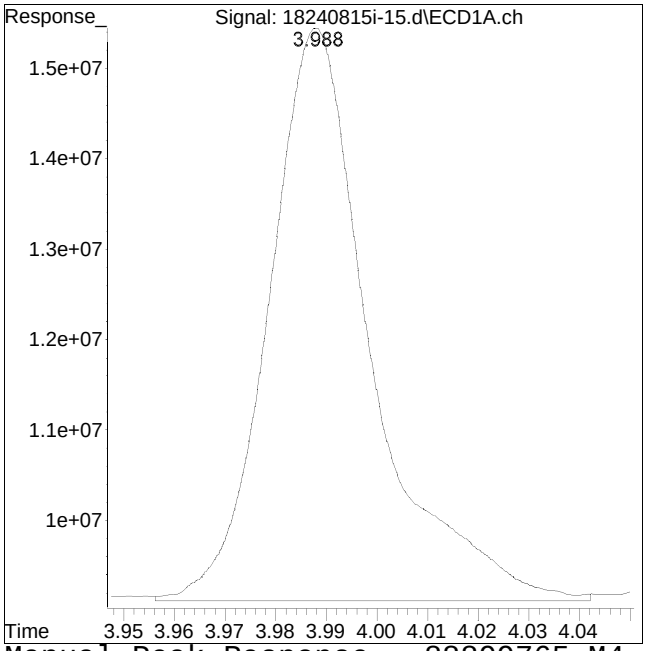
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #31: chlordane-4



Original Peak Response = 109571500



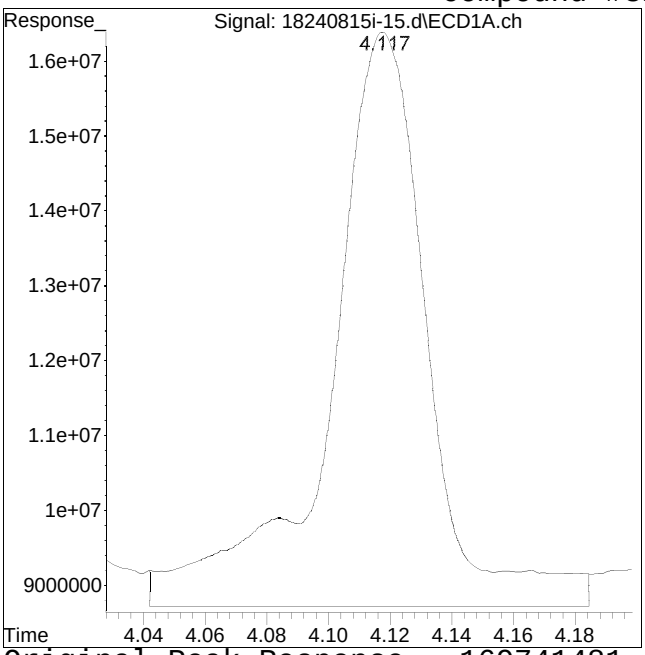
Manual Peak Response = 88899765 M4

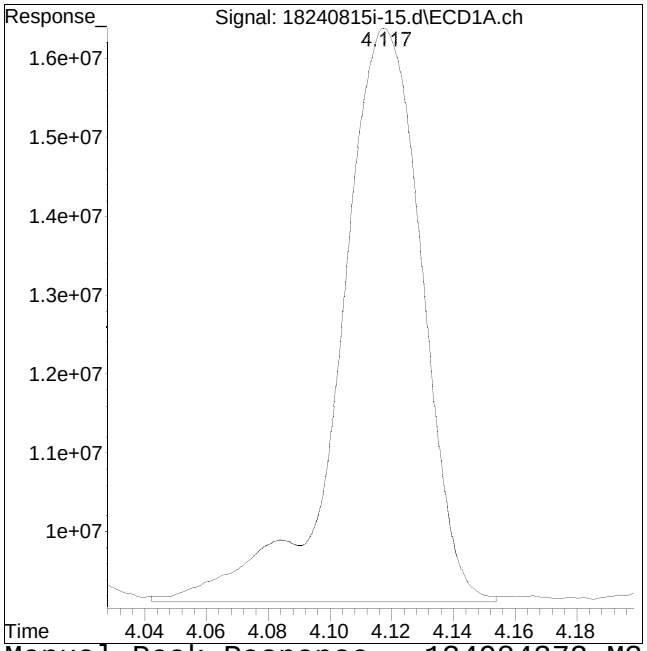
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-15.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:22 Instrument : Pest 18
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/20/2024 12:13 pm

Compound #32: chlordane-5





Original Peak Response = 169741481 Manual Peak Response = 134984372 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:34
Operator : PEST18:peg
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:58 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	561.2E6	351.6E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:34
Operator : PEST18:peg
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:58 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.053	3.346	184.4E6	61725842	105.705M4	106.241
30)	l1	chlordane-3	3.422	3.962	121.1E6	70830738	108.093M4	110.122
31)	l1	chlordane-4	3.988	4.646	413.2E6	243.7E6	104.361M4	105.407
32)	l1	chlordane-5	4.118	4.821	638.3E6	194.0E6	105.245M4	105.617
	Sum	chlordane-1			1357.0E6	570.3E6	N.D.	N.D. D
	Average	chlordane-1					105.851	106.847
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
	Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
	Average	toxaphene-1					0.000	0.000

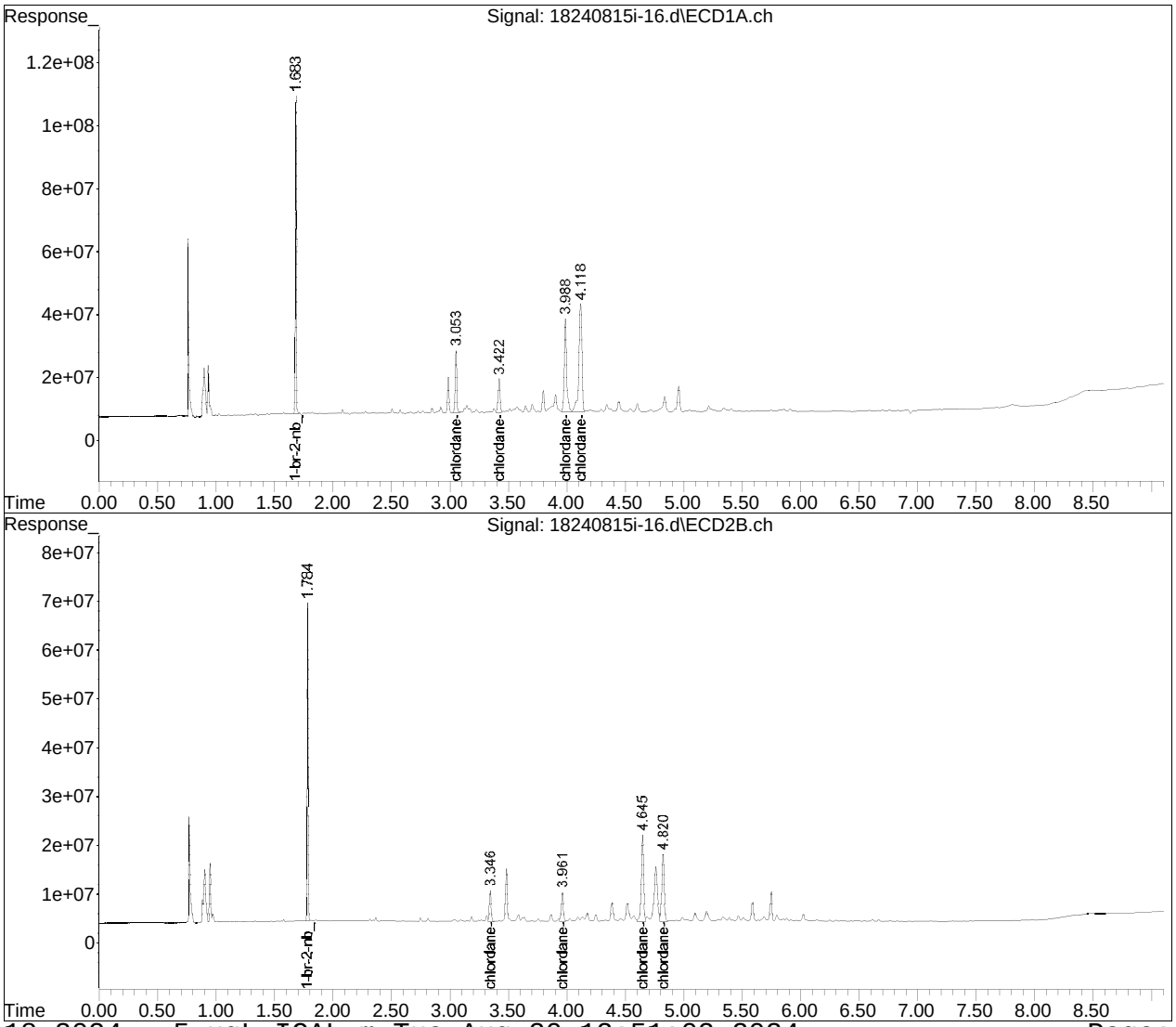
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:34
Operator : PEST18:peg
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:13:58 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

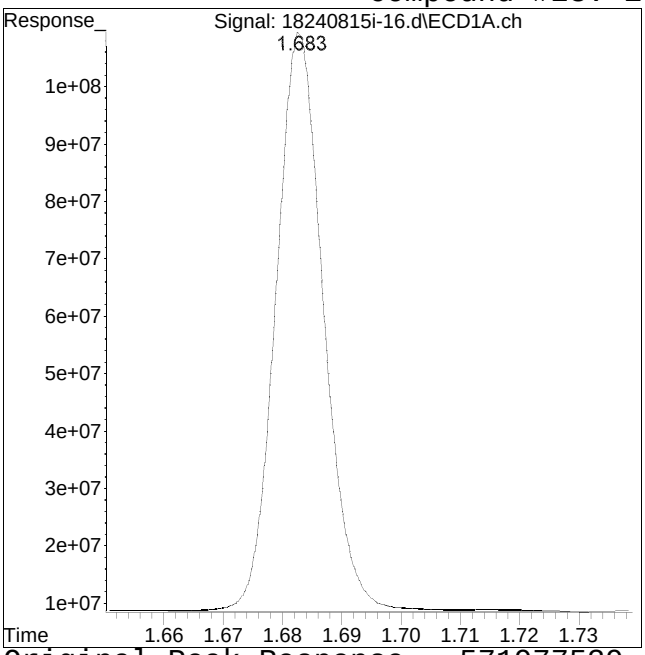
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

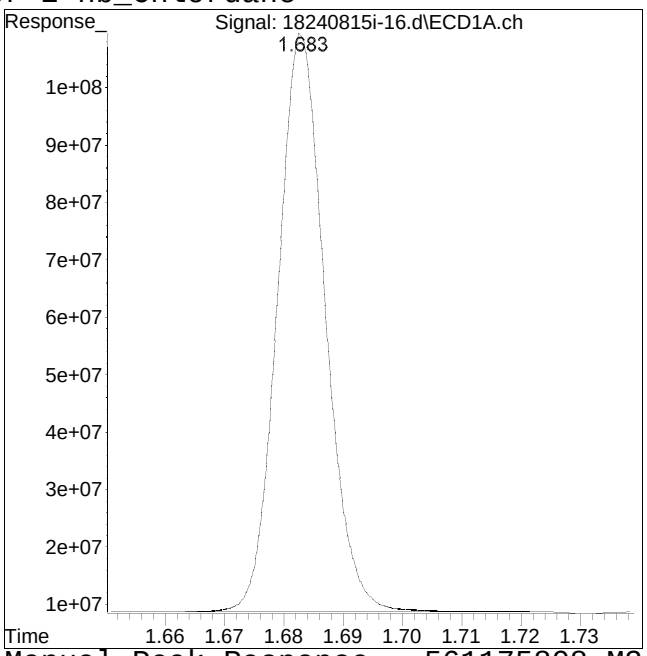


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



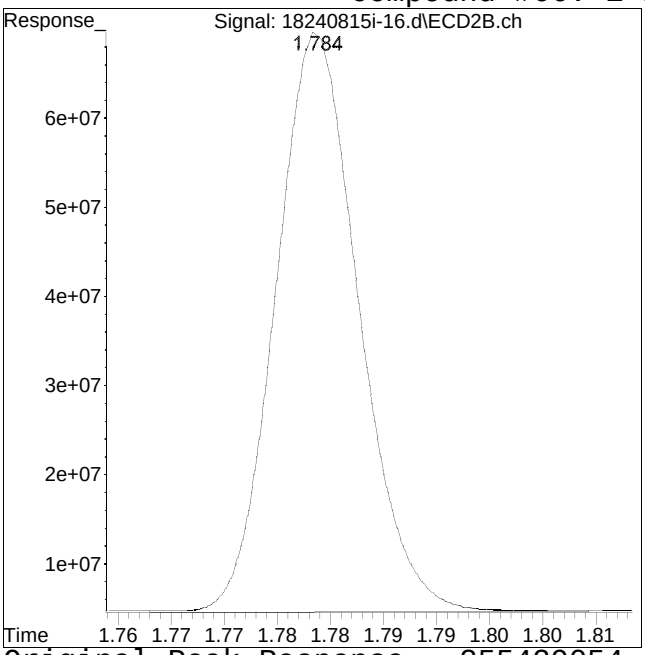


Original Peak Response = 571977539 Manual Peak Response = 561175808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

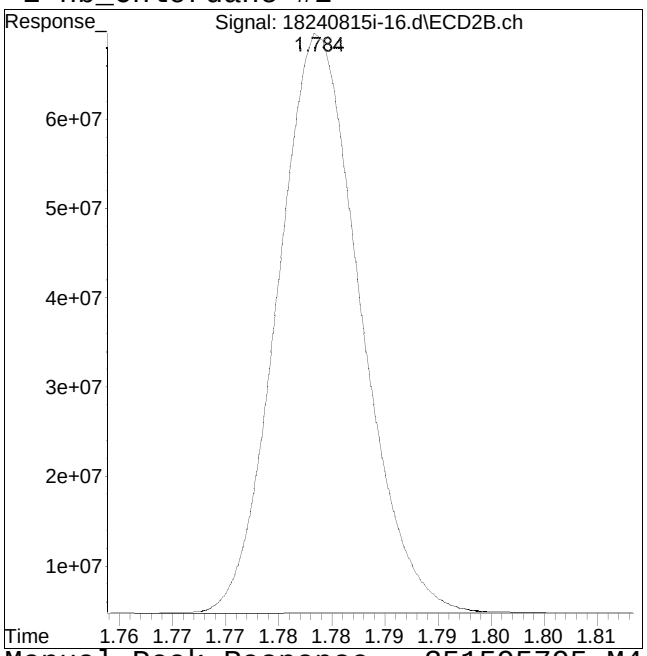
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 355429054



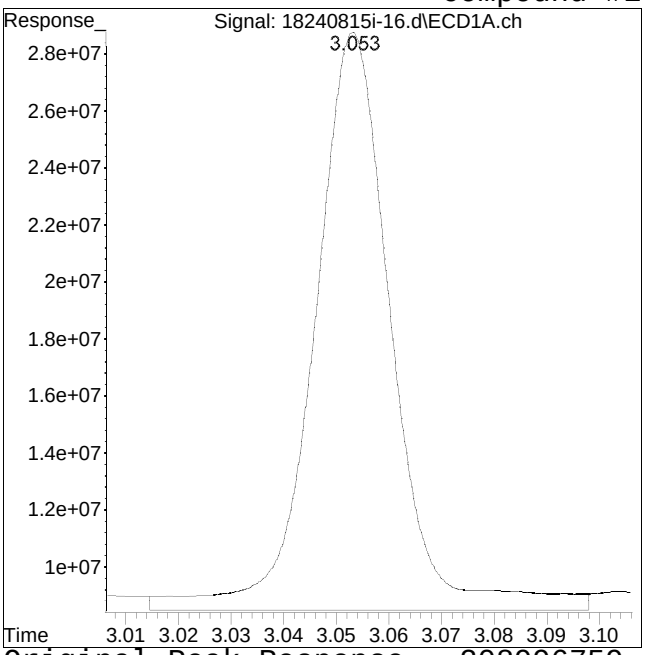
Manual Peak Response = 351595795 M4

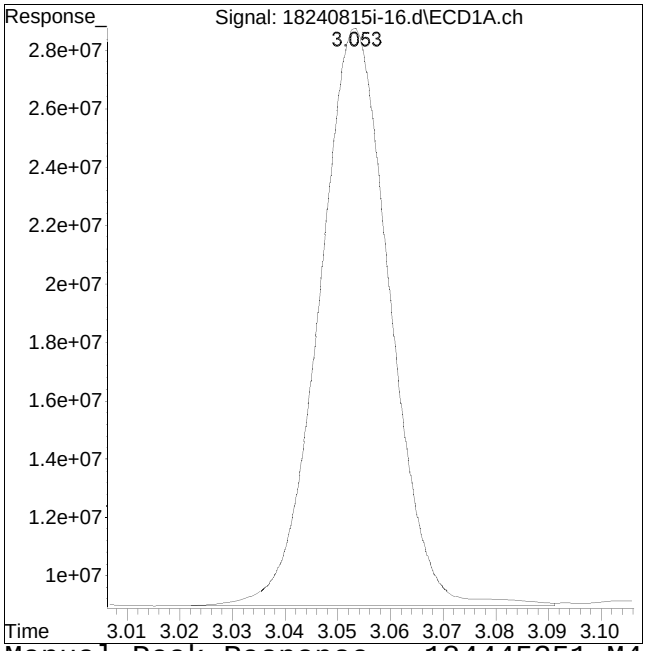
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #29: chlordane-1



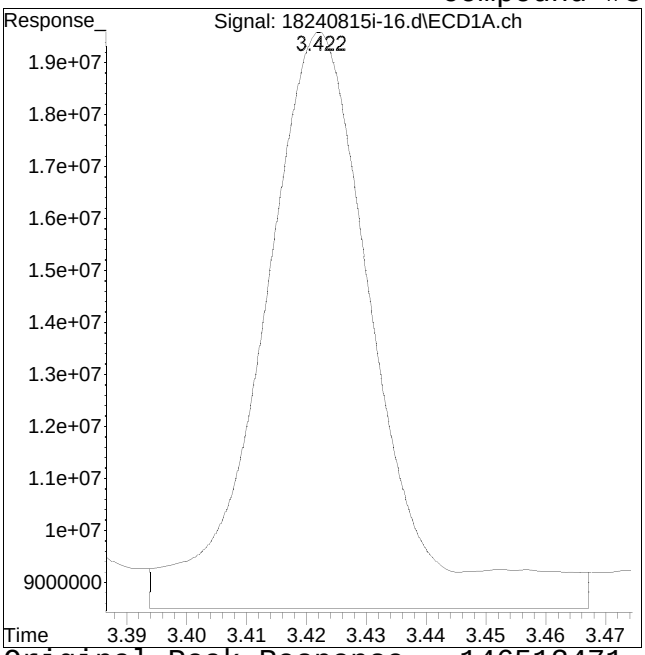


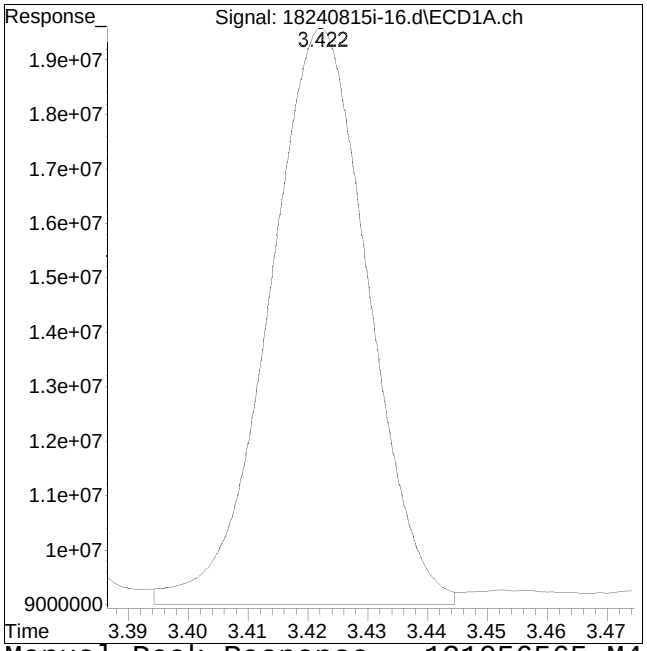
Original Peak Response = 208996759 Manual Peak Response = 184445351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #30: chlordane-3



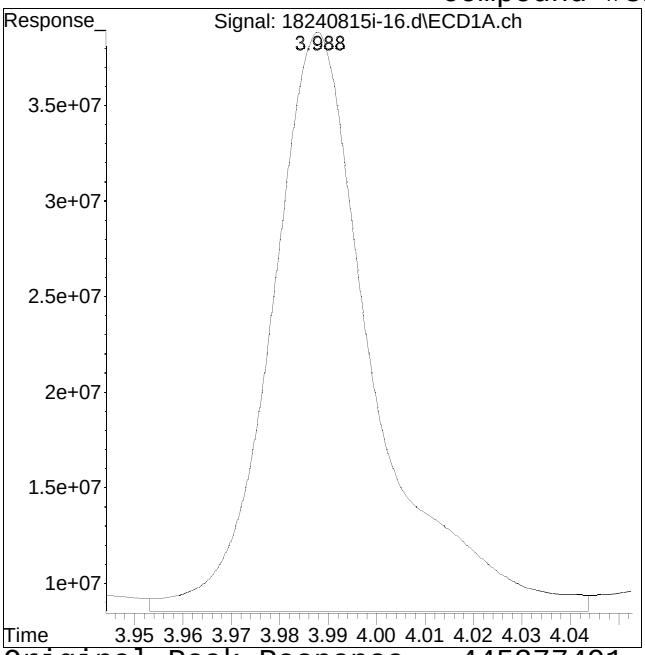


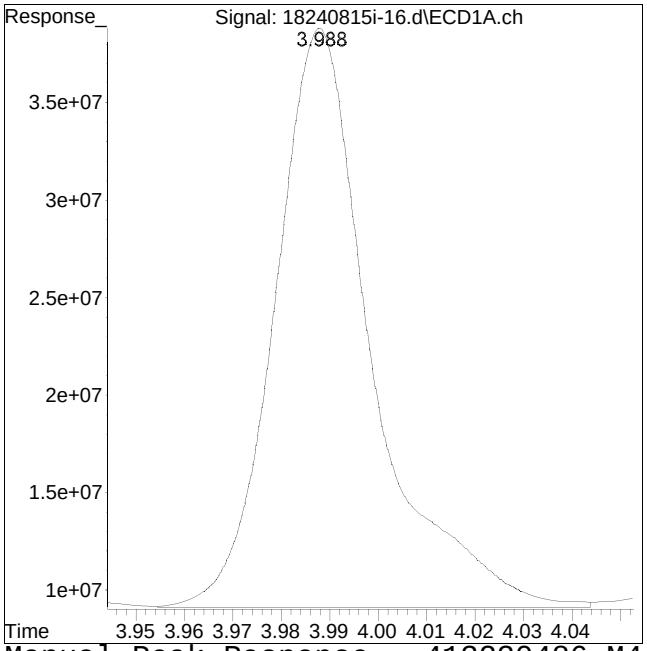
Original Peak Response = 146512471 Manual Peak Response = 121056565 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #31: chlordane-4



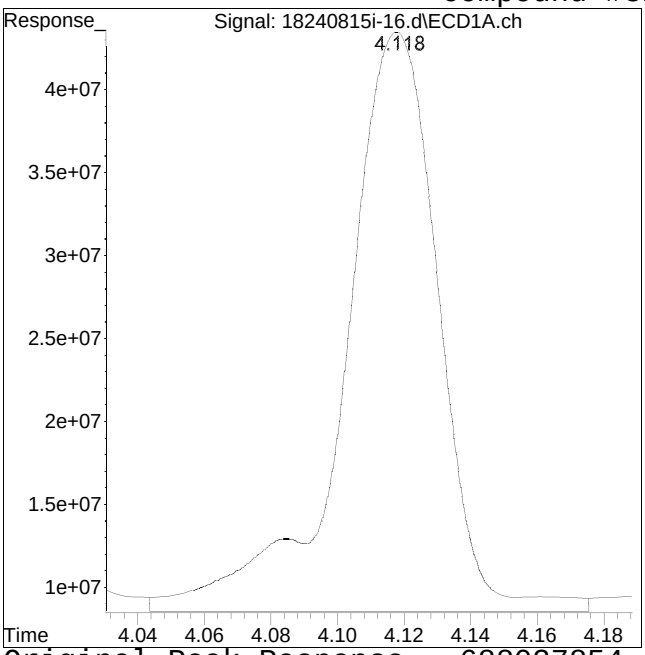


Original Peak Response = 445377491 Manual Peak Response = 413230486 M4
M4 = Poor automated baseline construction.

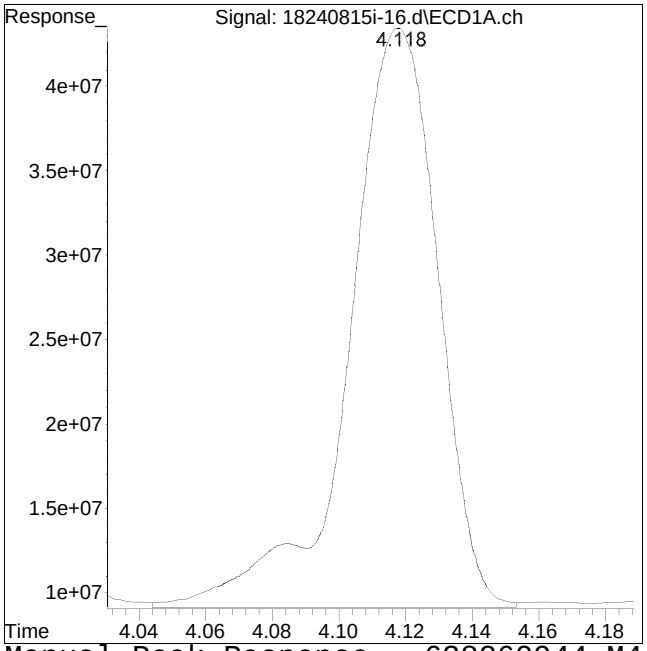
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-16.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:34 Instrument : Pest 18
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/20/2024 12:13 pm

Compound #32: chlordane-5



Original Peak Response = 688037854



Manual Peak Response = 638260944 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:45
Operator : PEST18:peg
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:10 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	571.3E6	357.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:45
Operator : PEST18:peg
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:10 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.053	3.347	882.3E6	291.5E6	496.679M3	494.149
30) l1	chlordane-3	3.422	3.962	559.9E6	317.1E6	491.064M3	485.578
31) l1	chlordane-4	3.989	4.646	2021.7E6	1200.7E6	501.492	511.396
32) l1	chlordane-5	4.118	4.820	3108.0E6	943.9E6	503.382M3	506.060
Sum	chlordane-1			6571.9E6	2753.3E6	N.D.	N.D. D
Average	chlordane-1					498.154	499.296
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

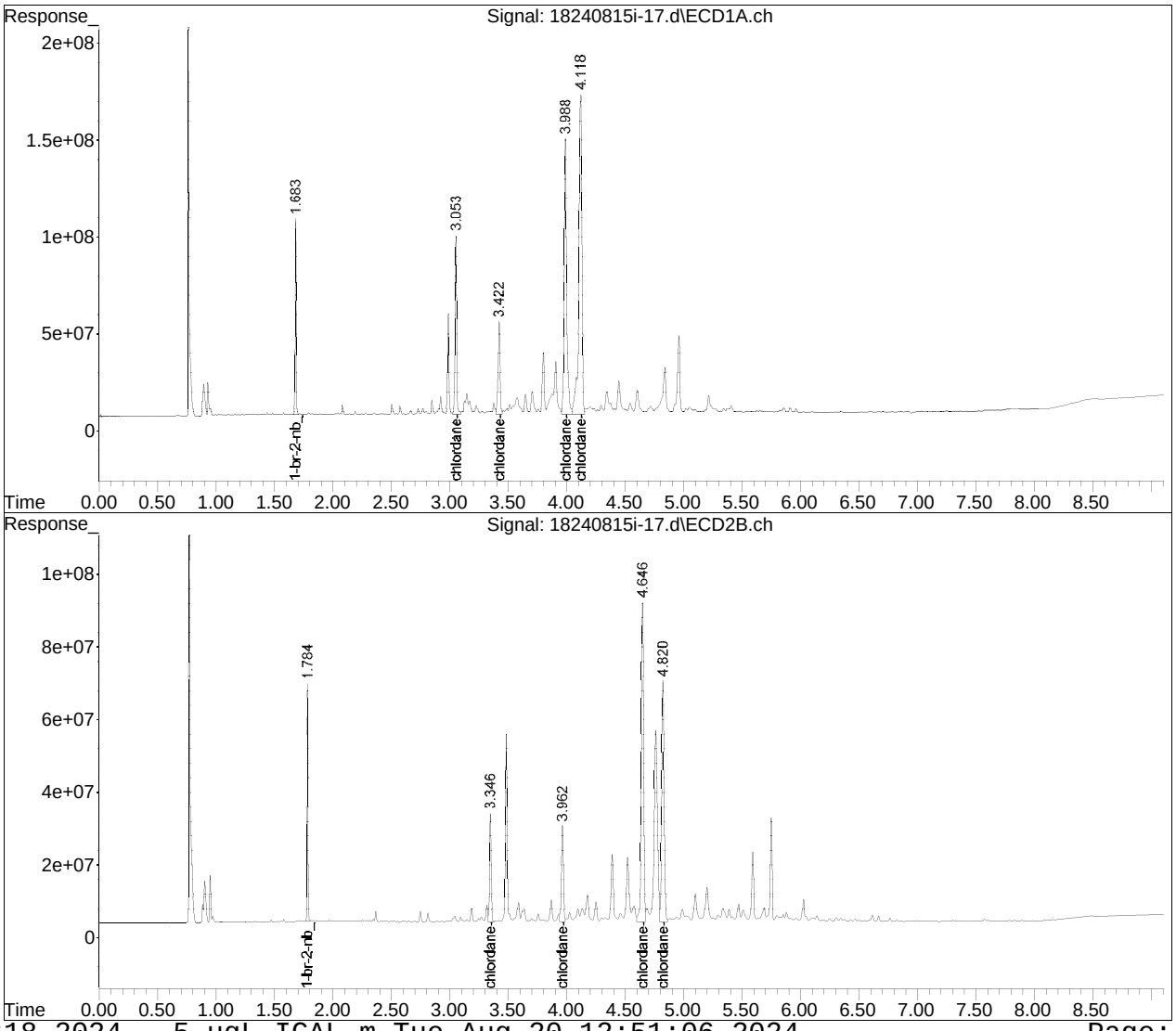
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:45
Operator : PEST18:peg
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:10 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

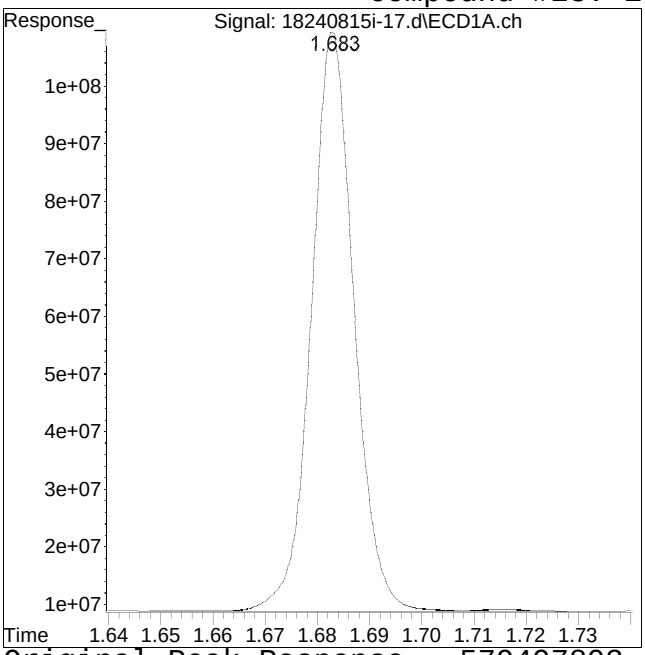
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

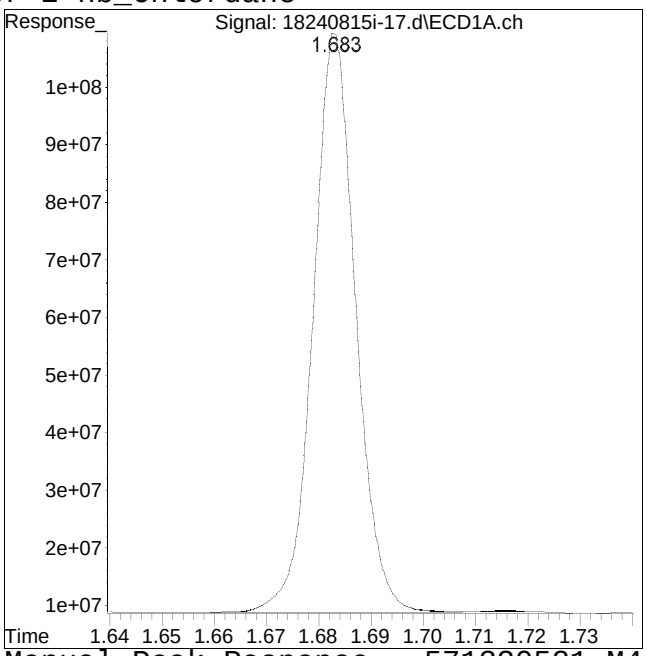


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-17.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:45 Instrument : Pest 18
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/20/2024 12:14 pm

Compound #28: 1-br-2-nb_Chlordane



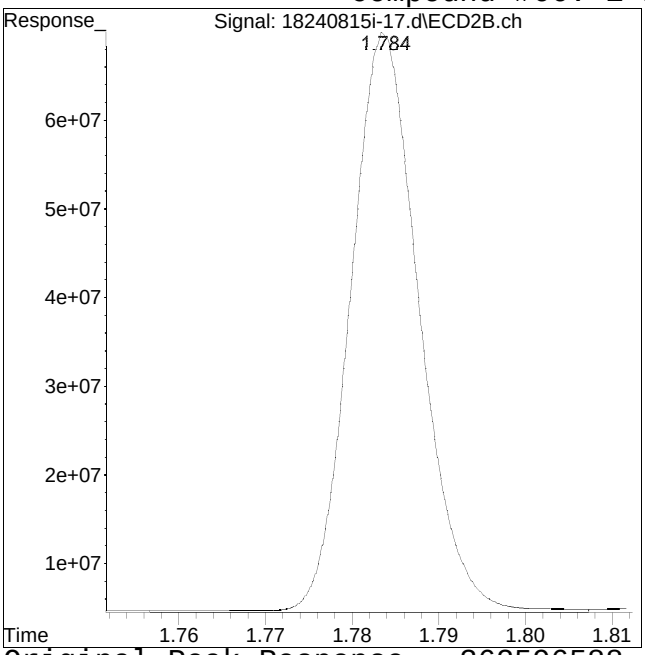


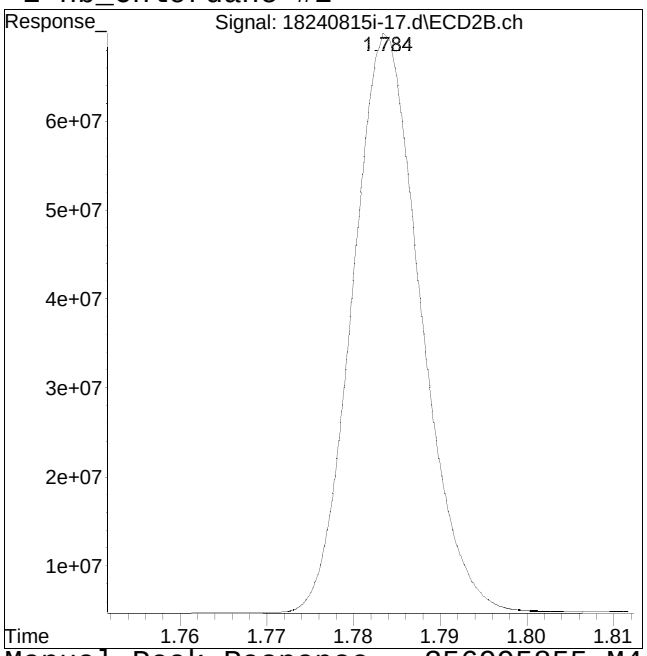
Original Peak Response = 579497893 Manual Peak Response = 571330521 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-17.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:45 Instrument : Pest 18
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/20/2024 12:14 pm

Compound #66: 1-br-2-nb_Chlordane #2



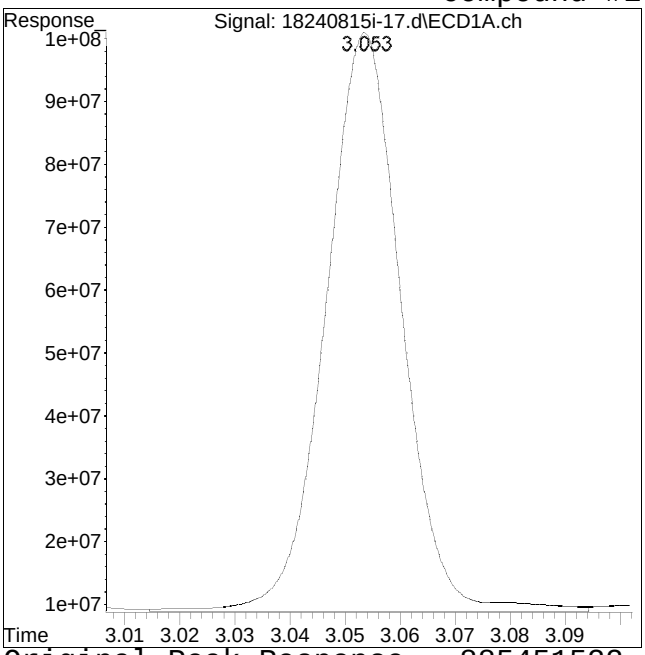


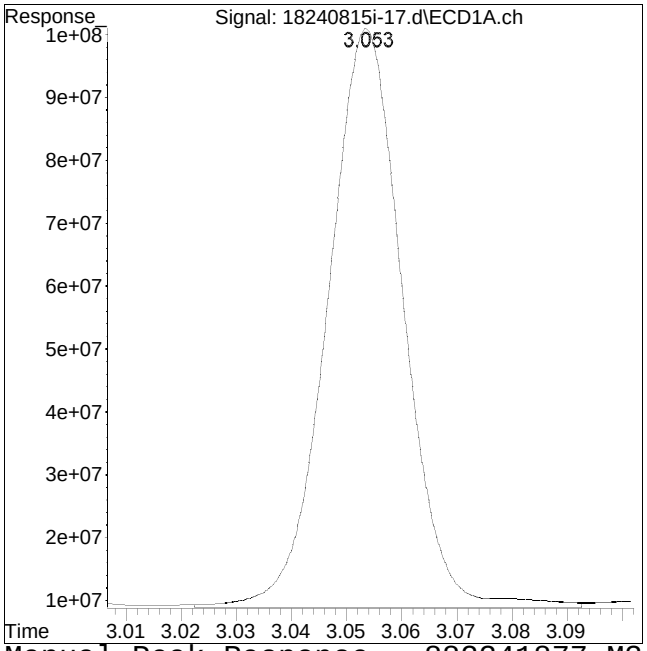
Original Peak Response = 362596588 Manual Peak Response = 356995855 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-17.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:45 Instrument : Pest 18
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/20/2024 12:14 pm

Compound #29: chlordane-1



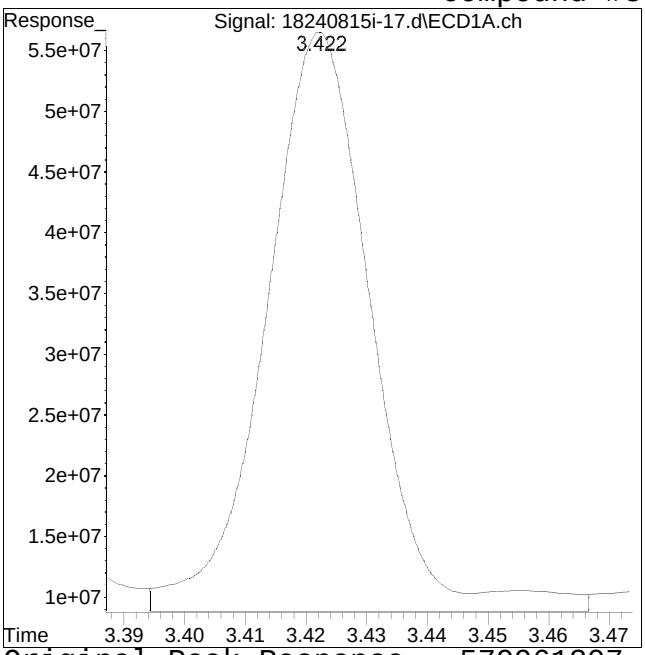


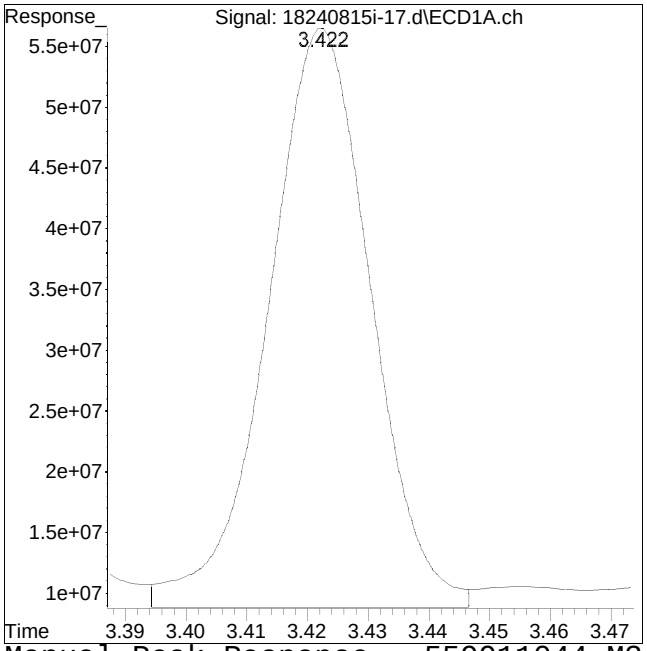
Original Peak Response = 885451522 Manual Peak Response = 882341877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-17.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:45 Instrument : Pest 18
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/20/2024 12:14 pm

Compound #30: chlordane-3



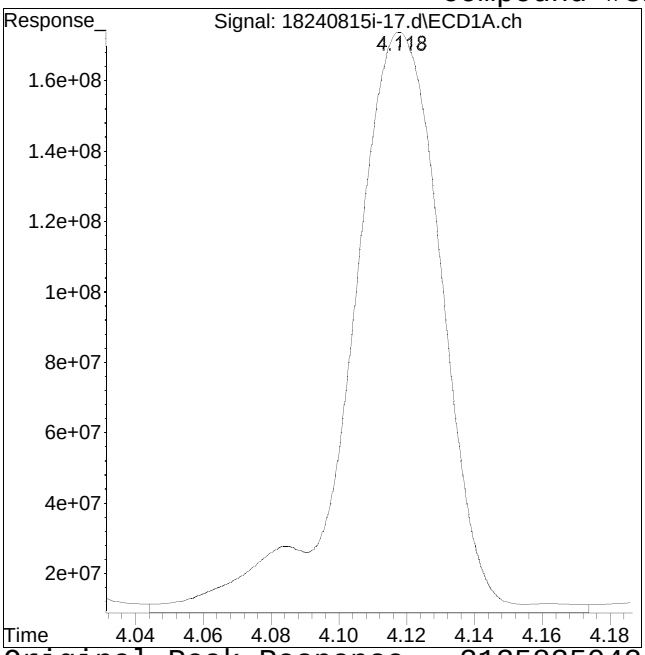


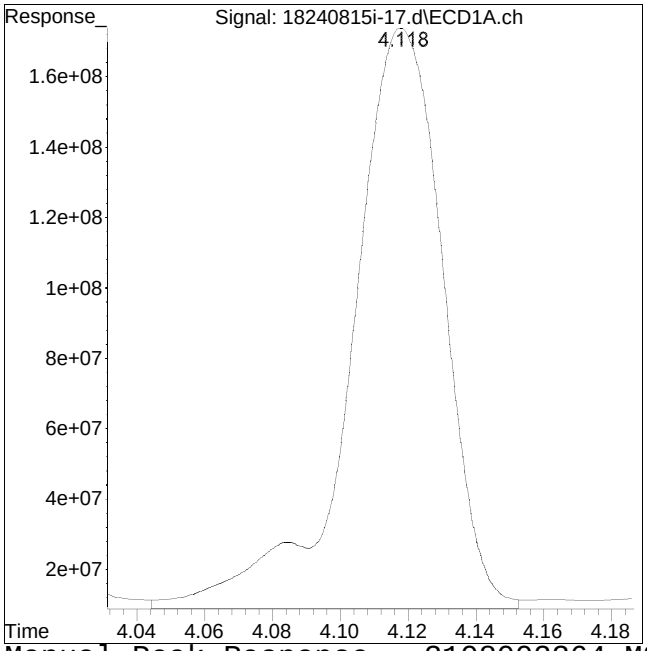
Original Peak Response = 579961307 Manual Peak Response = 559911044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-17.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:45 Instrument : Pest 18
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/20/2024 12:14 pm

Compound #32: chlordane-5





Original Peak Response = 3135835042 Manual Peak Response = 3108002364 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:56
Operator : PEST18:peg
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:22 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	563.8E6	346.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:56
Operator : PEST18:peg
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:22 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.053	3.346	1490.4E6	497.5E6	850.133M2	869.846M2
30)	l1	chlordane-3	3.422	3.961	936.8E6	514.2E6	832.585M2	812.203M2
31)	l1	chlordane-4	3.988	4.645	3268.8E6	1985.9E6	821.688M2	872.484M2
32)	l1	chlordane-5	4.118	4.820	5012.6E6	1545.1E6	822.685M2	854.477M2
		Sum chlordane-1			10708.6E6	4542.8E6	N.D.	N.D. D
		Average chlordane-1					831.773	852.253
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

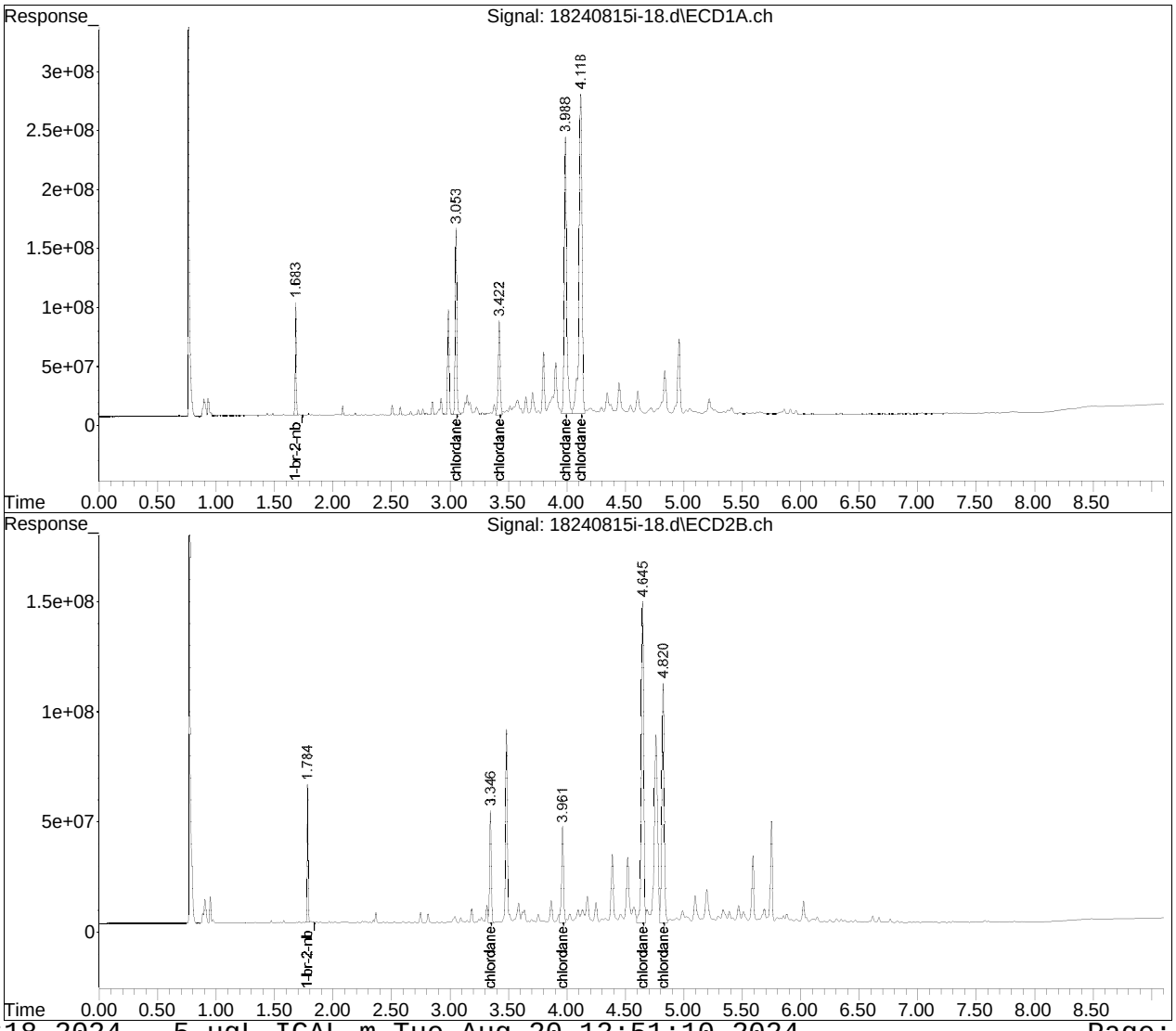
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 16:56
Operator : PEST18:peg
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:22 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

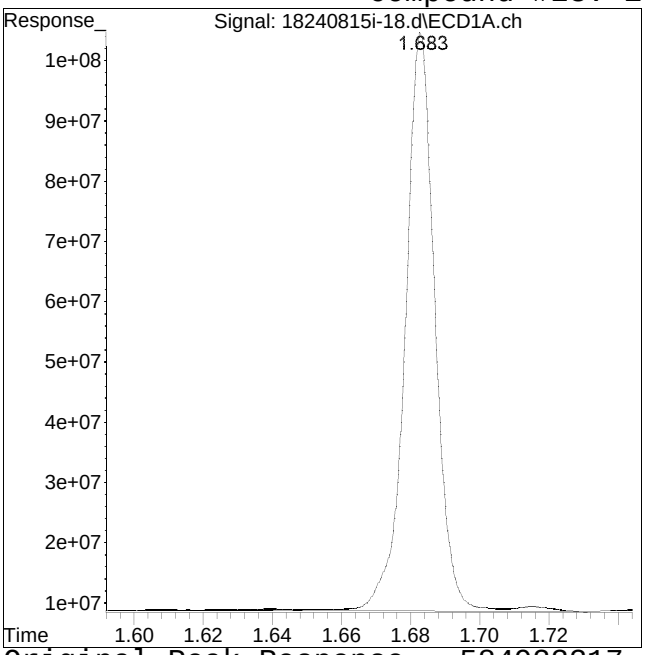
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

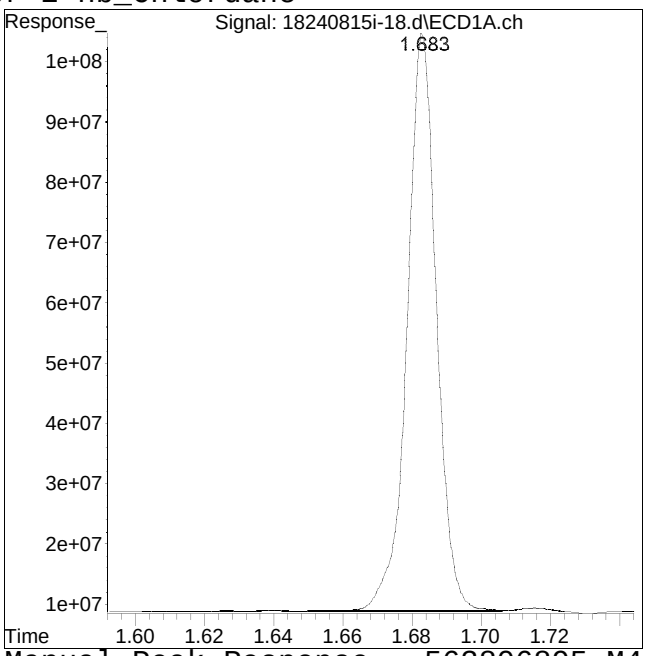


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #28: 1-br-2-nb_Chlordane



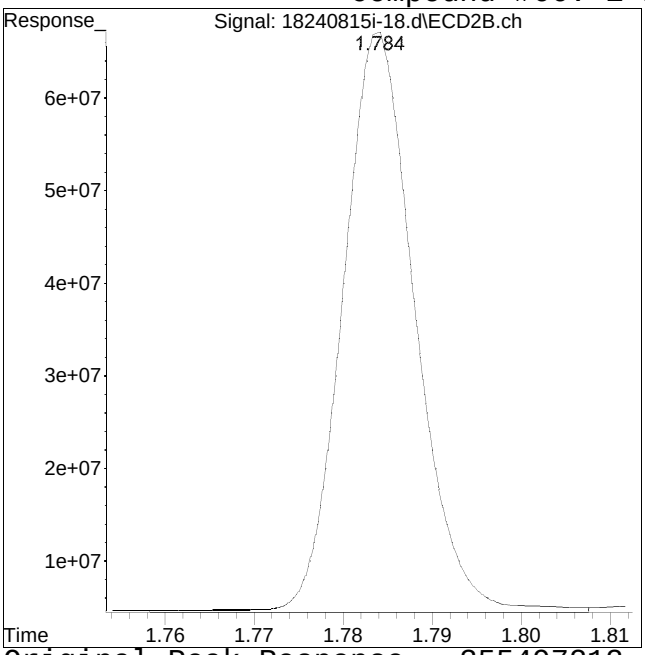


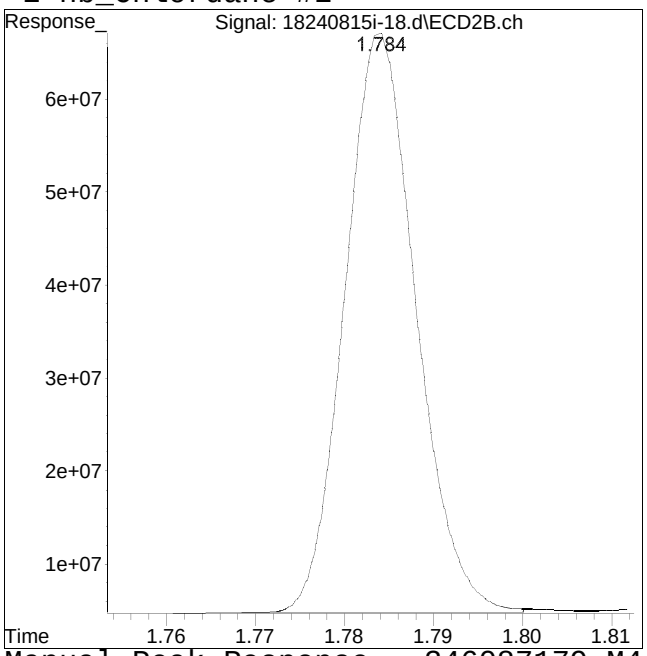
Original Peak Response = 584923317 Manual Peak Response = 563806895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #66: 1-br-2-nb_Chlordane #2



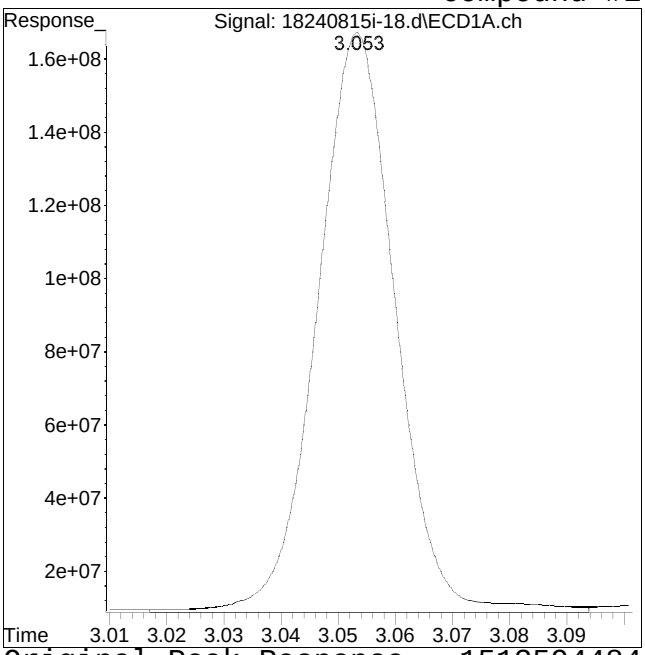


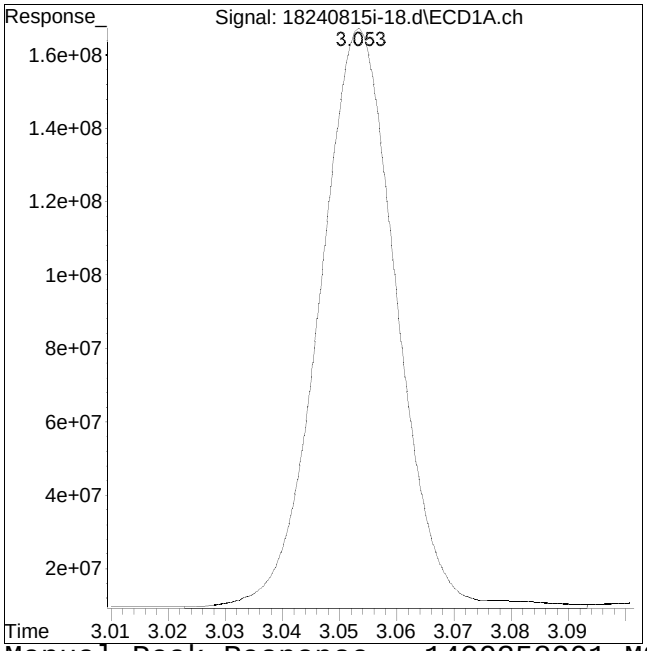
Original Peak Response = 355497212 Manual Peak Response = 346087179 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #29: chlordane-1



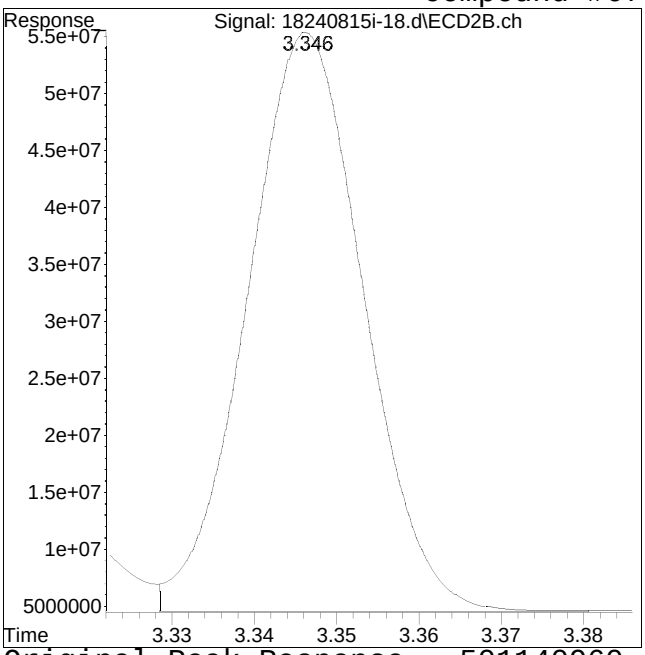


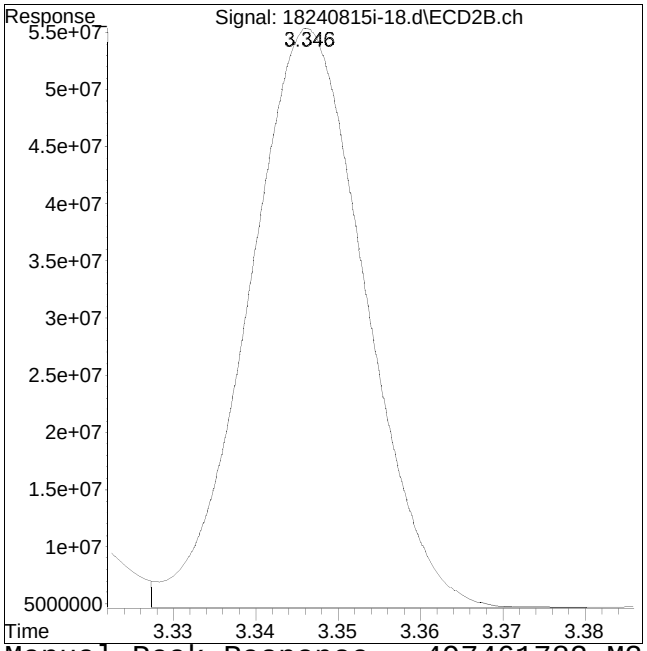
Original Peak Response = 1513594484 Manual Peak Response = 1490358901 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #67: chlordane-1 #2



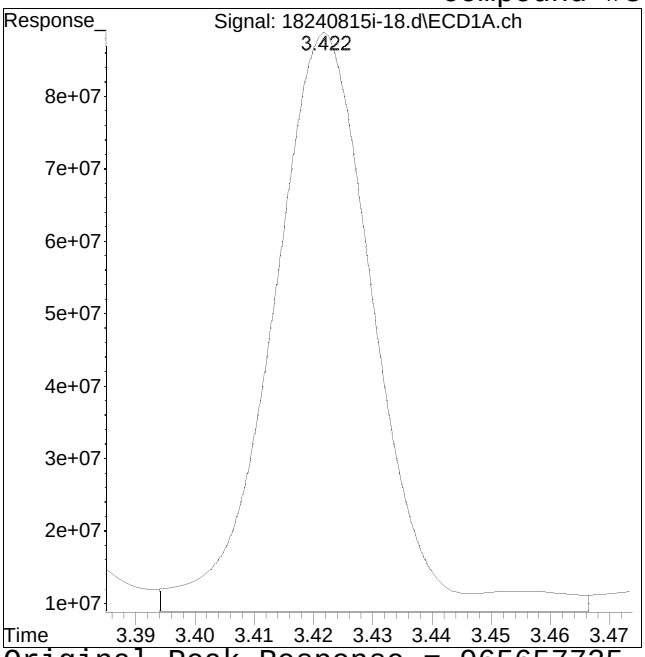


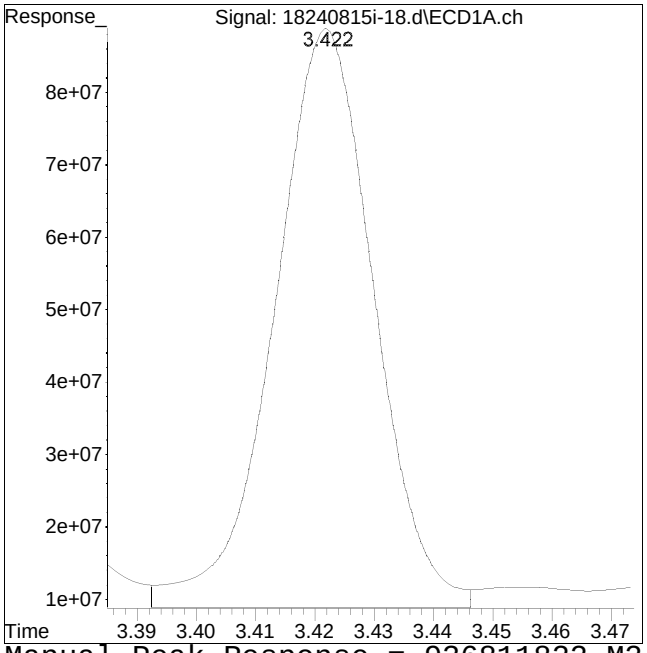
Original Peak Response = 501140960 Manual Peak Response = 497461782 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #30: chlordane-3



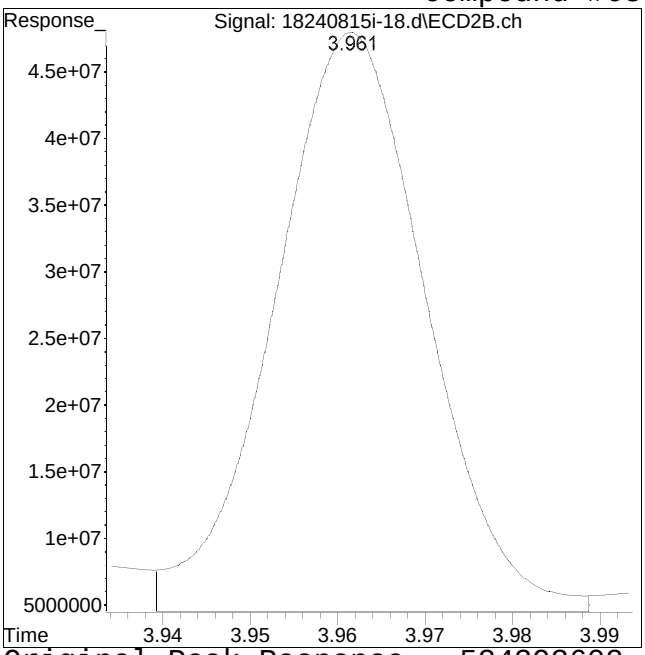


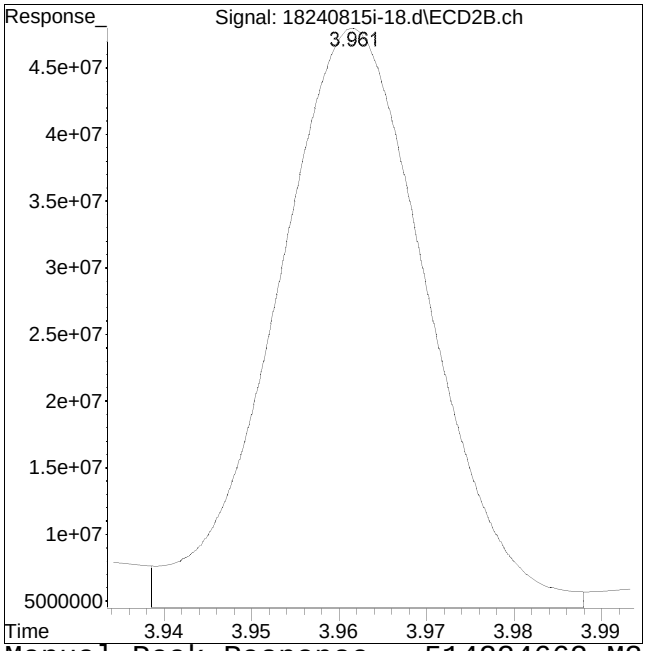
Original Peak Response = 965657725 Manual Peak Response = 936811822 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #68: chlordane-3 #2



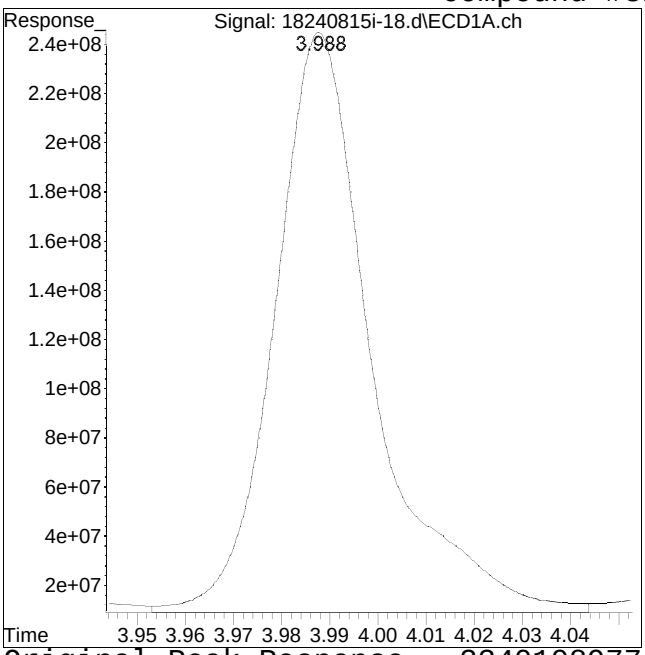


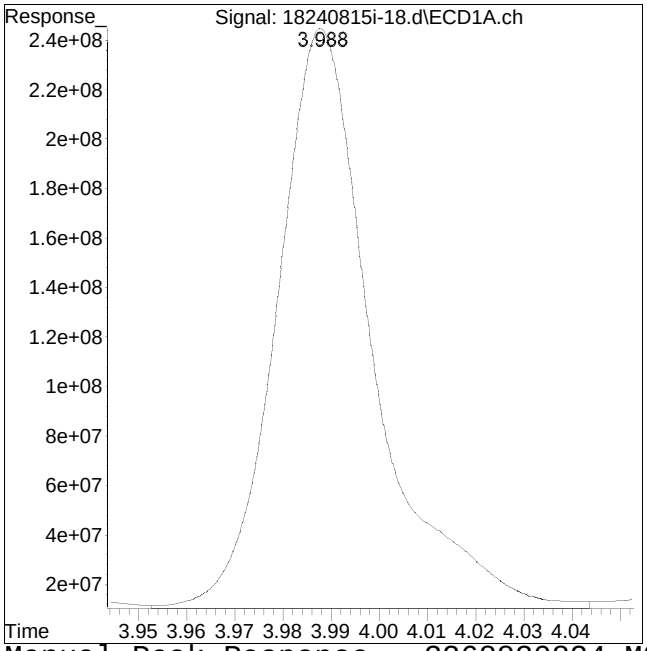
Original Peak Response = 524393602 Manual Peak Response = 514224662 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #31: chlordane-4



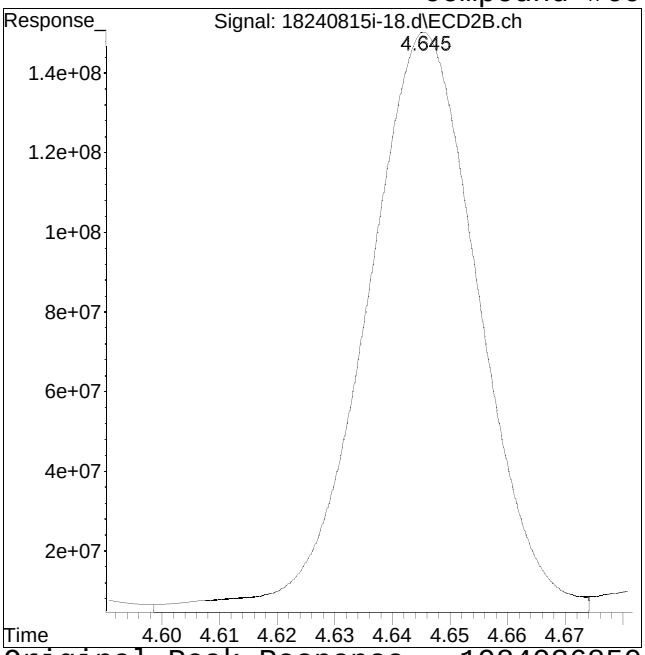


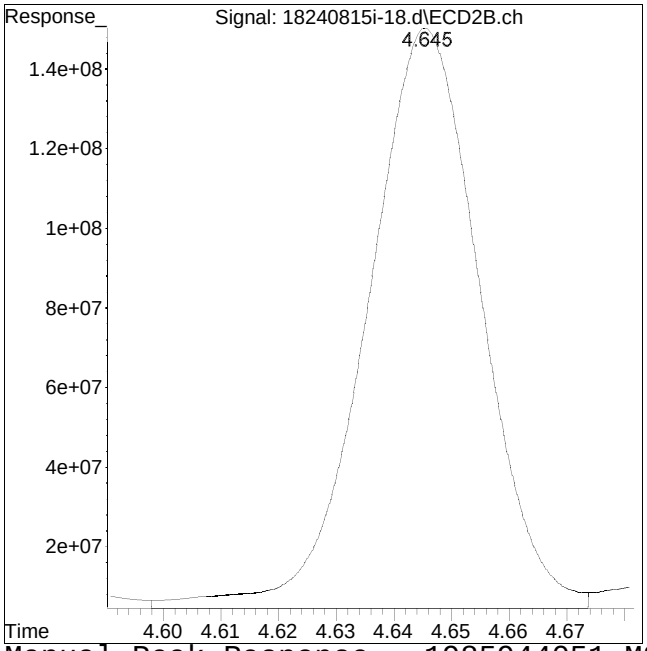
Original Peak Response = 3340108977 Manual Peak Response = 3268830824 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #69: chlordane-4 #2



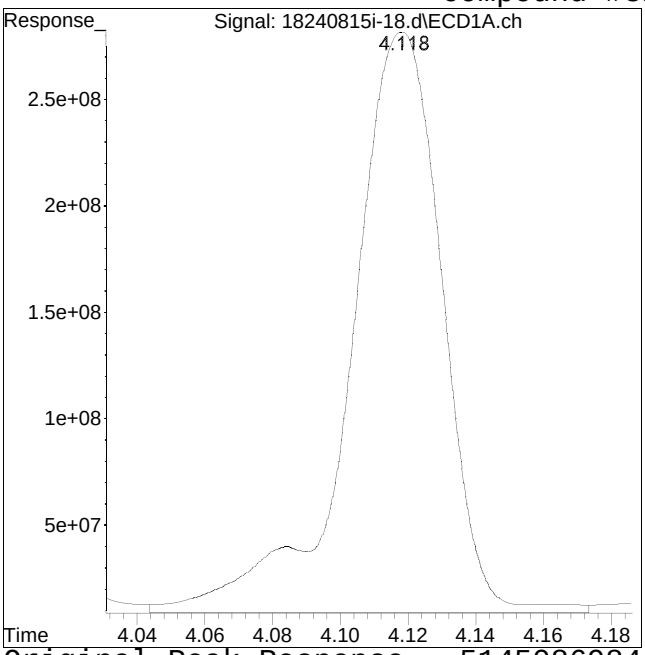


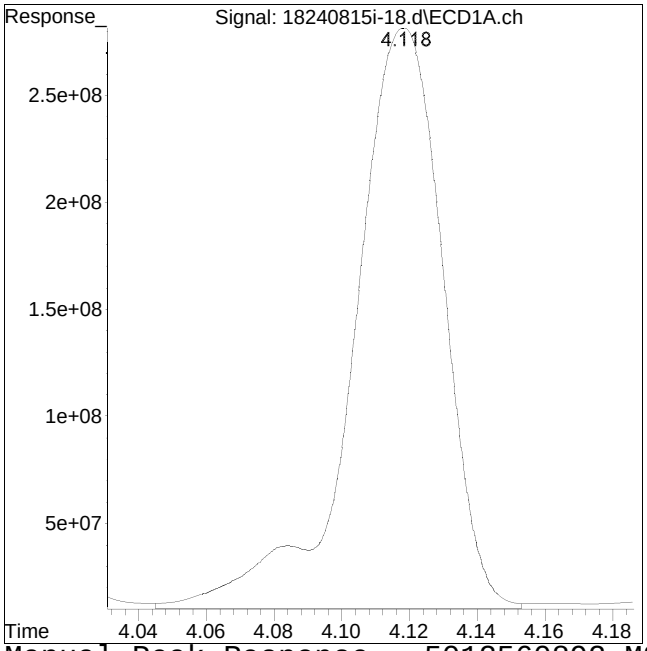
Original Peak Response = 1984036850 Manual Peak Response = 1985944051 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #32: chlordane-5



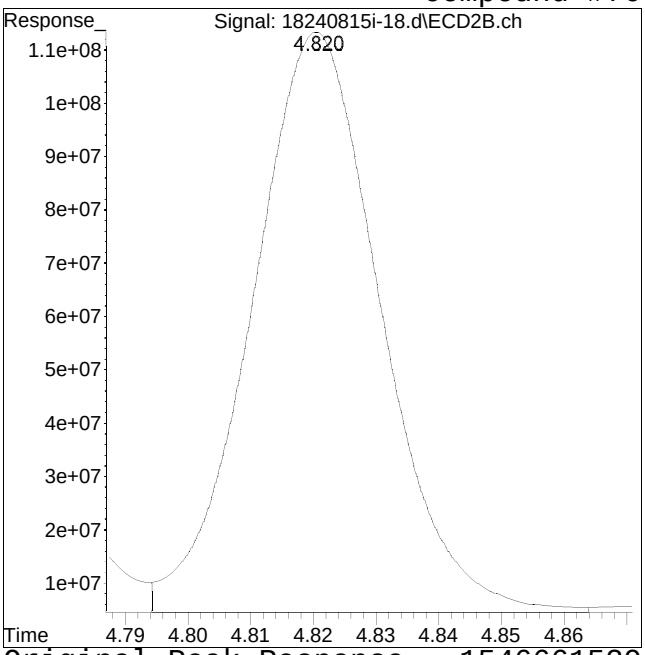


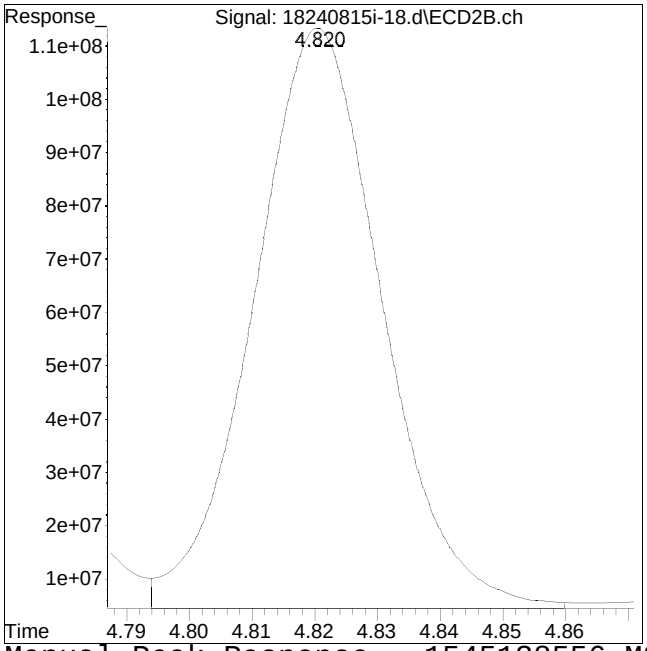
Original Peak Response = 5145086984 Manual Peak Response = 5012560892 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-18.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 16:56 Instrument : Pest 18
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/20/2024 12:14 pm

Compound #70: chlordane-5 #2





Original Peak Response = 1546661529 Manual Peak Response = 1545138556 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:08
Operator : PEST18:peg
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:34 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.784	581.9E6	366.6E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:08
Operator : PEST18:peg
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:34 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.054	3.347	2942.8E6	1033.8E6	1626.304	1706.611
30)	l1	chlordane-3	3.423	3.962	1843.8E6	1065.0E6	1587.609M3	1588.113
31)	l1	chlordane-4	3.989	4.646	6894.7E6	4294.2E6	1679.099	1781.086
32)	l1	chlordane-5	4.118	4.821	10534.9E6	3342.4E6	1675.151M3	1745.008
		Sum chlordane-1			22216.2E6	9735.5E6	N.D.	N.D. D
		Average chlordane-1					1642.041	1705.205
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

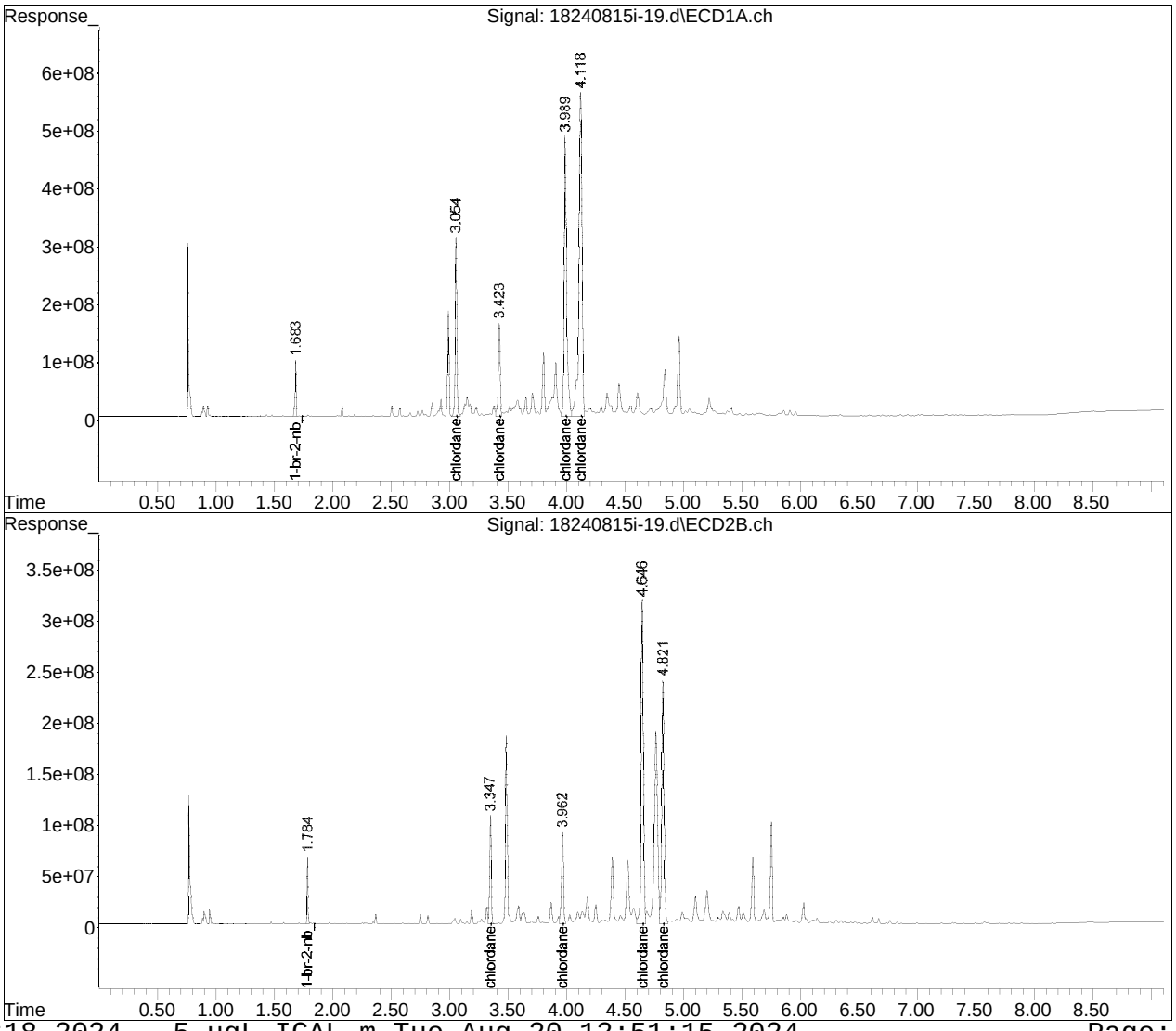
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:08
Operator : PEST18:peg
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:14:34 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

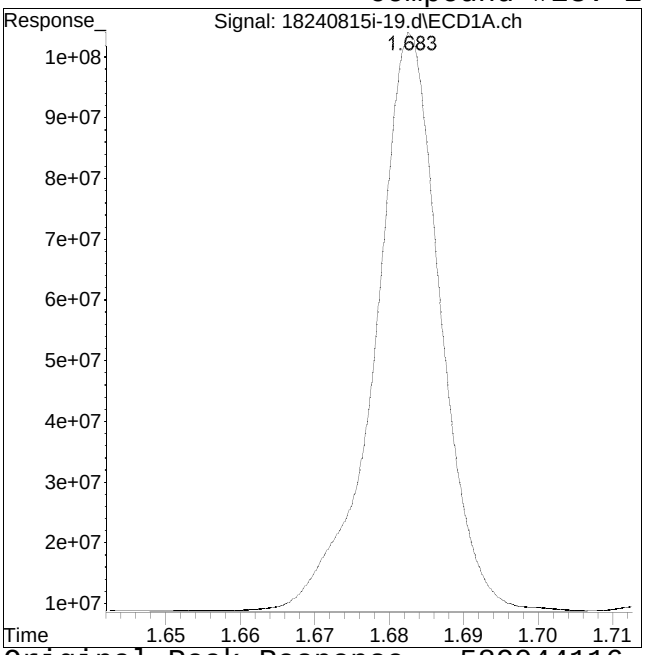
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

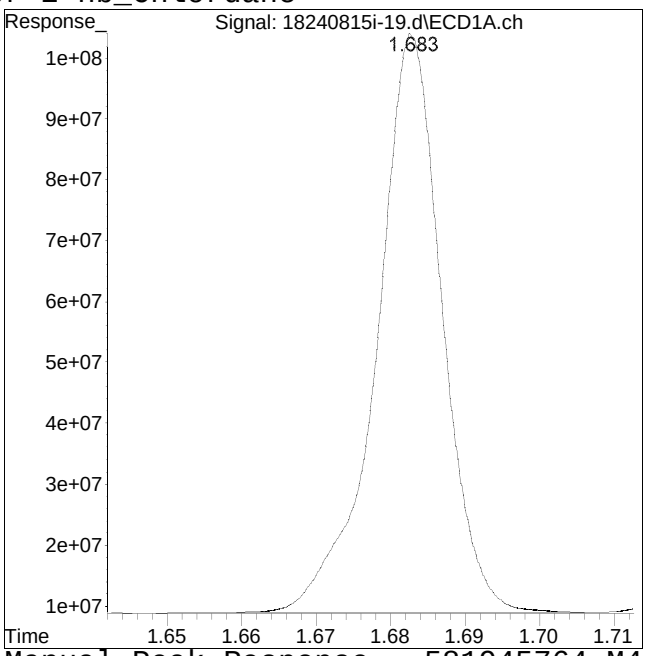


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-19.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:08 Instrument : Pest 18
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/20/2024 12:14 pm

Compound #28: 1-br-2-nb_Chlordane



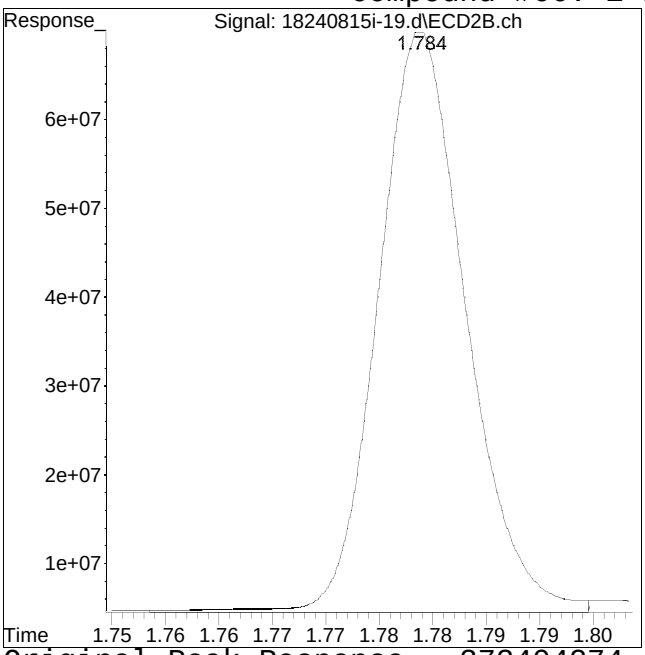


Original Peak Response = 589044116 Manual Peak Response = 581945764 M4
M4 = Poor automated baseline construction.

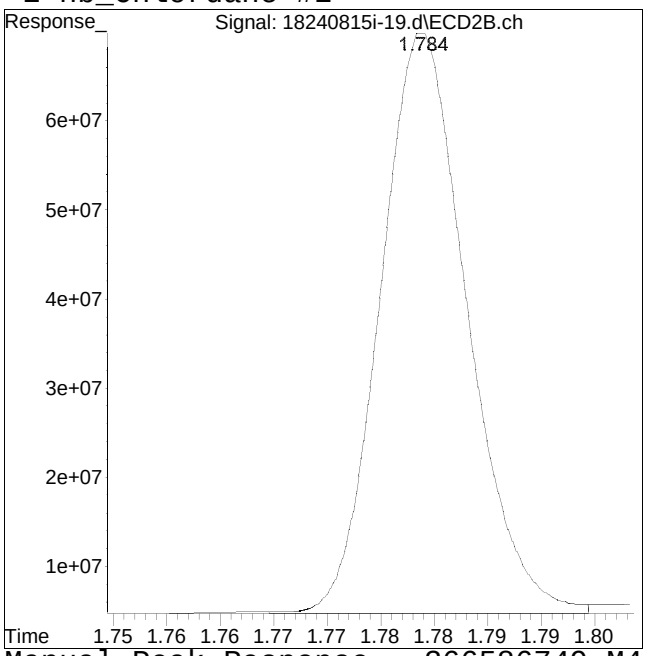
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-19.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:08 Instrument : Pest 18
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/20/2024 12:14 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 373404274



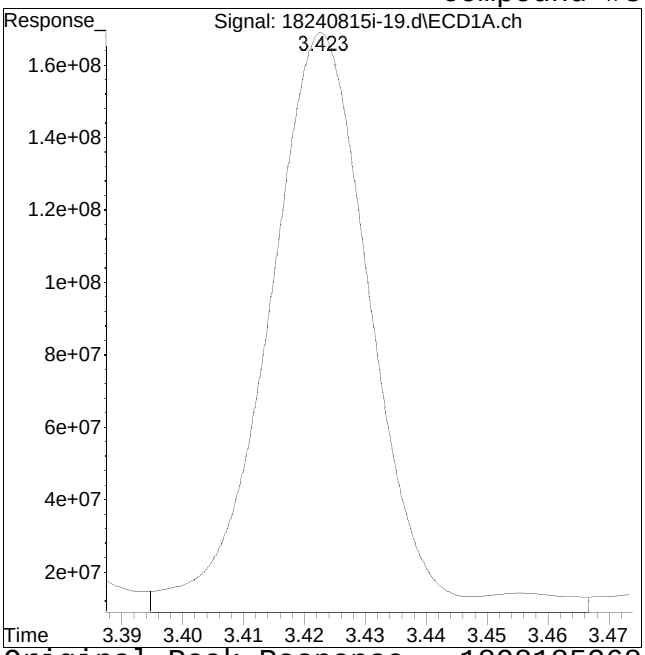
Manual Peak Response = 366586749 M4

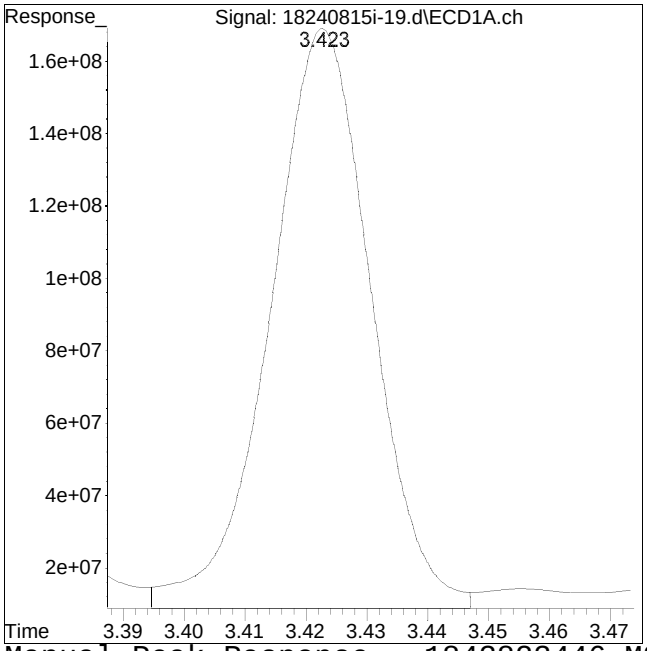
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-19.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:08 Instrument : Pest 18
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/20/2024 12:14 pm

Compound #30: chlordane-3



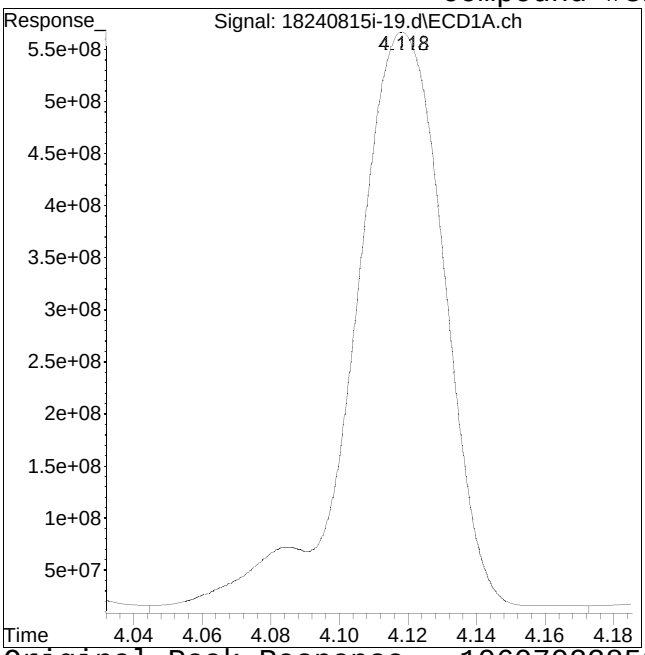


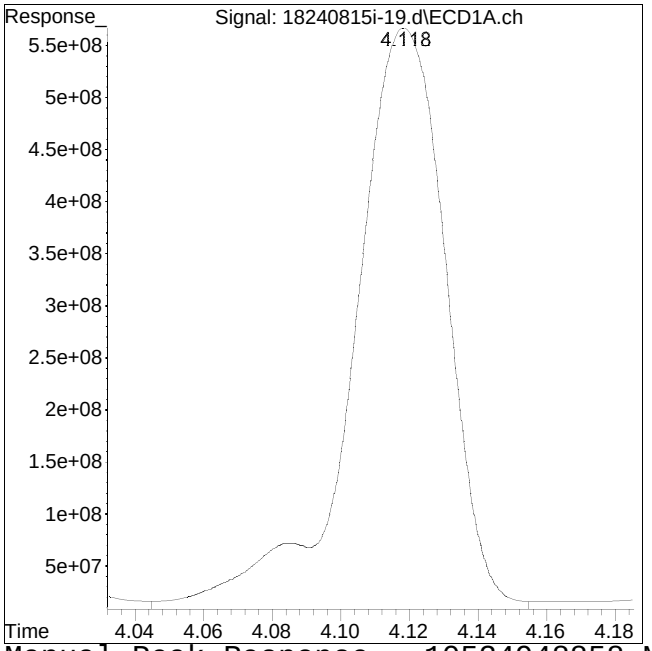
Original Peak Response = 1898185268 Manual Peak Response = 1843823446 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-19.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:08 Instrument : Pest 18
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/20/2024 12:14 pm

Compound #32: chlordane-5





Original Peak Response = 10607022850 Manual Peak Response = 10534948858 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	95	0.00
29	l1	chlordane-1		0.078	0.051	34.6#	77	0.00
30	l1	chlordane-3		0.050	0.041	18.0	99	0.00
31	l1	chlordane-4		0.176	0.150	14.8	103	0.00
32	l1	chlordane-5		0.270	0.255	5.6	114	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	95	0.00
29	l1	chlordane-1		0.041	0.036	12.2	100	0.00
30	l1	chlordane-3		0.046	0.037	19.6	102	0.00
31	l1	chlordane-4		0.164	0.142	13.4	99	0.00
32	l1	chlordane-5		0.131	0.109	16.8	98	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.68#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	0.000	100.0#	0#	-2.12#
3		Hexachlorobenzene		1.431	0.000	100.0#	0#	-2.36#
4		alpha-BHC		1.531	0.000	100.0#	0#	-2.47#
5		gamma-BHC (lindane)		1.404	0.000	100.0#	0#	-2.69#
6		beta-BHC		0.638	0.000	100.0#	0#	-2.75#
7		delta-BHC		1.404	0.000	100.0#	0#	-2.88#
8		Heptachlor		1.315	0.000	100.0#	0#	-3.05#
9		Aldrin		1.284	0.000	100.0#	0#	-3.30#
10		Alachlor		0.194	0.000	100.0#	0#	-3.44#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.54#
12		Heptachlor Epoxide		1.161	0.000	100.0#	0#	-3.86#
13		gamma-Chlordane (trans)		1.140	0.000	100.0#	0#	-3.99#

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.273	0.000	100.0#	0#	-4.13#
15		4,4'-DDE		1.268	0.000	100.0#	0#	-4.23#
16		Endosulfan I		1.138	0.000	100.0#	0#	-4.26#
17		Dieldrin		1.209	0.000	100.0#	0#	-4.52#
18		Endrin		1.209	0.000	100.0#	0#	-4.78#
19		4,4'-DDD		0.982	0.000	100.0#	0#	-4.90#
20		Endosulfan II		1.096	0.000	100.0#	0#	-5.03#
21		4,4'-DDT		1.107	0.000	100.0#	0#	-5.21#
22		Endrin Aldehyde		0.923	0.000	100.0#	0#	-5.46#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.72#
24		Mirex	*	50.000	0.000	100.0#	0	-5.76#
25		Endosulfan Sulfate		1.087	0.000	100.0#	0#	-5.87#
26		Endrin Ketone		1.216	0.000	100.0#	0#	-6.10#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.92#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.68#
34	l2	toxaphene-1		0.050	0.000	100.0#	0#	-5.02#
35	l2	toxaphene-2		0.054	0.000	100.0#	0#	-5.15#
36	l2	toxaphene-3		0.055	0.000	100.0#	0#	-5.39#
37	l2	toxaphene-4		0.055	0.000	100.0#	0#	-5.77#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.78#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	0.000	100.0#	0#	-2.34#
3		Hexachlorobenzene		1.260	0.000	100.0#	0#	-2.68#
4		alpha-BHC		1.569	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.462	0.000	100.0#	0#	-3.08#
6		beta-BHC		0.679	0.000	100.0#	0#	-3.15#
7		delta-BHC		1.445	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.318	0.000	100.0#	0#	-3.48#
9		Aldrin		1.307	0.000	100.0#	0#	-3.80#
10		Alachlor		0.196	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.05#
12		Heptachlor Epoxide		1.247	0.000	100.0#	0#	-4.42#
13		gamma-Chlordane (trans)		1.137	0.000	100.0#	0#	-4.65#
14		alpha-Chlordane (cis)		1.268	0.000	100.0#	0#	-4.82#
15		4,4'-DDE		1.245	0.000	100.0#	0#	-5.03#
16		Endosulfan I		1.167	0.000	100.0#	0#	-4.88#
17		Dieldrin		1.196	0.000	100.0#	0#	-5.19#
18		Endrin		1.197	0.000	100.0#	0#	-5.50#
19		4,4'-DDD		0.976	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.072	0.000	100.0#	0#	-5.71#
21		4,4'-DDT		1.070	0.000	100.0#	0#	-5.92#
22		Endrin Aldehyde		0.903	0.000	100.0#	0#	-6.01#
23		Methoxychlor		0.581	0.000	100.0#	0#	-6.50#
24		Mirex		0.903	0.000	100.0#	0#	-6.63#
25		Endosulfan Sulfate		1.032	0.000	100.0#	0#	-6.25#
26		Endrin Ketone		1.116	0.000	100.0#	0#	-6.67#
27	s	Decachlorobiphenyl		0.953	0.000	100.0#	0#	-7.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.78#
34	l2	toxaphene-1		0.025	0.000	100.0#	0#	-5.66#
35	l2	toxaphene-2		0.038	0.000	100.0#	0#	-5.69#
36	l2	toxaphene-3		0.045	0.000	100.0#	0#	-6.02#
37	l2	toxaphene-4		0.040	0.000	100.0#	0#	-6.43#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.683	1.783	563.0E6	348.2E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	3.054	3.346	1140.1E6	498.9E6	651.297	867.195	
30)	l1	chlordane-3	3.423	3.962	924.0E6	522.2E6	822.392M3	819.802	
31)	l1	chlordane-4	3.989	4.646	3379.8E6	1973.1E6	850.798	861.637	
32)	l1	chlordane-5	4.117	4.820	5732.6E6	1520.5E6	942.216	835.805	
	Sum	chlordane-1			11176.5E6	4514.8E6	N.D.	N.D.	D
Average		chlordane-1					816.676	846.110	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

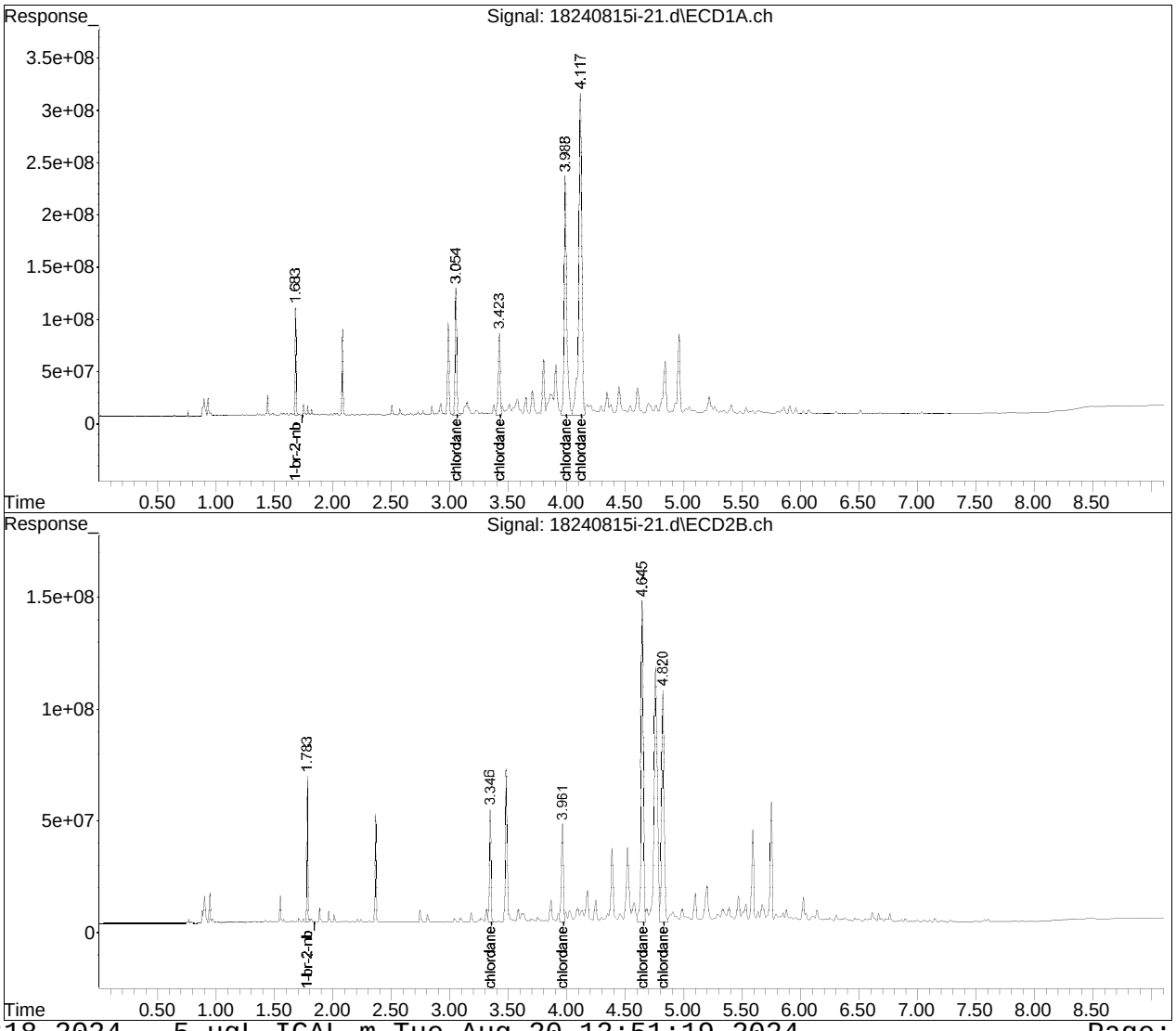
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:31
Operator : PEST18:peg
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:38:47 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

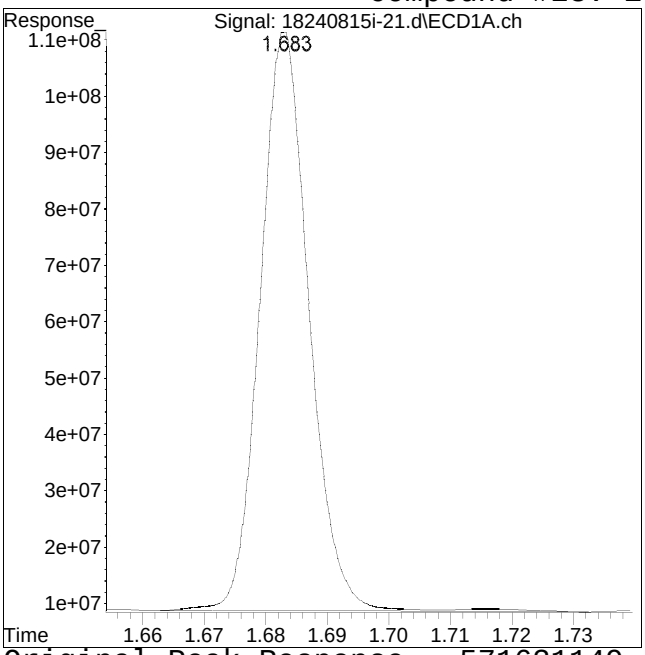
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

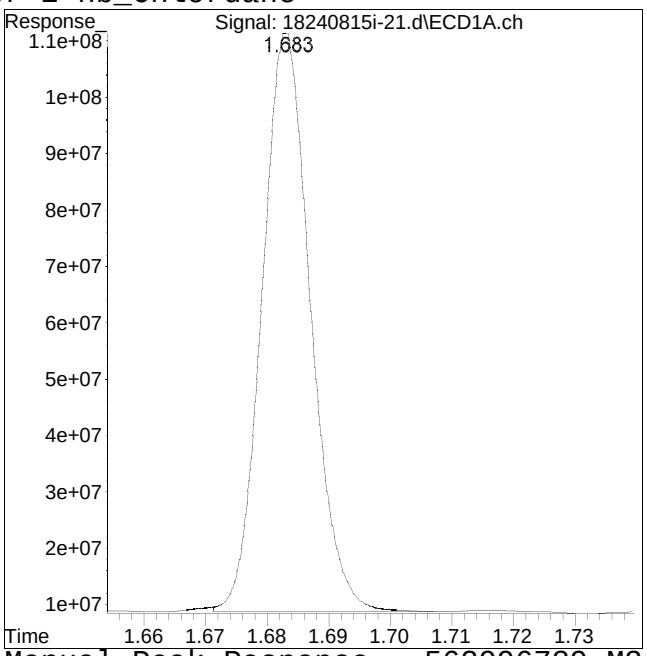


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-21.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:31 Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/20/2024 12:38 pm

Compound #28: 1-br-2-nb_Chlordane



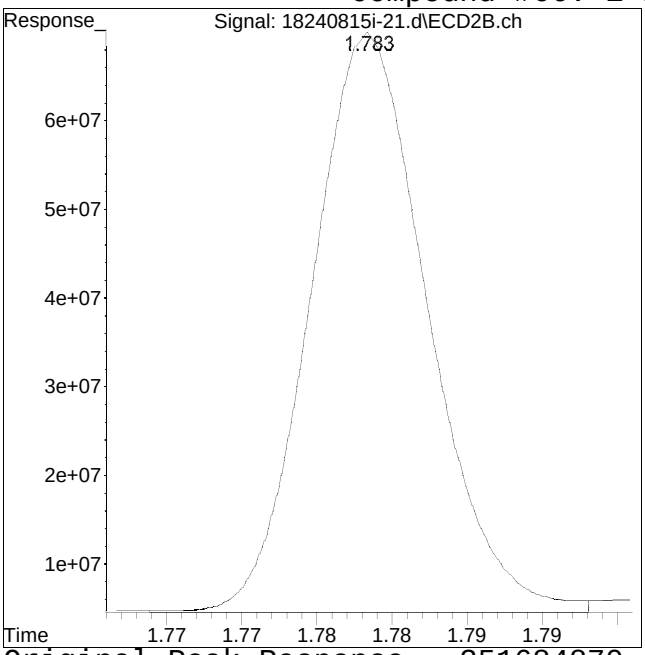


Original Peak Response = 571631149 Manual Peak Response = 562996739 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

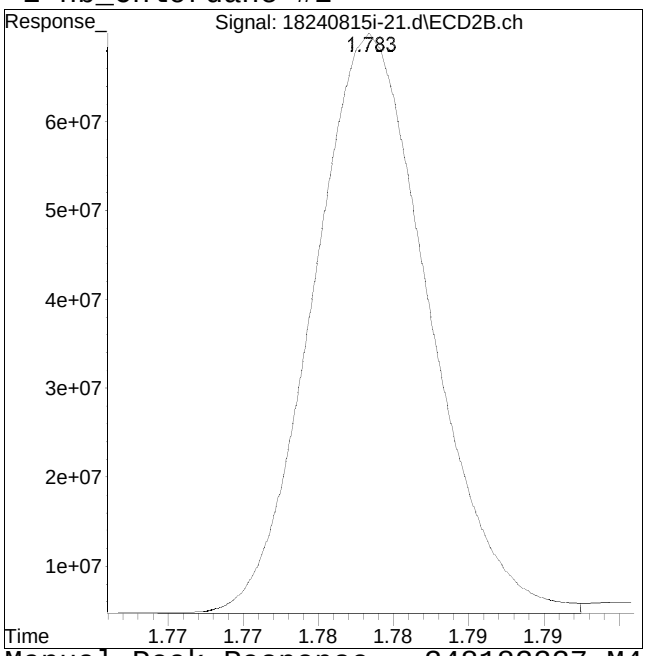
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-21.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:31 Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/20/2024 12:38 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 351684870

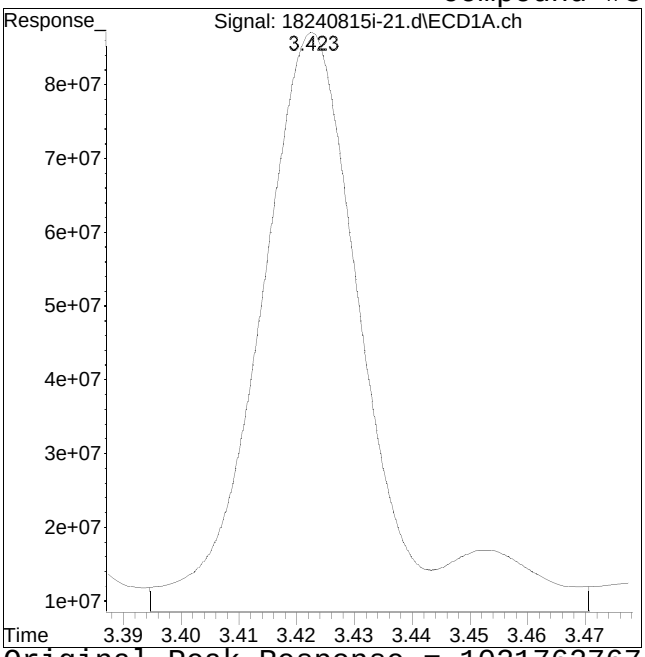


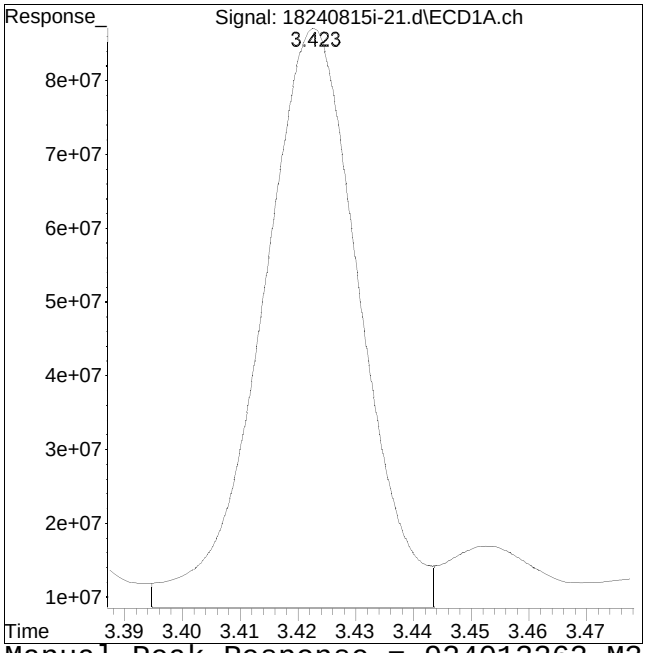
Manual Peak Response = 348183337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-21.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:31 Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/20/2024 12:38 pm

Compound #30: chlordane-3





Original Peak Response = 1021762767 Manual Peak Response = 924013263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:42
Operator : PEST18:peg
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:22:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:22:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.784	533.5E6	338.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:42
Operator : PEST18:peg
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:22:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:22:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.023	5.664	20207446	5410289	18.785M3	15.922
35) l2	toxaphene-2	5.153	5.692	20300317	9211256	17.407M4	17.883
36) l2	toxaphene-3	5.389	6.019	20576430	10612972	17.544M4	17.374
37) l2	toxaphene-4	5.772	6.435	30656317	8938733	26.197M4	16.442
Sum	toxaphene-1			91740510	34173250	79.933	67.621
Average	toxaphene-1					19.983	16.905

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			91740510	34173250	79.933	67.621
Average	toxaphene-1					19.983	16.905

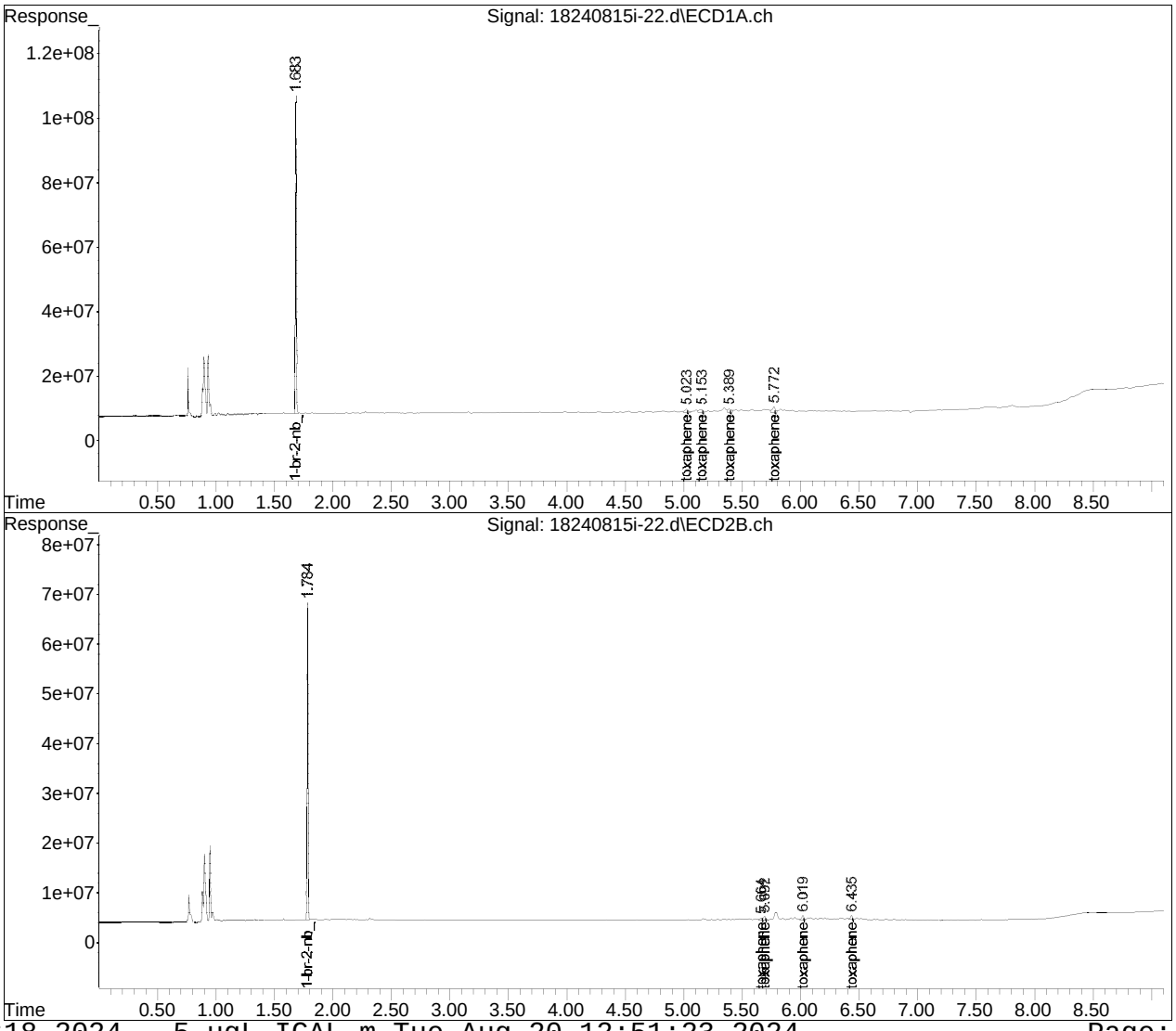
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:42
Operator : PEST18:peg
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:22:19 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:22:10 2024
Response via : Initial Calibration
Integrator: ChemStation

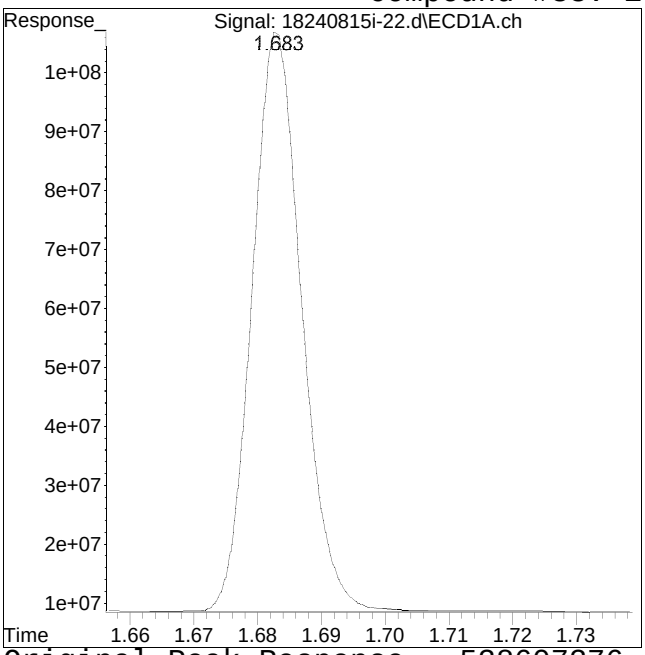
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

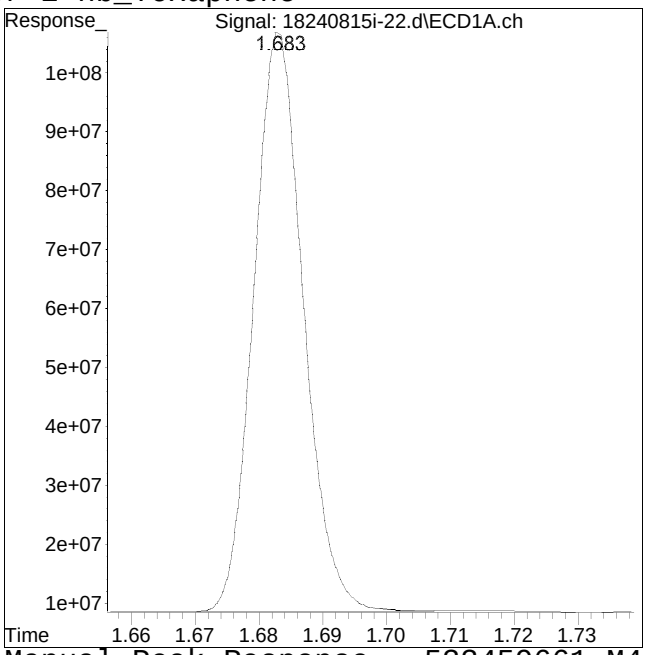


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #33: 1-br-2-nb_Toxaphene



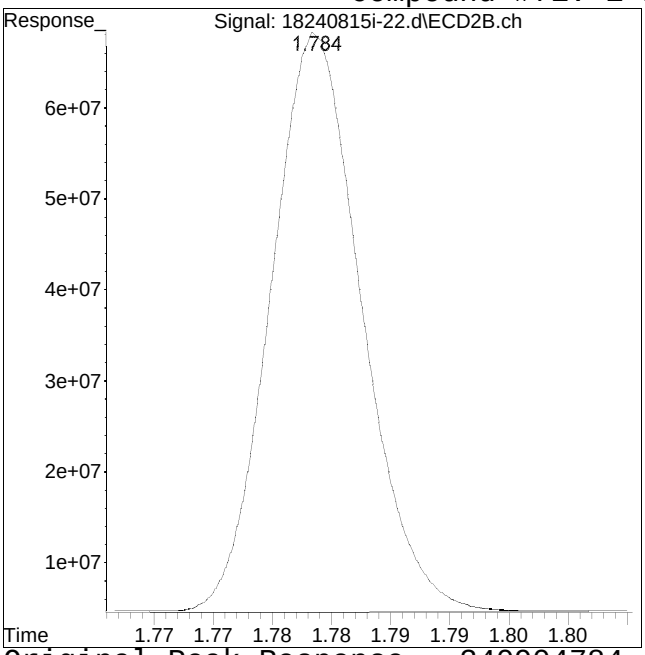


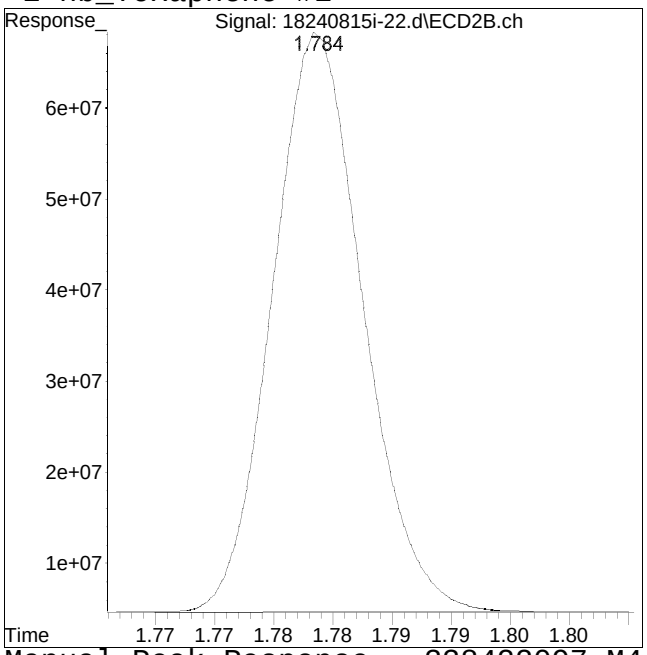
Original Peak Response = 538607376 Manual Peak Response = 533459661 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #71: 1-br-2-nb_Toxaphene #2



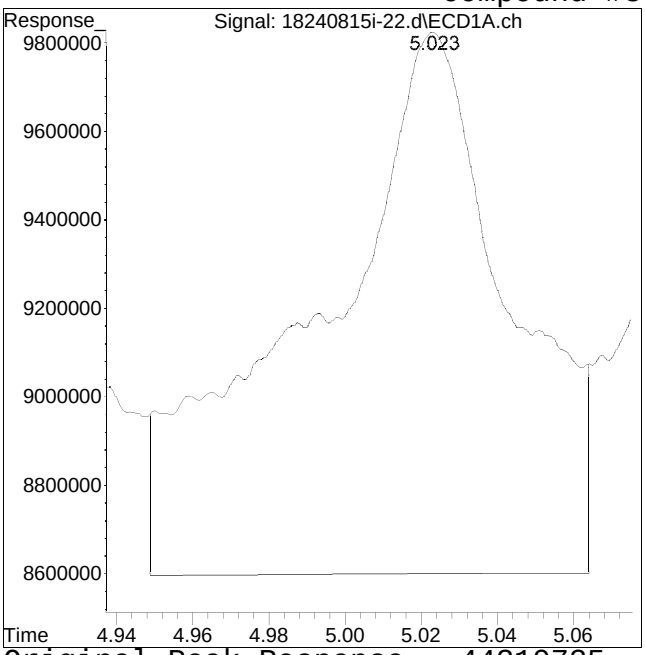


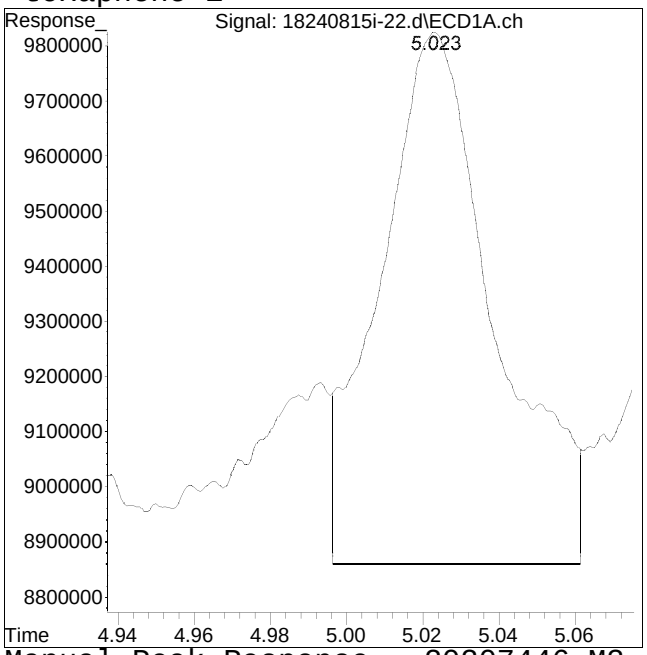
Original Peak Response = 340904784 Manual Peak Response = 338422097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #34: toxaphene-1



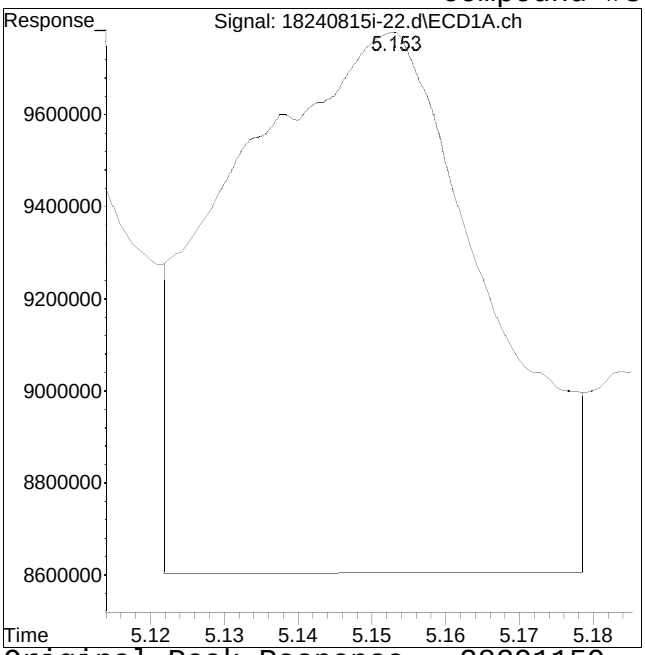


Original Peak Response = 44310735 Manual Peak Response = 20207446 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

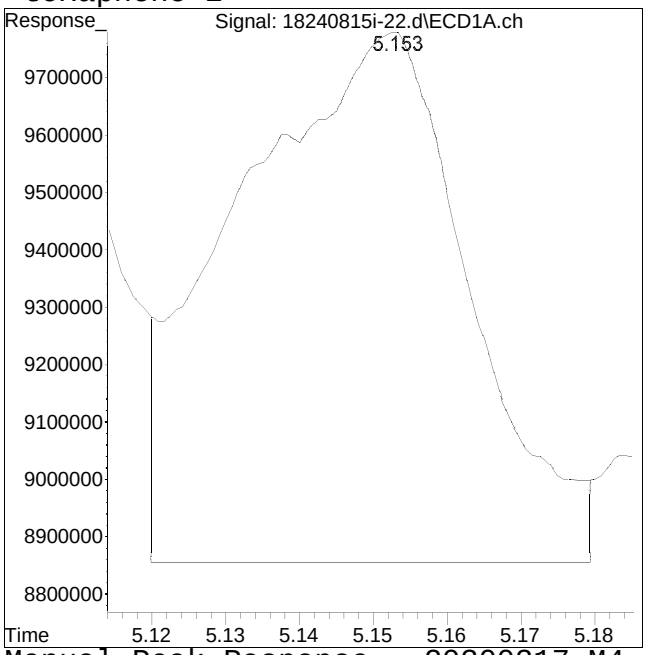
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #35: toxaphene-2



Original Peak Response = 28291159



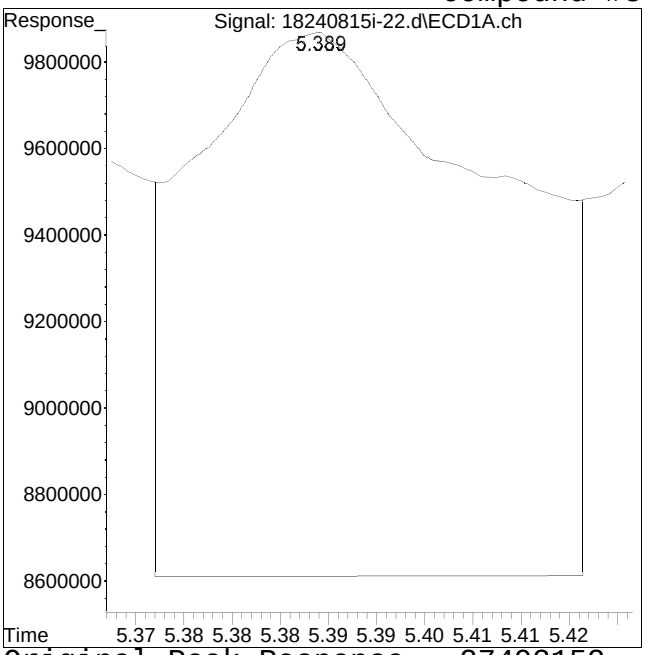
Manual Peak Response = 20300317 M4

M4 = Poor automated baseline construction.

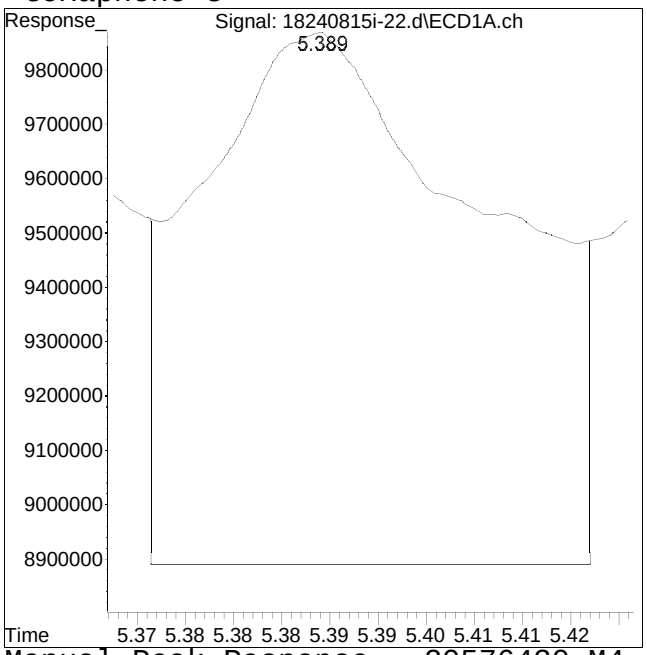
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #36: toxaphene-3



Original Peak Response = 27492152



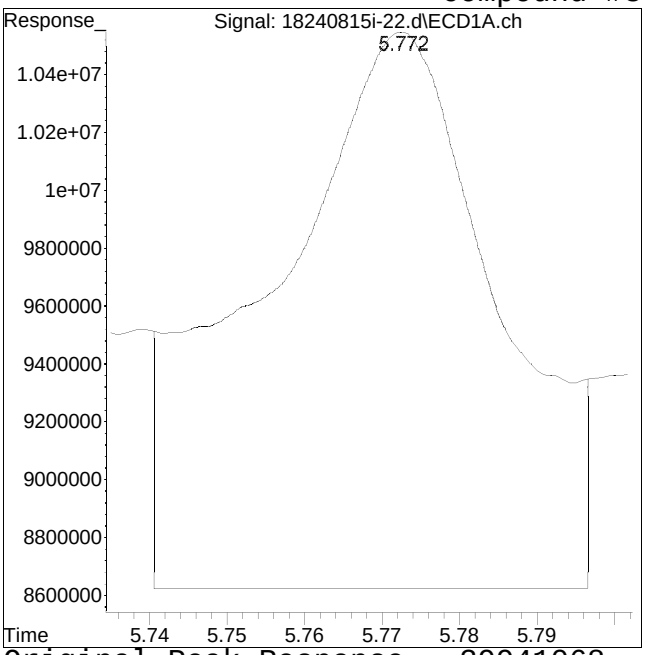
Manual Peak Response = 20576430 M4

M4 = Poor automated baseline construction.

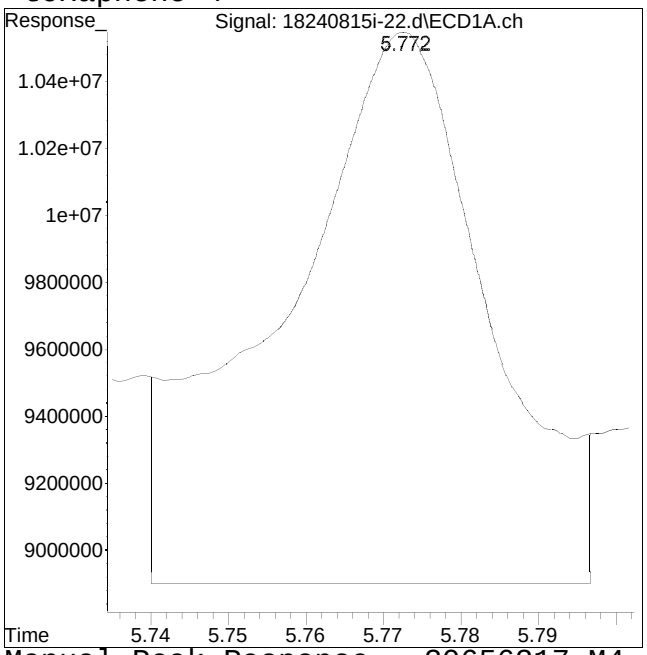
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-22.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:42 Instrument : Pest 18
Sample : il3tox,42e,,pp 11703 L0.02Quant Date : 8/20/2024 12:22 pm

Compound #37: toxaphene-4



Original Peak Response = 39941068



Manual Peak Response = 30656317 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:54
Operator : PEST18:peg
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:29:45 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:29:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.784	578.9E6	361.6E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:54
Operator : PEST18:peg
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:29:45 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:29:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	5.022	5.663	125.7E6	39774829	109.029M3	109.548
35)	l2	toxaphene-2	5.151	5.692	138.4E6	60202927	109.821M3	109.387
36)	l2	toxaphene-3	5.388	6.019	152.6E6	69978399	119.877	107.218
37)	l2	toxaphene-4	5.773	6.435	132.2E6	64273093	104.146	110.646
	Sum	toxaphene-1			548.9E6	234.2E6	442.873	436.799
Average		toxaphene-1					110.718	109.200

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			548.9E6	234.2E6	442.873	436.799
Average		toxaphene-1					110.718	109.200

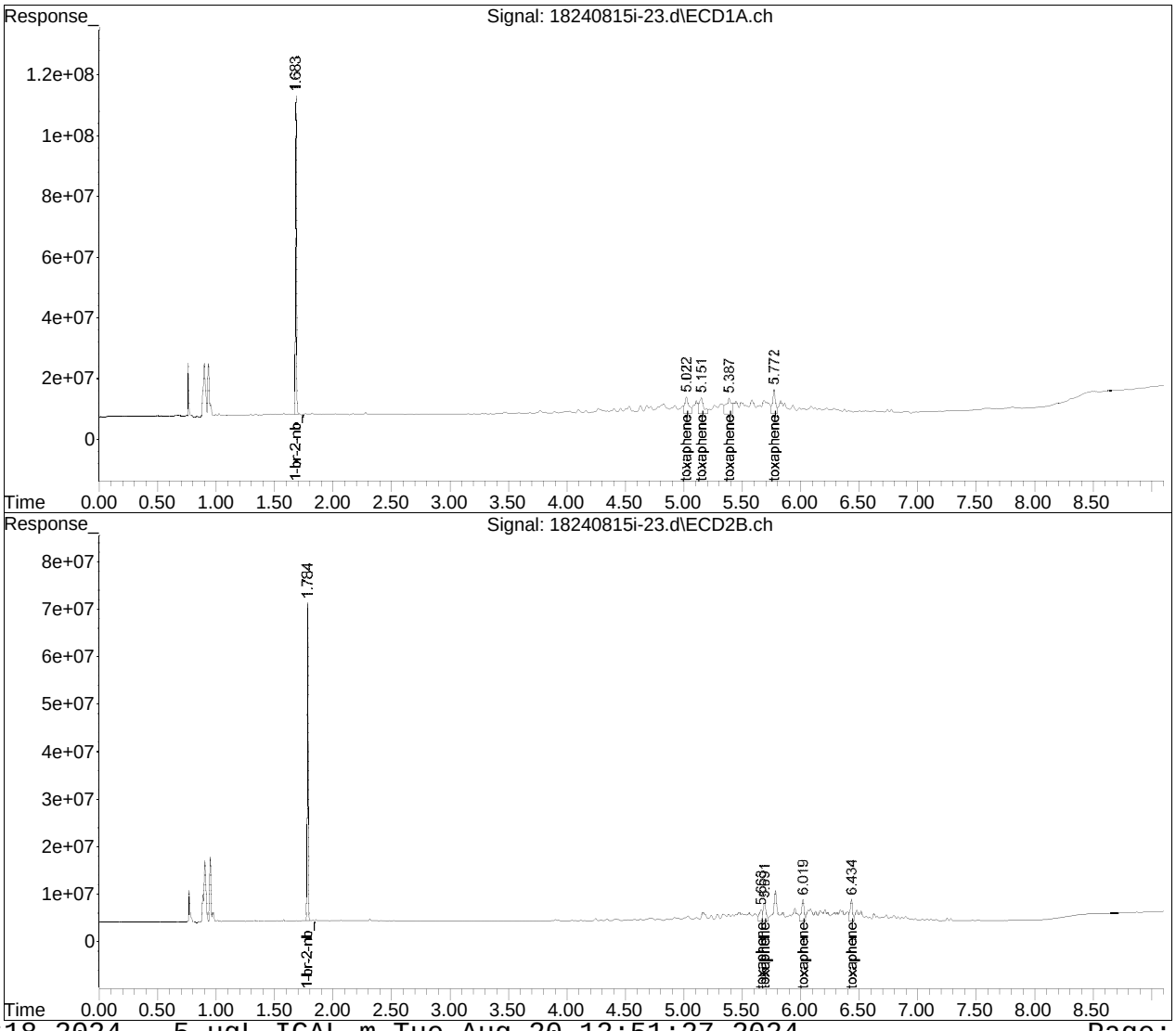
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 17:54
Operator : PEST18:peg
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:29:45 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:29:37 2024
Response via : Initial Calibration
Integrator: ChemStation

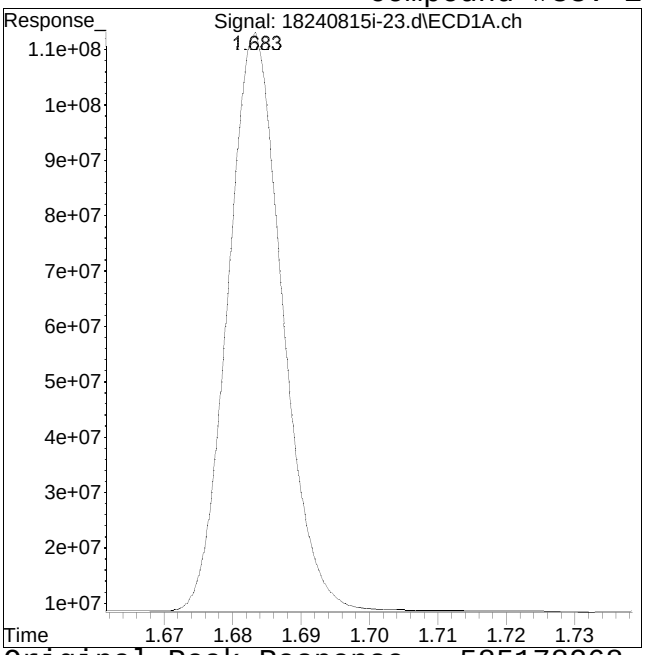
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

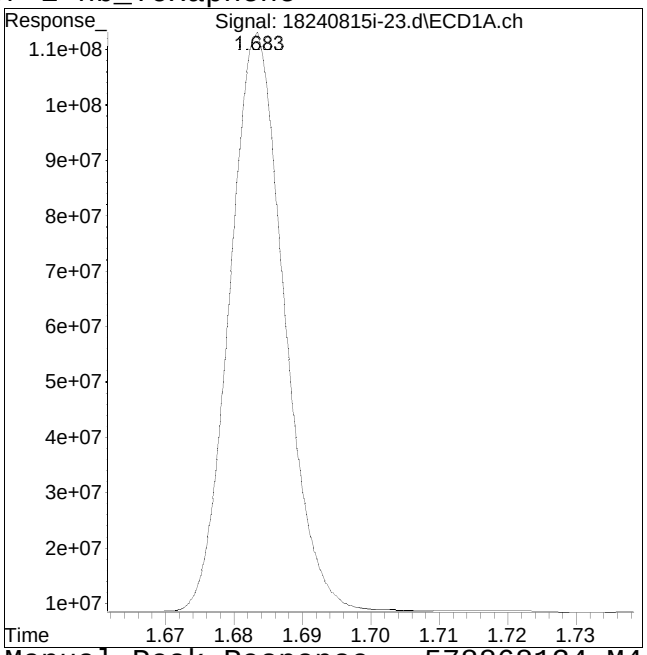


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-23.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:54 Instrument : Pest 18
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/20/2024 12:29 pm

Compound #33: 1-br-2-nb_Toxaphene



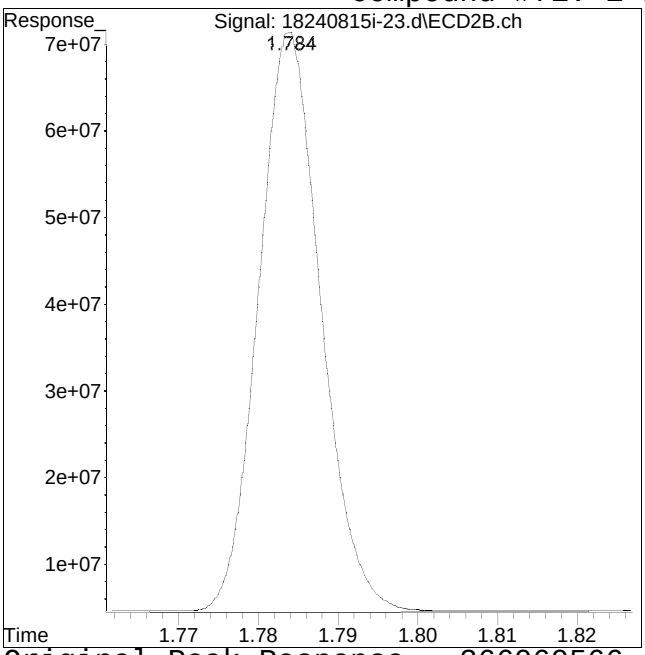


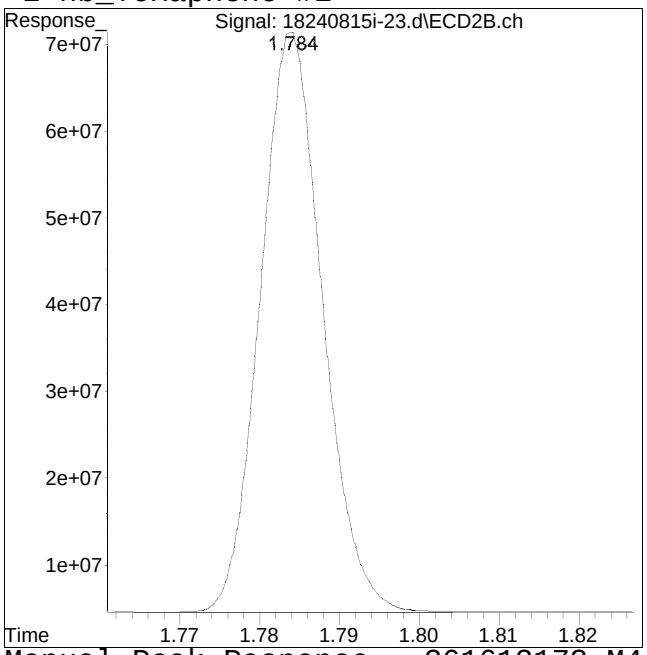
Original Peak Response = 585178268 Manual Peak Response = 578868134 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-23.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:54 Instrument : Pest 18
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/20/2024 12:29 pm

Compound #71: 1-br-2-nb_Toxaphene #2



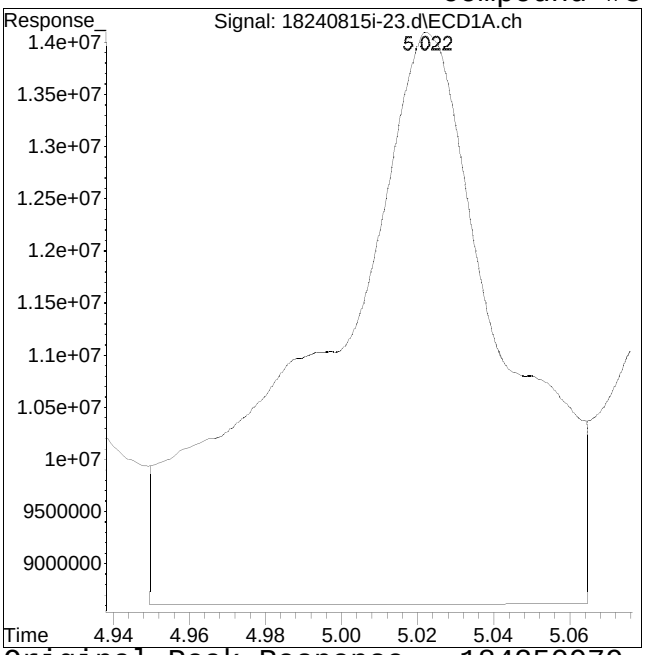


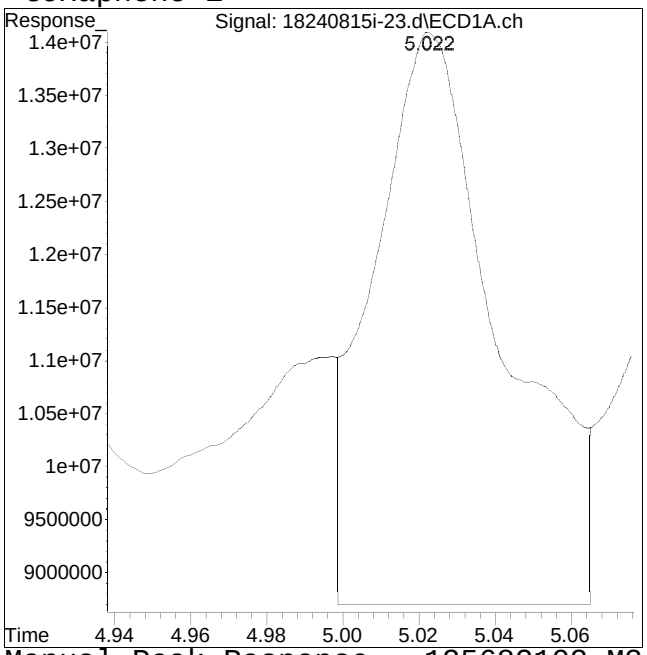
Original Peak Response = 366060566 Manual Peak Response = 361613173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-23.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:54 Instrument : Pest 18
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/20/2024 12:29 pm

Compound #34: toxaphene-1



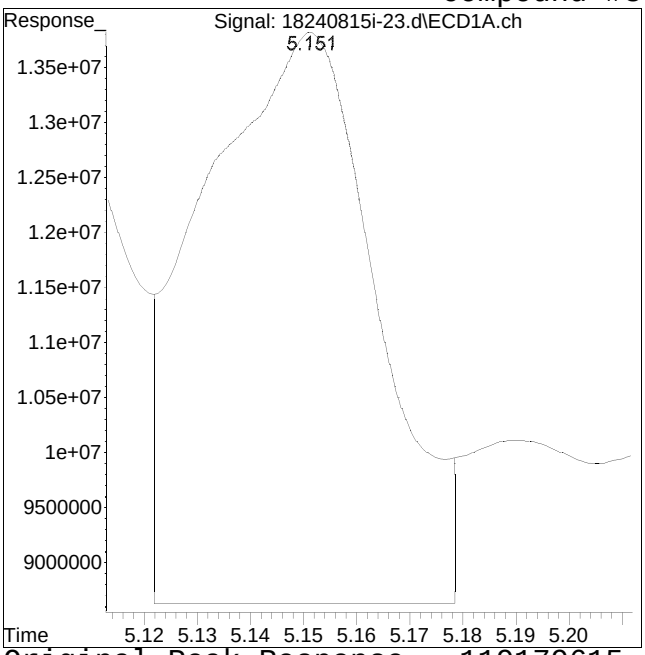


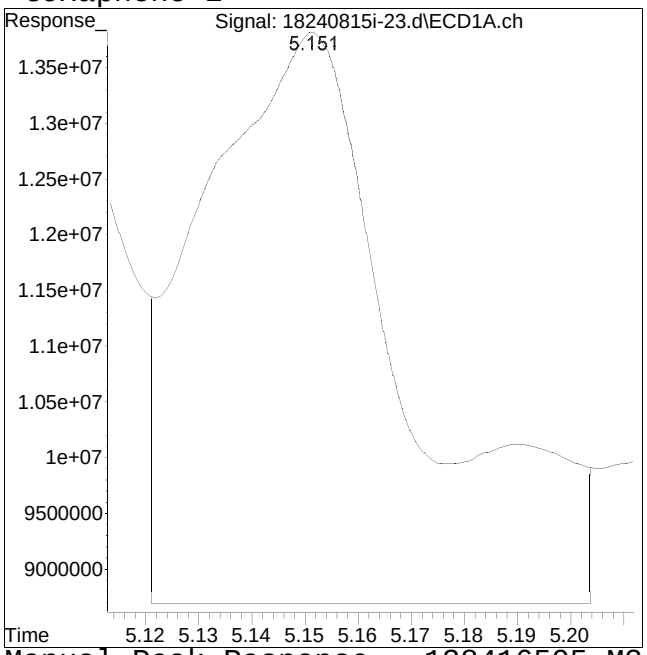
Original Peak Response = 184250979 Manual Peak Response = 125682102 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-23.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 17:54 Instrument : Pest 18
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/20/2024 12:29 pm

Compound #35: toxaphene-2





Original Peak Response = 119179615 Manual Peak Response = 138416595 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:05
Operator : PEST18:peg
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:16:37 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:16:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.784	564.9E6	348.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:05
Operator : PEST18:peg
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:16:37 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:16:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	5.022	5.664	1149.2E6	359.0E6	1035.784M3	989.546
35)	l2	toxaphene-2	5.152	5.692	1233.9E6	537.8E6	993.880M3	1009.361
36)	l2	toxaphene-3	5.388	6.019	1213.1E6	638.5E6	1001.990	994.915
37)	l2	toxaphene-4	5.772	6.435	1098.7E6	573.8E6	1004.097	1000.434
	Sum	toxaphene-1			4694.8E6	2109.1E6	4035.751	3994.256
Average		toxaphene-1					1008.938	998.564

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			4694.8E6	2109.1E6	4035.751	3994.256
Average		toxaphene-1					1008.938	998.564

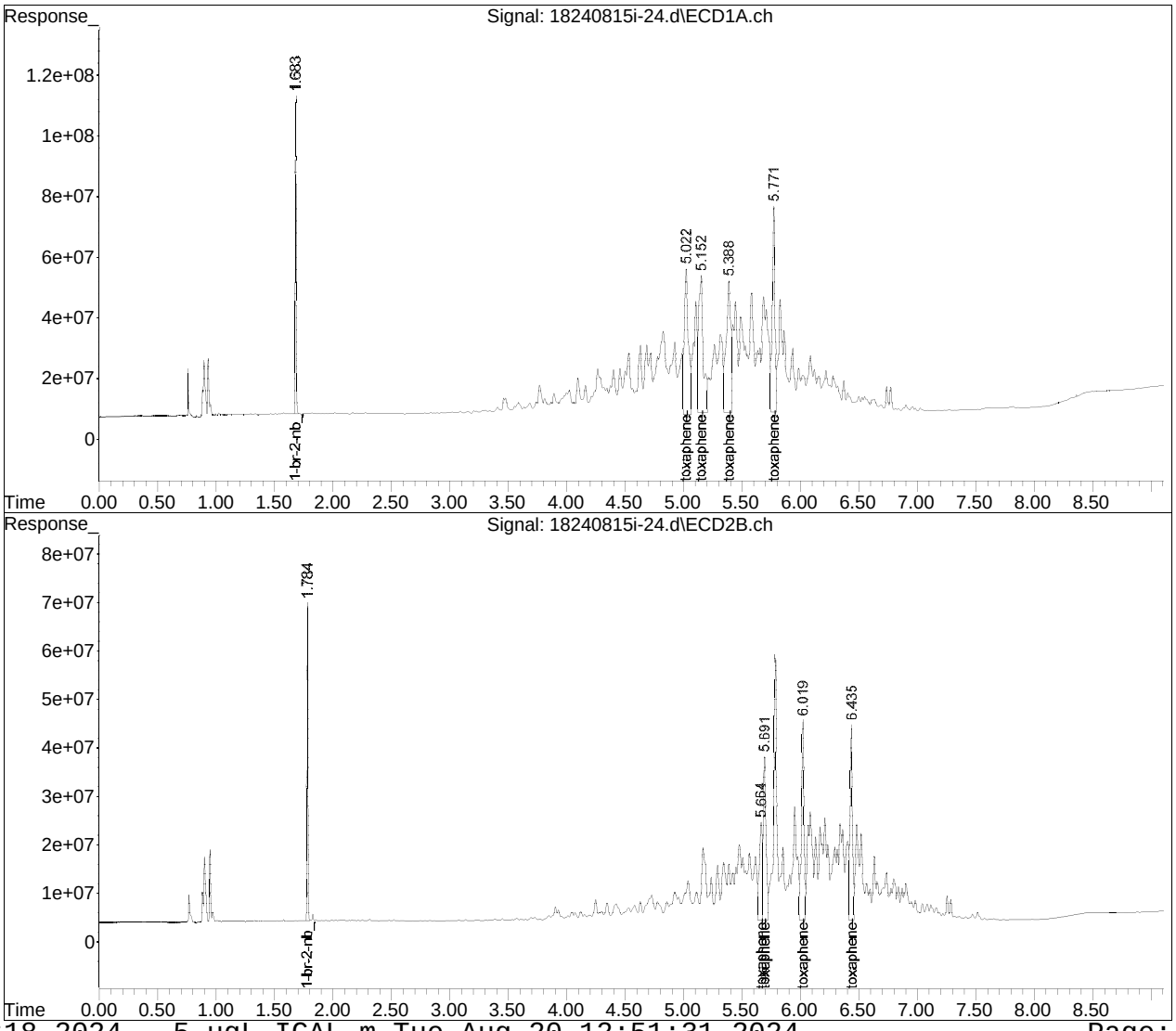
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:05
Operator : PEST18:peg
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:16:37 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:16:30 2024
Response via : Initial Calibration
Integrator: ChemStation

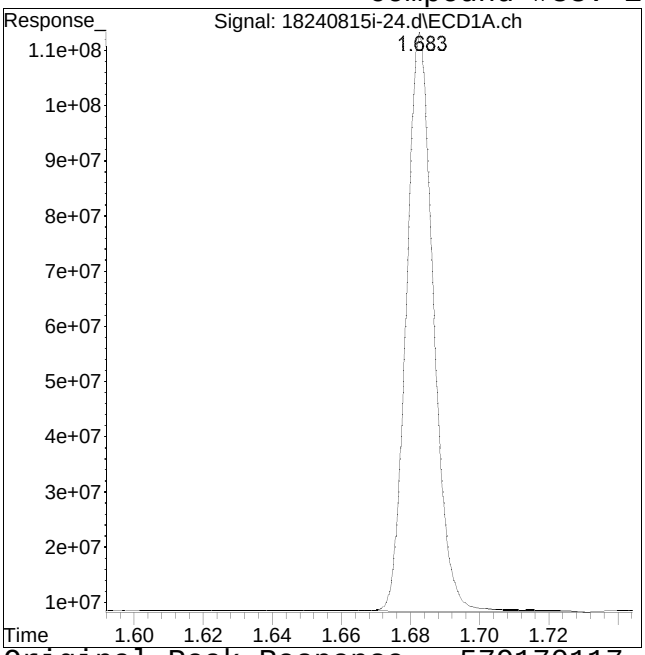
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

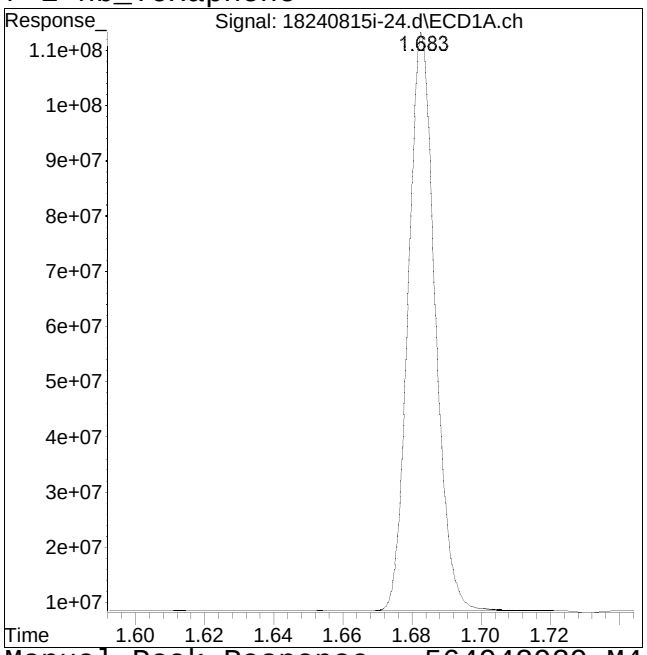


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-24.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:05 Instrument : Pest 18
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/16/2024 10:16 am

Compound #33: 1-br-2-nb_Toxaphene



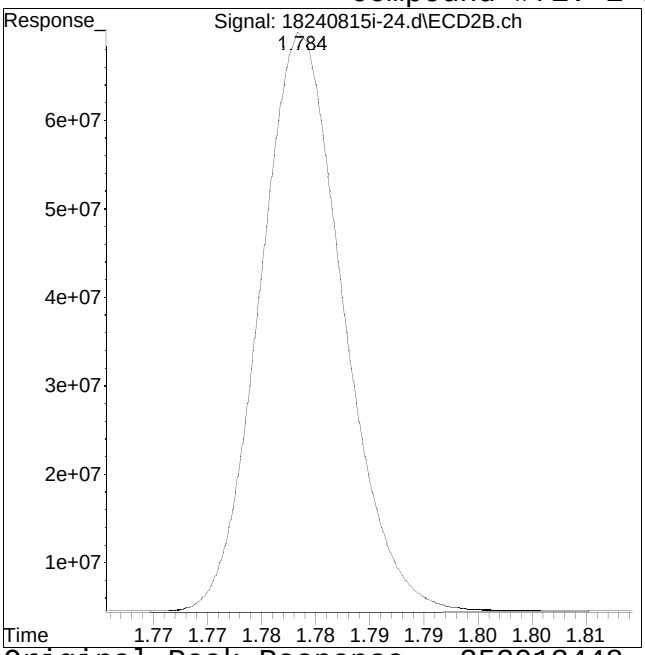


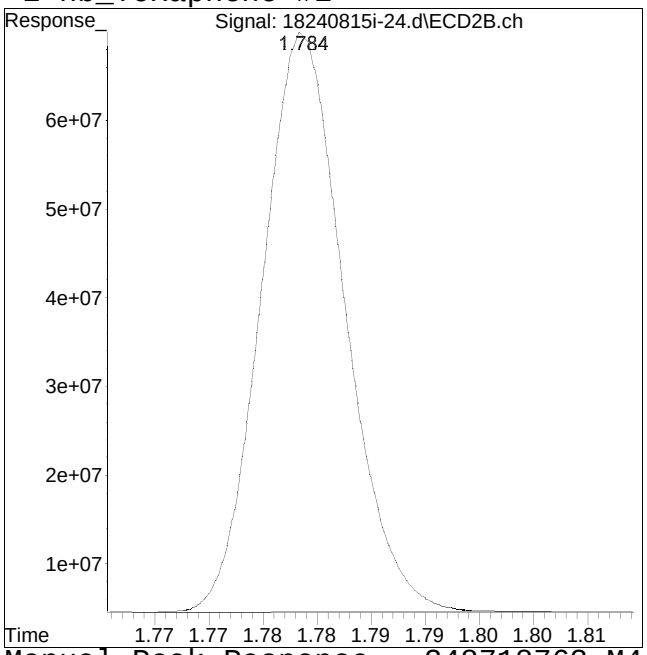
Original Peak Response = 579170117 Manual Peak Response = 564942929 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-24.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:05 Instrument : Pest 18
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/16/2024 10:16 am

Compound #71: 1-br-2-nb_Toxaphene #2



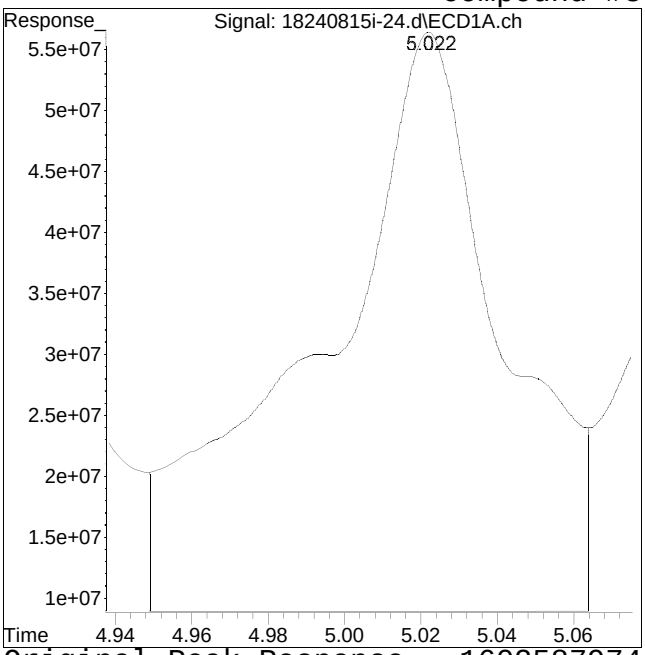


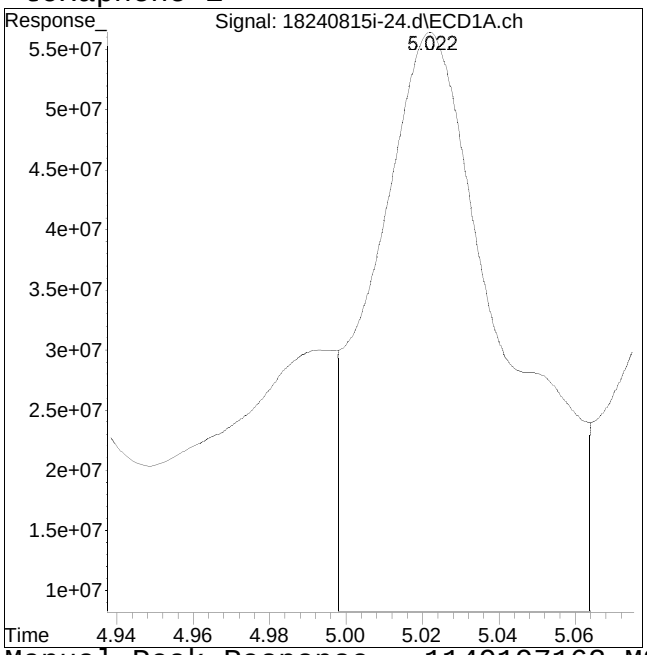
Original Peak Response = 353013448 Manual Peak Response = 348718763 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-24.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:05 Instrument : Pest 18
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/16/2024 10:16 am

Compound #34: toxaphene-1



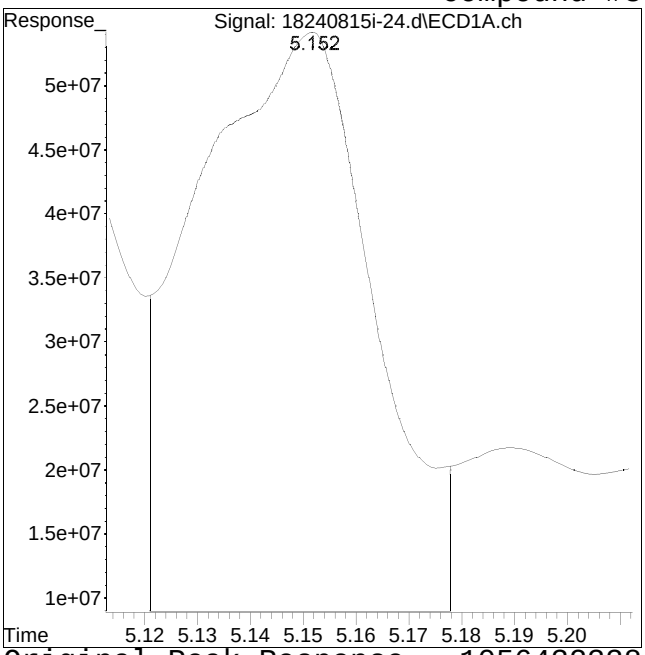


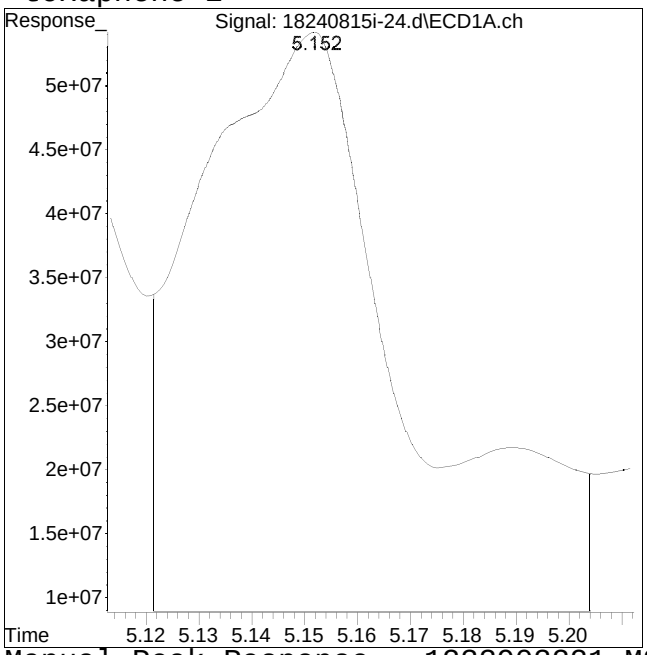
Original Peak Response = 1602587974 Manual Peak Response = 1149197162 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-24.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:05 Instrument : Pest 18
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/16/2024 10:16 am

Compound #35: toxaphene-2





Original Peak Response = 1056432338 Manual Peak Response = 1233903221 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:17
Operator : PEST18:peg
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:12:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.783	561.3E6	355.0E6	25.000M4	25.000M2
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:17
Operator : PEST18:peg
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:12:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	5.022	5.664	2260.9E6	749.9E6	2000.000M2	2000.000M2
35)	l2	toxaphene-2	5.152	5.692	2544.1E6	1060.5E6	2000.000M2	2000.000M2
36)	l2	toxaphene-3	5.388	6.019	2426.4E6	1293.2E6	2000.000M2	2000.000M2
37)	l2	toxaphene-4	5.773	6.434	2225.2E6	1147.2E6	2000.000M2	2000.000M2
	Sum	toxaphene-1			9456.5E6	4250.8E6	8000.000	8000.000
Average		toxaphene-1					2000.000	2000.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			9456.5E6	4250.8E6	8000.000	8000.000
Average		toxaphene-1					2000.000	2000.000

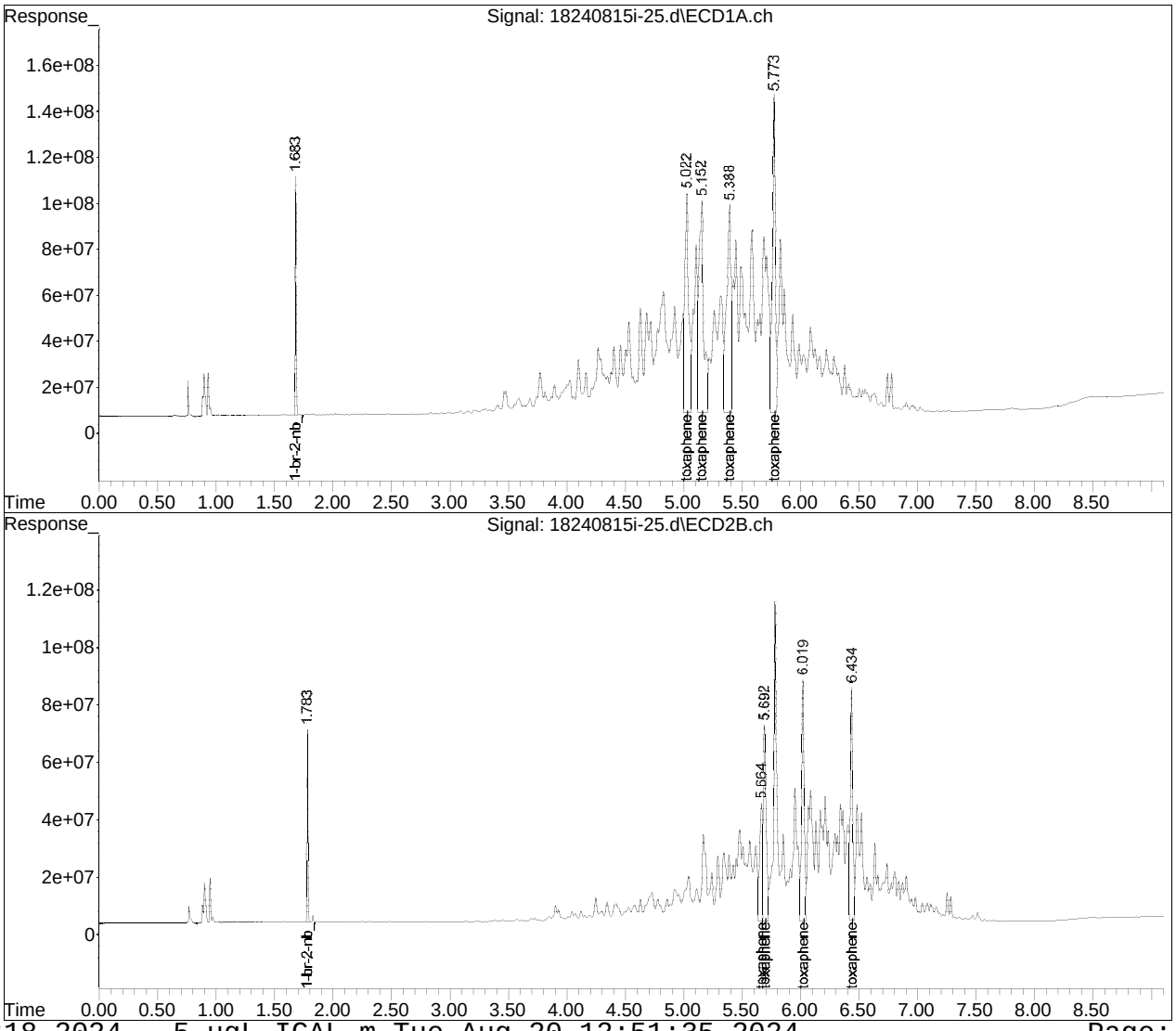
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:17
Operator : PEST18:peg
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:12:36 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation

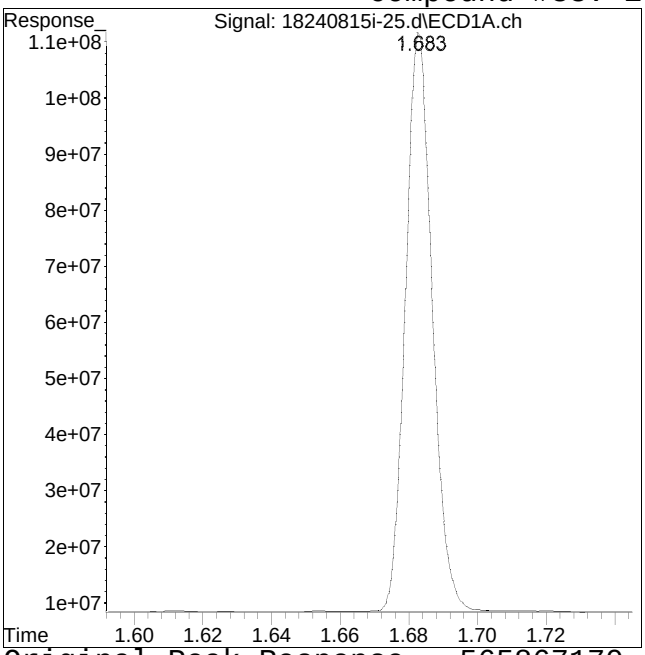
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



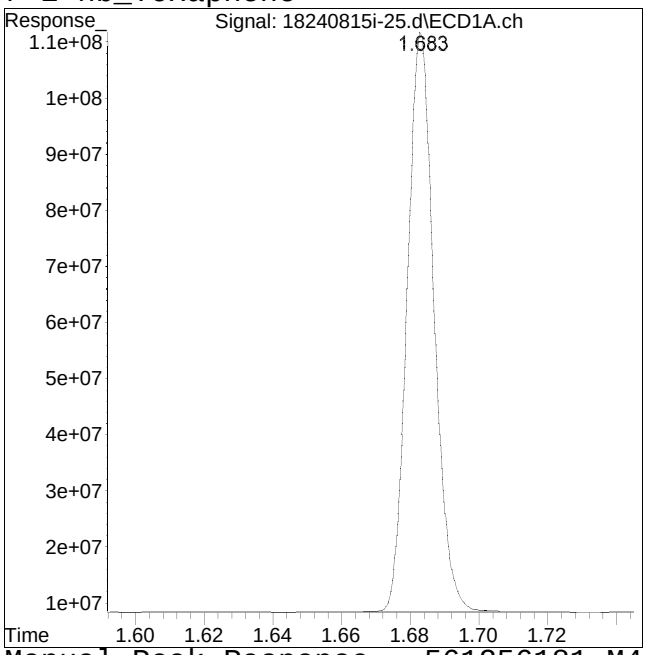
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 565867170

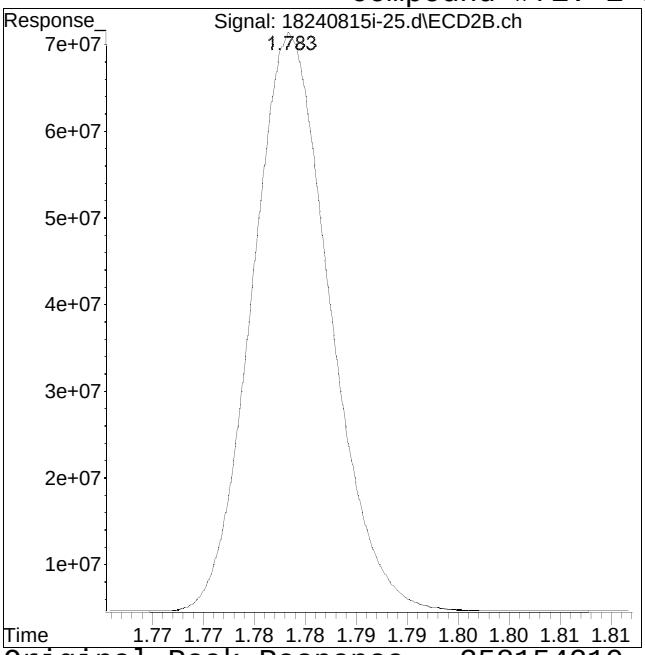


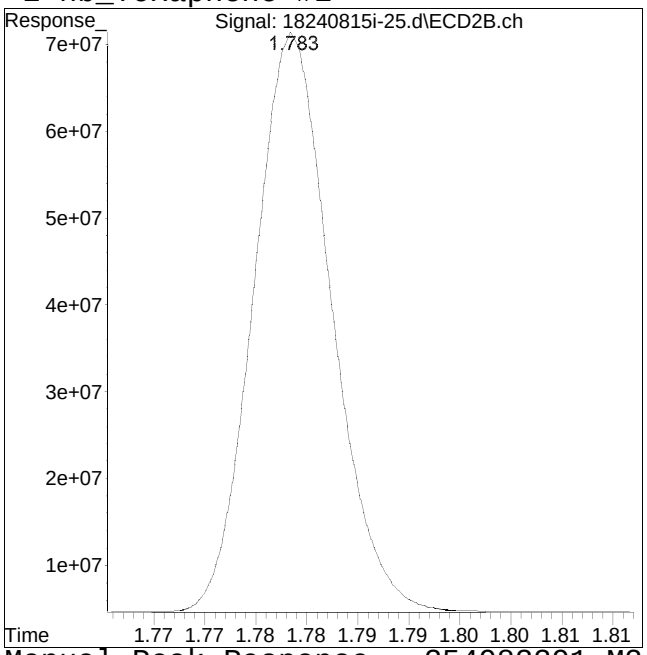
Manual Peak Response = 561256181 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #71: 1-br-2-nb_Toxaphene #2



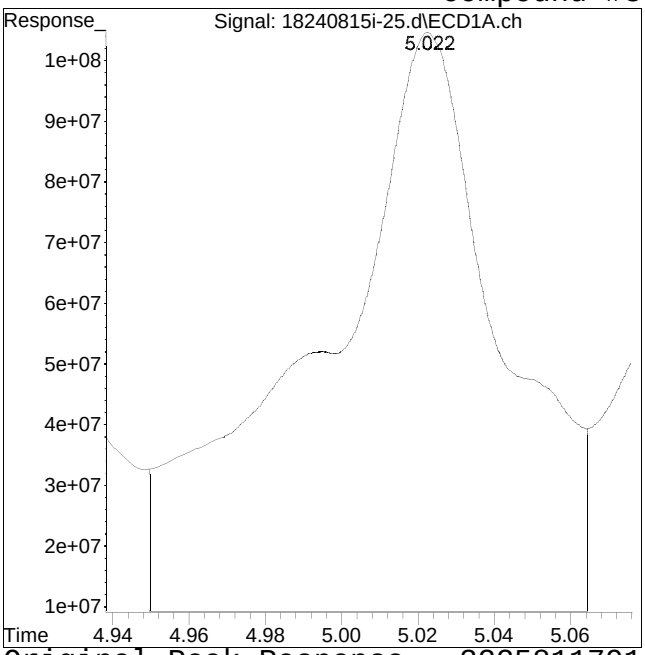


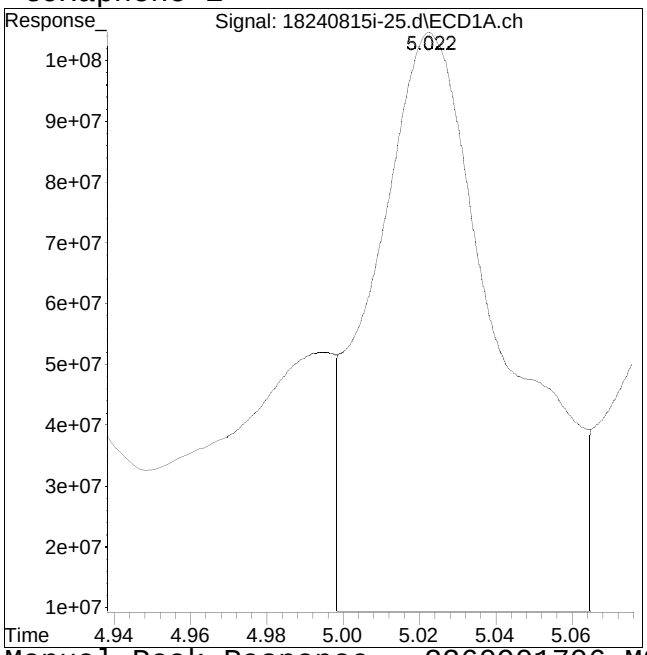
Original Peak Response = 358154210 Manual Peak Response = 354983391 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #34: toxaphene-1



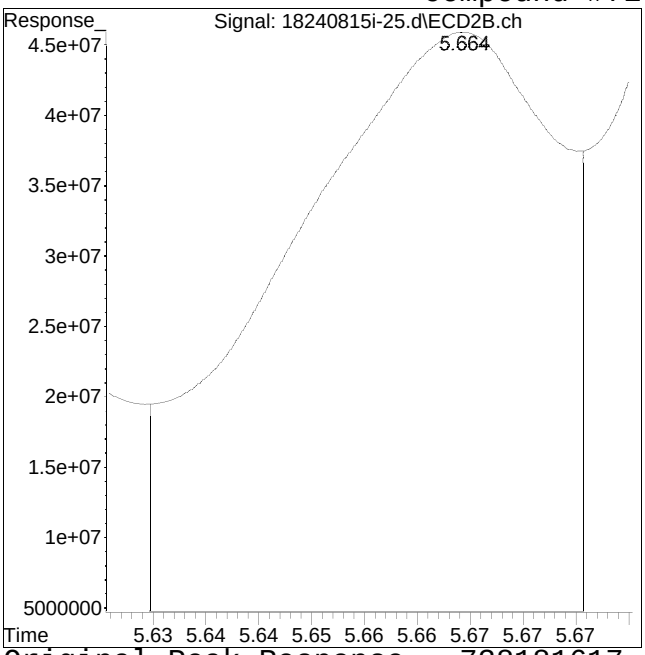


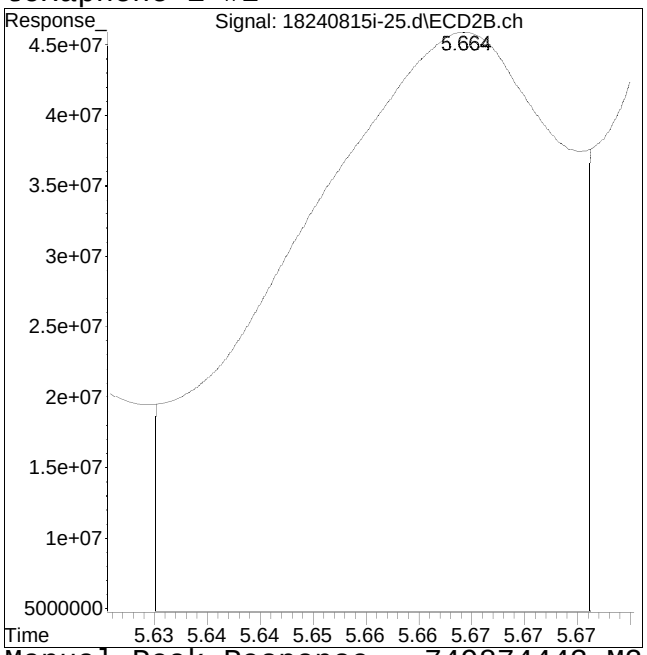
Original Peak Response = 3225811791 Manual Peak Response = 2260901706 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #72: toxaphene-1 #2



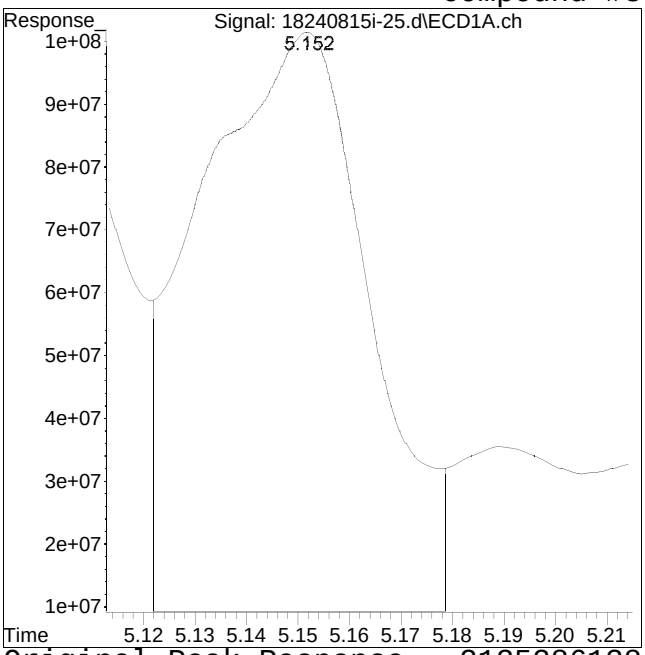


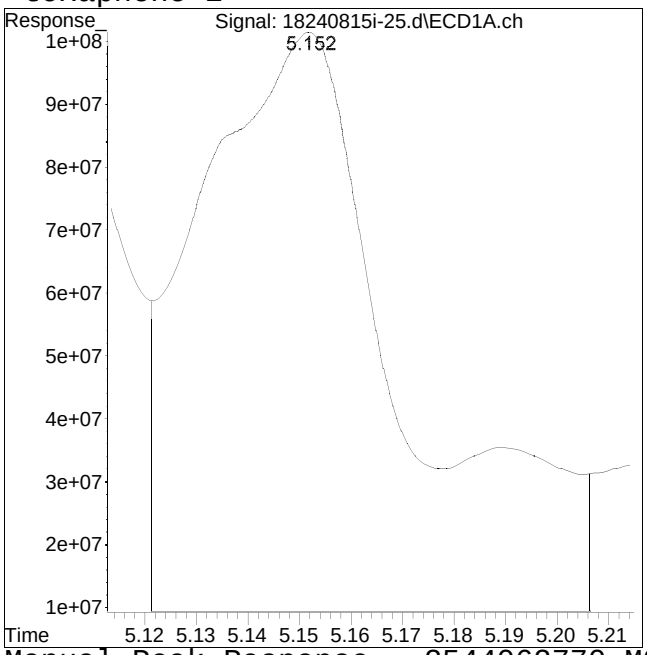
Original Peak Response = 738181617 Manual Peak Response = 749874443 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #35: toxaphene-2



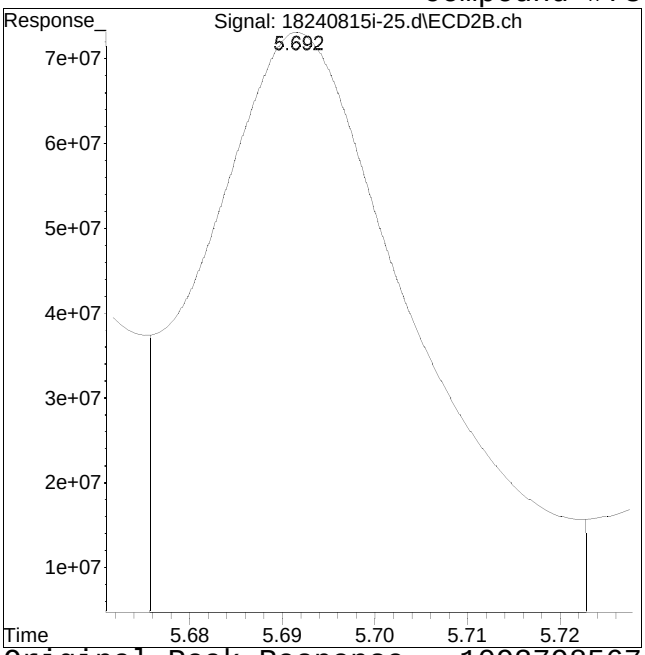


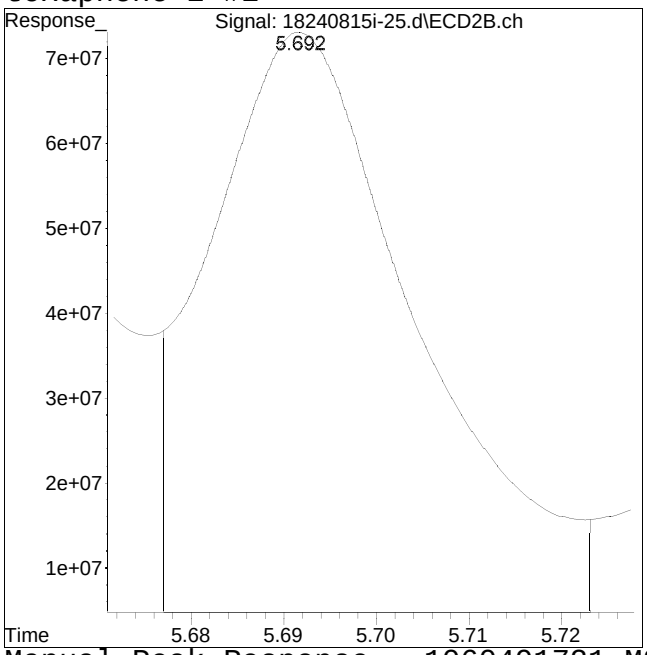
Original Peak Response = 2135286138 Manual Peak Response = 2544062770 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #73: toxaphene-2 #2



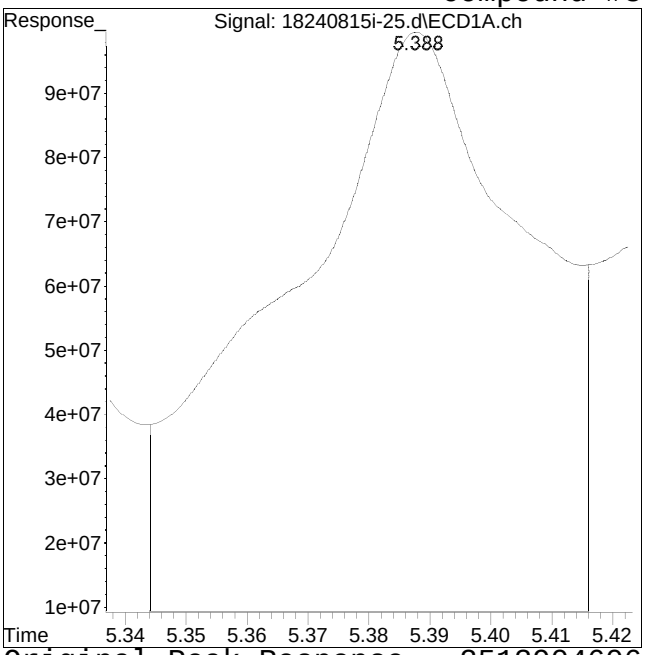


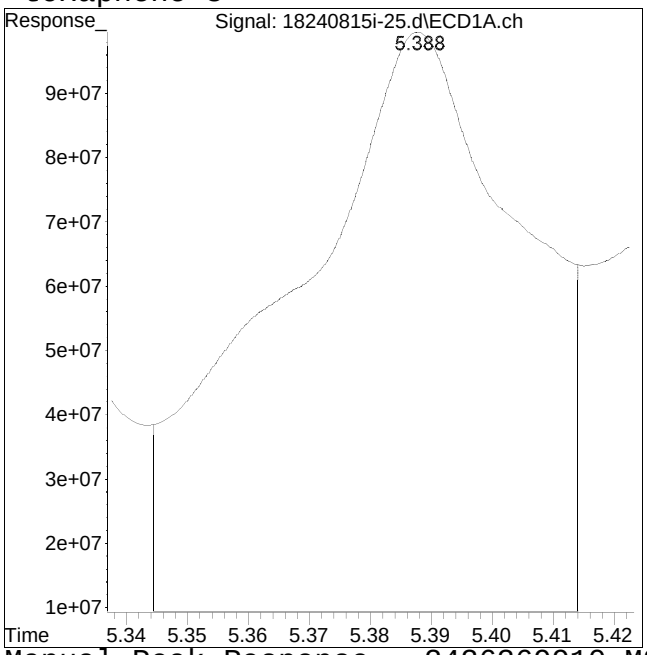
Original Peak Response = 1093798567 Manual Peak Response = 1060491721 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #36: toxaphene-3



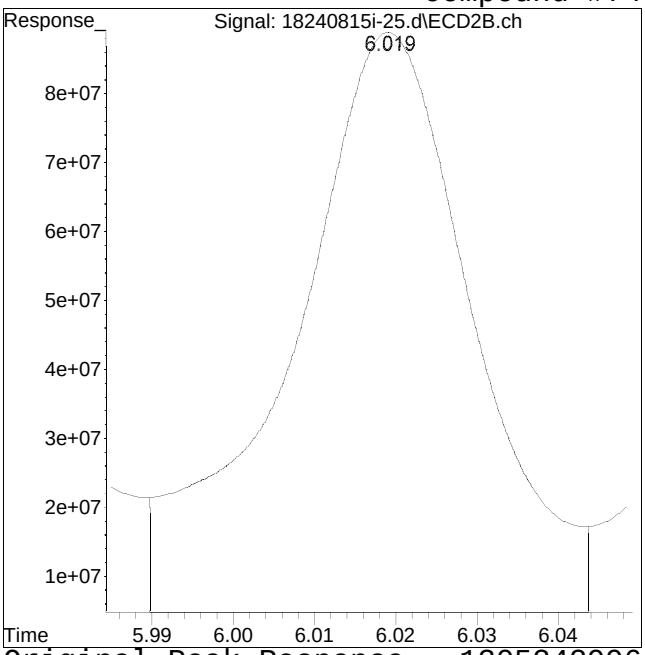


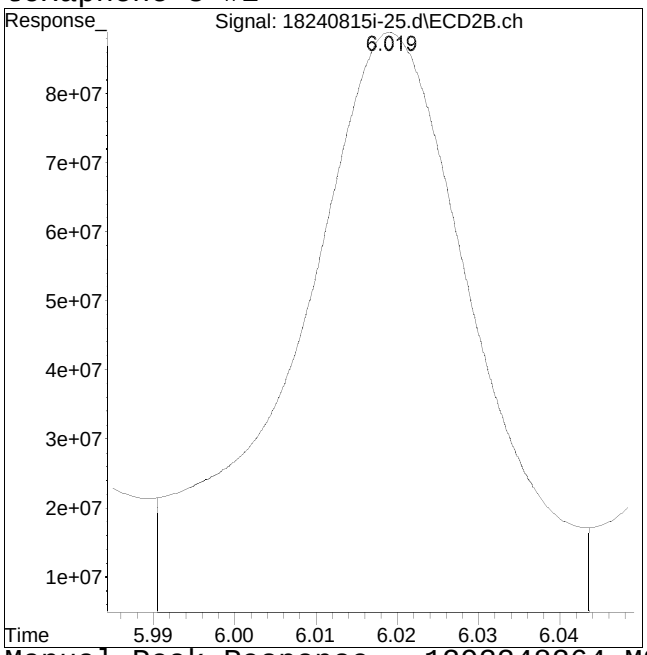
Original Peak Response = 2513904606 Manual Peak Response = 2426369910 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #74: toxaphene-3 #2



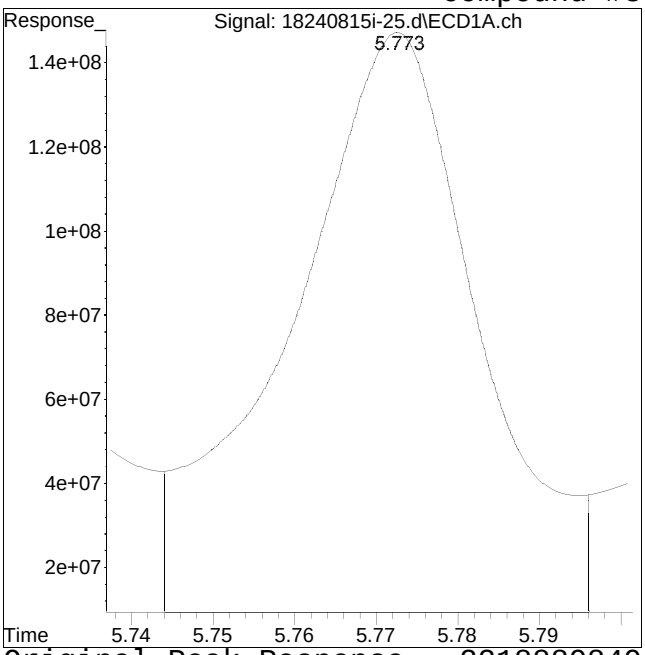


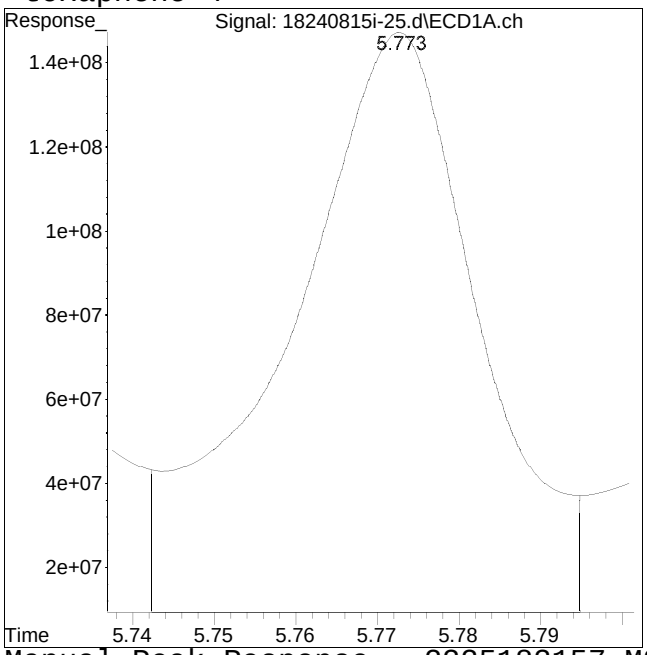
Original Peak Response = 1305242996 Manual Peak Response = 1293248264 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #37: toxaphene-4



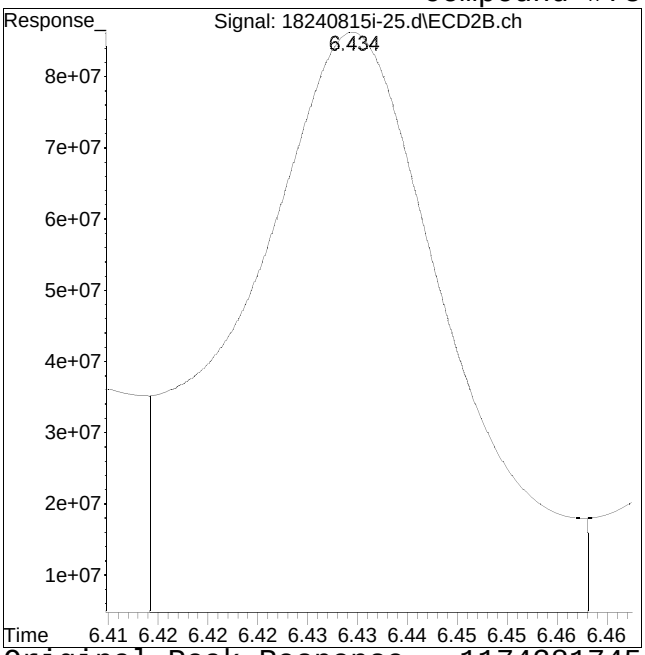


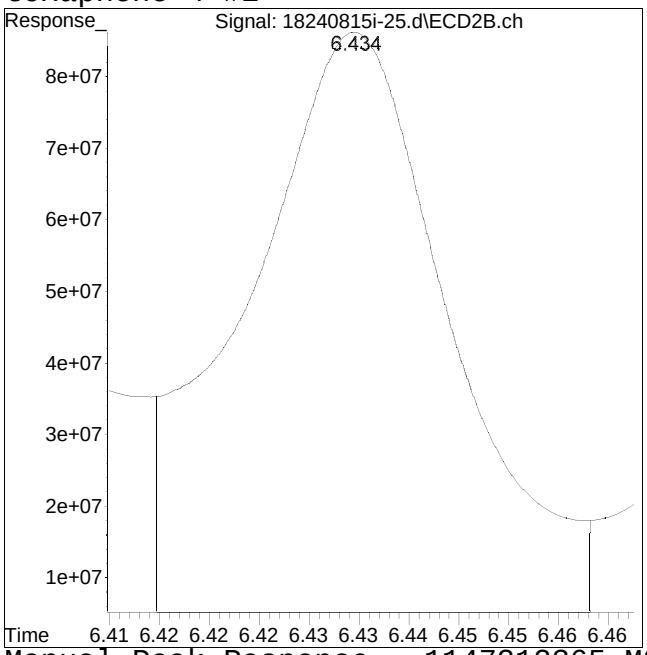
Original Peak Response = 2218889849 Manual Peak Response = 2225183157 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-25.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:17 Instrument : Pest 18
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/16/2024 10:12 am

Compound #75: toxaphene-4 #2





Original Peak Response = 1174381745 Manual Peak Response = 1147212365 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:28
Operator : PEST18:peg
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:14:44 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:14:35 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.783	593.5E6	359.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:28
Operator : PEST18:peg
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:14:44 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:14:35 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.022	5.664	5617.7E6	1858.6E6	4845.068M3	4950.161
35) l2	toxaphene-2	5.151	5.692	6356.9E6	2778.9E6	4859.124M3	5089.348
36) l2	toxaphene-3	5.388	6.020	6291.4E6	3354.4E6	4951.599	5063.801
37) l2	toxaphene-4	5.772	6.435	5588.8E6	3002.6E6	4871.946	5086.342
Sum	toxaphene-1			23854.8E6	10994.4E6	19527.737	20189.651
Average	toxaphene-1					4881.934	5047.413

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			23854.8E6	10994.4E6	19527.737	20189.651
Average	toxaphene-1					4881.934	5047.413

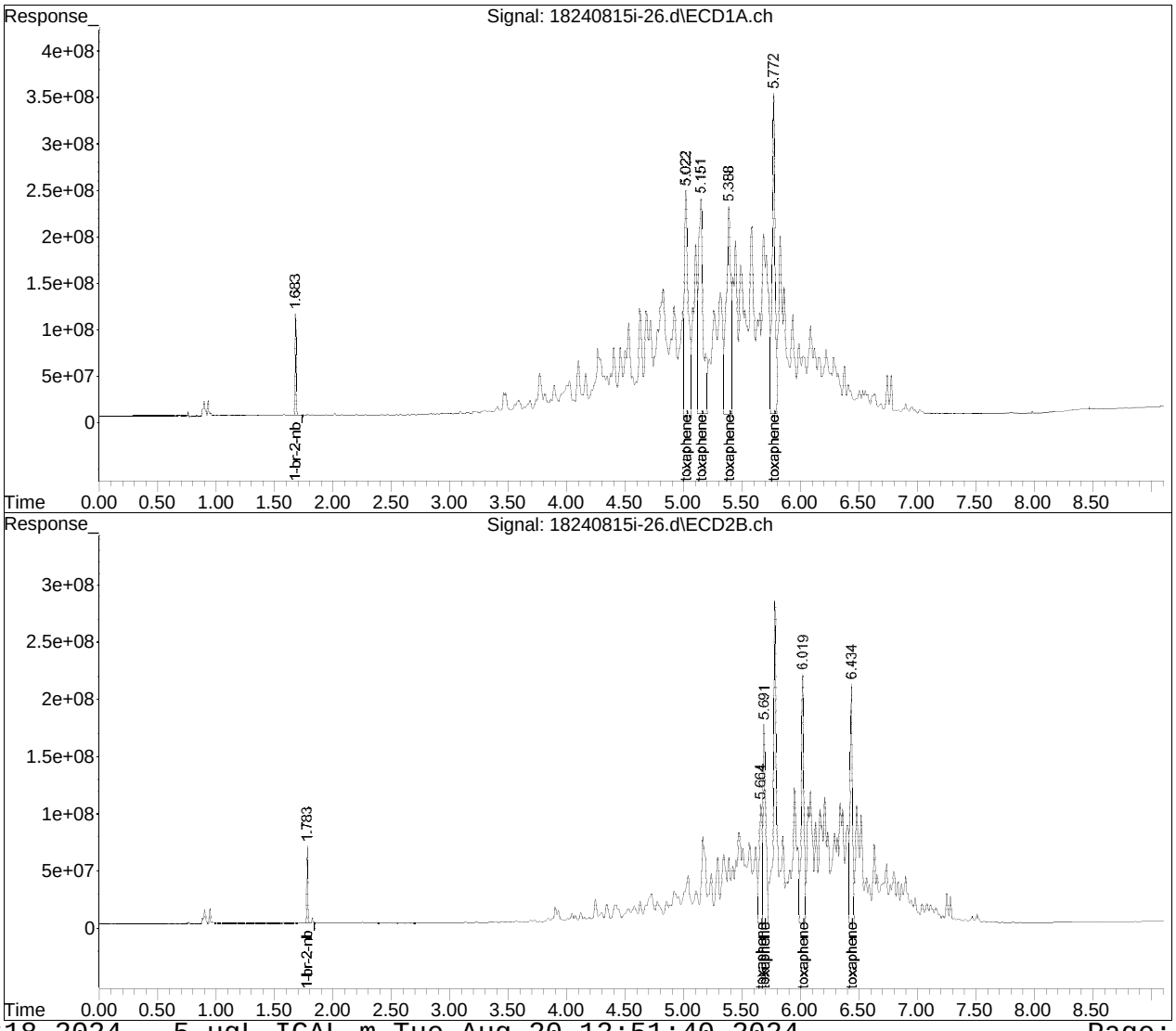
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:28
Operator : PEST18:peg
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 10:14:44 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Aug 16 10:14:35 2024
Response via : Initial Calibration
Integrator: ChemStation

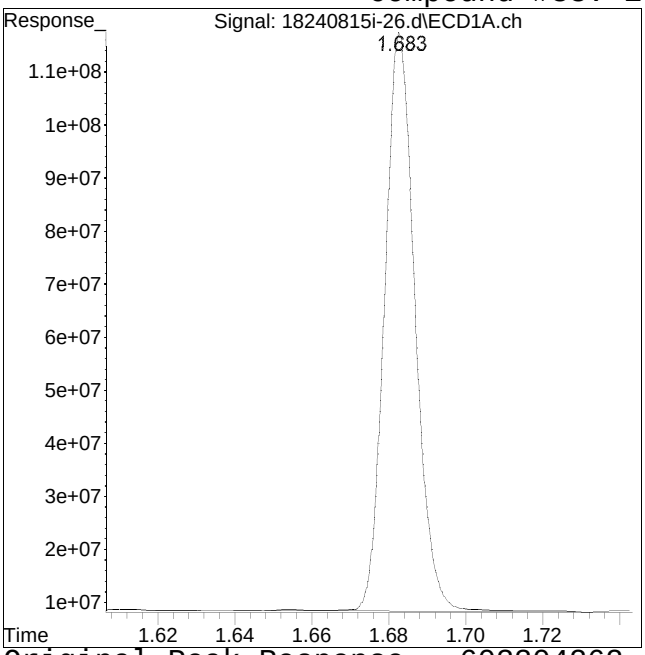
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



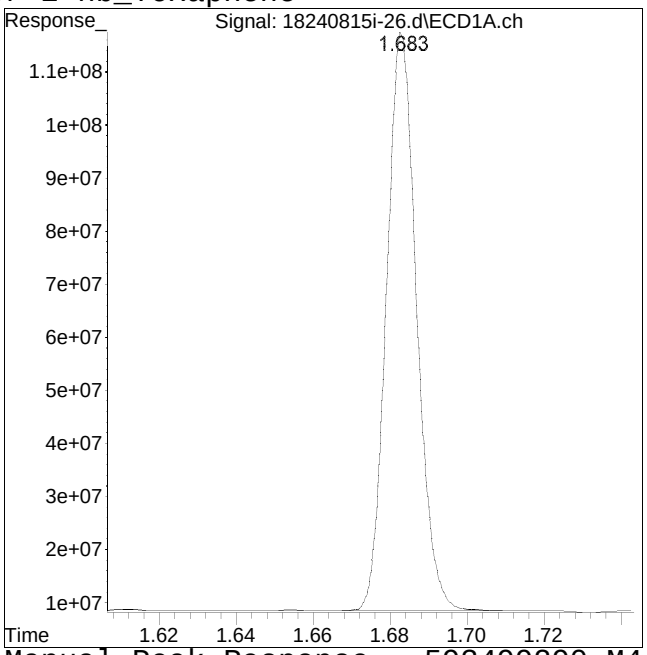
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-26.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:28 Instrument : Pest 18
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/16/2024 10:14 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 603304262



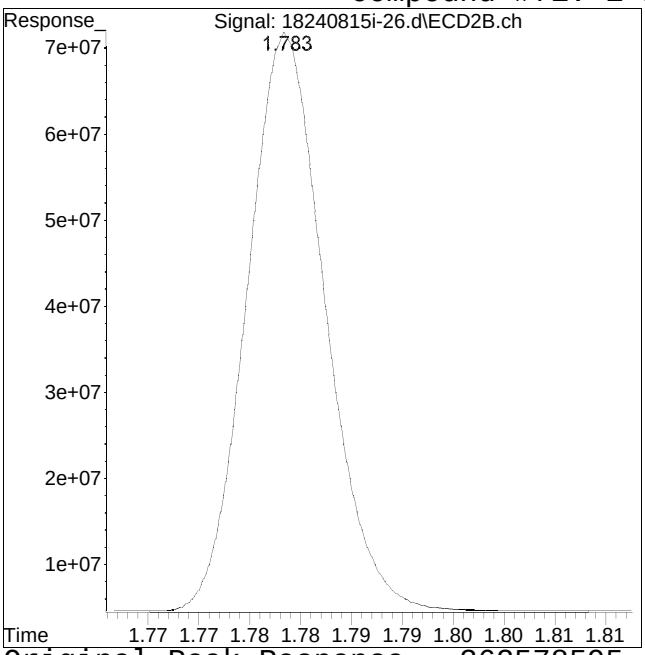
Manual Peak Response = 593499290 M4

M4 = Poor automated baseline construction.

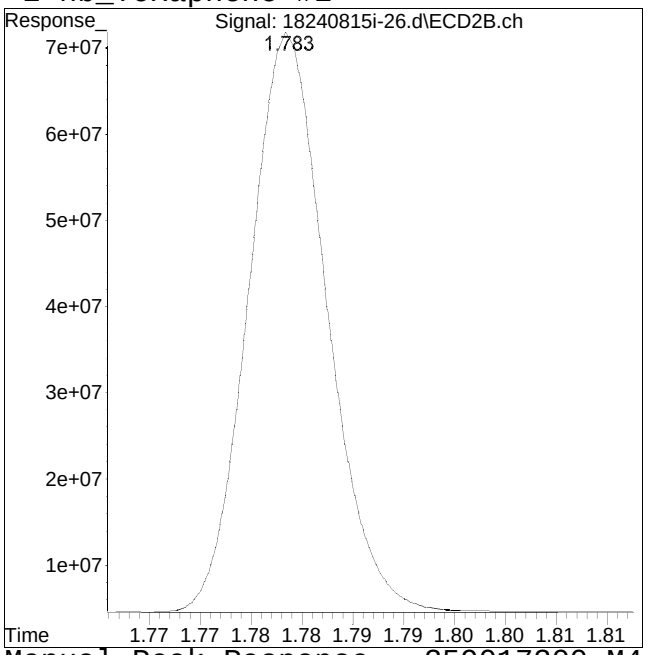
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-26.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:28 Instrument : Pest 18
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/16/2024 10:14 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 362578595



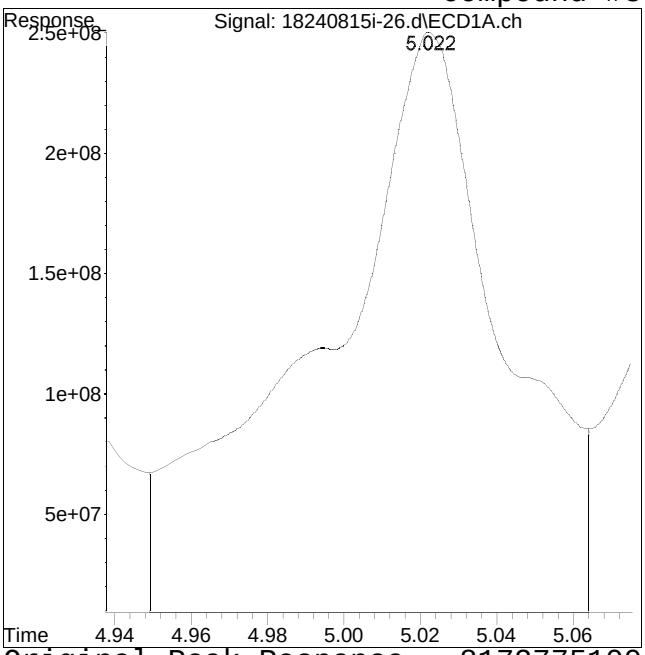
Manual Peak Response = 359017300 M4

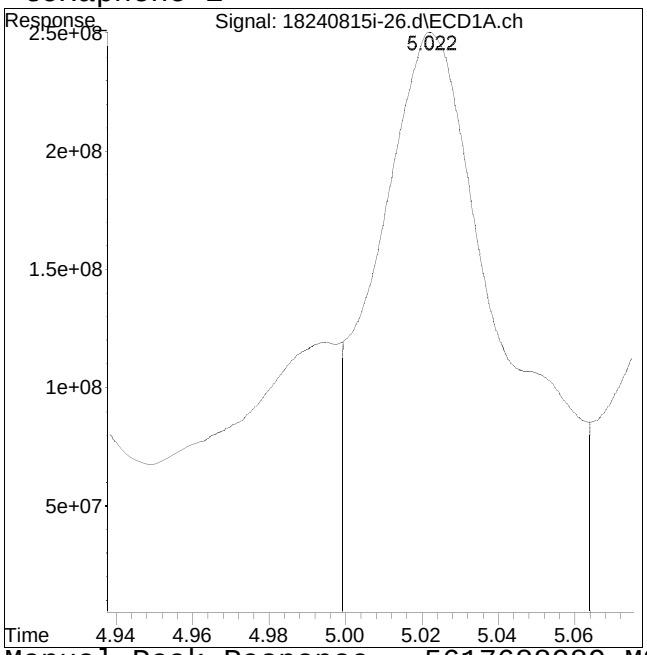
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-26.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:28 Instrument : Pest 18
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/16/2024 10:14 am

Compound #34: toxaphene-1



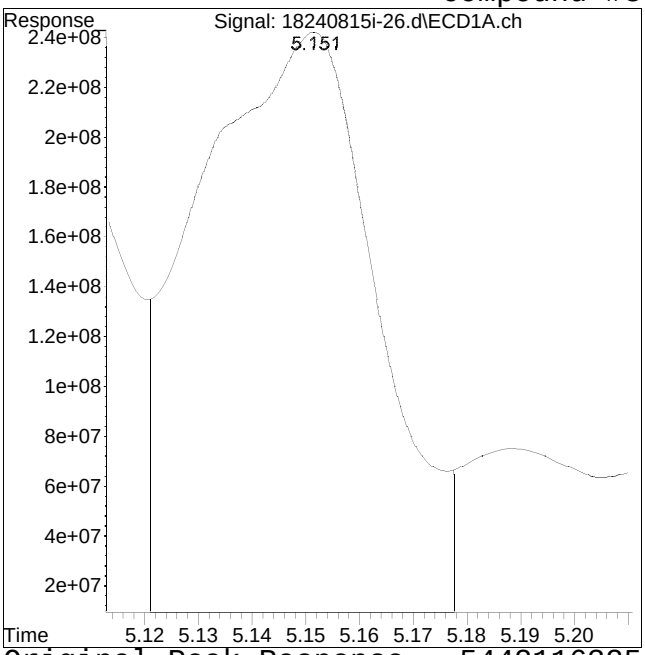


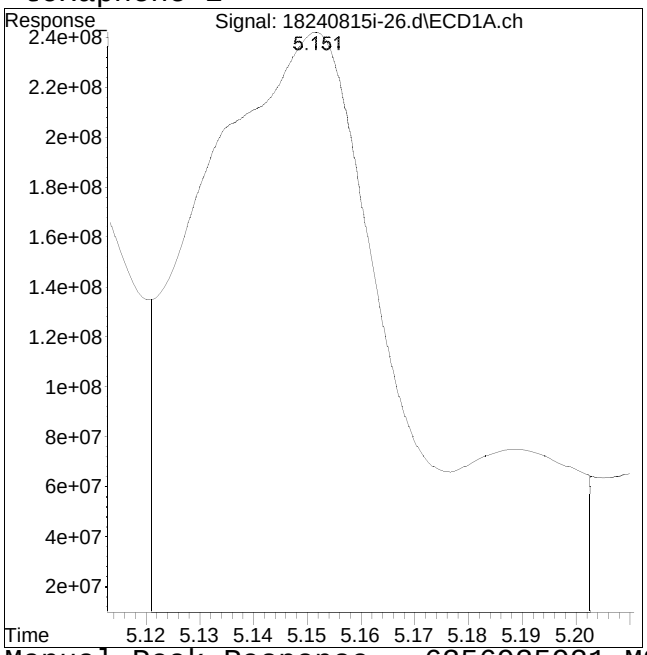
Original Peak Response = 8172775100 Manual Peak Response = 5617688989 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-26.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:28 Instrument : Pest 18
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/16/2024 10:14 am

Compound #35: toxaphene-2





Original Peak Response = 5442116325 Manual Peak Response = 6356935921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	107	0.00
34	l2	toxaphene-1		0.050	0.045	10.0	97	0.00
35	l2	toxaphene-2		0.054	0.050	7.4	96	0.00
36	l2	toxaphene-3		0.055	0.049	10.9	97	0.00
37	l2	toxaphene-4		0.055	0.044	20.0	96	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	103	0.00
34	l2	toxaphene-1		0.025	0.025	0.0	95	0.00
35	l2	toxaphene-2		0.038	0.037	2.6	101	0.00
36	l2	toxaphene-3		0.045	0.042	6.7	94	0.00
37	l2	toxaphene-4		0.040	0.041	-2.5	103	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.68#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	0.000	100.0#	0#	-2.12#
3		Hexachlorobenzene		1.431	0.000	100.0#	0#	-2.36#
4		alpha-BHC		1.531	0.000	100.0#	0#	-2.47#
5		gamma-BHC (lindane)		1.404	0.000	100.0#	0#	-2.69#
6		beta-BHC		0.638	0.000	100.0#	0#	-2.75#
7		delta-BHC		1.404	0.000	100.0#	0#	-2.88#
8		Heptachlor		1.315	0.000	100.0#	0#	-3.05#
9		Aldrin		1.284	0.000	100.0#	0#	-3.30#
10		Alachlor		0.194	0.000	100.0#	0#	-3.44#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.54#
12		Heptachlor Epoxide		1.161	0.000	100.0#	0#	-3.86#
13		gamma-Chlordane (trans)		1.140	0.000	100.0#	0#	-3.99#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.273	0.000	100.0#	0#	-4.13#
15		4,4'-DDE		1.268	0.000	100.0#	0#	-4.23#
16		Endosulfan I		1.138	0.000	100.0#	0#	-4.26#
17		Dieldrin		1.209	0.000	100.0#	0#	-4.52#
18		Endrin		1.209	0.000	100.0#	0#	-4.78#
19		4,4'-DDD		0.982	0.000	100.0#	0#	-4.90#
20		Endosulfan II		1.096	0.000	100.0#	0#	-5.03#
21		4,4'-DDT		1.107	0.000	100.0#	0#	-5.21#
22		Endrin Aldehyde		0.923	0.000	100.0#	0#	-5.46#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.72#
24		Mirex	*	50.000	0.000	100.0#	0	-5.76#
25		Endosulfan Sulfate		1.087	0.000	100.0#	0#	-5.87#
26		Endrin Ketone		1.216	0.000	100.0#	0#	-6.10#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.92#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.68#
29	l1	chlordane-1		0.078	0.000	100.0#	0#	-3.05#
30	l1	chlordane-3		0.050	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4		0.176	0.000	100.0#	0#	-3.99#
32	l1	chlordane-5		0.270	0.000	100.0#	0#	-4.12#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.78#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	0.000	100.0#	0#	-2.34#
3		Hexachlorobenzene		1.260	0.000	100.0#	0#	-2.68#
4		alpha-BHC		1.569	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.462	0.000	100.0#	0#	-3.08#
6		beta-BHC		0.679	0.000	100.0#	0#	-3.15#
7		delta-BHC		1.445	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.318	0.000	100.0#	0#	-3.48#
9		Aldrin		1.307	0.000	100.0#	0#	-3.80#
10		Alachlor		0.196	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.05#
12		Heptachlor Epoxide		1.247	0.000	100.0#	0#	-4.42#
13		gamma-Chlordane (trans)		1.137	0.000	100.0#	0#	-4.65#
14		alpha-Chlordane (cis)		1.268	0.000	100.0#	0#	-4.82#
15		4,4'-DDE		1.245	0.000	100.0#	0#	-5.03#
16		Endosulfan I		1.167	0.000	100.0#	0#	-4.88#
17		Dieldrin		1.196	0.000	100.0#	0#	-5.19#
18		Endrin		1.197	0.000	100.0#	0#	-5.50#
19		4,4'-DDD		0.976	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.072	0.000	100.0#	0#	-5.71#
21		4,4'-DDT		1.070	0.000	100.0#	0#	-5.92#
22		Endrin Aldehyde		0.903	0.000	100.0#	0#	-6.01#
23		Methoxychlor		0.581	0.000	100.0#	0#	-6.50#
24		Mirex		0.903	0.000	100.0#	0#	-6.63#
25		Endosulfan Sulfate		1.032	0.000	100.0#	0#	-6.25#
26		Endrin Ketone		1.116	0.000	100.0#	0#	-6.67#
27	s	Decachlorobiphenyl		0.953	0.000	100.0#	0#	-7.55#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.78#
29	l1	chlordane-1		0.041	0.000	100.0#	0#	-3.35#
30	l1	chlordane-3		0.046	0.000	100.0#	0#	-3.96#
31	l1	chlordane-4		0.164	0.000	100.0#	0#	-4.64#
32	l1	chlordane-5		0.131	0.000	100.0#	0#	-4.82#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.683	1.784	603.3E6	363.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.022	5.663	2183.4E6	716.1E6	1808.535M3	1964.824
35) l2	toxaphene-2	5.151	5.691	2435.8E6	1069.0E6	1854.447M3	1935.062
36) l2	toxaphene-3	5.388	6.019	2359.4E6	1213.3E6	1778.892	1851.923
37) l2	toxaphene-4	5.772	6.434	2140.5E6	1179.2E6	1617.523	2022.364
Sum	toxaphene-1			9119.1E6	4177.6E6	7059.397	7774.173
Average	toxaphene-1					1764.849	1943.543

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			9119.1E6	4177.6E6	7059.397	7774.173
Average	toxaphene-1					1764.849	1943.543

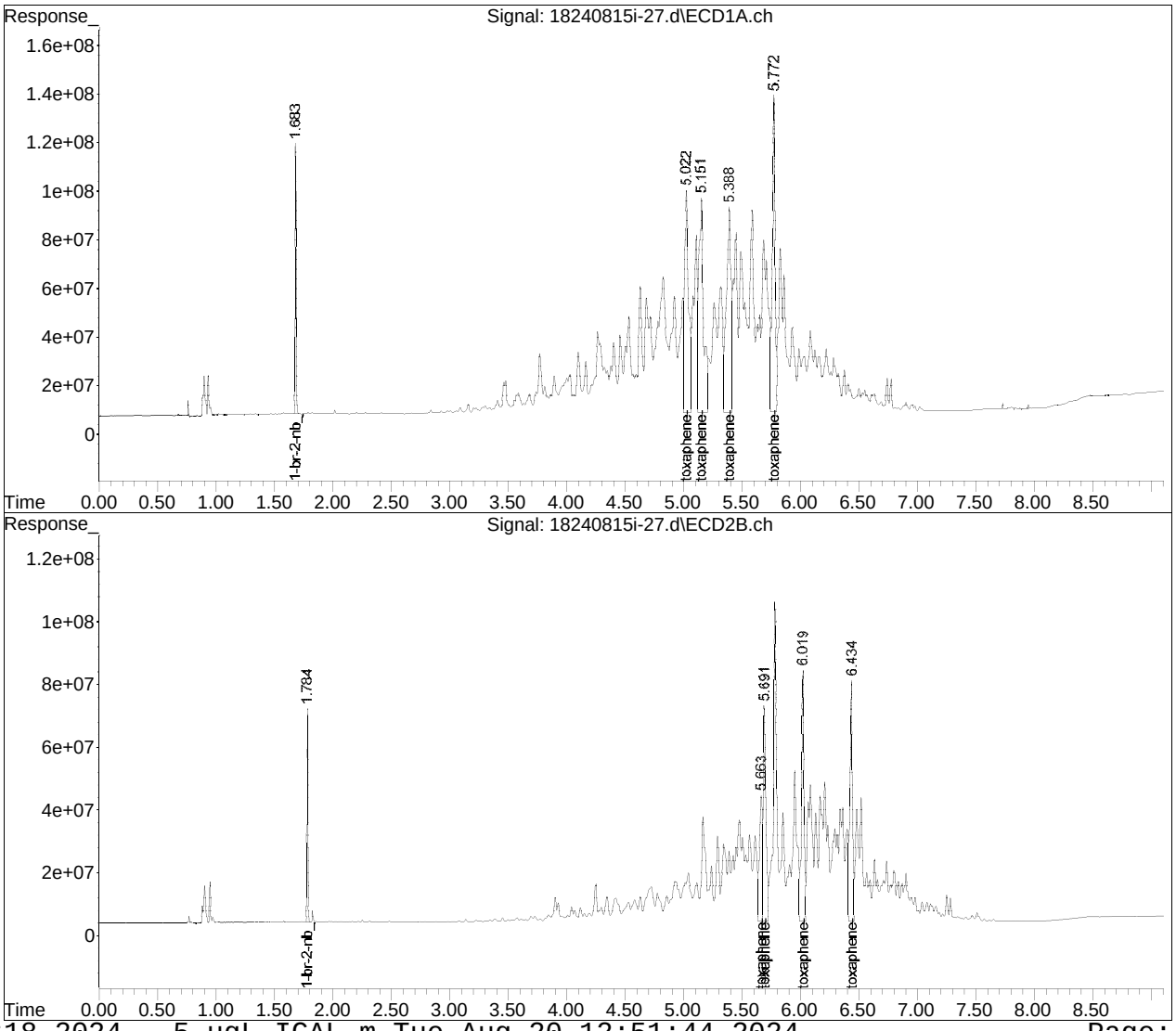
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240815ICAL\
Data File : 18240815i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2024 18:39
Operator : PEST18:peg
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1961557,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 20 12:39:39 2024
Quant Method : I:\PEST\Pest18\2024\240815ICAL\pest18_2024_08_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Aug 20 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation

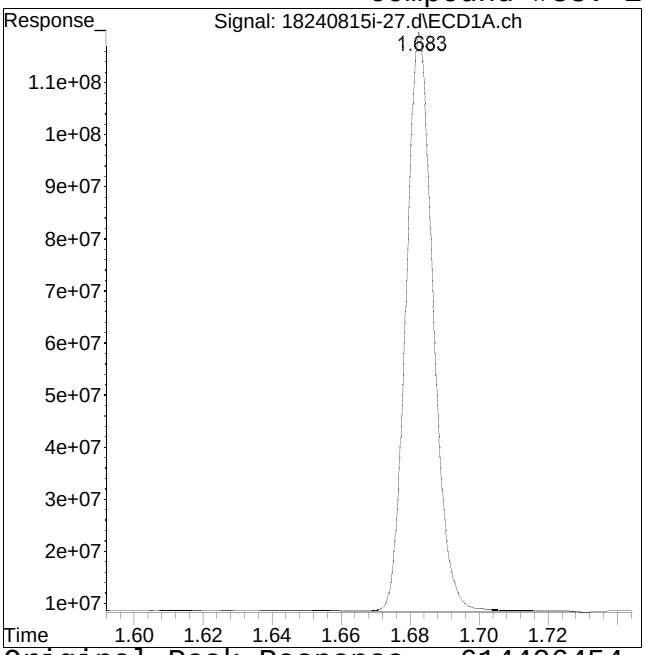
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



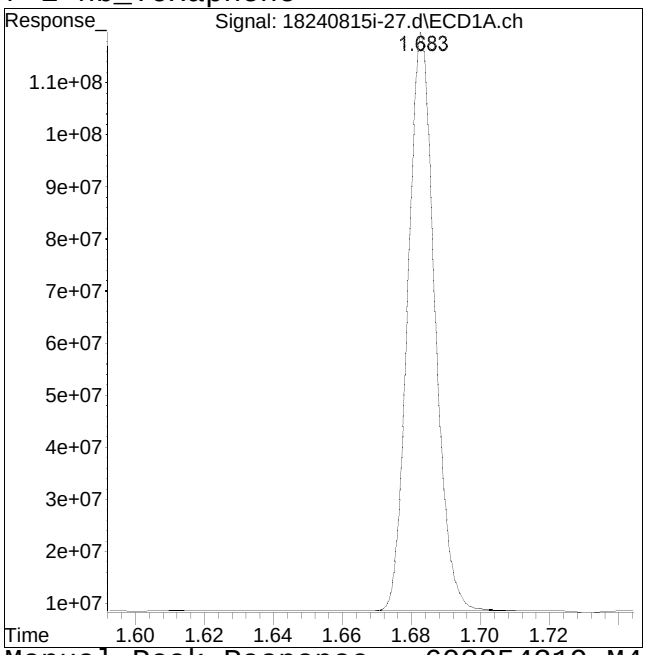
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-27.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:39 Instrument : Pest 18
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/20/2024 12:39 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 614406454



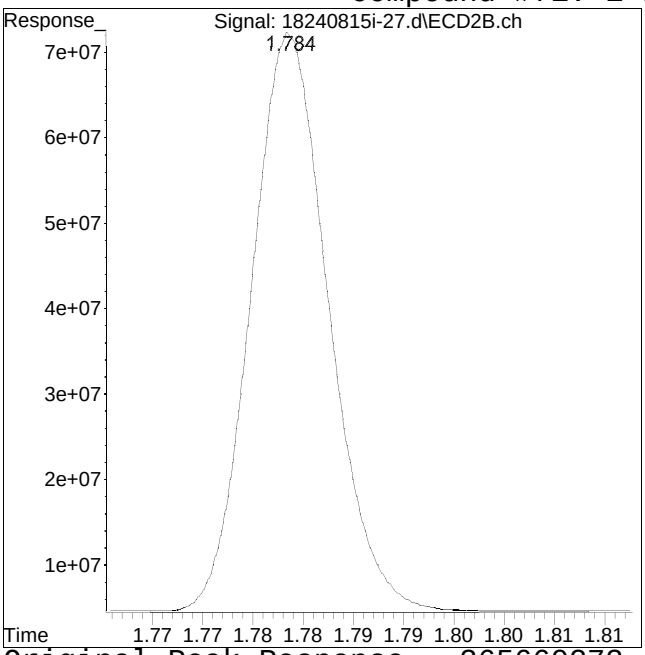
Manual Peak Response = 603254319 M4

M4 = Poor automated baseline construction.

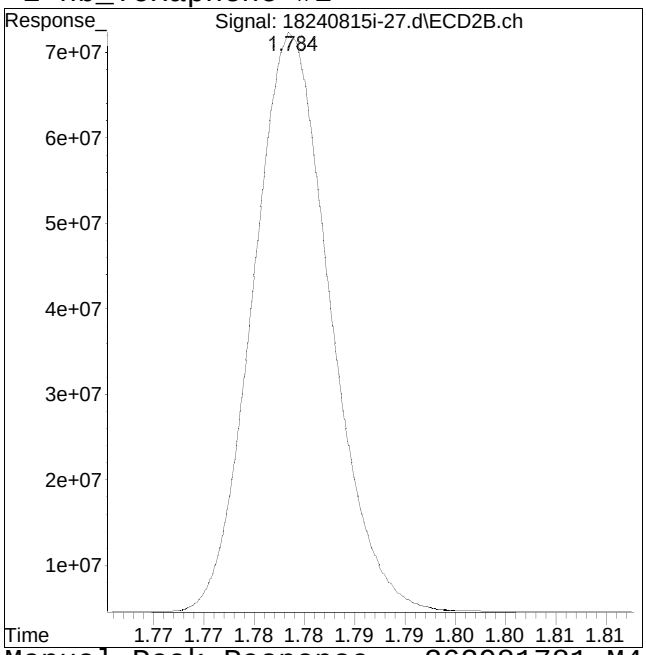
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-27.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:39 Instrument : Pest 18
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/20/2024 12:39 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 365660273

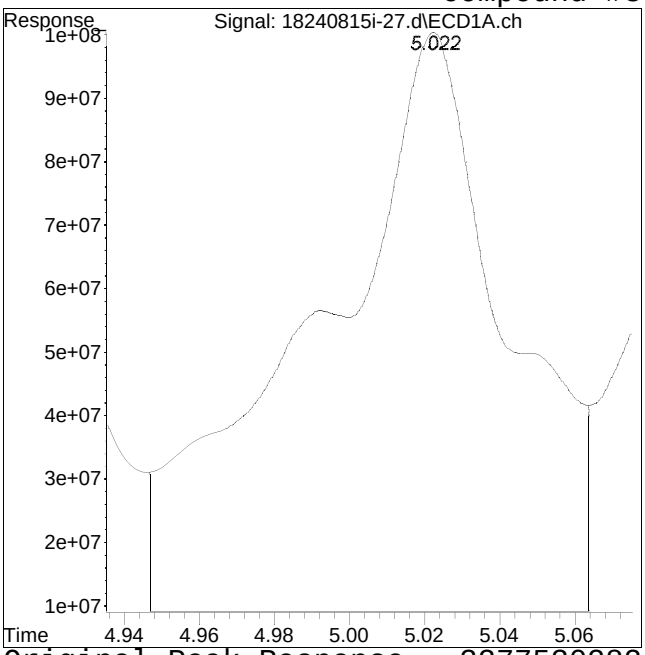


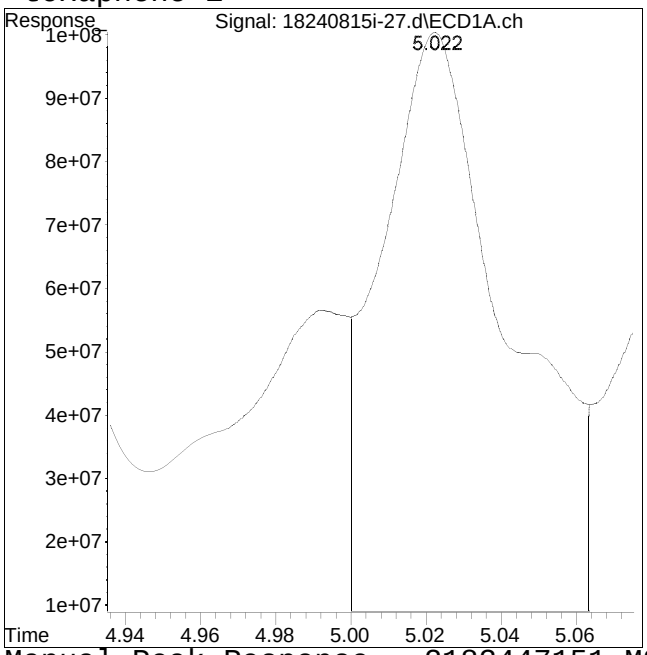
Manual Peak Response = 362981781 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-27.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:39 Instrument : Pest 18
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/20/2024 12:39 pm

Compound #34: toxaphene-1



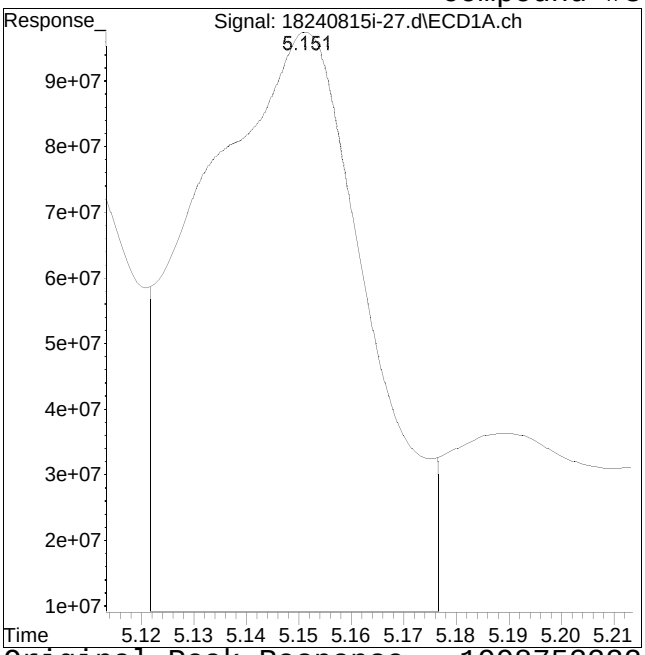


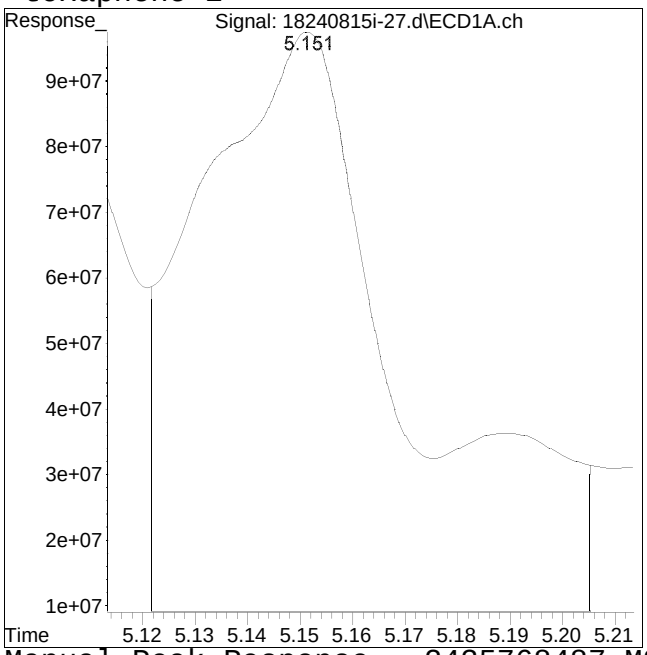
Original Peak Response = 3277530282 Manual Peak Response = 2183447151 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240815QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240815i-27.d Operator : PEST18:peg
Date Inj'd : 8/15/2024 18:39 Instrument : Pest 18
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/20/2024 12:39 pm

Compound #35: toxaphene-2





Original Peak Response = 1998753222 Manual Peak Response = 2435768487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 18

Method Path : I:\PEST\Pest18\2024\240815ICAL\
Method File : pest18_2024_08_15_ugL_ICAL.m
Title : pest
Last Update : Tue Aug 20 12:35:03 2024

		COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
11		Chlorpyrifos	L	ug/l	50.0	57.546	15.1	4.00	2.973	-25.7
23		Methoxychlor	L	ug/l	50.0	56.068	12.1	3.00	2.720	-9.3
24		Mirex	L	ug/l	50.0	51.696	3.4	1.00	0.726	-27.4
27	S	Decachlorobiphenyl	L	ug/l	50.0	50.474	0.9	1.00	0.913	-8.7
49		Chlorpyrifos #2	L	ug/l	50.0	56.193	12.4	4.00	3.213	-19.7

Calibration Correlation Report

		COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
11		Chlorpyrifos	Linear	0.995960	0.000000	0.466689	0.050127
23		Methoxychlor	Linear	0.994548	0.000000	0.511275	0.03438
24		Mirex	Linear	0.997659	0.000000	0.837792	0.0257661
27	S	Decachlorobiphenyl	Linear	0.997279	0.000000	1.16514	0.0357333
49		Chlorpyrifos #2	Linear	0.997569	0.000000	0.509984	0.0473683

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:17		
Lab File ID	: 11240923a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1974956-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	110	0
2,4,5,6-Tetrachloro-m-xylen	1.039	1.054	-	-1.4	20	109	0
Hexachlorobenzene	1.406	1.188	-	15.5	20	95	0
alpha-BHC	1.461	1.848	-	-26.5*	20	126	0
gamma-BHC (lindane)	1.395	1.645	-	-17.9	20	121	0
beta-BHC	0.628	0.686	-	-9.2	20	121	0
delta-BHC	1.374	1.584	-	-15.3	20	116	0
Heptachlor	1.321	1.585	-	-20	20	125	0
Aldrin	1.233	1.483	-	-20.3*	20	124	0
Alachlor	0.23	0.206	-	10.4	20	98	0
Chlorpyrifos	0.59	0.585	-	0.8	20	117	0
Heptachlor Epoxide	1.185	1.313	-	-10.8	20	117	0
gamma-Chlordane (trans)	1.077	1.369	-	-27.1*	20	136	0
alpha-Chlordane (cis)	1.216	1.366	-	-12.3	20	120	0
4,4'-DDE	1.192	1.213	-	-1.8	20	106	0
Endosulfan I	1.116	1.29	-	-15.6	20	122	0
Dieldrin	1.135	1.425	-	-25.6*	20	130	0
Endrin	1.153	1.341	-	-16.3	20	121	0
4,4'-DDD	0.927	1.009	-	-8.8	20	113	0
Endosulfan II	1.052	1.185	-	-12.6	20	119	0
4,4'-DDT	1.058	1	-	5.5	20	99	0
Endrin Aldehyde	0.886	0.878	-	0.9	20	107	0
Methoxychlor	0.592	0.553	-	6.6	20	105	0
Mirex	0.938	1.042	-	-11.1	20	127	0
Endosulfan Sulfate	1.01	1.142	-	-13.1	20	124	0
Endrin Ketone	1.183	1.318	-	-11.4	20	118	0
Decachlorobiphenyl	1.163	0.81	-	30.4*	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:17	
Lab File ID	: 11240923a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24
Sample No	: WG1974956-1	**Init. Calib. Times**	: 18:37	23:11
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	105	0
2,4,5,6-Tetrachloro-m-xyl	1.114	0.937	-	15.9	20	89	0
Hexachlorobenzene	1.239	1.013	-	18.2	20	91	0
alpha-BHC	1.62	1.434	-	11.5	20	87	0
gamma-BHC (lindane)	1.539	1.281	-	16.8	20	86	0
beta-BHC	50	43.279	-	13.4	20	87	0
delta-BHC	1.523	1.25	-	17.9	20	83	0
Heptachlor	1.598	1.202	-	24.8*	20	79	0
Aldrin	1.435	1.136	-	20.8*	20	81	0
Alachlor	50	47.205	-	5.6	20	90	0
Chlorpyrifos	50	38.657	-	22.7*	20	76	0
Heptachlor Epoxide	1.425	1.027	-	27.9*	20	78	0
gamma-Chlordane (trans)	1.312	1.084	-	17.4	20	91	0
alpha-Chlordane (cis)	1.446	1.059	-	26.8*	20	80	0
4,4'-DDE	1.343	1.021	-	24*	20	78	0
Endosulfan I	1.332	0.993	-	25.5*	20	81	0
Dieldrin	1.327	1.113	-	16.1	20	88	0
Endrin	1.347	1.046	-	22.3*	20	81	0
4,4'-DDD	1.084	0.857	-	20.9*	20	82	0
Endosulfan II	1.214	0.952	-	21.6*	20	85	0
4,4'-DDT	1.25	0.918	-	26.6*	20	77	0
Endrin Aldehyde	50	37.455	-	25.1*	20	76	0
Methoxychlor	0.704	0.463	-	34.2*	20	75	0
Mirex	50	40.848	-	18.3	20	83	0
Endosulfan Sulfate	1.199	0.909	-	24.2*	20	84	0
Endrin Ketone	1.261	1.046	-	17	20	89	0
Decachlorobiphenyl	1.06	0.814	-	23.2*	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:29	
Lab File ID	: 11240923a-04	**Init. Calib. Date(s)**	: 08/01/24	08/01/24
Sample No	: WG1974956-2	**Init. Calib. Times**	: 18:37	23:11
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	127	0
chlordane-1	1000	1169.05	-	-16.9	20	144	0
chlordane-3	1000	1166.768	-	-16.7	20	139	0
chlordane-4	1000	1158.186	-	-15.8	20	140	0
chlordane-5	1000	1299.727	-	-30*	20	156	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:29		
Lab File ID	: 11240923a-04	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1974956-2	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	110	0
chlordane-1	1000	912.05	-	8.8	20	94	0
chlordane-3	1000	945.557	-	5.4	20	94	0
chlordane-4	1000	855.735	-	14.4	20	88	0
chlordane-5	1000	854.722	-	14.5	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:41
Lab File ID	: 11240923a-05	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1974956-3	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	128	0
toxaphene-2	2000	2584.173	-	-29.2*	20	160	0
toxaphene-3	2000	2487.895	-	-24.4*	20	154	0
toxaphene-4	2000	2147.24	-	-7.4	20	135	0
toxaphene-5	2000	2329.638	-	-16.5	20	145	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST11	**Calibration Date**	: 09/23/24 07:41	
Lab File ID	: 11240923a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24
Sample No	: WG1974956-3	**Init. Calib. Times**	: 18:37	23:11
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	108	0
toxaphene-2	2000	1898.648	-	5.1	20	102	0
toxaphene-3	2000	2010.381	-	-0.5	20	108	0
toxaphene-4	2000	1837.04	-	8.1	20	99	0
toxaphene-5	2000	1968.873	-	1.6	20	106	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:15
Lab File ID	: 18240924c-04	**Init. Calib. Date(s)**	: 08/15/24 08/15/24
Sample No	: WG1975559-2	**Init. Calib. Times**	: 14:05 18:28
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	113	0
chlordane-1	0.078	0.054	-	30.8*	20	96	0
chlordane-3	0.05	0.043	-	14	20	123	0
chlordane-4	0.176	0.153	-	13.1	20	124	0
chlordane-5	0.27	0.258	-	4.4	20	137	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:15
Lab File ID	: 18240924c-04	**Init. Calib. Date(s)**	: 08/15/24 08/15/24
Sample No	: WG1975559-2	**Init. Calib. Times**	: 14:05 18:28
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	99	0
chlordane-1	0.041	0.039	-	4.9	20	113	0
chlordane-3	0.046	0.04	-	13	20	114	0
chlordane-4	0.164	0.147	-	10.4	20	107	0
chlordane-5	0.131	0.107	-	18.3	20	101	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:27		
Lab File ID	: 18240924c-05	**Init. Calib. Date(s)**	: 08/15/24	08/15/24	
Sample No	: WG1975559-3	**Init. Calib. Times**	: 14:05	18:28	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	125	0
toxaphene-1	0.05	0.038	-	24*	20	94	0
toxaphene-2	0.054	0.042	-	22.2*	20	94	0
toxaphene-3	0.055	0.037	-	32.7*	20	86	0
toxaphene-4	0.055	0.035	-	36.4*	20	89	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:27
Lab File ID	: 18240924c-05	**Init. Calib. Date(s)**	: 08/15/24 08/15/24
Sample No	: WG1975559-3	**Init. Calib. Times**	: 14:05 18:28
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	104	0
toxaphene-1	0.025	0.022	-	12	20	88	0
toxaphene-2	0.038	0.033	-	13.2	20	92	0
toxaphene-3	0.045	0.036	-	20	20	83	0
toxaphene-4	0.04	0.034	-	15	20	87	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:38		
Lab File ID	: 18240924c-06	**Init. Calib. Date(s)**	: 08/15/24	08/15/24	
Sample No	: WG1975559-1	**Init. Calib. Times**	: 14:05	18:28	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	124	0
2,4,5,6-Tetrachloro-m-xylen	1.22	1.312	-	-7.5	20	134	0
Hexachlorobenzene	1.431	1.542	-	-7.8	20	136	0
alpha-BHC	1.531	1.781	-	-16.3	20	138	0
gamma-BHC (lindane)	1.404	1.555	-	-10.8	20	134	0
beta-BHC	0.638	0.688	-	-7.8	20	136	0
delta-BHC	1.404	1.5	-	-6.8	20	127	0
Heptachlor	1.315	1.436	-	-9.2	20	132	0
Aldrin	1.284	1.437	-	-11.9	20	132	0
Alachlor	0.194	0.277	-	-42.8*	20	179	0
Chlorpyrifos	50	64.692	-	-29.4*	20	131	0
Heptachlor Epoxide	1.161	1.234	-	-6.3	20	128	0
gamma-Chlordane (trans)	1.14	1.318	-	-15.6	20	142	0
alpha-Chlordane (cis)	1.273	1.297	-	-1.9	20	124	0
4,4'-DDE	1.268	1.35	-	-6.5	20	126	0
Endosulfan I	1.138	1.182	-	-3.9	20	125	0
Dieldrin	1.209	1.337	-	-10.6	20	132	0
Endrin	1.209	1.233	-	-2	20	122	0
4,4'-DDD	0.982	1.041	-	-6	20	126	0
Endosulfan II	1.096	1.102	-	-0.5	20	121	0
4,4'-DDT	1.107	1.082	-	2.3	20	116	0
Endrin Aldehyde	0.923	0.771	-	16.5	20	101	0
Methoxychlor	50	54.563	-	-9.1	20	114	0
Mirex	50	51.521	-	-3	20	117	0
Endosulfan Sulfate	1.087	1.055	-	2.9	20	117	0
Endrin Ketone	1.216	1.169	-	3.9	20	116	0
Decachlorobiphenyl	50	46.917	-	6.2	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 09/24/24 10:38		
Lab File ID	: 18240924c-06	**Init. Calib. Date(s)**	: 08/15/24	08/15/24	
Sample No	: WG1975559-1	**Init. Calib. Times**	: 14:05	18:28	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	115	0
2,4,5,6-Tetrachloro-m-xyl	1.179	1.332	-	-13	20	126	0
Hexachlorobenzene	1.26	1.361	-	-8	20	126	0
alpha-BHC	1.569	1.877	-	-19.6	20	128	0
gamma-BHC (lindane)	1.462	1.677	-	-14.7	20	128	0
beta-BHC	0.679	0.729	-	-7.4	20	125	0
delta-BHC	1.445	1.616	-	-11.8	20	121	0
Heptachlor	1.318	1.6	-	-21.4*	20	134	0
Aldrin	1.307	1.527	-	-16.8	20	125	0
Alachlor	0.196	0.251	-	-28.1*	20	147	0
Chlorpyrifos	50	68.892	-	-37.8*	20	132	0
Heptachlor Epoxide	1.247	1.401	-	-12.3	20	125	0
gamma-Chlordane (trans)	1.137	1.436	-	-26.3*	20	139	0
alpha-Chlordane (cis)	1.268	1.401	-	-10.5	20	122	0
4,4'-DDE	1.245	1.379	-	-10.8	20	117	0
Endosulfan I	1.167	1.317	-	-12.9	20	123	0
Dieldrin	1.196	1.482	-	-23.9*	20	133	0
Endrin	1.197	1.396	-	-16.6	20	127	0
4,4'-DDD	0.976	1.167	-	-19.6	20	129	0
Endosulfan II	1.072	1.22	-	-13.8	20	125	0
4,4'-DDT	1.07	1.215	-	-13.6	20	123	0
Endrin Aldehyde	0.903	0.838	-	7.2	20	103	0
Methoxychlor	0.581	0.612	-	-5.3	20	118	0
Mirex	0.903	0.935	-	-3.5	20	123	0
Endosulfan Sulfate	1.032	1.151	-	-11.5	20	124	0
Endrin Ketone	1.116	1.304	-	-16.8	20	129	0
Decachlorobiphenyl	0.953	0.978	-	-2.6	20	120	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:17
Operator : PEST11:peg
Sample   : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	110	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.054	-1.4	109	0.00
3	t	Hexachlorobenzene		1.406	1.188	15.5	95	0.00
4	t	alpha-BHC		1.461	1.848	-26.5#	126	0.00
5	t	gamma-BHC (lindane)		1.395	1.645	-17.9	121	0.00
6	t	beta-BHC		0.628	0.686	-9.2	121	0.00
7	t	delta-BHC		1.374	1.584	-15.3	116	0.00
8	t	Heptachlor		1.321	1.585	-20.0	125	0.00
9	t	Aldrin		1.233	1.483	-20.3	124	0.00
10	t	Alachlor		0.230	0.206	10.4	98	0.00
11	t	Chlorpyrifos		0.590	0.585	0.8	117	0.00
12	t	Heptachlor Epoxide		1.185	1.313	-10.8	117	0.00
13	t	gamma-Chlordane (trans)		1.077	1.369	-27.1#	136	0.00
14	t	alpha-Chlordane (cis)		1.216	1.366	-12.3	120	0.00
15	t	4,4'-DDE		1.192	1.213	-1.8	106	0.00
16	t	Endosulfan I		1.116	1.290	-15.6	122	0.00
17	t	Dieldrin		1.135	1.425	-25.6#	130	0.00
18	t	Endrin		1.153	1.341	-16.3	121	0.00
19	t	4,4'-DDD		0.927	1.009	-8.8	113	0.00
20	t	Endosulfan II		1.052	1.185	-12.6	119	0.00
21	t	4,4'-DDT		1.058	1.000	5.5	99	0.00
22	t	Endrin Aldehyde		0.886	0.878	0.9	107	0.00
23	t	Methoxychlor		0.592	0.553	6.6	105	0.00
24	t	Mirex		0.938	1.042	-11.1	127	0.00
25	t	Endosulfan Sulfate		1.010	1.142	-13.1	124	0.00
26	t	Endrin Ketone		1.183	1.318	-11.4	118	0.00
27	s	Decachlorobiphenyl		1.163	0.810	30.4#	84	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:17
Operator : PEST11:peg
Sample   : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.937	15.9	89	0.00
3	t	Hexachlorobenzene		1.239	1.013	18.2	91	0.00
4	t	alpha-BHC		1.620	1.434	11.5	87	0.00
5	t	gamma-BHC (lindane)		1.539	1.281	16.8	86	0.00
6	t	beta-BHC	*	50.000	43.279	13.4	87	0.00
7	t	delta-BHC		1.523	1.250	17.9	83	0.00
8	t	Heptachlor		1.598	1.202	24.8#	79	0.00
9	t	Aldrin		1.435	1.136	20.8#	81	0.00
10	t	Alachlor	*	50.000	47.205	5.6	90	0.00
11	t	Chlorpyrifos	*	50.000	38.657	22.7#	76	0.00
12	t	Heptachlor Epoxide		1.425	1.027	27.9#	78	0.00
13	t	gamma-Chlordane (trans)		1.312	1.084	17.4	91	0.00
14	t	alpha-Chlordane (cis)		1.446	1.059	26.8#	80	0.00
15	t	4,4'-DDE		1.343	1.021	24.0#	78	0.00
16	t	Endosulfan I		1.332	0.993	25.5#	81	0.00
17	t	Dieldrin		1.327	1.113	16.1	88	0.00
18	t	Endrin		1.347	1.046	22.3#	81	0.00
19	t	4,4'-DDD		1.084	0.857	20.9#	82	0.00
20	t	Endosulfan II		1.214	0.952	21.6#	85	0.00
21	t	4,4'-DDT		1.250	0.918	26.6#	77	0.00
22	t	Endrin Aldehyde	*	50.000	37.455	25.1#	76	0.00
23	t	Methoxychlor		0.704	0.463	34.2#	75	0.00
24	t	Mirex	*	50.000	40.848	18.3	83	0.00
25	t	Endosulfan Sulfate		1.199	0.909	24.2#	84	0.00
26	t	Endrin Ketone		1.261	1.046	17.0	89	0.00
27	s	Decachlorobiphenyl		1.060	0.814	23.2#	89	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:17
Operator : PEST11:peg
Sample   : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.20#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.28#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.68#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.21#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.33#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.20#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.21#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.35#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.59#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.97#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.27#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.62#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.20#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.86#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.03#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.27#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.89#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.92#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.25#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:17
Operator : PEST11:peg
Sample : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.196	1.269	253.5E6	192.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.524	1.717	534.3E6	360.9E6	50.717M4	42.051M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		101.43%	84.10%
27) s	Decachlorobi	6.129	6.761	410.5E6	313.6E6	34.818	38.389M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		69.64%	76.78%
	Target Compounds						
3) t	Hexachlorobe	1.725	2.019	602.2E6	390.2E6	42.245M4	40.866
4) t	alpha-BHC	1.819	2.108	937.0E6	552.5E6	63.275M4	44.258
5) t	gamma-BHC (l	2.010	2.378	834.0E6	493.7E6	58.951M4	41.619
6) t	beta-BHC	2.064	2.442	348.0E6	210.9E6	54.671M4	43.279M4
7) t	delta-BHC	2.185	2.695	803.0E6	481.7E6	57.642M4	41.044
8) t	Heptachlor	2.340	2.753	803.7E6	463.0E6	60.010M4	37.606
D							
9) t	Aldrin	2.570	3.056	751.6E6	437.9E6	60.112M4	39.601
D							
10) t	Alachlor	2.688	2.950	104.3E6	66803378	44.690M4	47.205
11) t	Chlorpyrifos	2.778	3.289	296.6E6	210.5E6	49.599M4	38.657

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:17
Operator : PEST11:peg
Sample : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) t D	Heptachlor E	3.091	3.646	665.8E6	395.8E6	55.392M4	36.031M4
13) t D	gamma-Chlord	3.211	3.860	693.9E6	417.7E6	63.546M4	41.325M4
14) t D	alpha-Chlord	3.340	4.028	692.4E6	408.3E6	56.149M4	36.638
15) t	4,4'-DDE	3.437	4.246	615.1E6	393.3E6	50.916M4	38.008
16) t D	Endosulfan I	3.469	4.090	653.7E6	382.6E6	57.767M4	37.272
17) t	Dieldrin	3.720	4.405	722.2E6	428.8E6	62.749M4	41.914M4
18) t	Endrin	3.966	4.719	679.8E6	403.1E6	58.165M4	38.841M4
19) t	4,4'-DDD	4.088	4.858	511.3E6	330.3E6	54.381M4	39.550M4
20) t	Endosulfan I	4.220	4.929	600.8E6	366.9E6	56.325M4	39.227M4
21) t	4,4'-DDT	4.403	5.144	507.0E6	353.7E6	47.248M4	36.710M4
22) t	Endrin Aldeh	4.663	5.237	444.9E6	270.2E6	49.506M3	37.455M4
23) t	Methoxychlor	4.921	5.728	280.1E6	178.3E6	46.681M4	32.846M4
24) t	Mirex	4.963	5.848	528.3E6	286.5E6	55.575M4	40.848M3
25) t	Endosulfan S	5.070	5.472	579.2E6	350.4E6	56.576M4	37.914M4
26) t	Endrin Keton	5.302	5.889	667.9E6	403.2E6	55.677M4	41.491M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:17
Operator : PEST11:peg
Sample : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:17
Operator : PEST11:peg
Sample : wg1974956-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1974956,,ical21365
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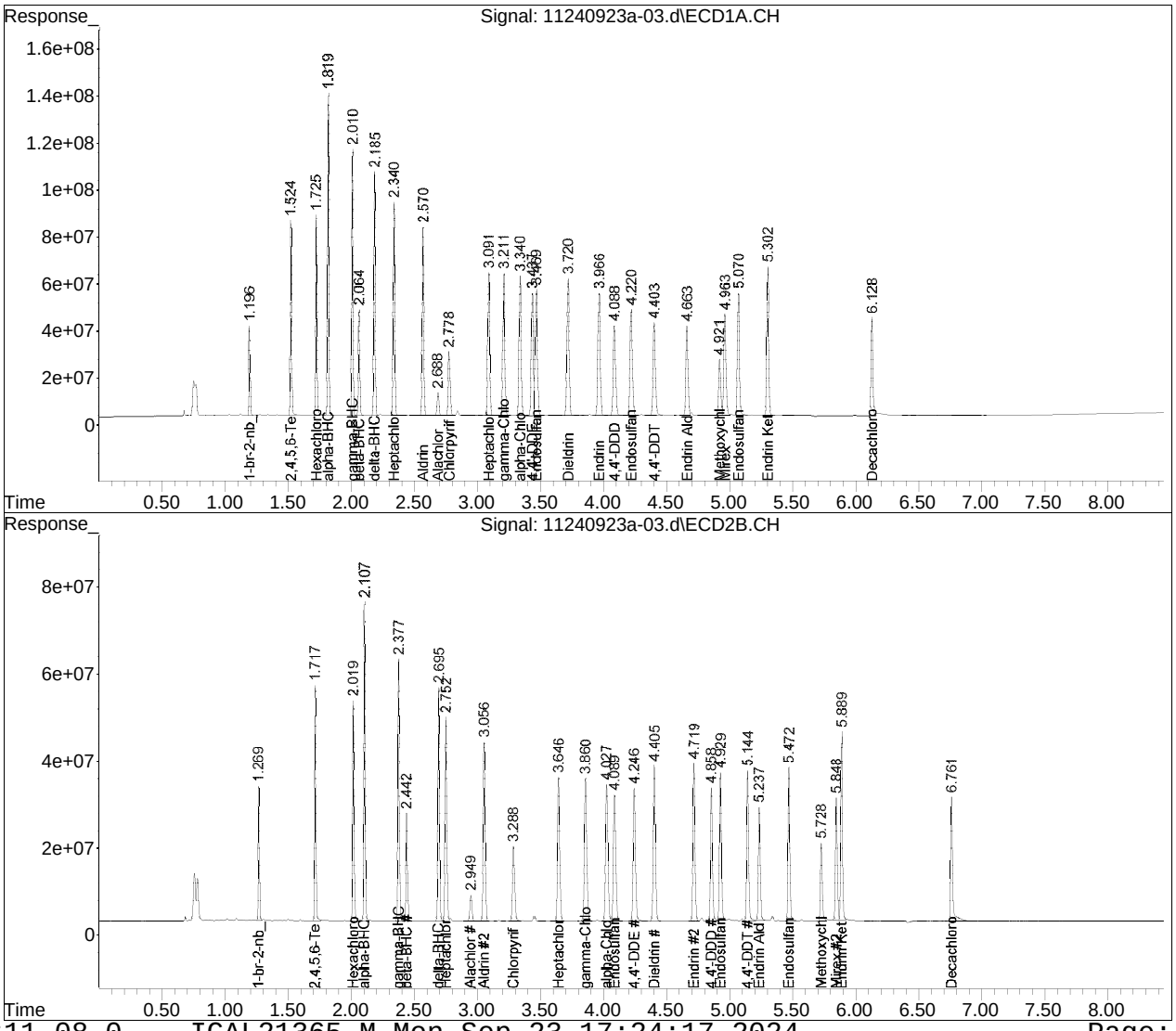
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:49:25 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:49:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

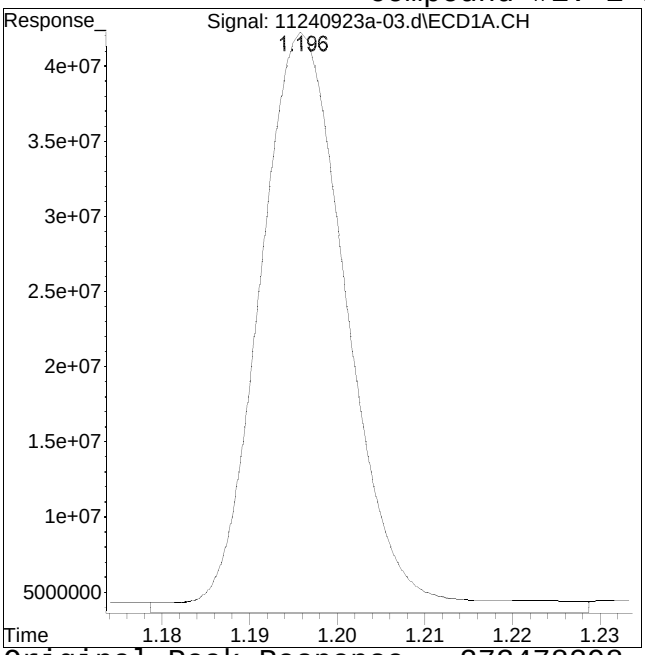
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



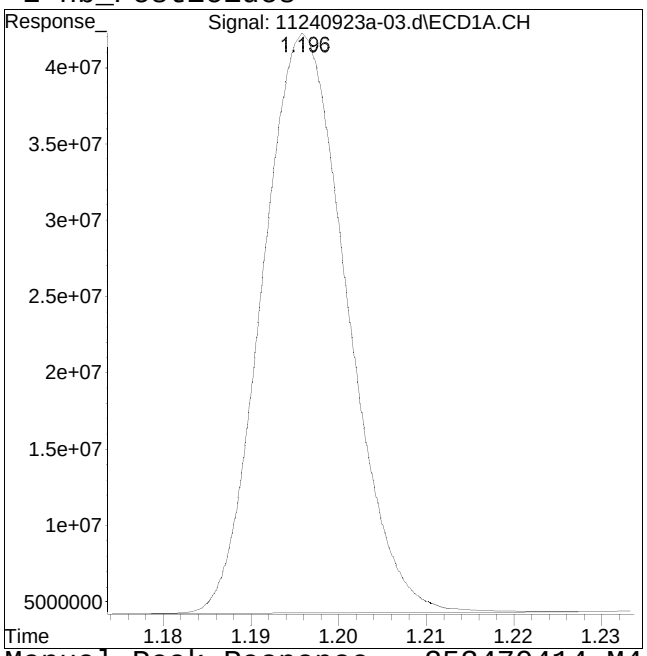
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 273478398

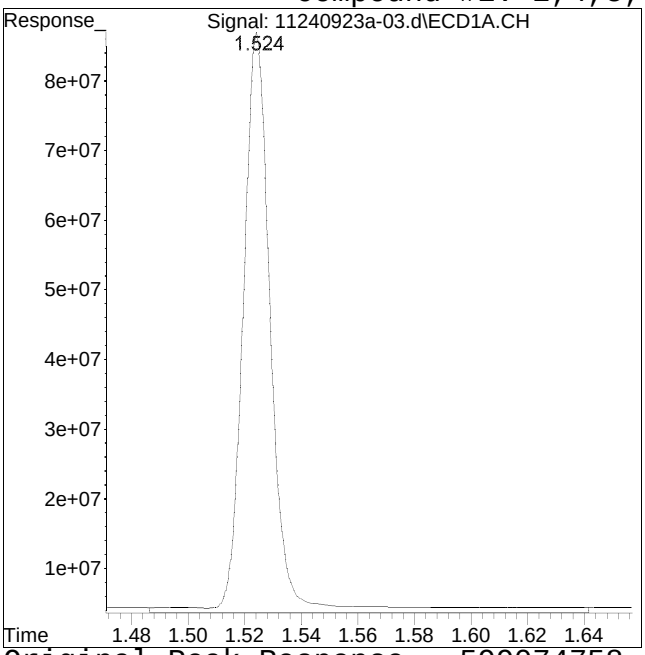


Manual Peak Response = 253470414 M4
M4 = Poor automated baseline construction.

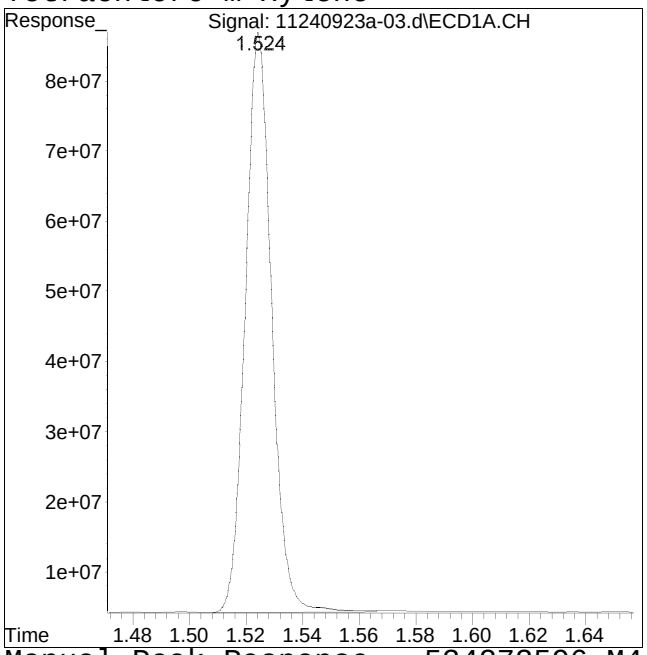
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 599074758



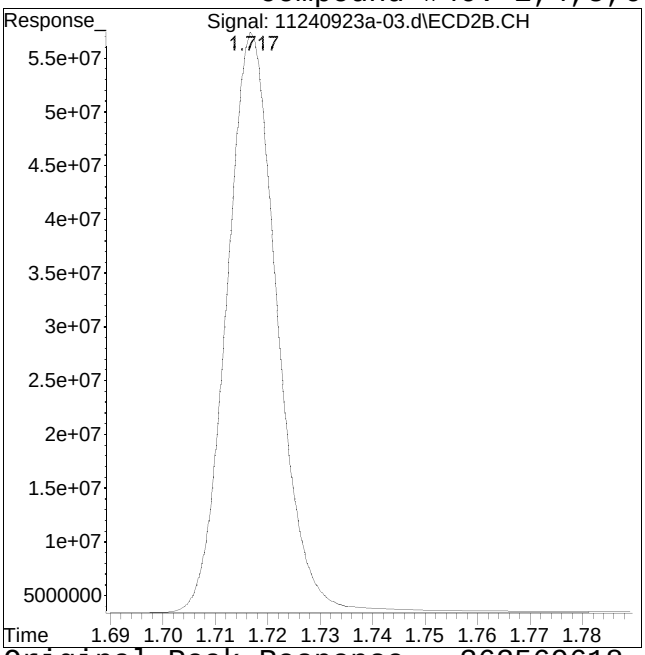
Manual Peak Response = 534273596 M4

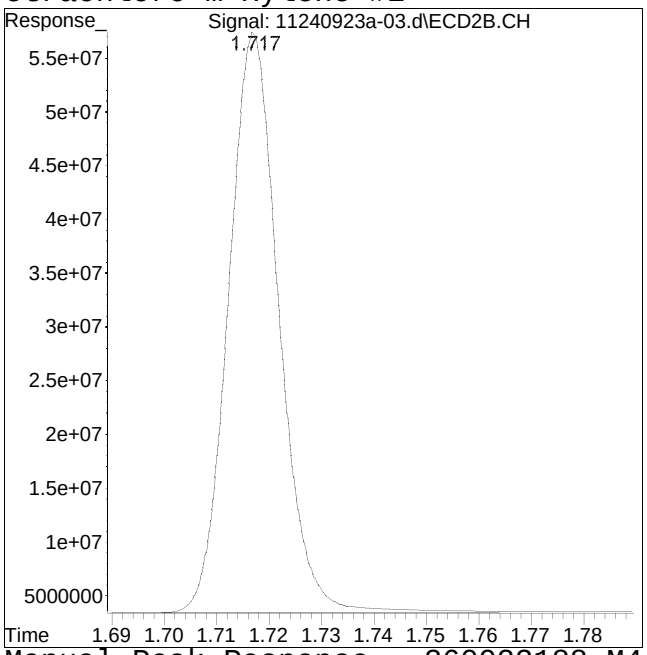
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



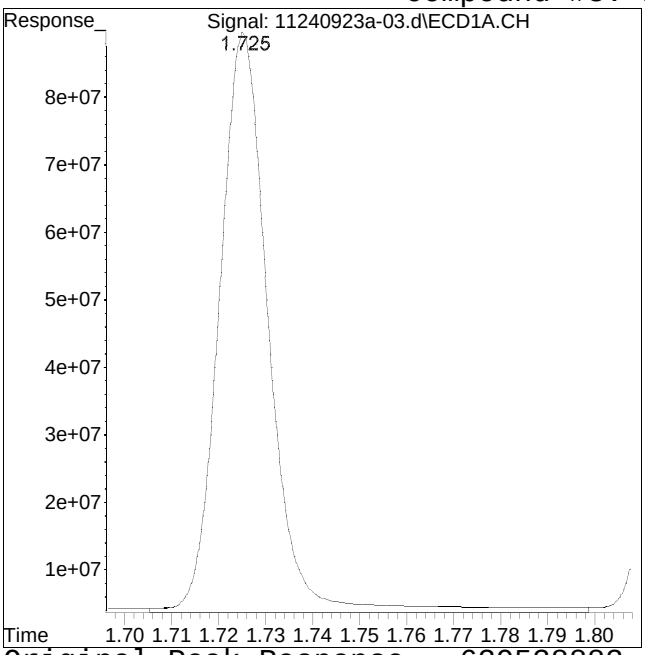


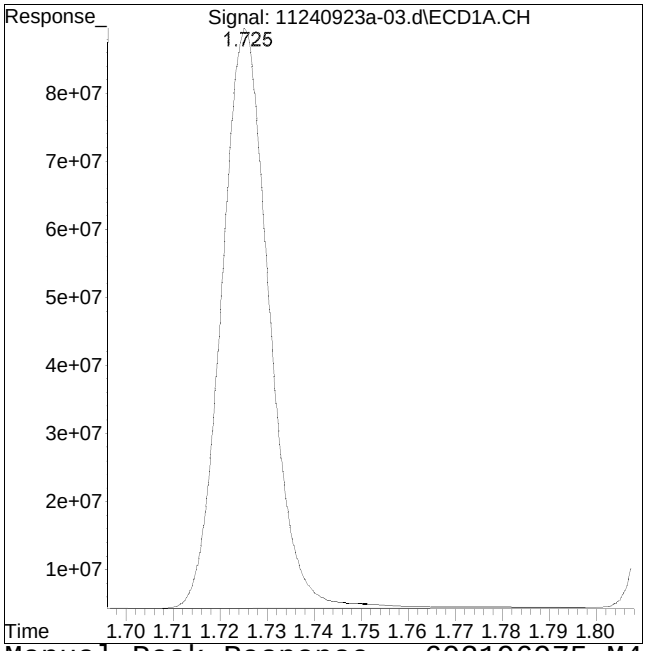
Original Peak Response = 363569618 Manual Peak Response = 360923188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #3: Hexachlorobenzene



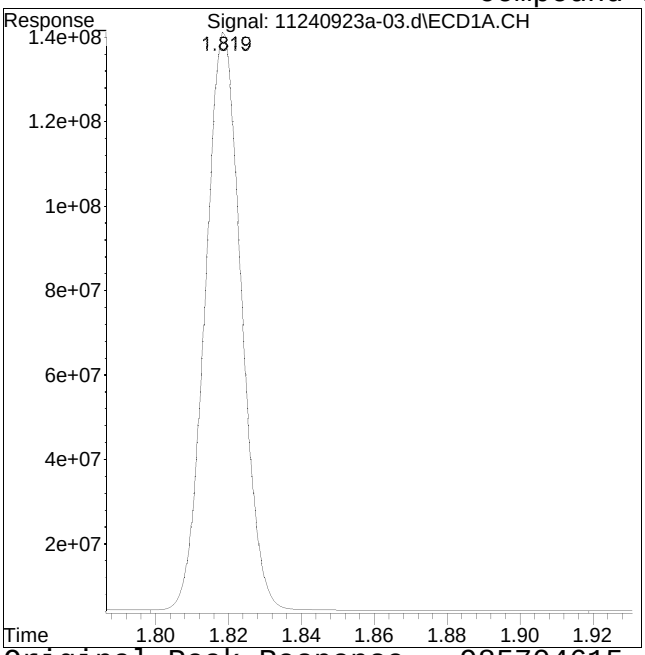


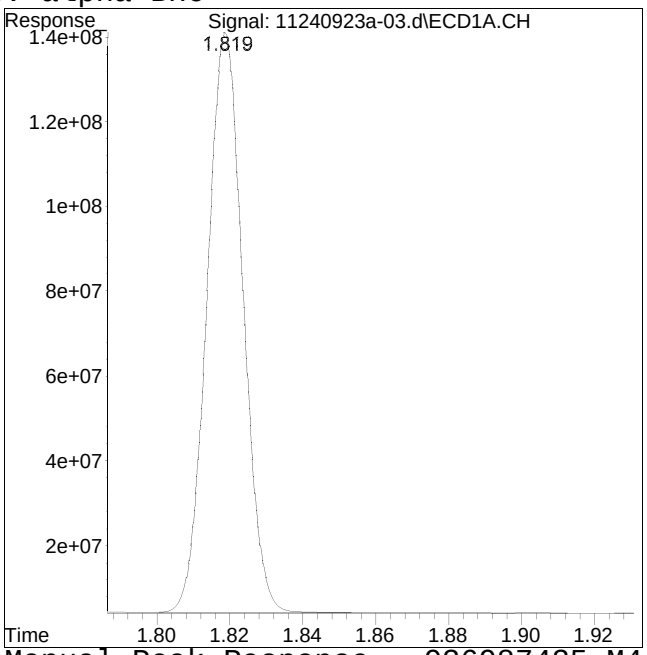
Original Peak Response = 639538883 Manual Peak Response = 602196975 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #4: alpha-BHC



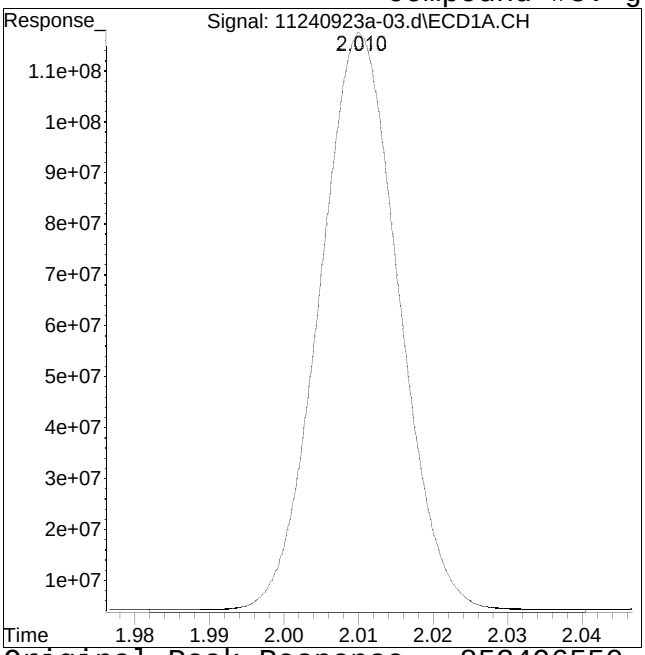


Original Peak Response = 985704615 Manual Peak Response = 936987435 M4
M4 = Poor automated baseline construction.

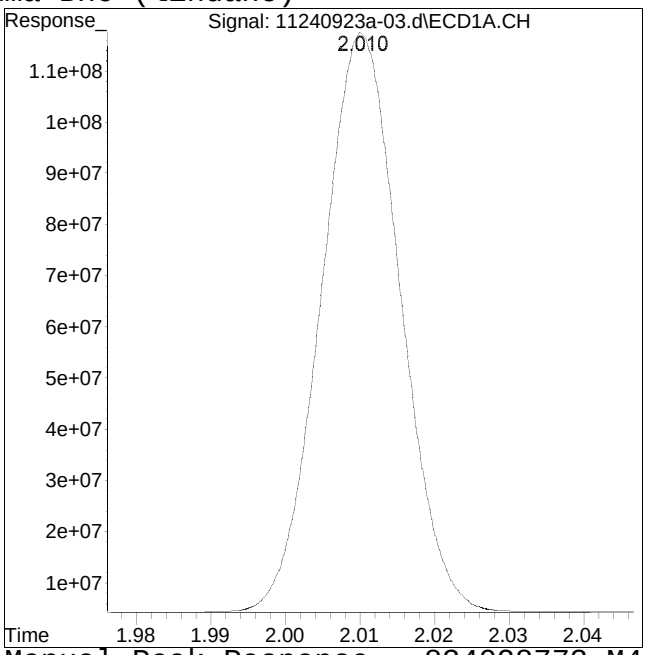
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 853496550



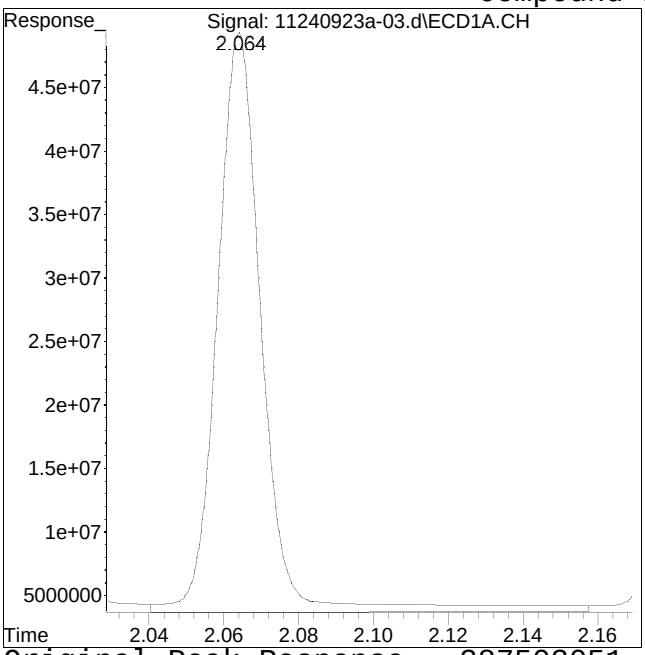
Manual Peak Response = 834028773 M4

M4 = Poor automated baseline construction.

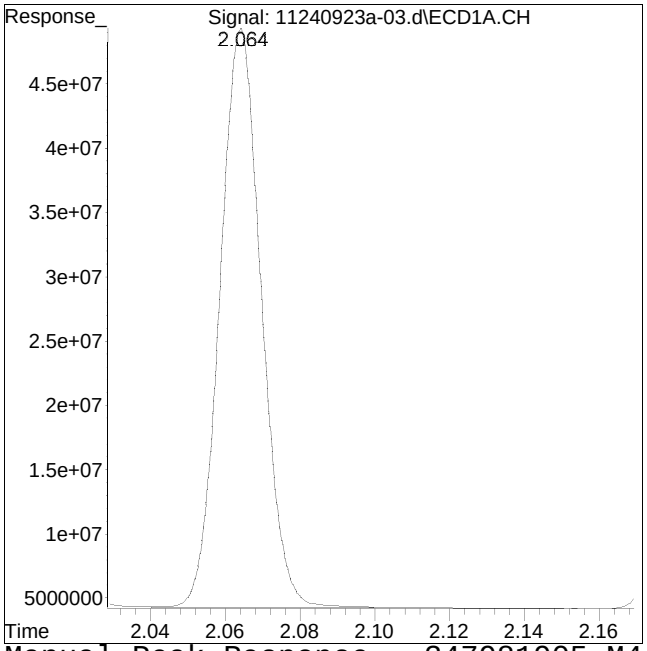
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #6: beta-BHC



Original Peak Response = 387503051



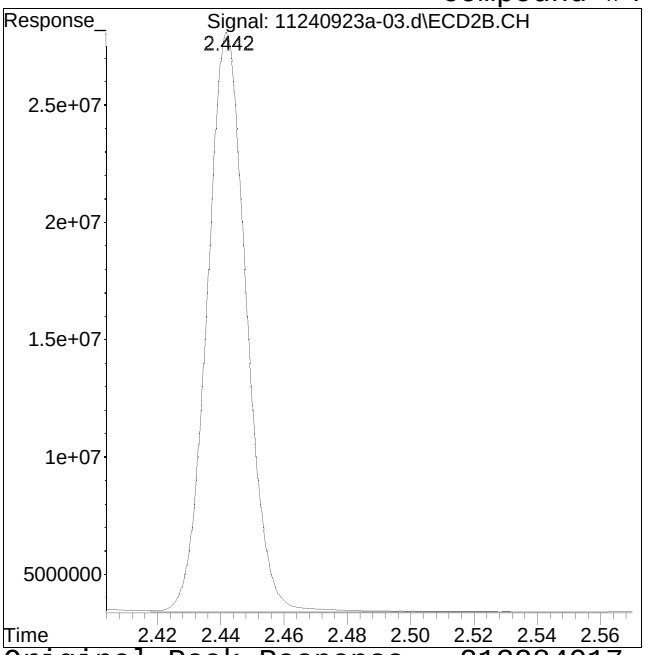
Manual Peak Response = 347981905 M4

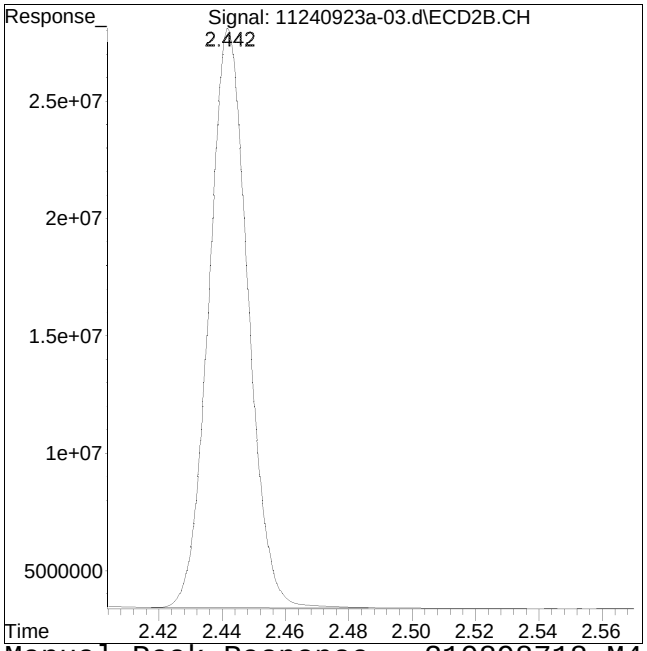
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #44: beta-BHC #2



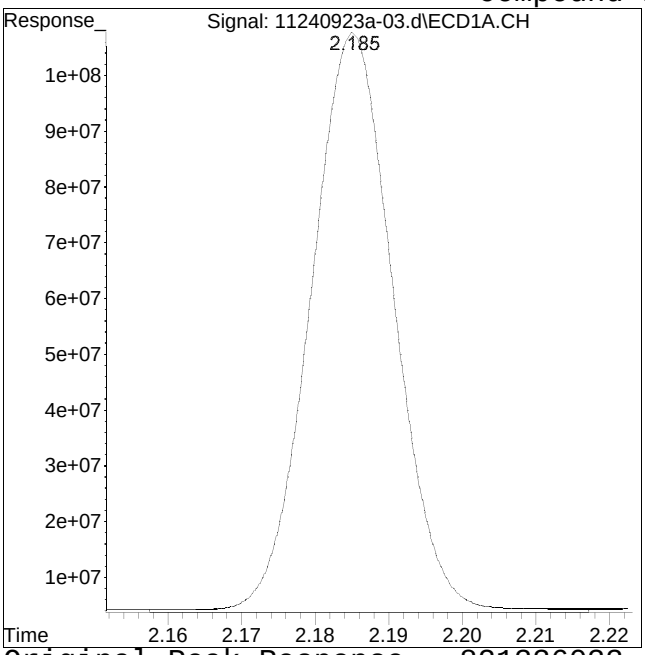


Original Peak Response = 213284917 Manual Peak Response = 210898718 M4
M4 = Poor automated baseline construction.

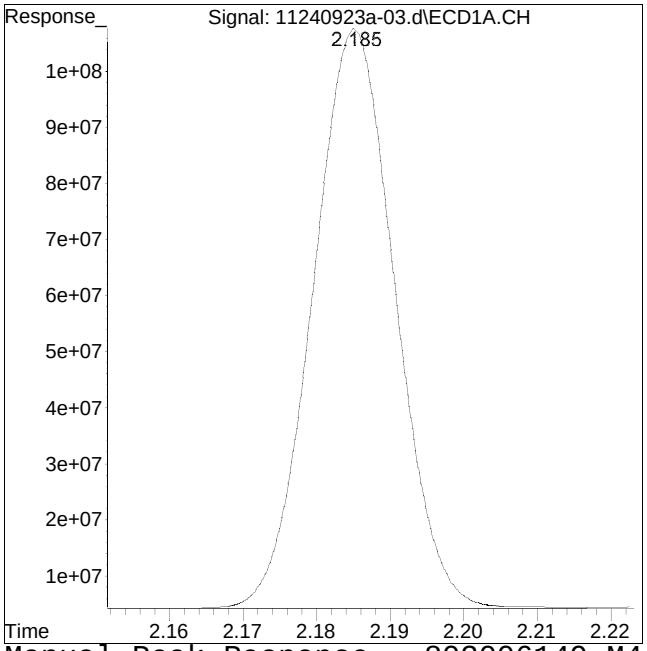
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #7: delta-BHC



Original Peak Response = 821336033

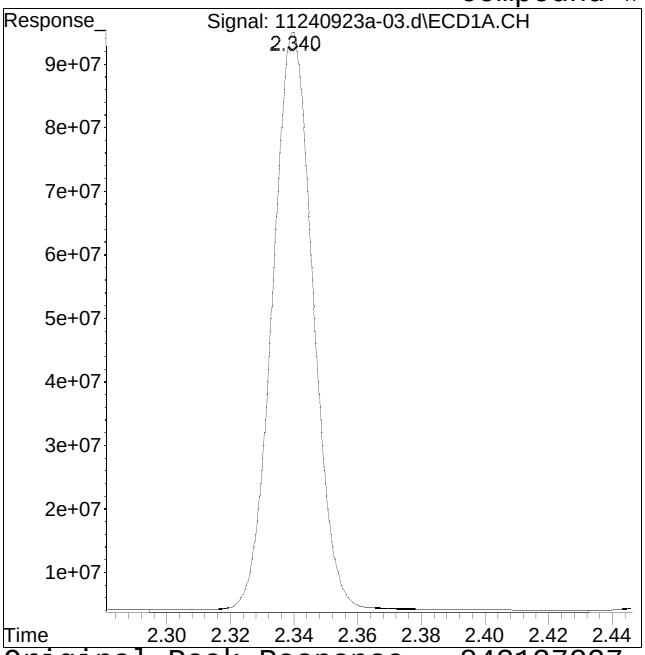


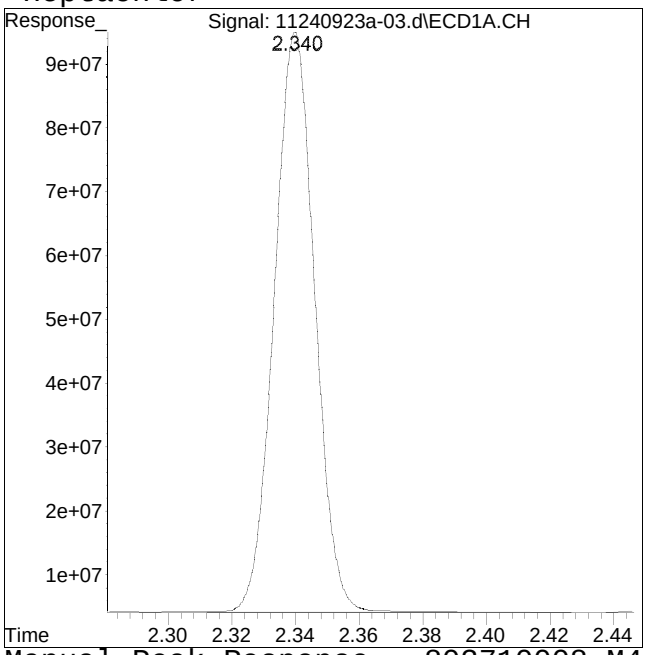
Manual Peak Response = 803006149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #8: Heptachlor



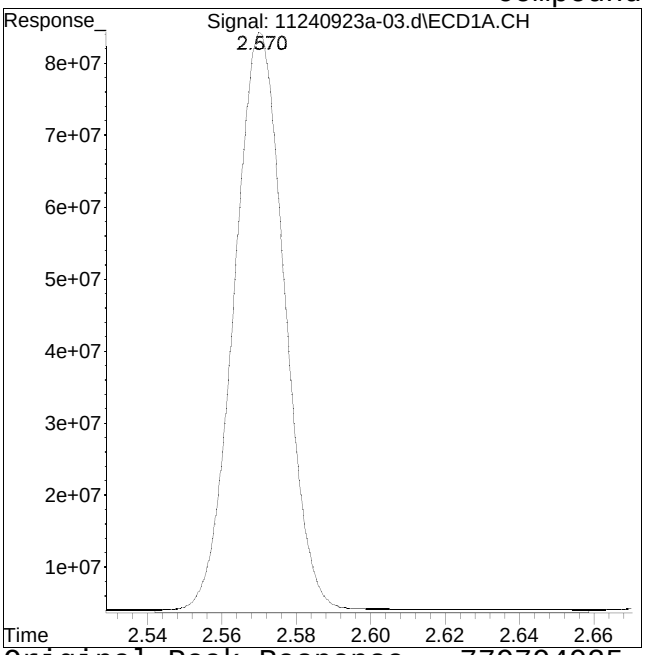


Original Peak Response = 843137227 Manual Peak Response = 803710008 M4
M4 = Poor automated baseline construction.

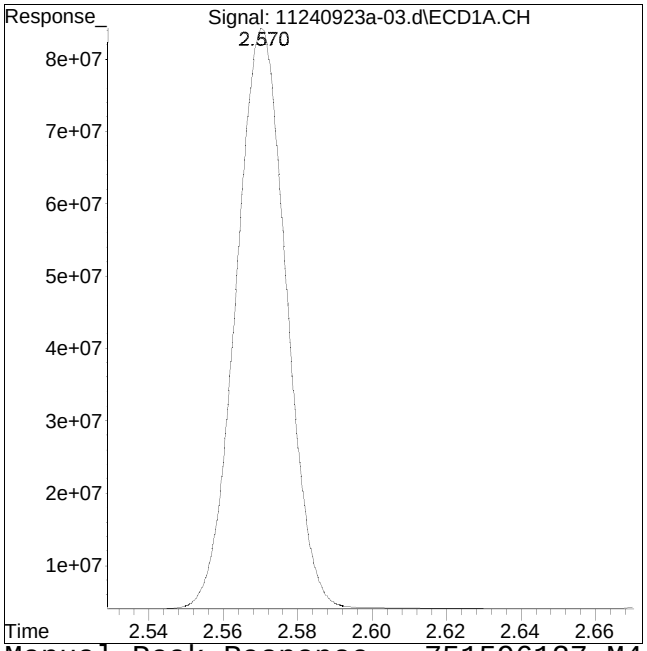
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #9: Aldrin



Original Peak Response = 779794925



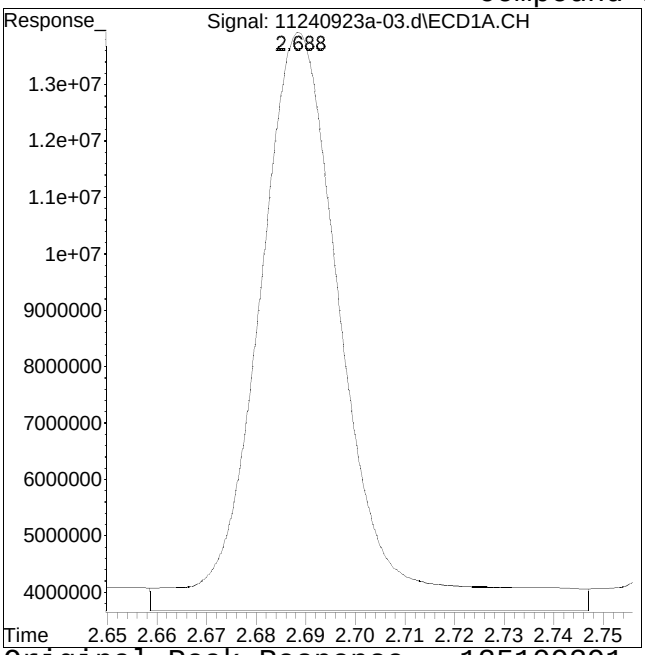
Manual Peak Response = 751596127 M4

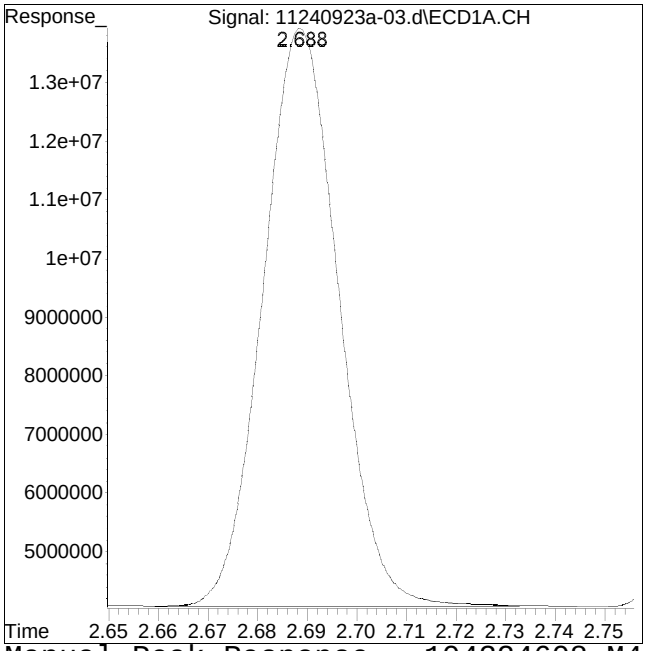
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #10: Alachlor



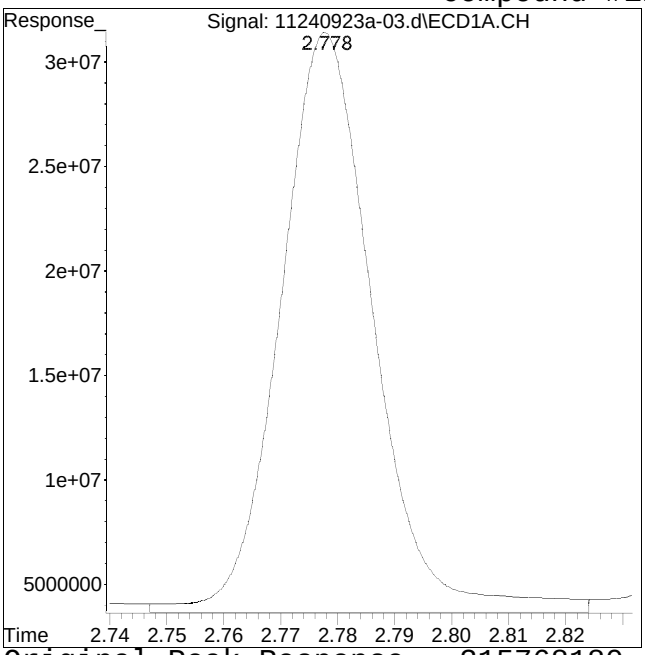


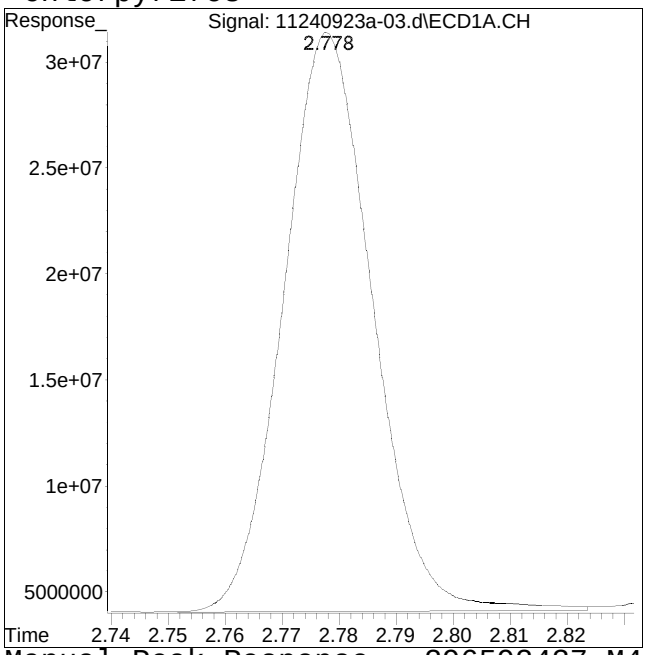
Original Peak Response = 125109391 Manual Peak Response = 104324608 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #11: Chlorpyrifos



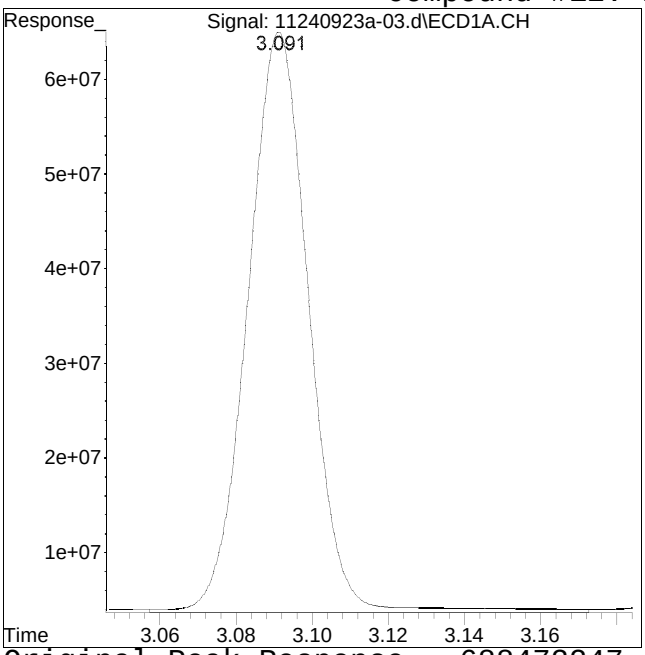


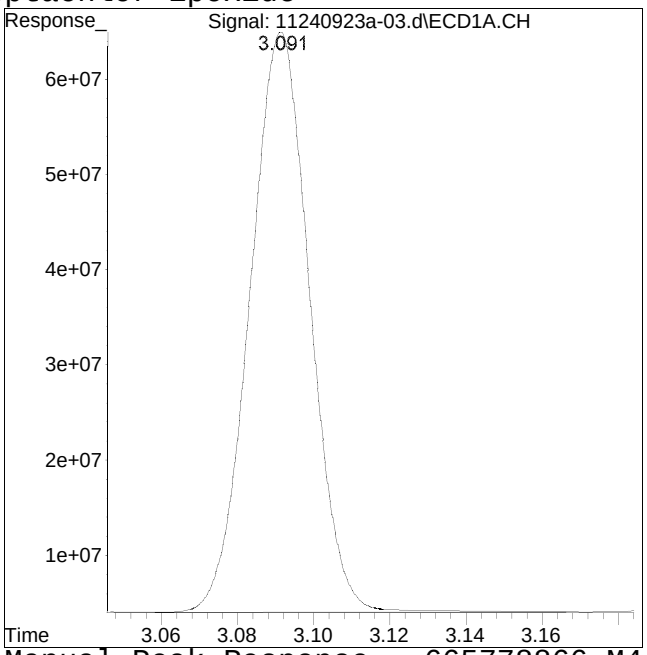
Original Peak Response = 315768180 Manual Peak Response = 296592437 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #12: Heptachlor Epoxide



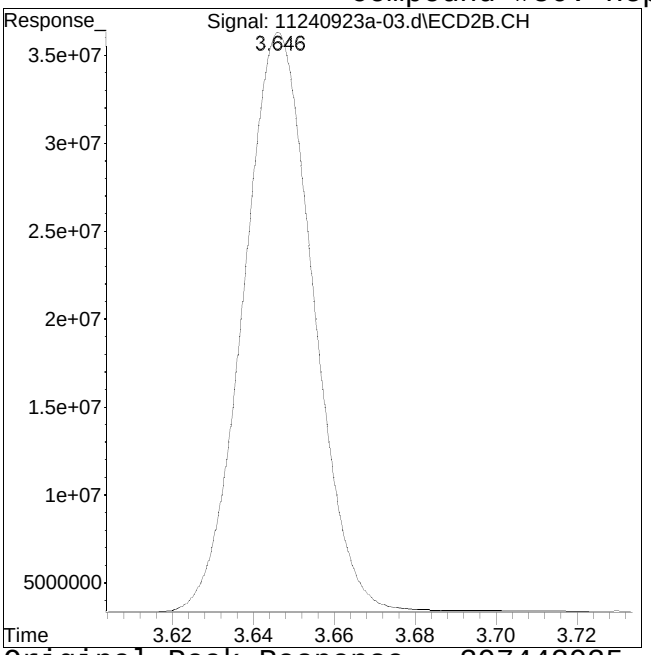


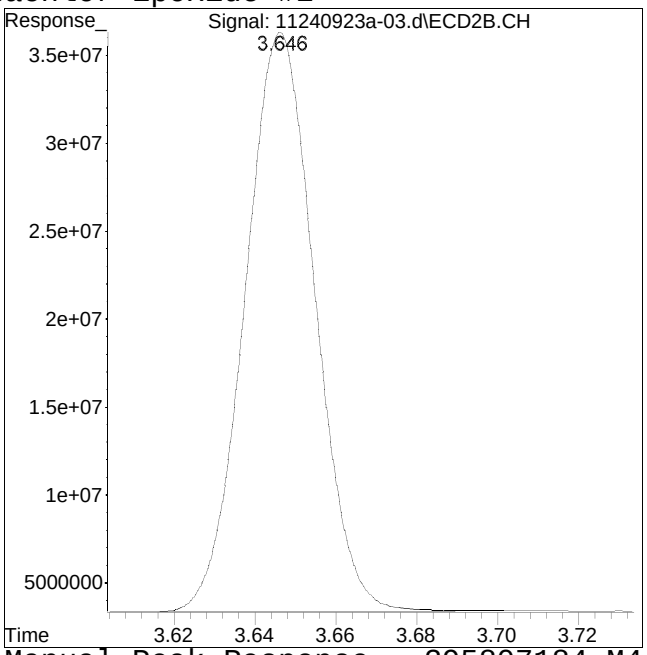
Original Peak Response = 688472247 Manual Peak Response = 665778866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #50: Heptachlor Epoxide #2



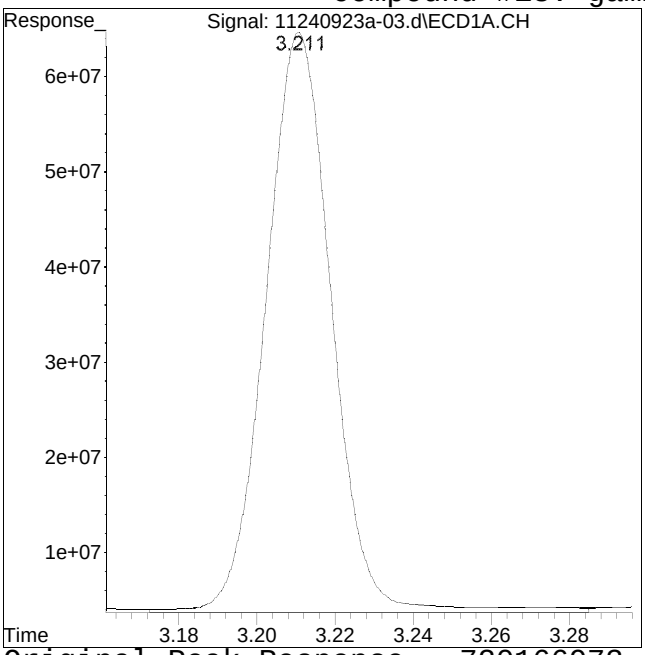


Original Peak Response = 397442935 Manual Peak Response = 395807184 M4
M4 = Poor automated baseline construction.

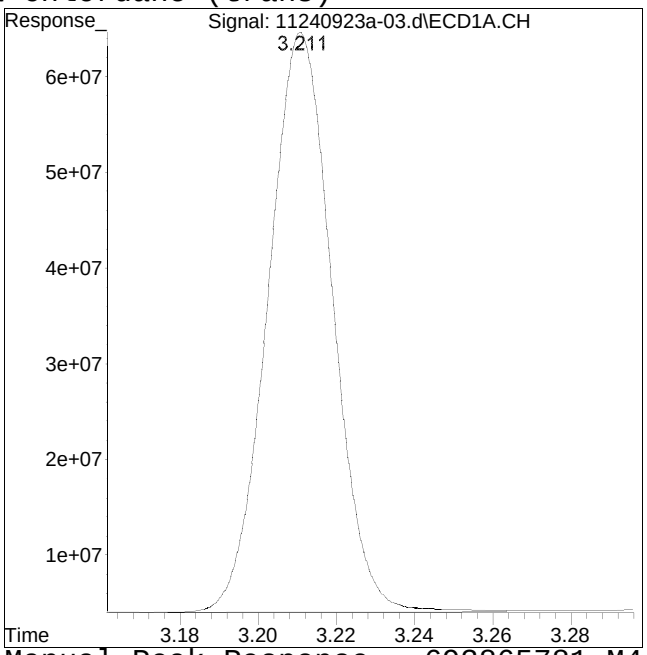
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 720166973

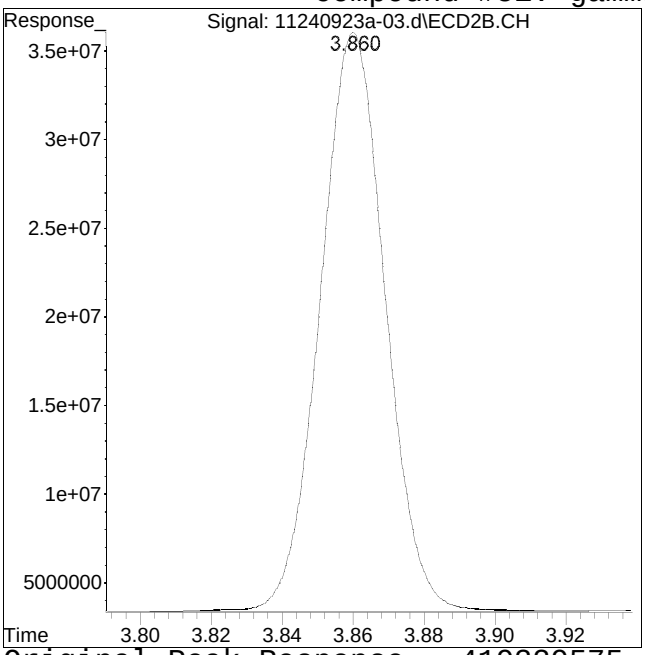


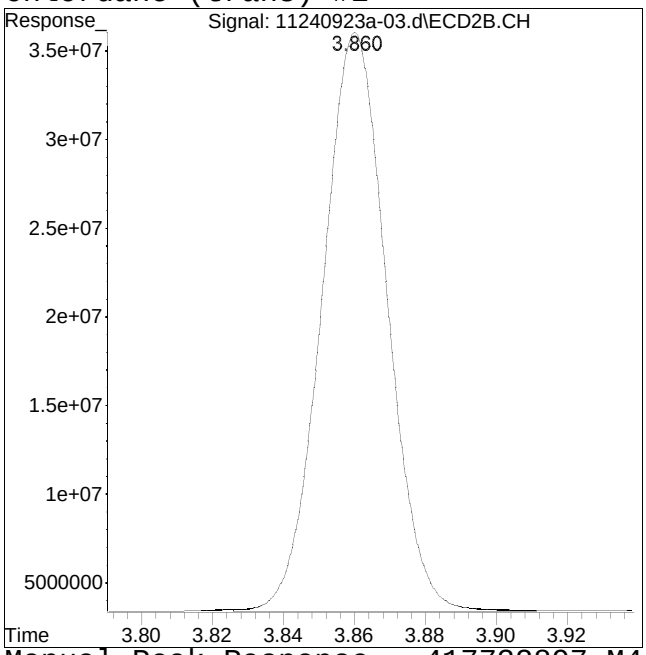
Manual Peak Response = 693865781 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #51: gamma-Chlordane (trans) #2



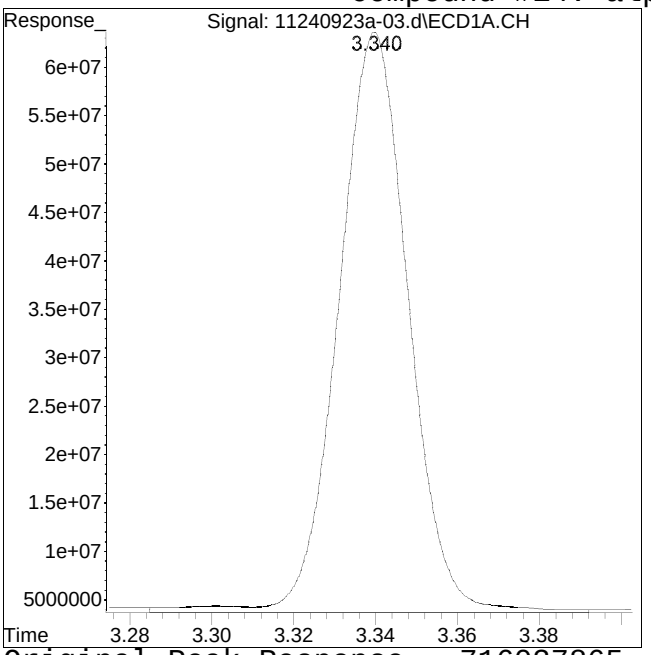


Original Peak Response = 419329575 Manual Peak Response = 417732897 M4
M4 = Poor automated baseline construction.

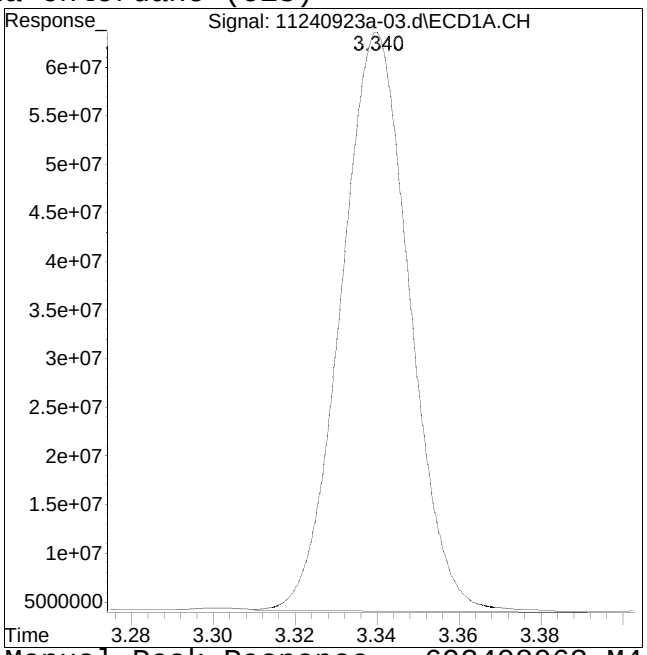
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 716037865



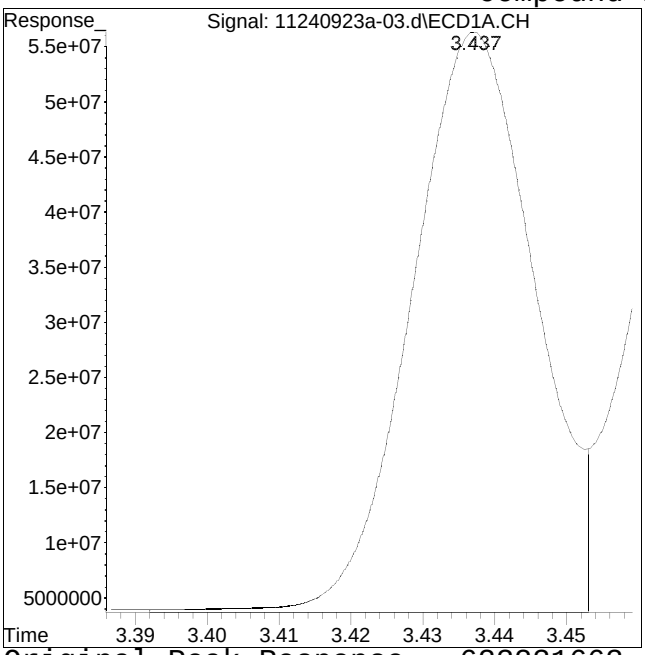
Manual Peak Response = 692408063 M4

M4 = Poor automated baseline construction.

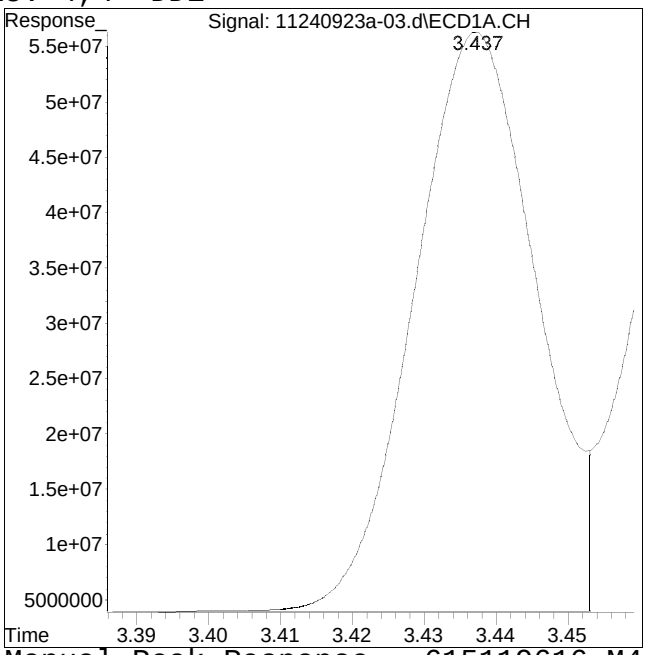
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #15: 4,4'-DDE



Original Peak Response = 623231663



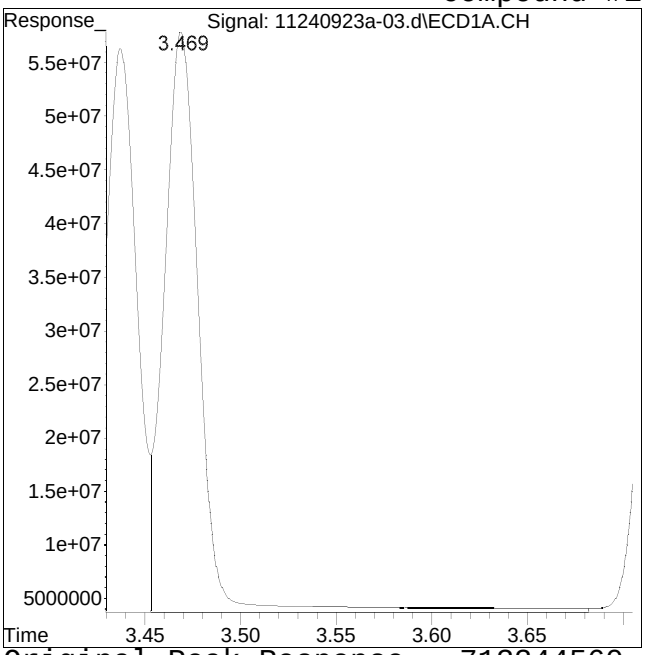
Manual Peak Response = 615119616 M4

M4 = Poor automated baseline construction.

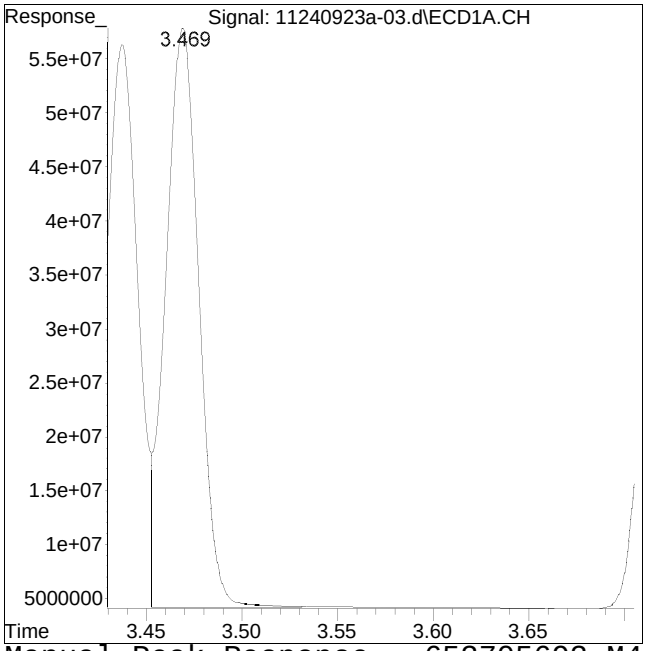
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #16: Endosulfan I



Original Peak Response = 713344560



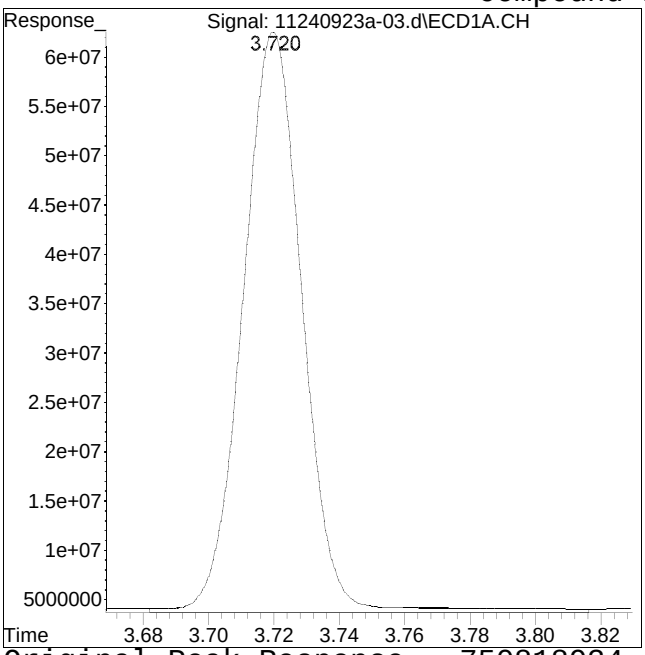
Manual Peak Response = 653705693 M4

M4 = Poor automated baseline construction.

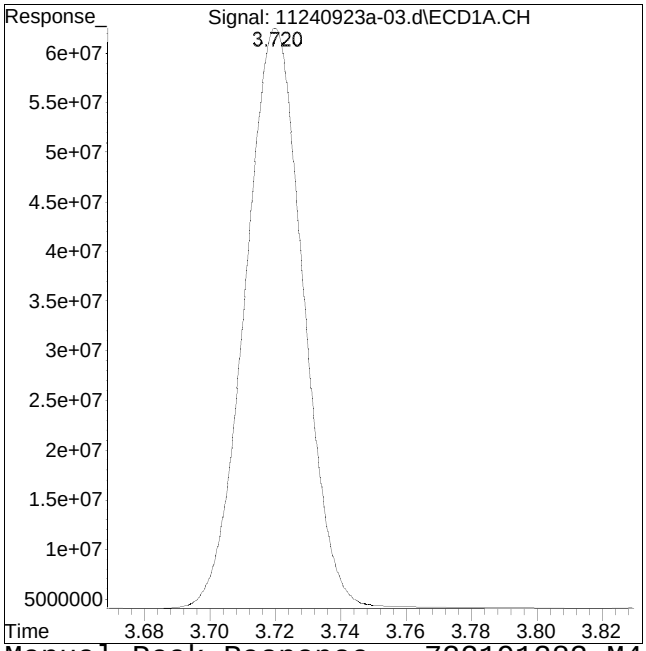
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #17: Dieldrin



Original Peak Response = 750818934



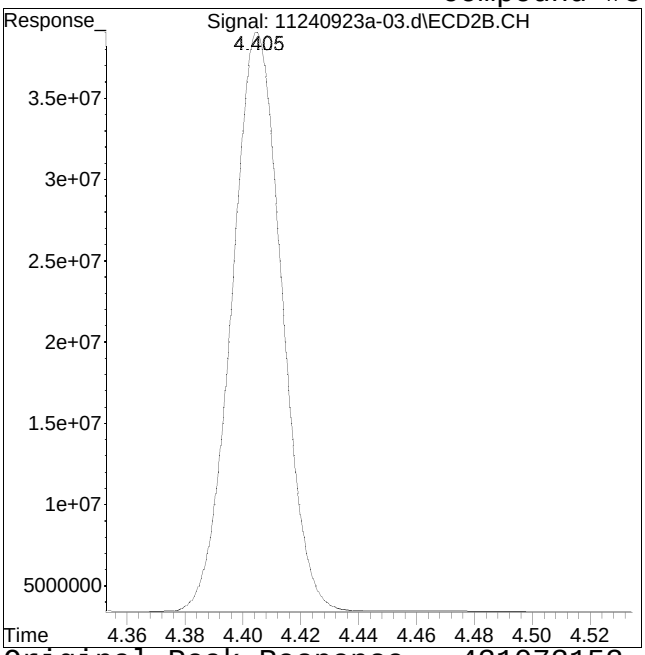
Manual Peak Response = 722191283 M4

M4 = Poor automated baseline construction.

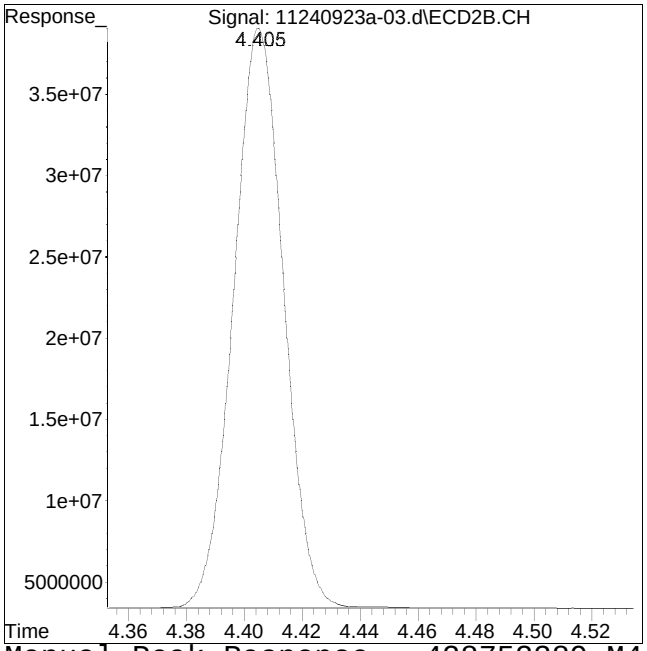
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #55: Dieldrin #2



Original Peak Response = 431073153



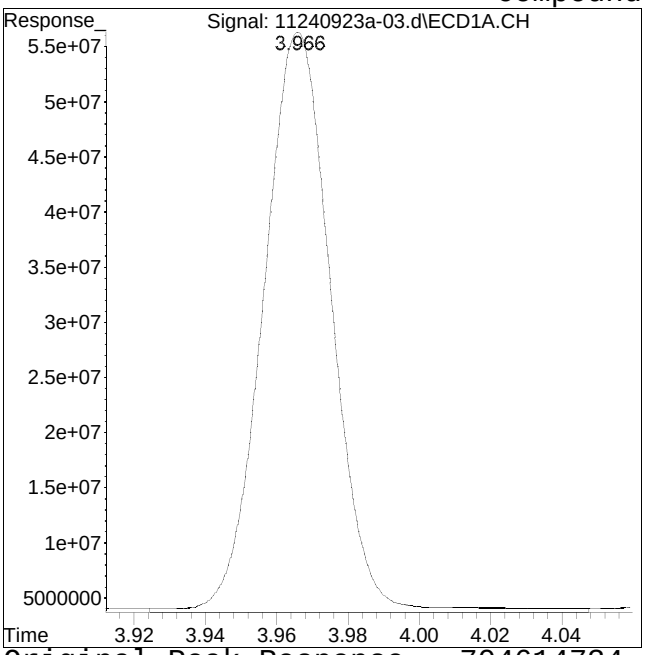
Manual Peak Response = 428753389 M4

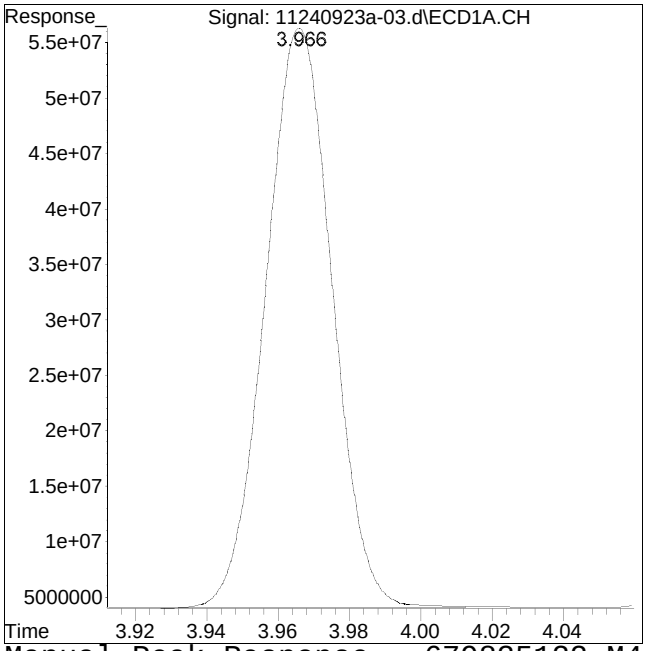
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #18: Endrin



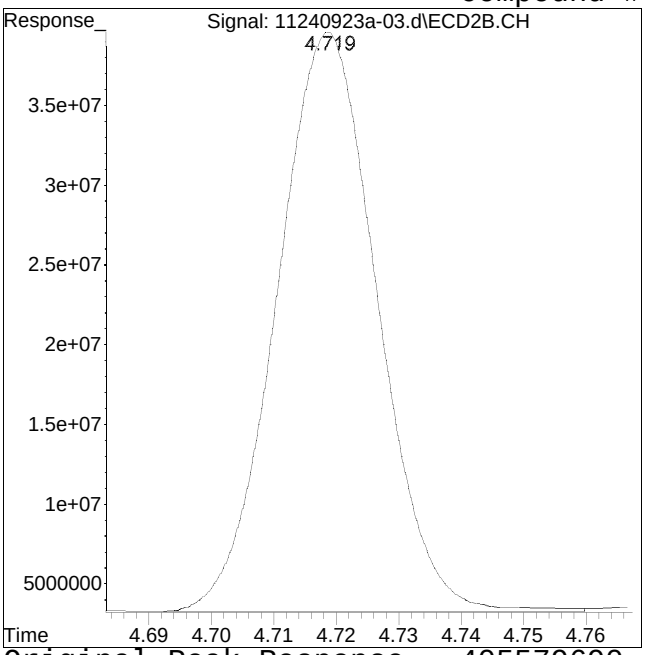


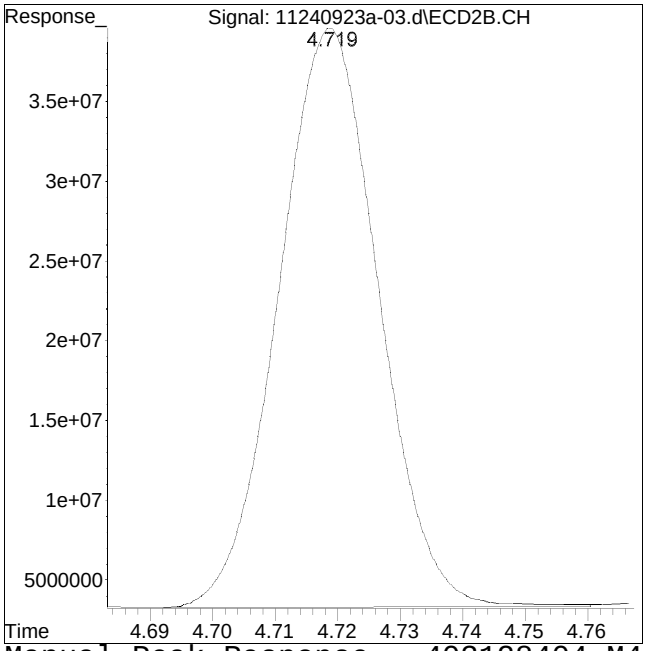
Original Peak Response = 704614734 Manual Peak Response = 679835122 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #56: Endrin #2



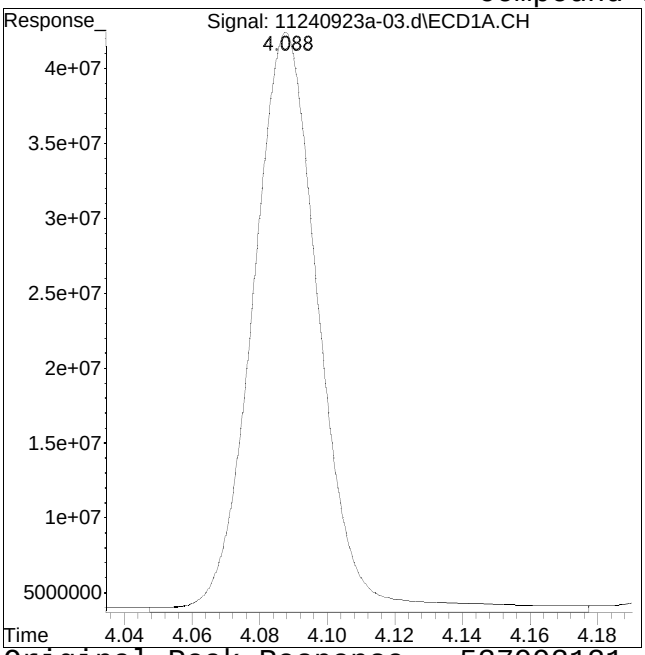


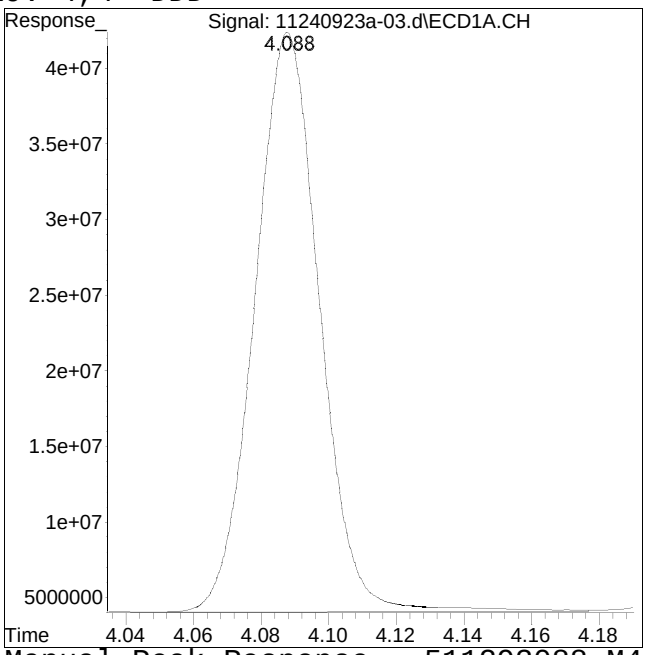
Original Peak Response = 405579690 Manual Peak Response = 403128404 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #19: 4,4'-DDD



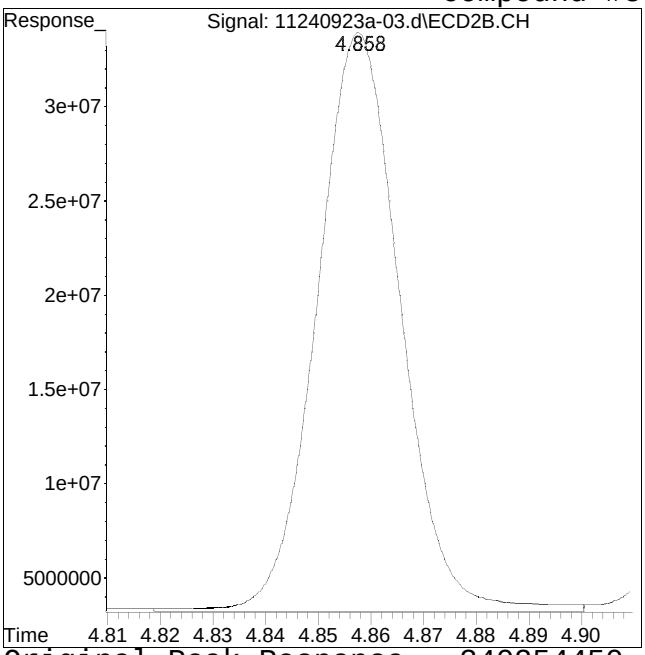


Original Peak Response = 537992121 Manual Peak Response = 511293088 M4
M4 = Poor automated baseline construction.

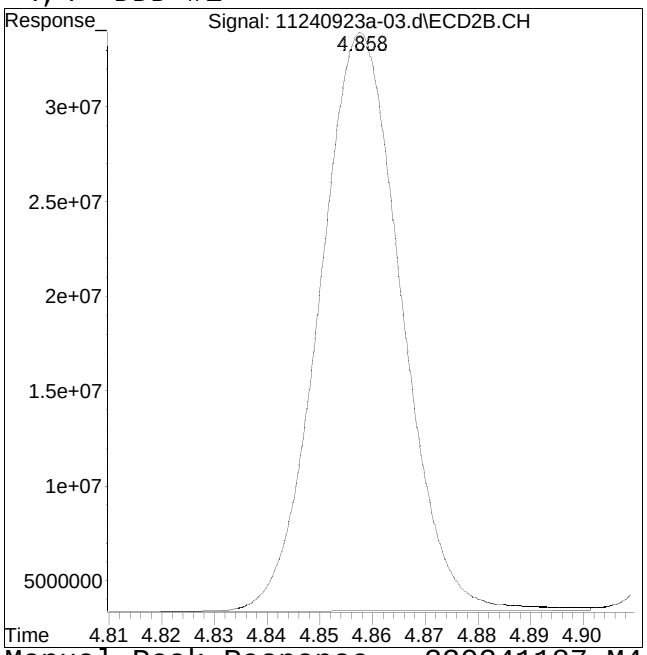
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 340254450

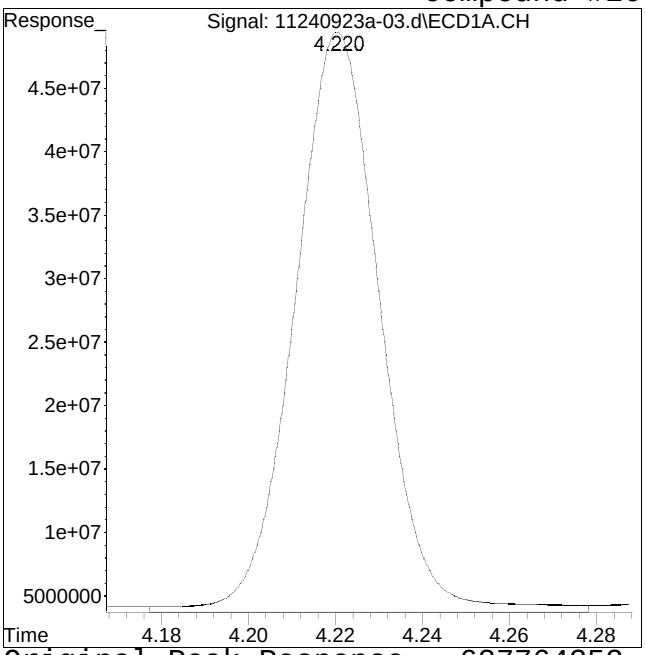


Manual Peak Response = 330341187 M4
M4 = Poor automated baseline construction.

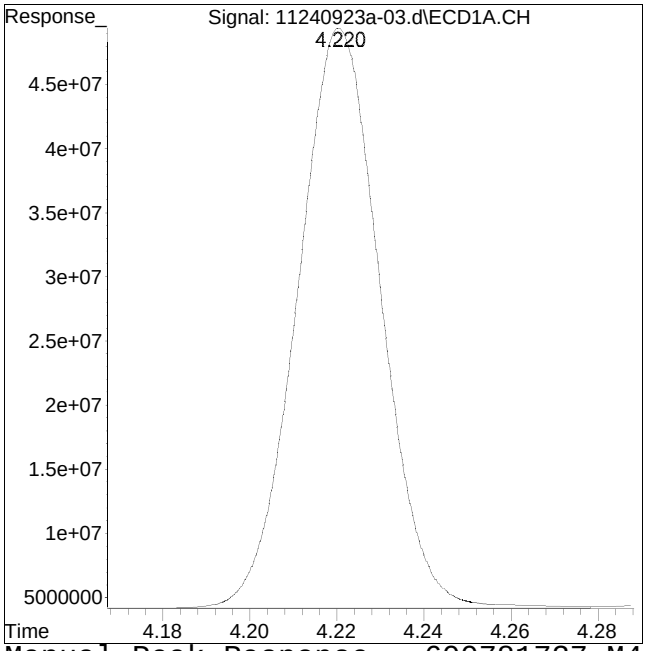
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #20: Endosulfan II



Original Peak Response = 627764352

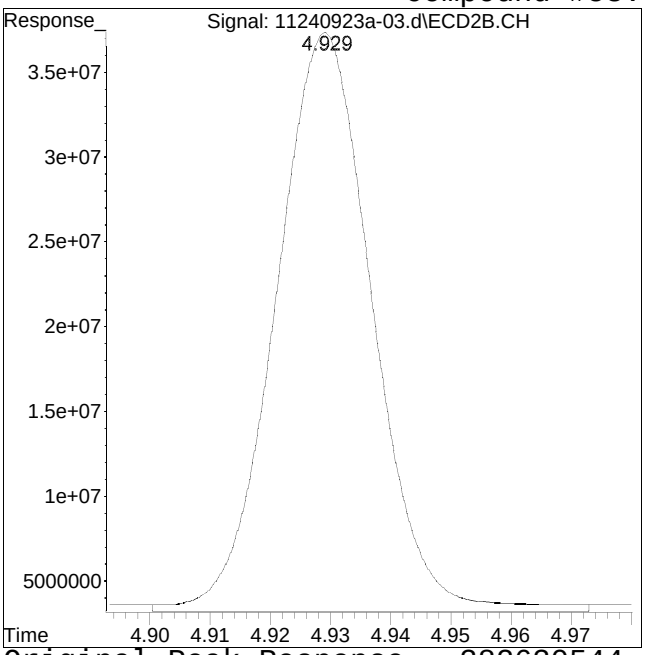


Manual Peak Response = 600781737 M4
M4 = Poor automated baseline construction.

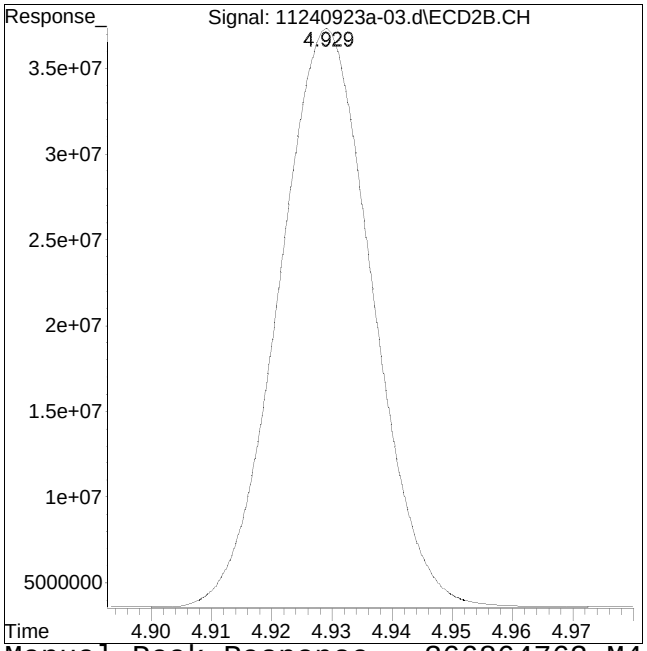
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #58: Endosulfan II #2



Original Peak Response = 382630544



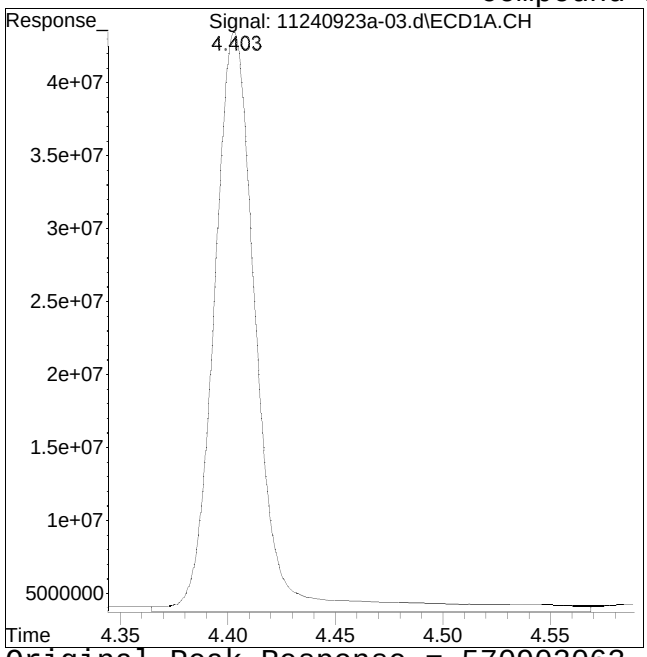
Manual Peak Response = 366864763 M4

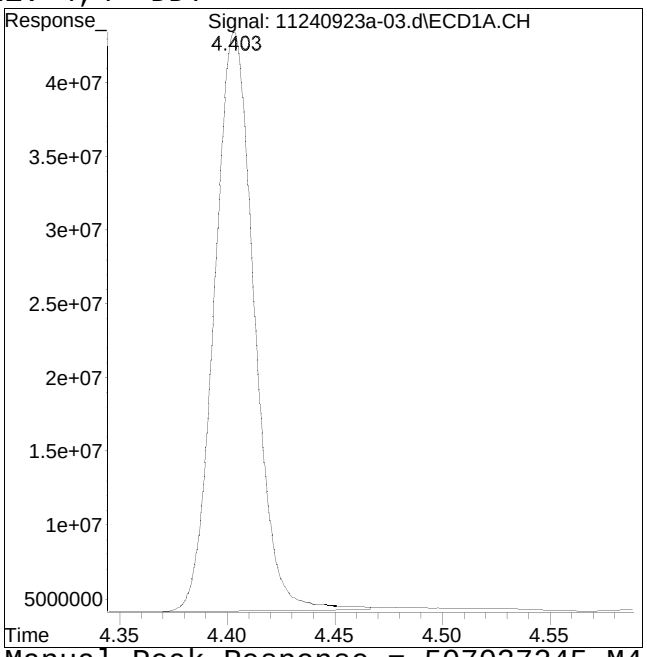
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #21: 4,4'-DDT



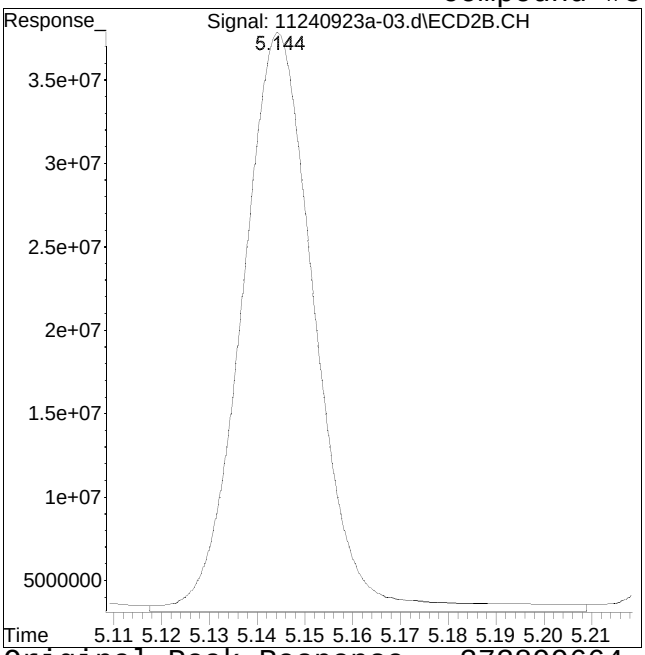


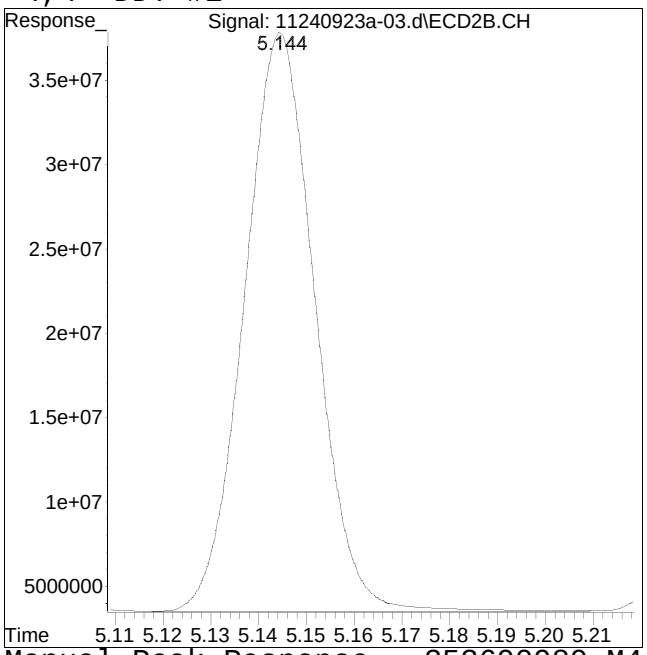
Original Peak Response = 570903063 Manual Peak Response = 507037245 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #59: 4,4'-DDT #2



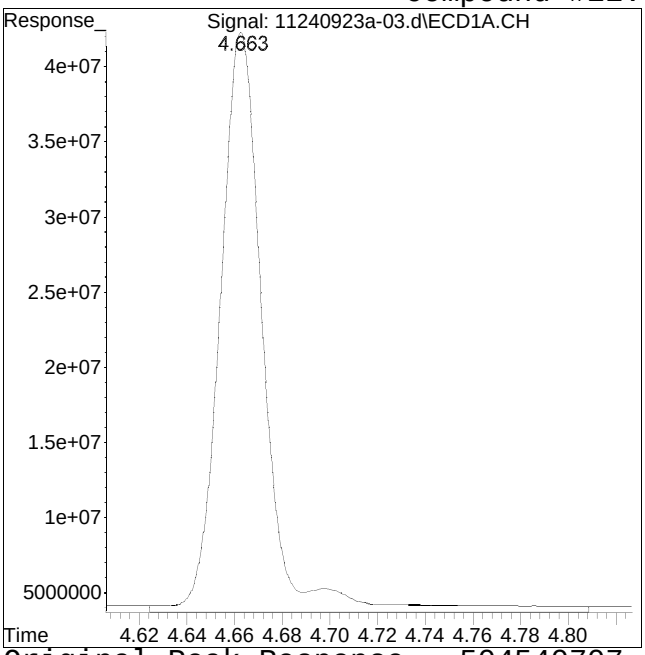


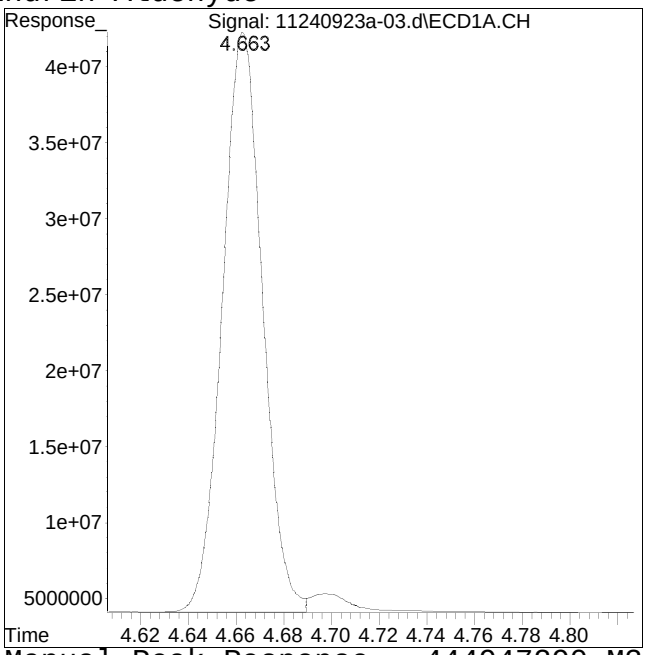
Original Peak Response = 373899664 Manual Peak Response = 353690980 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #22: Endrin Aldehyde



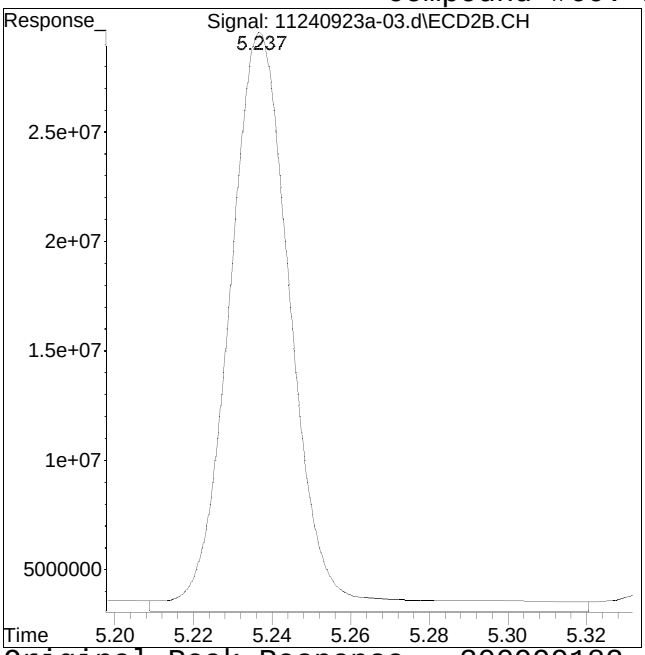


Original Peak Response = 504540707 Manual Peak Response = 444947290 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

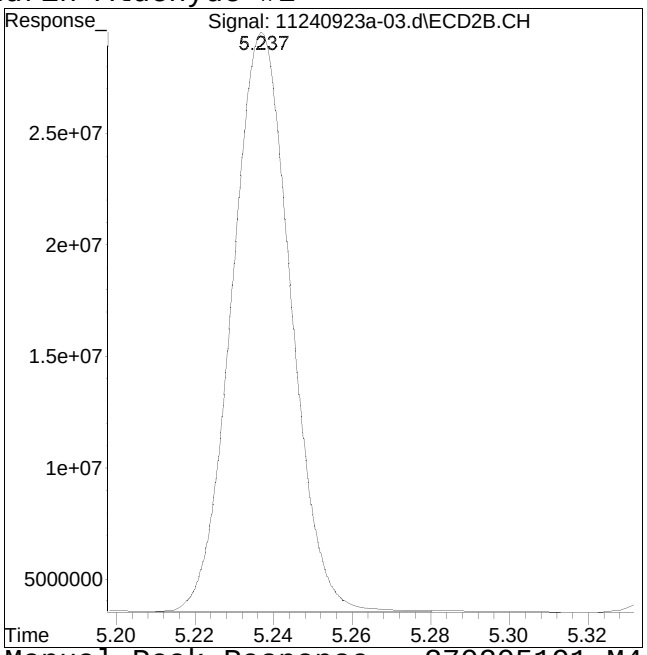
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 300999182



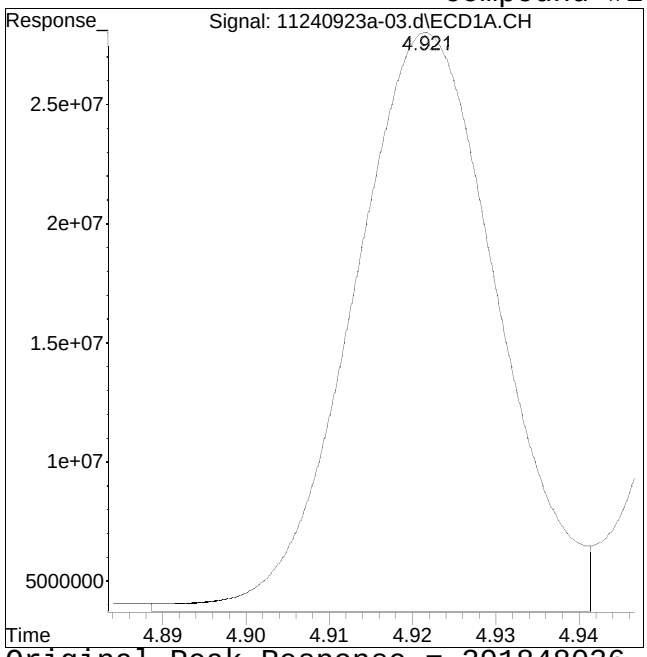
Manual Peak Response = 270205191 M4

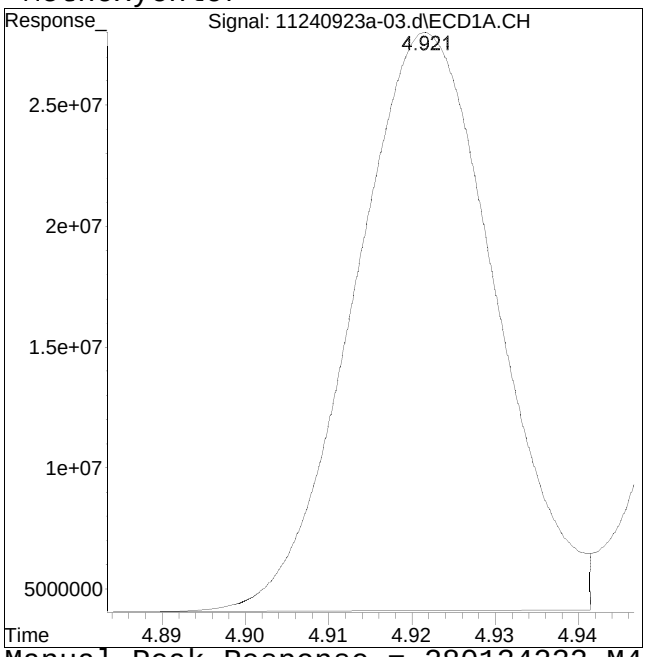
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #23: Methoxychlor



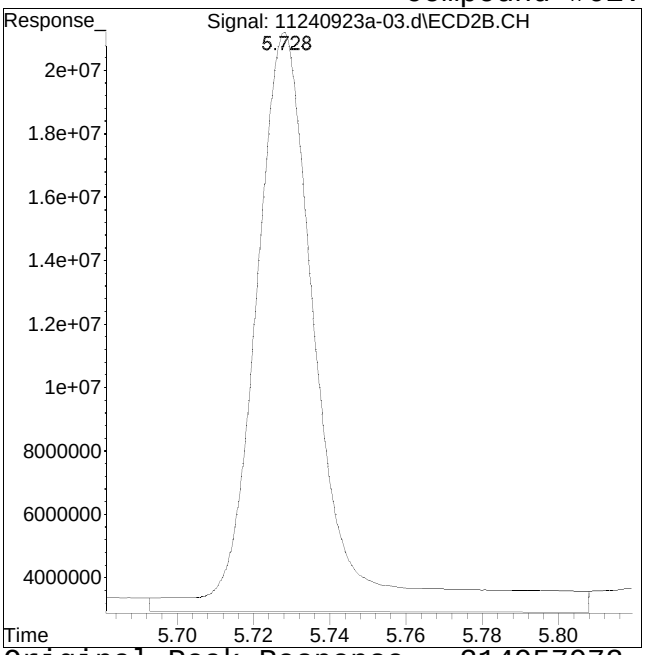


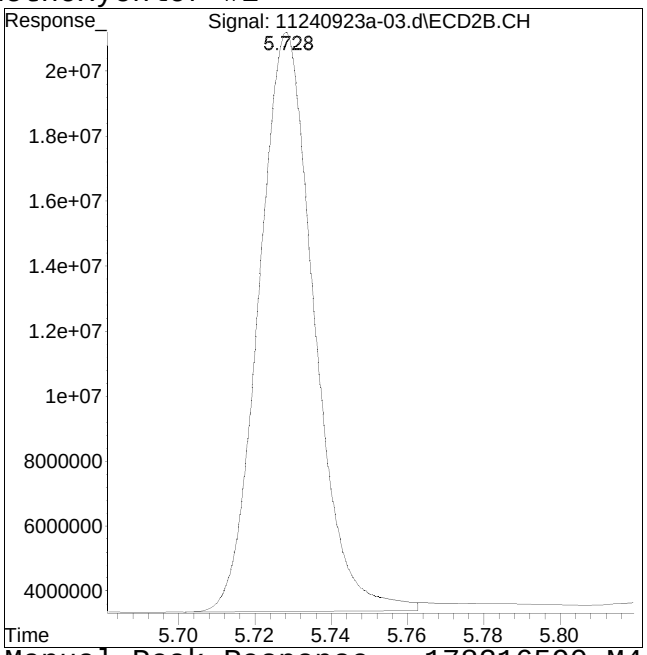
Original Peak Response = 291848036 Manual Peak Response = 280134232 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #61: Methoxychlor #2



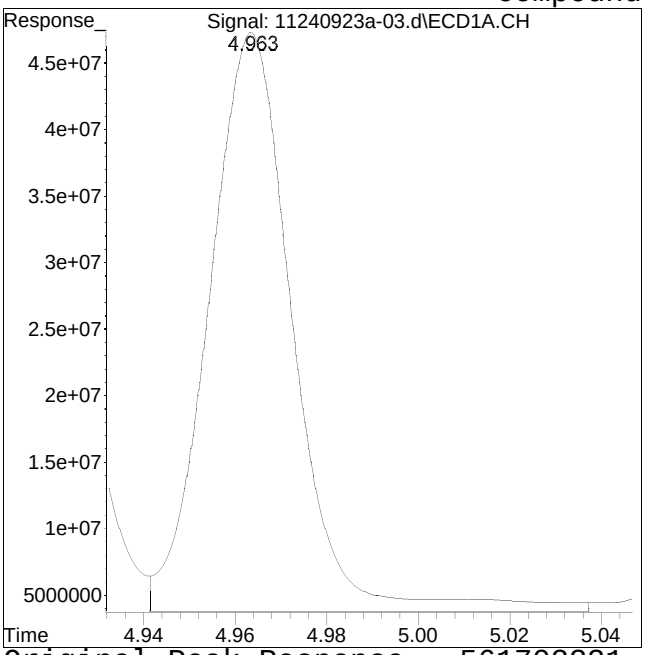


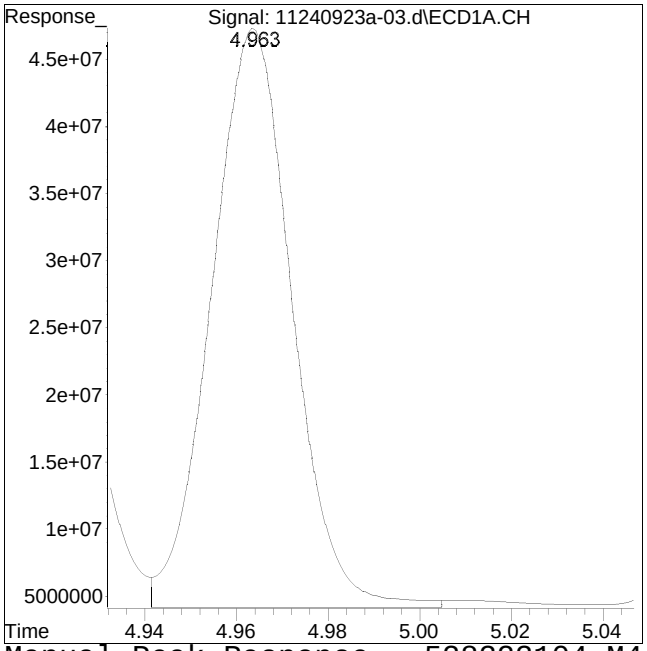
Original Peak Response = 214957972 Manual Peak Response = 178316590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #24: Mirex



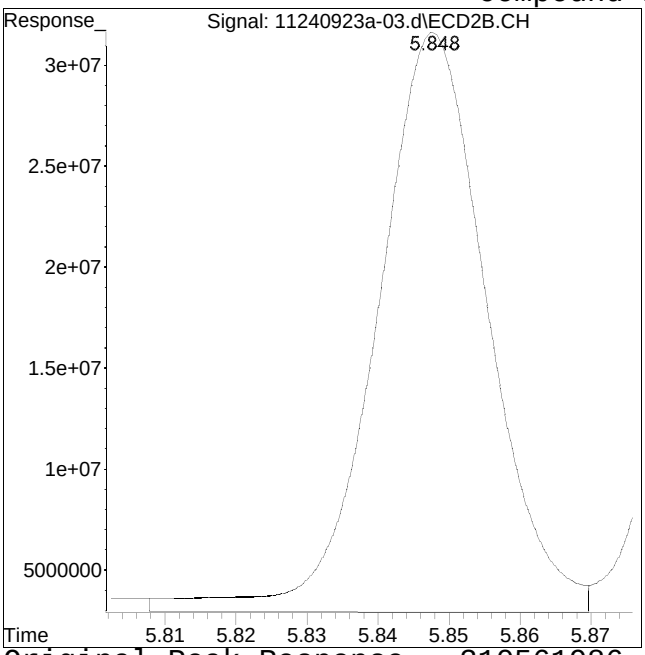


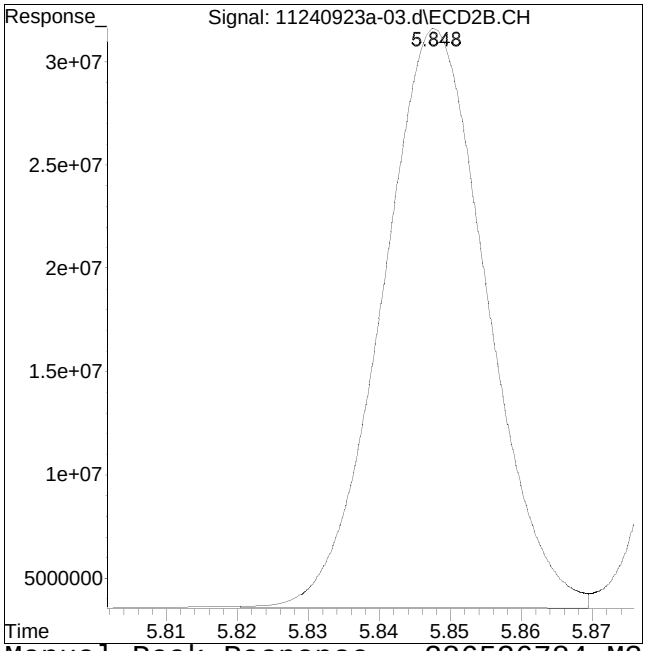
Original Peak Response = 561702331 Manual Peak Response = 528323104 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #62: Mirex #2



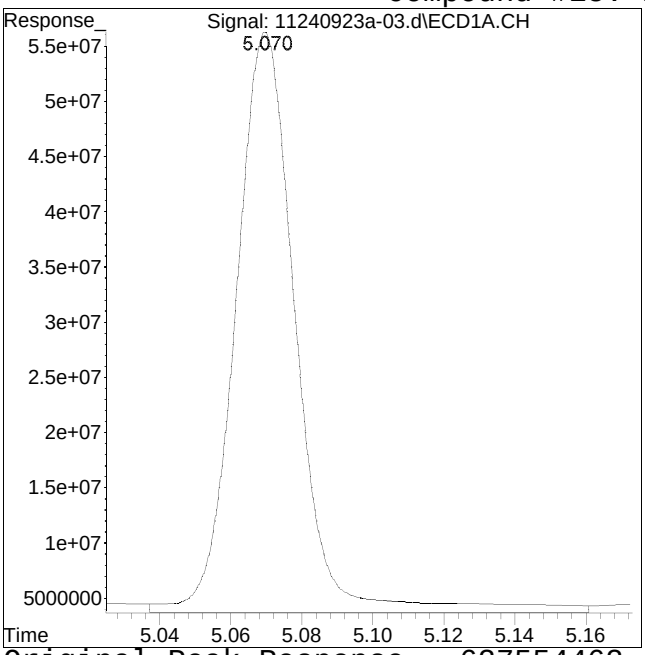


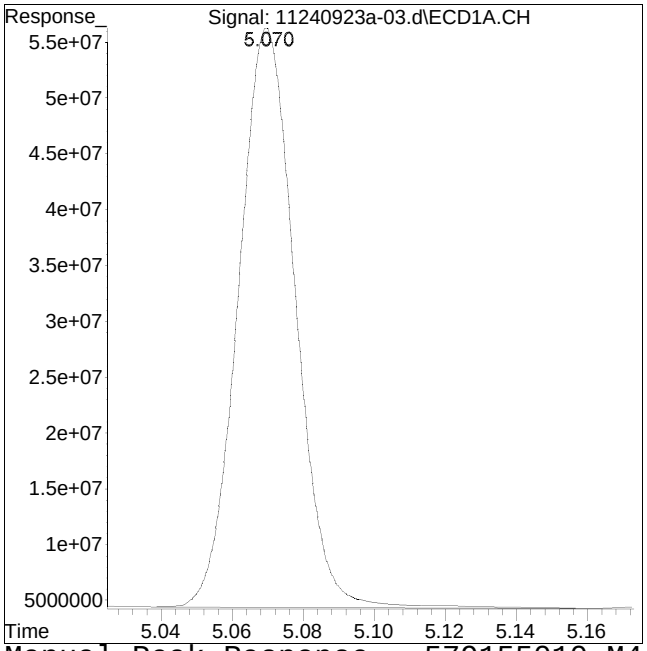
Original Peak Response = 310561986 Manual Peak Response = 286536784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #25: Endosulfan Sulfate



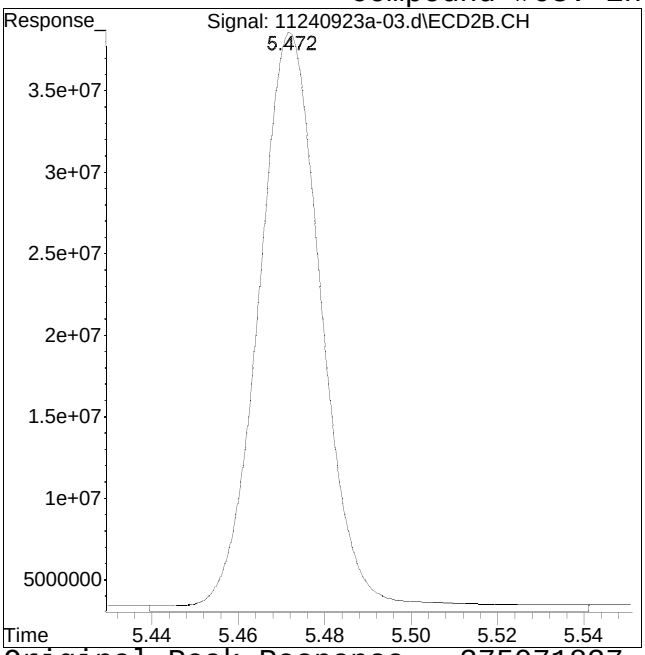


Original Peak Response = 627554462 Manual Peak Response = 579155010 M4
M4 = Poor automated baseline construction.

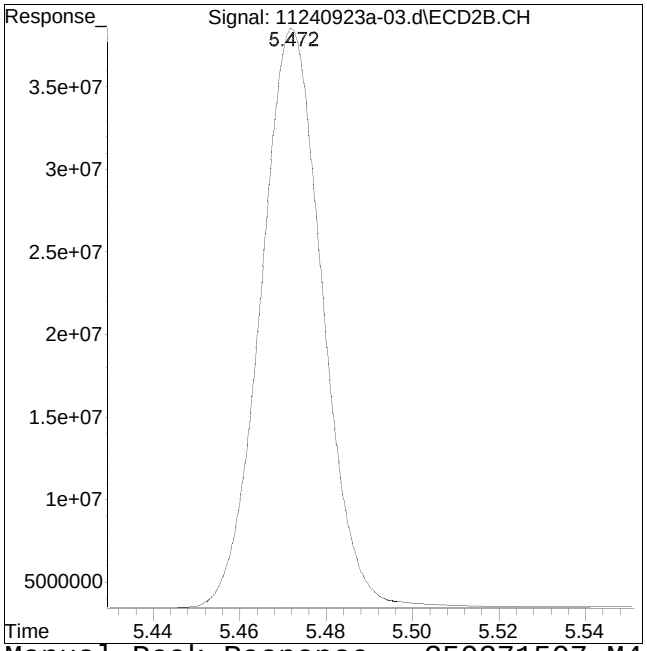
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 375071837

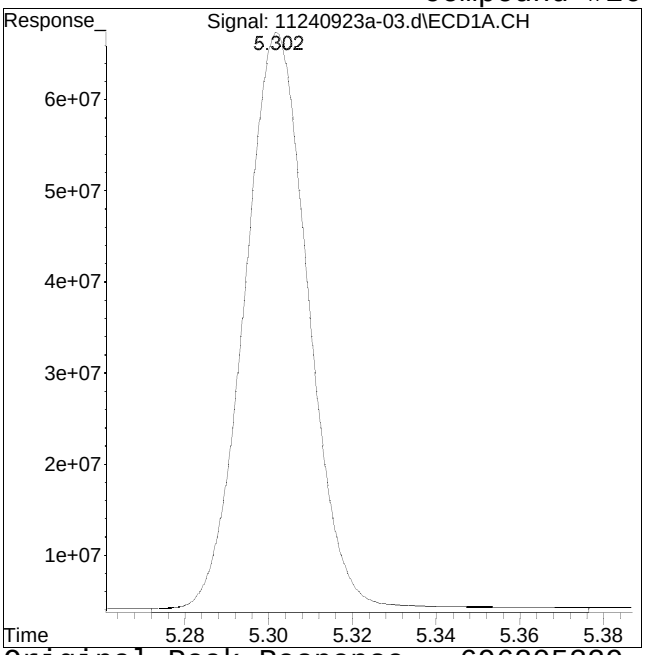


Manual Peak Response = 350371507 M4
M4 = Poor automated baseline construction.

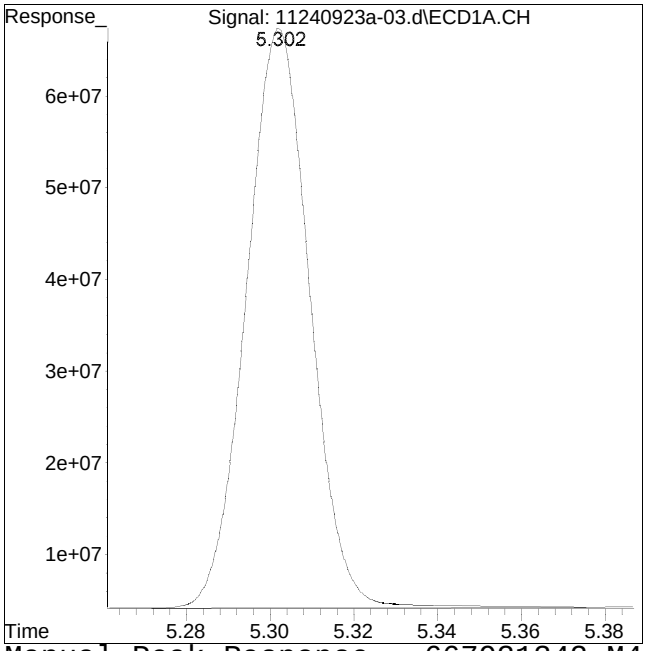
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #26: Endrin Ketone



Original Peak Response = 696205329

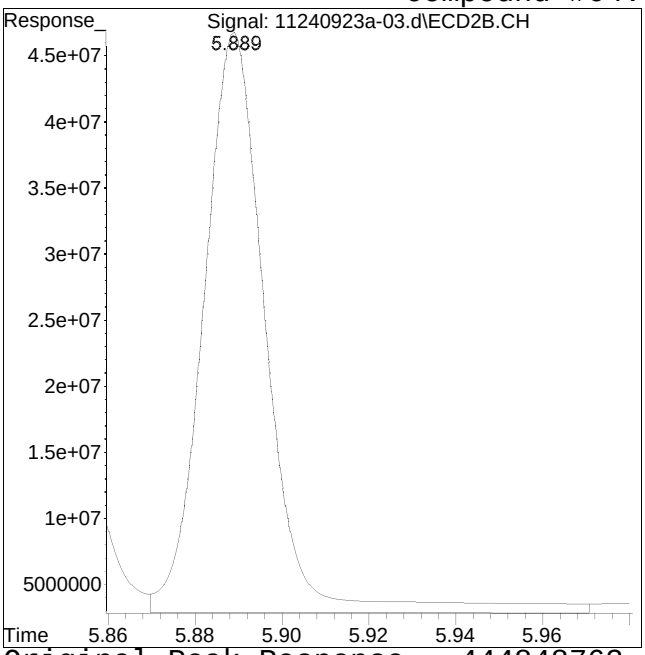


Manual Peak Response = 667931342 M4
M4 = Poor automated baseline construction.

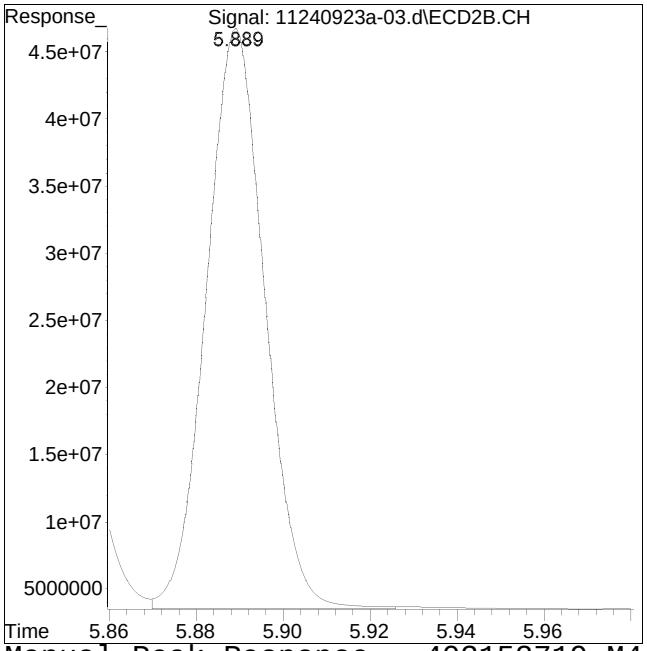
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #64: Endrin Ketone #2



Original Peak Response = 444848763



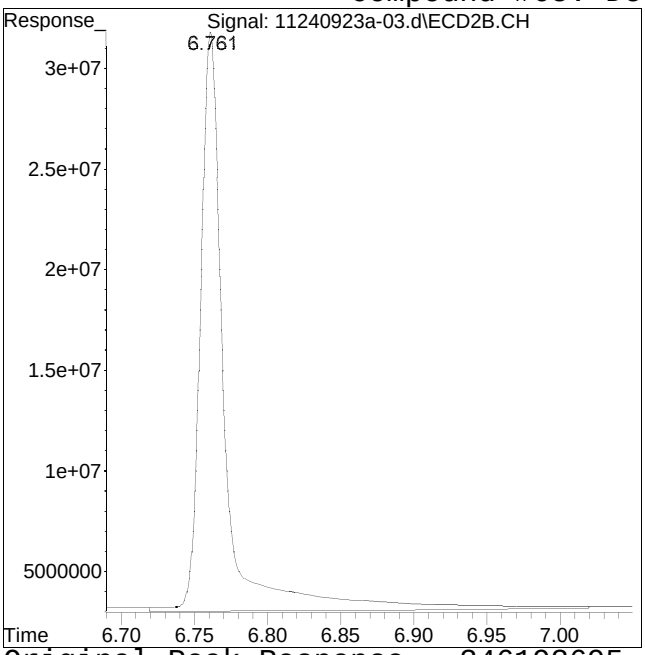
Manual Peak Response = 403153719 M4

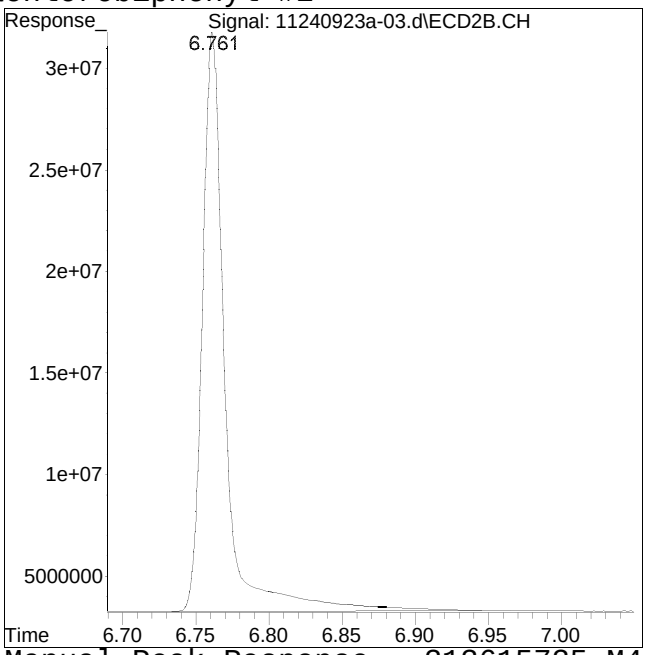
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-03.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:17 Instrument : Pest 11
Sample : wg1974956-1,42,,pest11675 Quant Date : 9/23/2024 7:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 346193695 Manual Peak Response = 313615735 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:29
Operator : PEST11:peg
Sample   : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	127	0.00
29	l1	chlordane-1		*1000.000	1169.050	-16.9	144	0.00
30	l1	chlordane-3		*1000.000	1166.768	-16.7	139	0.00
31	l1	chlordane-4		*1000.000	1158.186	-15.8	140	0.00
32	l1	chlordane-5		*1000.000	1299.727	-30.0#	156	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	110	0.00
29	l1	chlordane-1		*1000.000	912.050	8.8	94	0.00
30	l1	chlordane-3		*1000.000	945.557	5.4	94	0.00
31	l1	chlordane-4		*1000.000	855.735	14.4	88	0.00
32	l1	chlordane-5		*1000.000	854.722	14.5	88	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.20#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.52#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.73#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.82#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.01#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.06#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.19#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.34#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.57#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.69#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.78#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.09#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.21#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:29
Operator : PEST11:peg
Sample   : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.34#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.44#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.47#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.72#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.97#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.09#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.22#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.40#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.66#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.92#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.96#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.07#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.30#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.13#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.20#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.21#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.35#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.59#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.97#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.27#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.72#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.11#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.38#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.44#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.70#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:29
Operator : PEST11:peg
Sample   : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.75#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.06#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.95#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.29#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.65#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.86#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.03#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.25#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.09#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.40#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.72#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.86#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.93#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.14#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.24#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.73#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.85#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.47#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.89#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.76#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.27#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.89#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.92#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.25#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:29
Operator : PEST11:peg
Sample : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.196	1.269	281.5E6	203.6E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:29
Operator : PEST11:peg
Sample : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.281	2.625	479.1E6	276.4E6	1169.050	912.050	
30) l1	chlordane-3	2.679	3.204	555.5E6	315.0E6	1166.768	945.557	
31) l1	chlordane-4	3.212	3.861	2029.3E6	1088.3E6	1158.186	855.735	
32) l1	chlordane-5	3.333	4.030	3495.4E6	835.1E6	1299.727	854.722	
Sum	chlordane-1			6559.3E6	2514.8E6	N.D.	N.D.	D
Average	chlordane-1					1198.433	892.016	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

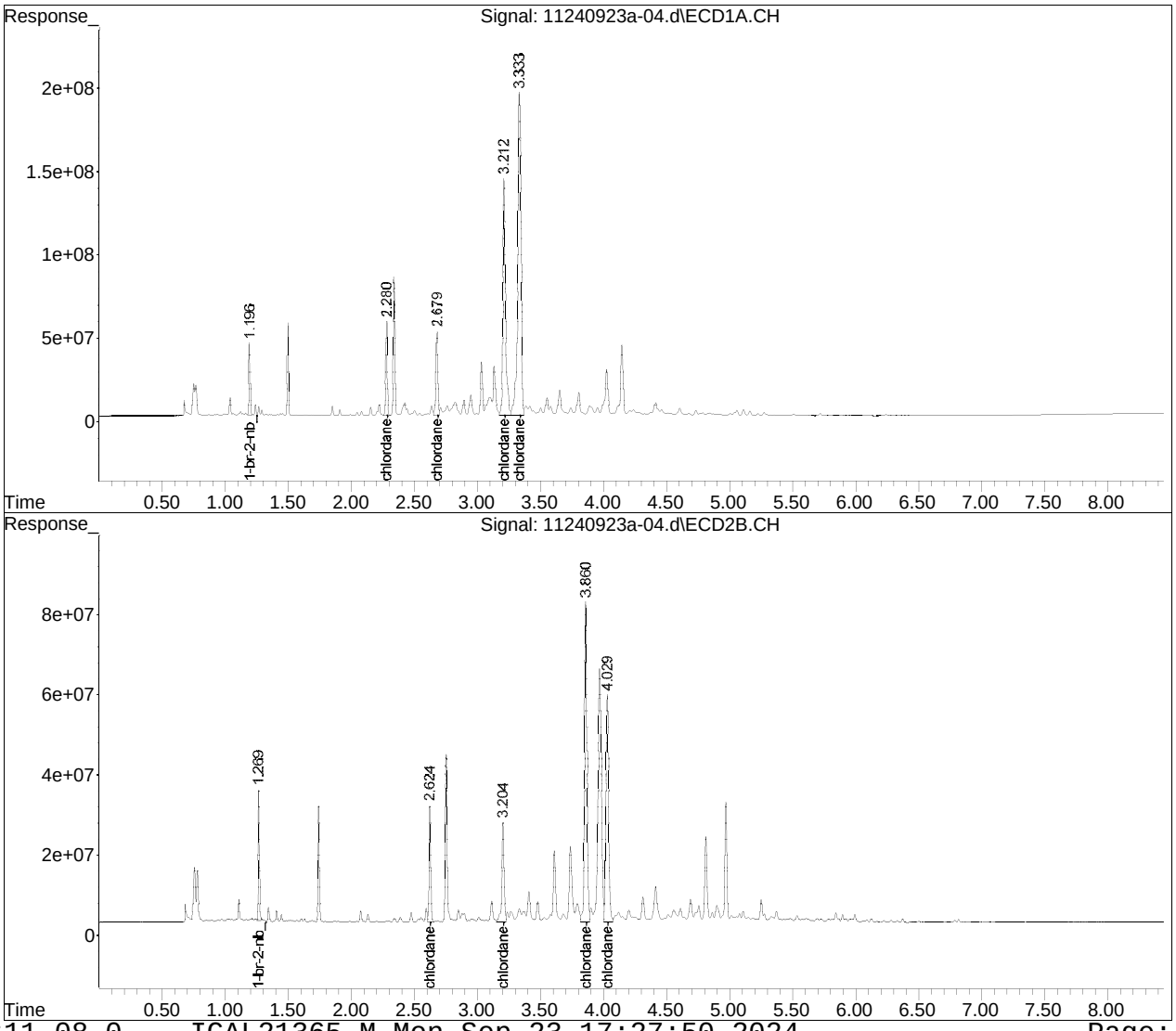
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:29
Operator : PEST11:peg
Sample : wg1974956-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:51:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:51:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

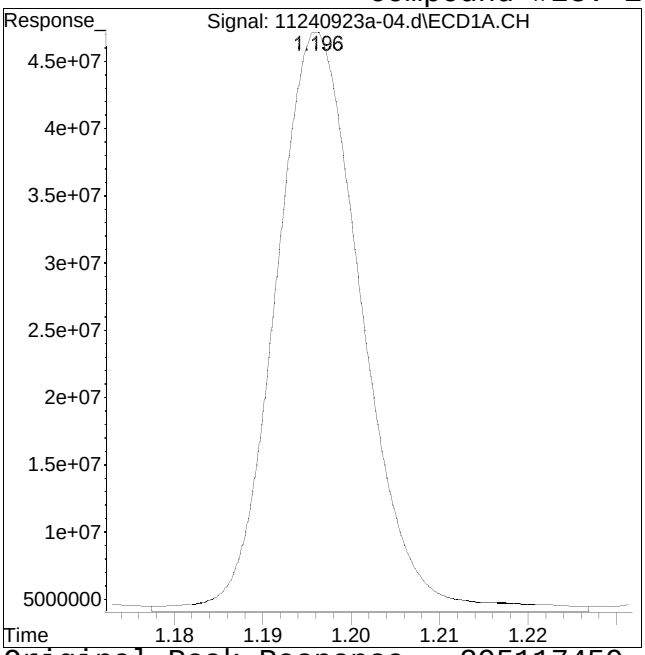
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

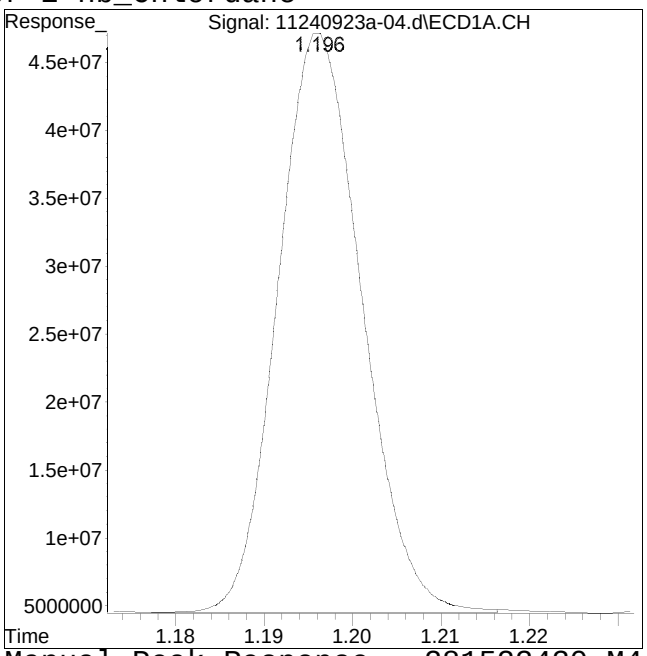


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-04.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:29 Instrument : Pest 11
Sample : wg1974956-2,42,,chlor11670Quant Date : 9/23/2024 7:51 am

Compound #28: 1-br-2-nb_Chlordane



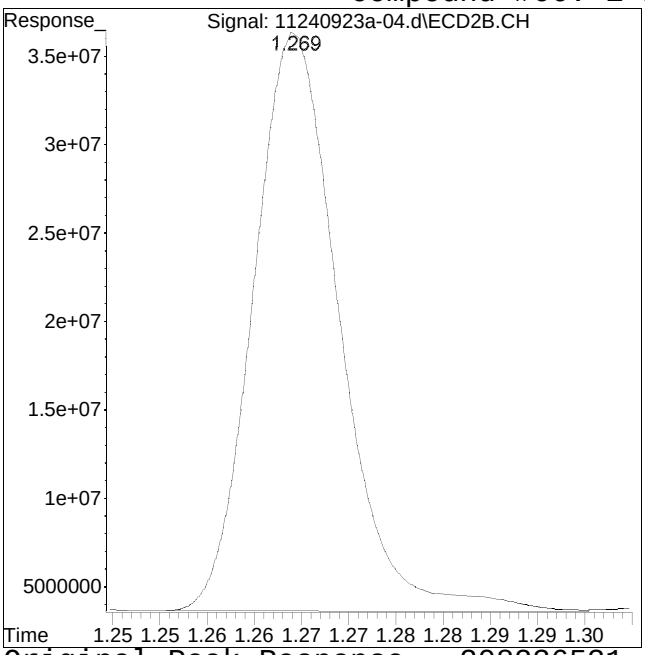


Original Peak Response = 295117459 Manual Peak Response = 281523430 M4
M4 = Poor automated baseline construction.

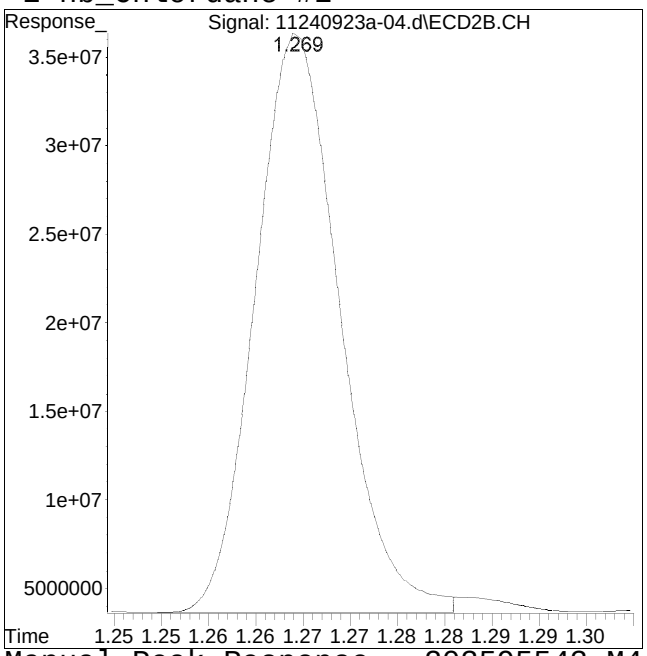
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-04.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:29 Instrument : Pest 11
Sample : wg1974956-2,42,,chlor11670Quant Date : 9/23/2024 7:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 208236531



Manual Peak Response = 203595543 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:41
Operator : PEST11:peg
Sample   : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	128	0.00
34	l2	toxaphene-2		*2000.000	2584.173	-29.2#	160	0.00
35	l2	toxaphene-3		*2000.000	2487.895	-24.4#	154	0.00
36	l2	toxaphene-4		*2000.000	2147.240	-7.4	135	0.00
37	l2	toxaphene-5		*2000.000	2329.638	-16.5	145	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	108	0.00
34	l2	toxaphene-2		*2000.000	1898.648	5.1	102	0.00
35	l2	toxaphene-3		*2000.000	2010.381	-0.5	108	0.00
36	l2	toxaphene-4		*2000.000	1837.040	8.1	99	0.00
37	l2	toxaphene-5		*2000.000	1968.873	1.6	106	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.20#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.52#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.73#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.82#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.01#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.06#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.19#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.34#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.57#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.69#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.78#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.09#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.21#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:41
Operator : PEST11:peg
Sample   : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.34#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.44#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.47#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.72#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.97#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.09#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.22#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.40#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.66#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.92#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.96#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.07#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.30#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.13#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.20#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.28#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.68#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.21#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.33#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.27#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.72#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.11#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.38#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.44#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.70#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Sep 2024   7:41
Operator : PEST11:peg
Sample   : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.75#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.06#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.95#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.29#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.65#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.86#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.03#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.25#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.09#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.40#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.72#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.86#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.93#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.14#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.24#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.73#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.85#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.47#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.89#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.76#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.27#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.62#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.20#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.86#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.03#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:41
Operator : PEST11:peg
Sample : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.196	1.270	278.3E6	188.6E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:41
Operator : PEST11:peg
Sample : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.213	4.889	1601.3E6	337.5E6	2584.173	1898.648
35) l2	toxaphene-3	4.345	4.916	1204.6E6	528.5E6	2487.895M3	2010.381
36) l2	toxaphene-4	4.589	5.246	1046.5E6	579.8E6	2147.240	1837.040
37) l2	toxaphene-5	4.975	5.662	1029.6E6	572.4E6	2329.638	1968.873
Sum	toxaphene-2			4882.0E6	2018.2E6	9548.945	7714.942
Average	toxaphene-2					2387.236	1928.736

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			4882.0E6	2018.2E6	9548.945	7714.942
Average	toxaphene-2					2387.236	1928.736

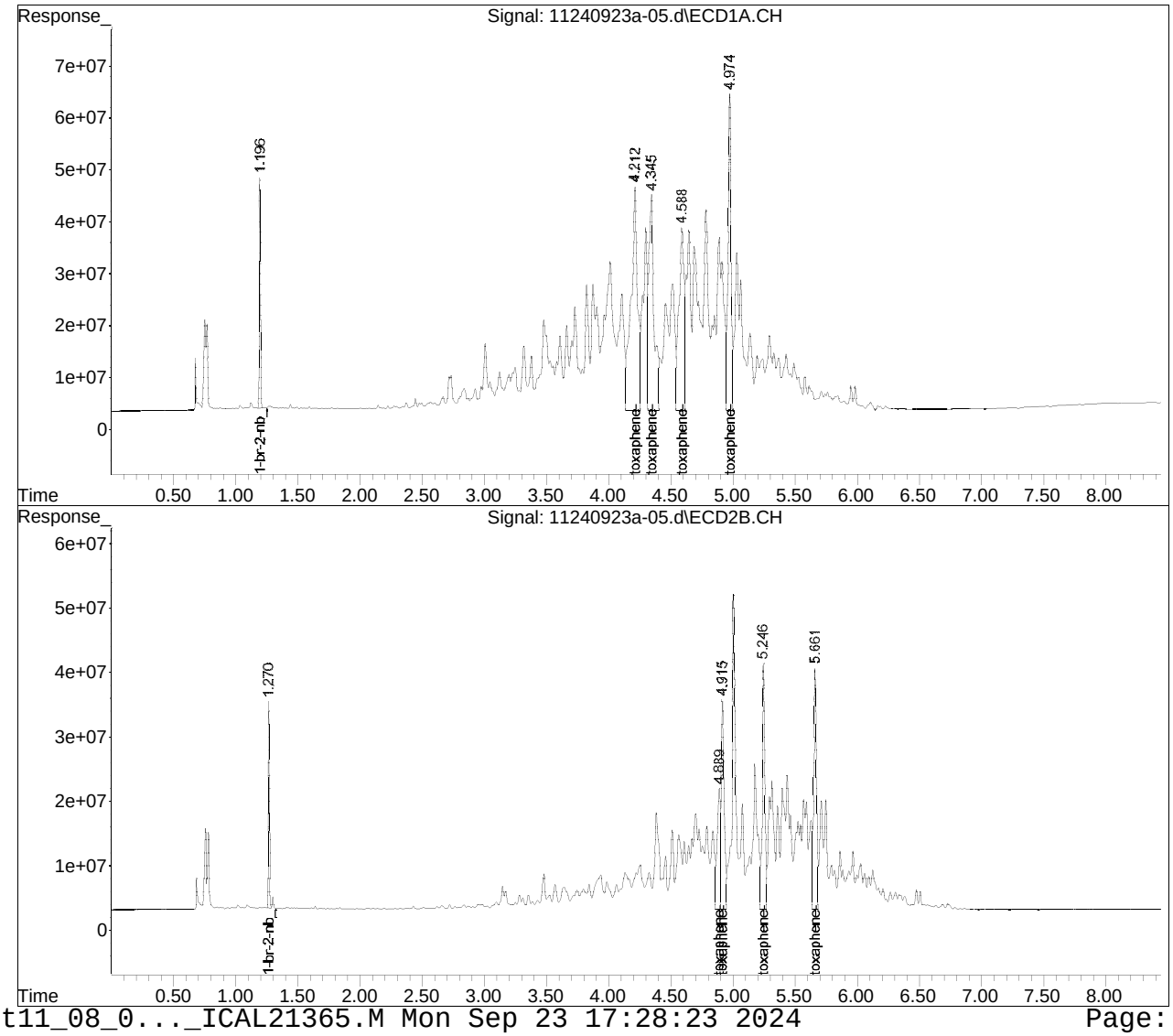
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:41
Operator : PEST11:peg
Sample : wg1974956-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:53:45 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

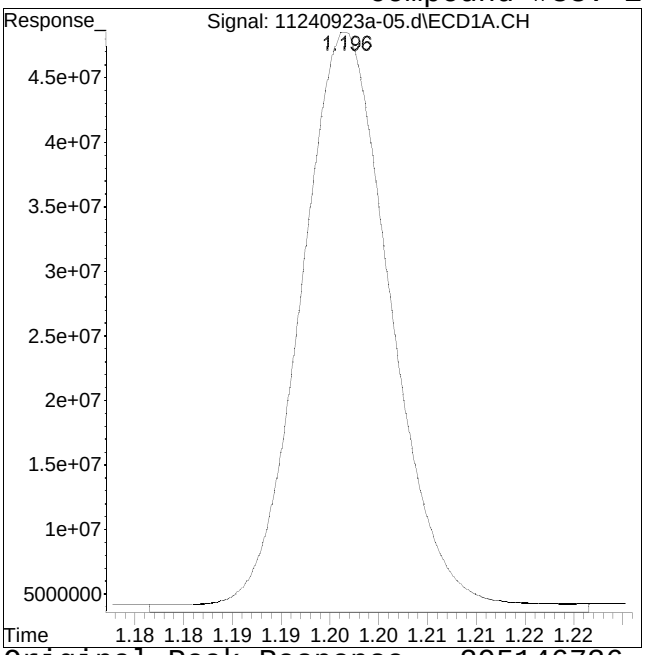
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

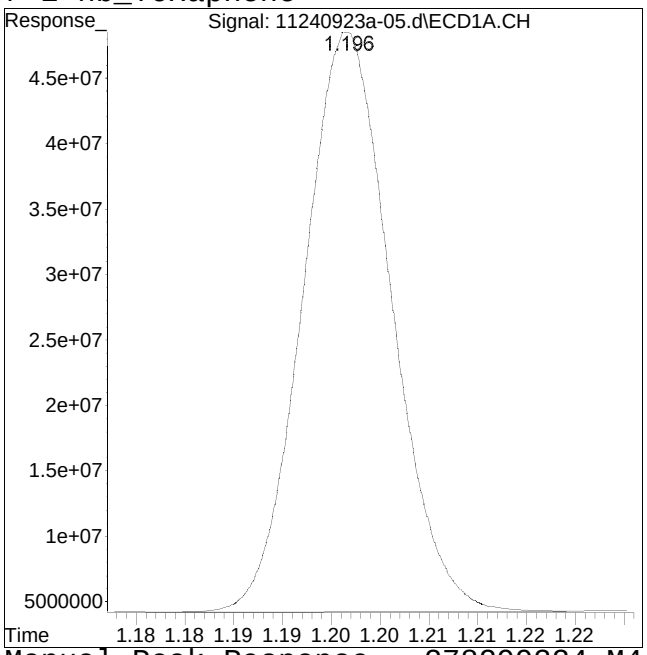


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-05.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:41 Instrument : Pest 11
Sample : wg1974956-3,42,,tox11668 Quant Date : 9/23/2024 7:53 am

Compound #33: 1-br-2-nb_Toxaphene



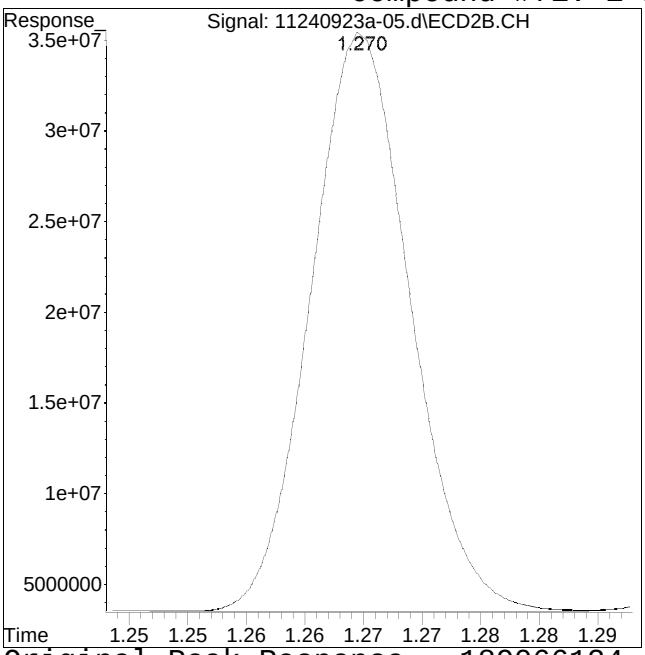


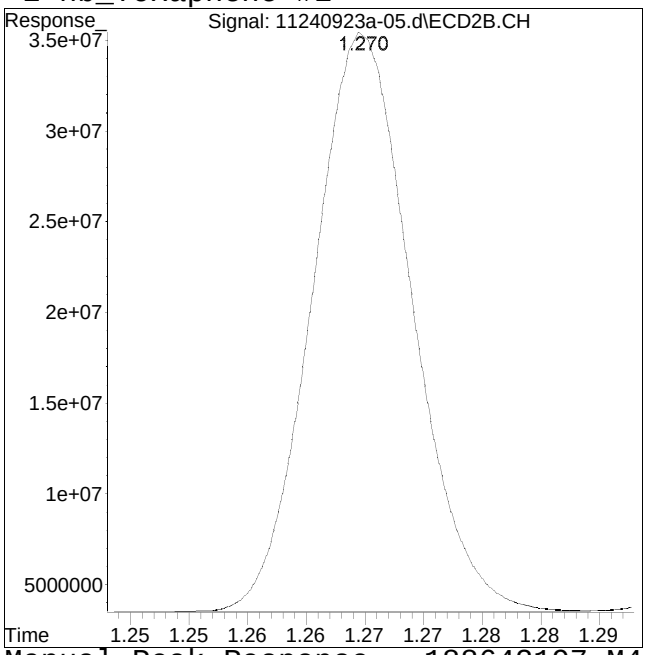
Original Peak Response = 295146736 Manual Peak Response = 278299324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-05.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:41 Instrument : Pest 11
Sample : wg1974956-3,42,,tox11668 Quant Date : 9/23/2024 7:53 am

Compound #71: 1-br-2-nb_Toxaphene #2



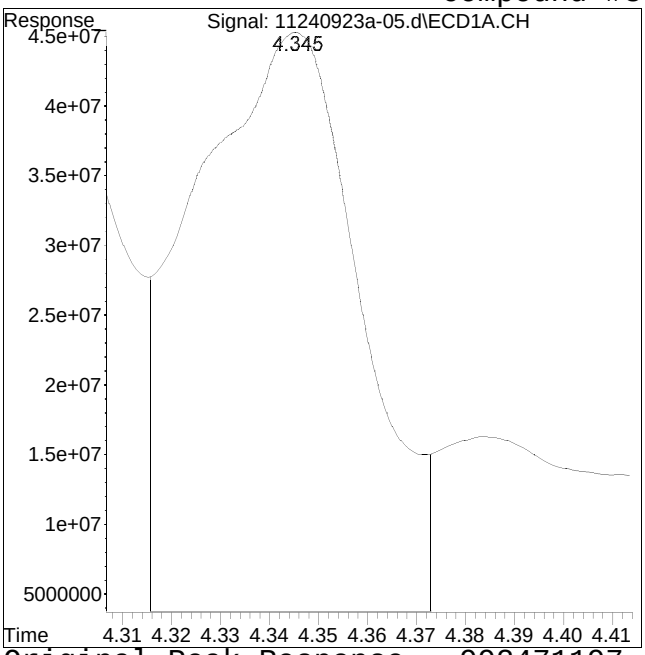


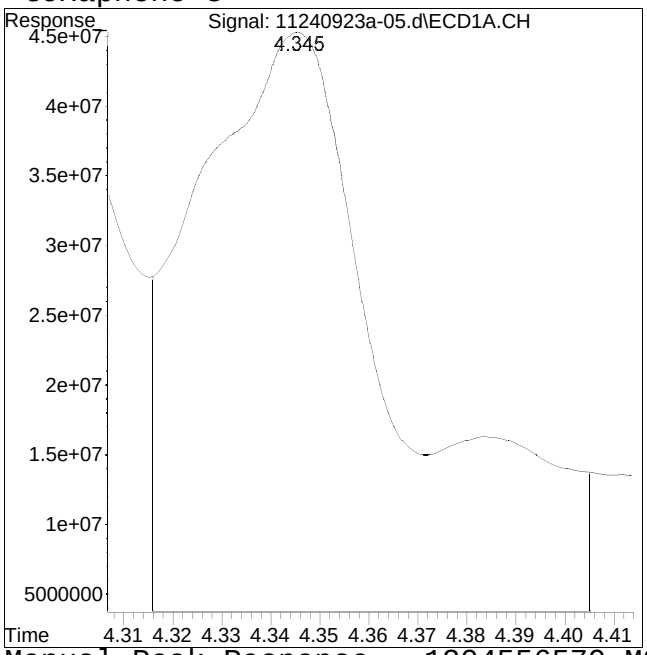
Original Peak Response = 189066124 Manual Peak Response = 188642197 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-05.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:41 Instrument : Pest 11
Sample : wg1974956-3,42,,tox11668 Quant Date : 9/23/2024 7:53 am

Compound #35: toxaphene-3





Original Peak Response = 992471197 Manual Peak Response = 1204556579 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample   : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	113	0.00
29	l1	chlordane-1		0.078	0.054	30.8#	96	0.00
30	l1	chlordane-3		0.050	0.043	14.0	123	0.00
31	l1	chlordane-4		0.176	0.153	13.1	124	0.00
32	l1	chlordane-5		0.270	0.258	4.4	137	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	99	0.00
29	l1	chlordane-1		0.041	0.039	4.9	113	0.00
30	l1	chlordane-3		0.046	0.040	13.0	114	0.00
31	l1	chlordane-4		0.164	0.147	10.4	107	0.00
32	l1	chlordane-5		0.131	0.107	18.3	101	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.71#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	0.000	100.0#	0#	-2.15#
3		Hexachlorobenzene		1.431	0.000	100.0#	0#	-2.39#
4		alpha-BHC		1.531	0.000	100.0#	0#	-2.50#
5		gamma-BHC (lindane)		1.404	0.000	100.0#	0#	-2.73#
6		beta-BHC		0.638	0.000	100.0#	0#	-2.79#
7		delta-BHC		1.404	0.000	100.0#	0#	-2.92#
8		Heptachlor		1.315	0.000	100.0#	0#	-3.10#
9		Aldrin		1.284	0.000	100.0#	0#	-3.35#
10		Alachlor		0.194	0.000	100.0#	0#	-3.49#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.58#
12		Heptachlor Epoxide		1.161	0.000	100.0#	0#	-3.91#
13		gamma-Chlordane (trans)		1.140	0.000	100.0#	0#	-4.04#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample   : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.273	0.000	100.0#	0#	-4.18#
15		4,4'-DDE		1.268	0.000	100.0#	0#	-4.28#
16		Endosulfan I		1.138	0.000	100.0#	0#	-4.31#
17		Dieldrin		1.209	0.000	100.0#	0#	-4.58#
18		Endrin		1.209	0.000	100.0#	0#	-4.84#
19		4,4'-DDD		0.982	0.000	100.0#	0#	-4.96#
20		Endosulfan II		1.096	0.000	100.0#	0#	-5.08#
21		4,4'-DDT		1.107	0.000	100.0#	0#	-5.26#
22		Endrin Aldehyde		0.923	0.000	100.0#	0#	-5.51#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.76#
24		Mirex	*	50.000	0.000	100.0#	0	-5.81#
25		Endosulfan Sulfate		1.087	0.000	100.0#	0#	-5.91#
26		Endrin Ketone		1.216	0.000	100.0#	0#	-6.14#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.95#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.71#
34	l2	toxaphene-1		0.050	0.000	100.0#	0#	-5.07#
35	l2	toxaphene-2		0.054	0.000	100.0#	0#	-5.20#
36	l2	toxaphene-3		0.055	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-4		0.055	0.000	100.0#	0#	-5.82#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.81#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	0.000	100.0#	0#	-2.37#
3		Hexachlorobenzene		1.260	0.000	100.0#	0#	-2.71#
4		alpha-BHC		1.569	0.000	100.0#	0#	-2.82#
5		gamma-BHC (lindane)		1.462	0.000	100.0#	0#	-3.12#
6		beta-BHC		0.679	0.000	100.0#	0#	-3.19#
7		delta-BHC		1.445	0.000	100.0#	0#	-3.46#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample   : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.318	0.000	100.0#	0#	-3.52#
9		Aldrin		1.307	0.000	100.0#	0#	-3.84#
10		Alachlor		0.196	0.000	100.0#	0#	-3.74#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.09#
12		Heptachlor Epoxide		1.247	0.000	100.0#	0#	-4.47#
13		gamma-Chlordane (trans)		1.137	0.000	100.0#	0#	-4.69#
14		alpha-Chlordane (cis)		1.268	0.000	100.0#	0#	-4.86#
15		4,4'-DDE		1.245	0.000	100.0#	0#	-5.07#
16		Endosulfan I		1.167	0.000	100.0#	0#	-4.93#
17		Dieldrin		1.196	0.000	100.0#	0#	-5.23#
18		Endrin		1.197	0.000	100.0#	0#	-5.54#
19		4,4'-DDD		0.976	0.000	100.0#	0#	-5.67#
20		Endosulfan II		1.072	0.000	100.0#	0#	-5.74#
21		4,4'-DDT		1.070	0.000	100.0#	0#	-5.95#
22		Endrin Aldehyde		0.903	0.000	100.0#	0#	-6.04#
23		Methoxychlor		0.581	0.000	100.0#	0#	-6.53#
24		Mirex		0.903	0.000	100.0#	0#	-6.65#
25		Endosulfan Sulfate		1.032	0.000	100.0#	0#	-6.28#
26		Endrin Ketone		1.116	0.000	100.0#	0#	-6.69#
27	s	Decachlorobiphenyl		0.953	0.000	100.0#	0#	-7.57#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.81#
34	l2	toxaphene-1		0.025	0.000	100.0#	0#	-5.70#
35	l2	toxaphene-2		0.038	0.000	100.0#	0#	-5.73#
36	l2	toxaphene-3		0.045	0.000	100.0#	0#	-6.05#
37	l2	toxaphene-4		0.040	0.000	100.0#	0#	-6.47#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.713	1.810	665.1E6	362.2E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	3.095	3.382	1432.6E6	564.2E6	692.709	942.640	
30) l1	chlordane-3	3.468	4.001	1152.7E6	586.1E6	868.382	884.537	
31) l1	chlordane-4	4.040	4.690	4065.8E6	2123.9E6	866.347	891.573	
32) l1	chlordane-5	4.168	4.865	6868.2E6	1553.3E6	955.548	820.780	
Sum	chlordane-1			13519.2E6	4827.5E6	N.D.	N.D.	D
Average	chlordane-1					845.746	884.882	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

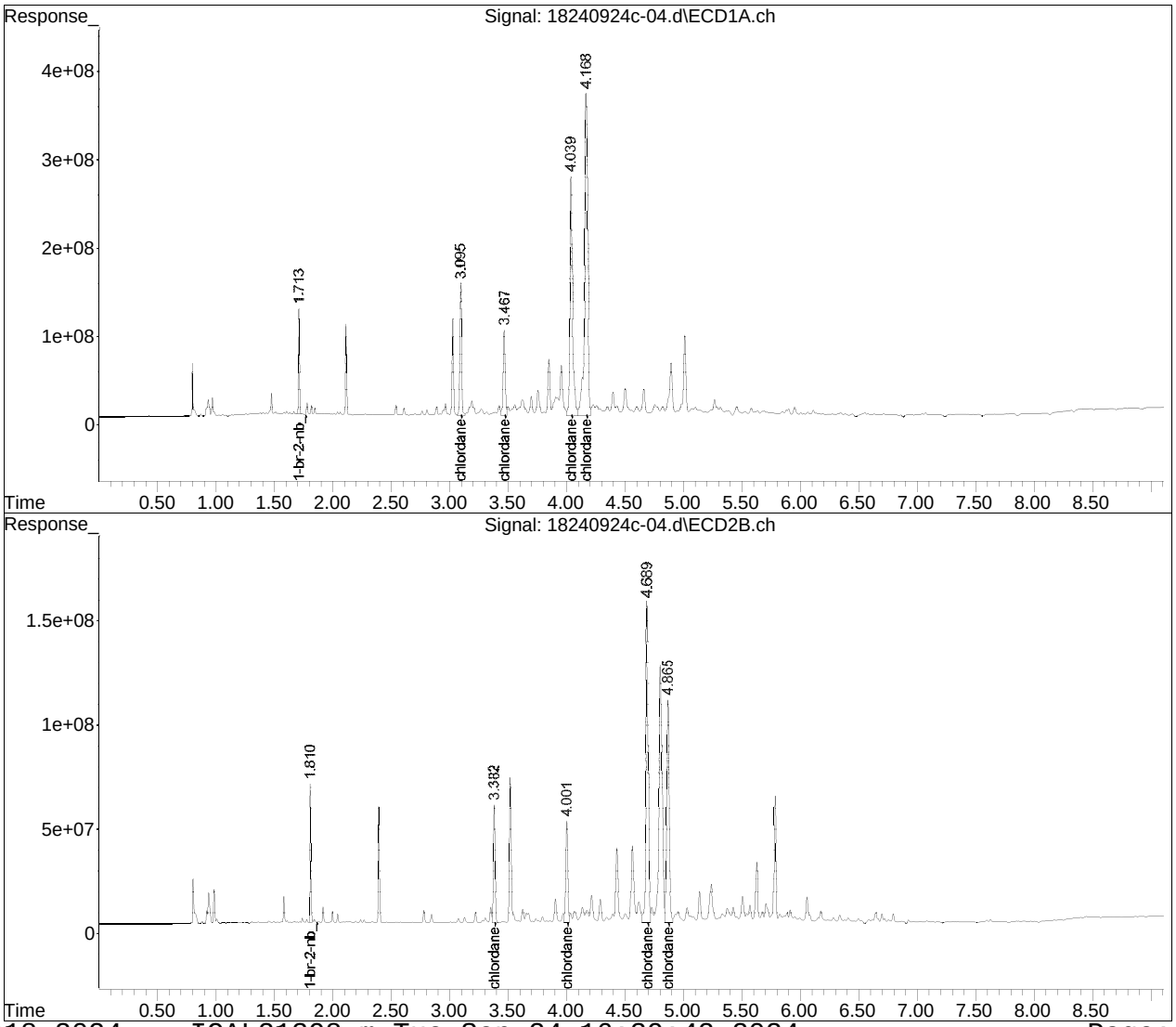
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:15
Operator : PEST18:akm
Sample : wg1975559-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:28:23 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:28:17 2024
Response via : Initial Calibration
Integrator: ChemStation

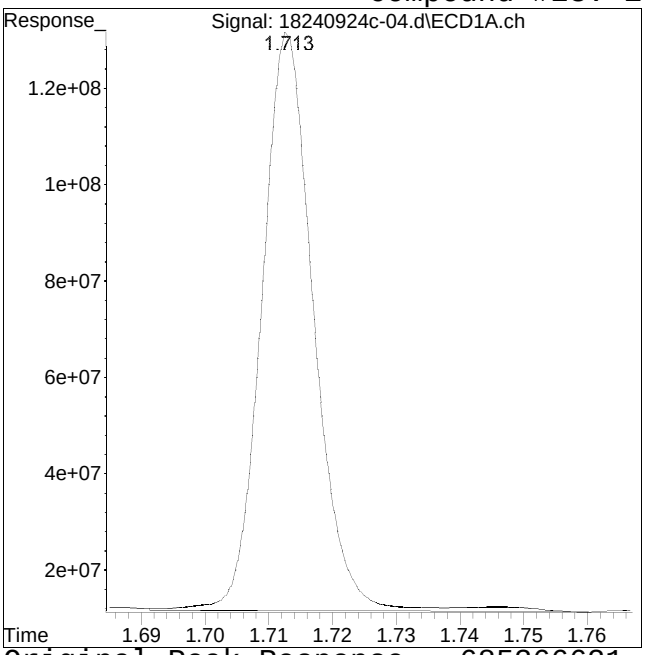
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



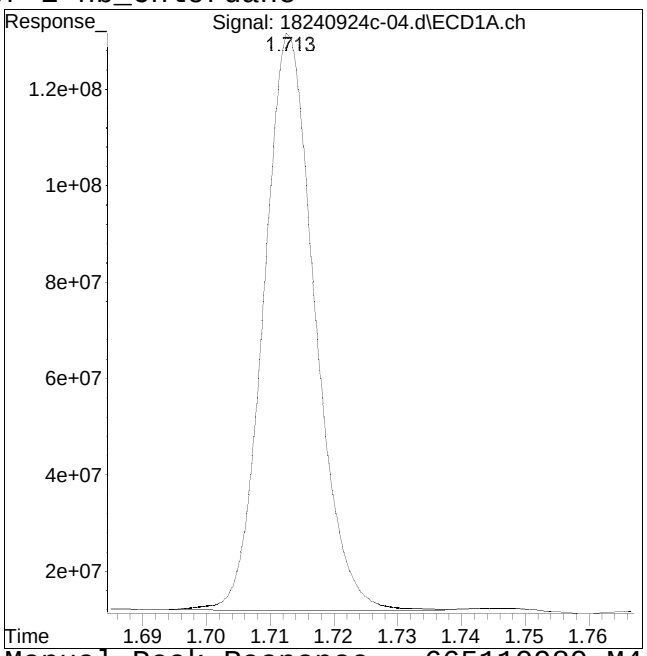
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-04.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:15 Instrument : Pest 18
Sample : wg1975559-2,42,,chlor11670Quant Date : 9/24/2024 10:28 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 685366621



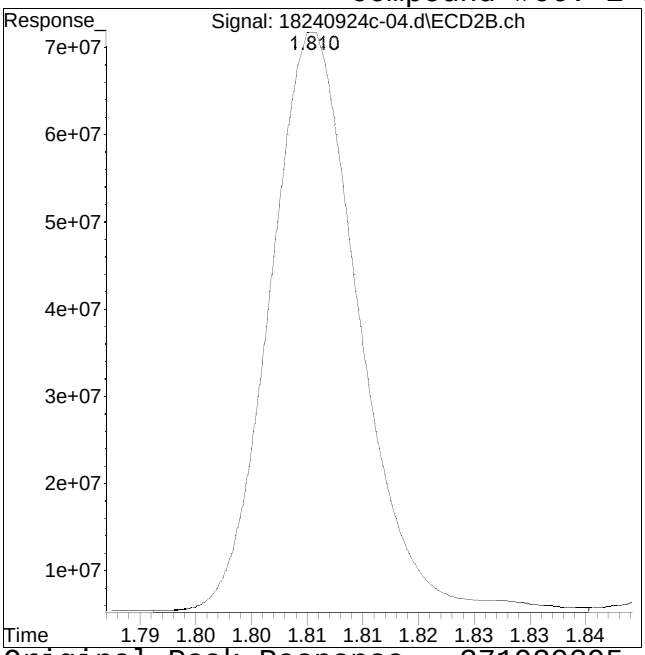
Manual Peak Response = 665110980 M4

M4 = Poor automated baseline construction.

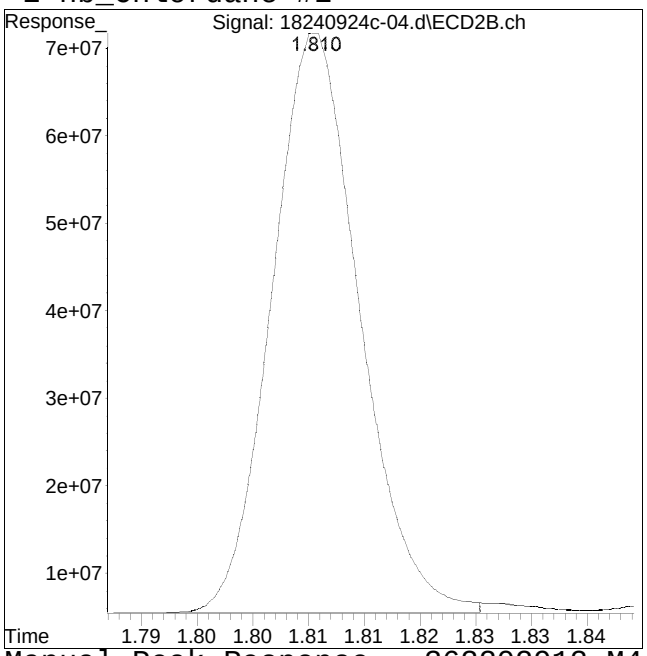
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-04.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:15 Instrument : Pest 18
Sample : wg1975559-2,42,,chlor11670Quant Date : 9/24/2024 10:28 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 371929295



Manual Peak Response = 362202912 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample   : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	125	0.00
34	l2	toxaphene-1		0.050	0.038	24.0#	94	0.00
35	l2	toxaphene-2		0.054	0.042	22.2#	94	0.00
36	l2	toxaphene-3		0.055	0.037	32.7#	86	0.00
37	l2	toxaphene-4		0.055	0.035	36.4#	89	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	104	0.00
34	l2	toxaphene-1		0.025	0.022	12.0	88	0.00
35	l2	toxaphene-2		0.038	0.033	13.2	92	0.00
36	l2	toxaphene-3		0.045	0.036	20.0	83	0.00
37	l2	toxaphene-4		0.040	0.034	15.0	87	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.71#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	0.000	100.0#	0#	-2.15#
3		Hexachlorobenzene		1.431	0.000	100.0#	0#	-2.39#
4		alpha-BHC		1.531	0.000	100.0#	0#	-2.50#
5		gamma-BHC (lindane)		1.404	0.000	100.0#	0#	-2.73#
6		beta-BHC		0.638	0.000	100.0#	0#	-2.79#
7		delta-BHC		1.404	0.000	100.0#	0#	-2.92#
8		Heptachlor		1.315	0.000	100.0#	0#	-3.10#
9		Aldrin		1.284	0.000	100.0#	0#	-3.35#
10		Alachlor		0.194	0.000	100.0#	0#	-3.49#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.58#
12		Heptachlor Epoxide		1.161	0.000	100.0#	0#	-3.91#
13		gamma-Chlordane (trans)		1.140	0.000	100.0#	0#	-4.04#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample   : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.273	0.000	100.0#	0#	-4.18#
15		4,4'-DDE		1.268	0.000	100.0#	0#	-4.28#
16		Endosulfan I		1.138	0.000	100.0#	0#	-4.31#
17		Dieldrin		1.209	0.000	100.0#	0#	-4.58#
18		Endrin		1.209	0.000	100.0#	0#	-4.84#
19		4,4'-DDD		0.982	0.000	100.0#	0#	-4.96#
20		Endosulfan II		1.096	0.000	100.0#	0#	-5.08#
21		4,4'-DDT		1.107	0.000	100.0#	0#	-5.26#
22		Endrin Aldehyde		0.923	0.000	100.0#	0#	-5.51#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.76#
24		Mirex	*	50.000	0.000	100.0#	0	-5.81#
25		Endosulfan Sulfate		1.087	0.000	100.0#	0#	-5.91#
26		Endrin Ketone		1.216	0.000	100.0#	0#	-6.14#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.95#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.71#
29	l1	chlordane-1		0.078	0.000	100.0#	0#	-3.10#
30	l1	chlordane-3		0.050	0.000	100.0#	0#	-3.47#
31	l1	chlordane-4		0.176	0.000	100.0#	0#	-4.04#
32	l1	chlordane-5		0.270	0.000	100.0#	0#	-4.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.81#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	0.000	100.0#	0#	-2.37#
3		Hexachlorobenzene		1.260	0.000	100.0#	0#	-2.71#
4		alpha-BHC		1.569	0.000	100.0#	0#	-2.82#
5		gamma-BHC (lindane)		1.462	0.000	100.0#	0#	-3.12#
6		beta-BHC		0.679	0.000	100.0#	0#	-3.19#
7		delta-BHC		1.445	0.000	100.0#	0#	-3.46#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample   : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.318	0.000	100.0#	0#	-3.52#
9		Aldrin		1.307	0.000	100.0#	0#	-3.84#
10		Alachlor		0.196	0.000	100.0#	0#	-3.74#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.09#
12		Heptachlor Epoxide		1.247	0.000	100.0#	0#	-4.47#
13		gamma-Chlordane (trans)		1.137	0.000	100.0#	0#	-4.69#
14		alpha-Chlordane (cis)		1.268	0.000	100.0#	0#	-4.86#
15		4,4'-DDE		1.245	0.000	100.0#	0#	-5.07#
16		Endosulfan I		1.167	0.000	100.0#	0#	-4.93#
17		Dieldrin		1.196	0.000	100.0#	0#	-5.23#
18		Endrin		1.197	0.000	100.0#	0#	-5.54#
19		4,4'-DDD		0.976	0.000	100.0#	0#	-5.67#
20		Endosulfan II		1.072	0.000	100.0#	0#	-5.74#
21		4,4'-DDT		1.070	0.000	100.0#	0#	-5.95#
22		Endrin Aldehyde		0.903	0.000	100.0#	0#	-6.04#
23		Methoxychlor		0.581	0.000	100.0#	0#	-6.53#
24		Mirex		0.903	0.000	100.0#	0#	-6.65#
25		Endosulfan Sulfate		1.032	0.000	100.0#	0#	-6.28#
26		Endrin Ketone		1.116	0.000	100.0#	0#	-6.69#
27	s	Decachlorobiphenyl		0.953	0.000	100.0#	0#	-7.57#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.81#
29	l1	chlordane-1		0.041	0.000	100.0#	0#	-3.38#
30	l1	chlordane-3		0.046	0.000	100.0#	0#	-4.00#
31	l1	chlordane-4		0.164	0.000	100.0#	0#	-4.69#
32	l1	chlordane-5		0.131	0.000	100.0#	0#	-4.86#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.713	1.811	705.3E6	367.2E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.074	5.699	2120.6E6	657.8E6	1502.382M3	1784.029
35) l2	toxaphene-2	5.202	5.727	2384.0E6	979.8E6	1552.476M3	1752.959
36) l2	toxaphene-3	5.436	6.052	2077.6E6	1070.7E6	1339.864	1615.394
37) l2	toxaphene-4	5.815	6.466	1975.3E6	1000.0E6	1276.777	1695.073
Sum	toxaphene-1			8557.5E6	3708.4E6	5671.499	6847.455
Average	toxaphene-1					1417.875	1711.864

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			8557.5E6	3708.4E6	5671.499	6847.455
Average	toxaphene-1					1417.875	1711.864

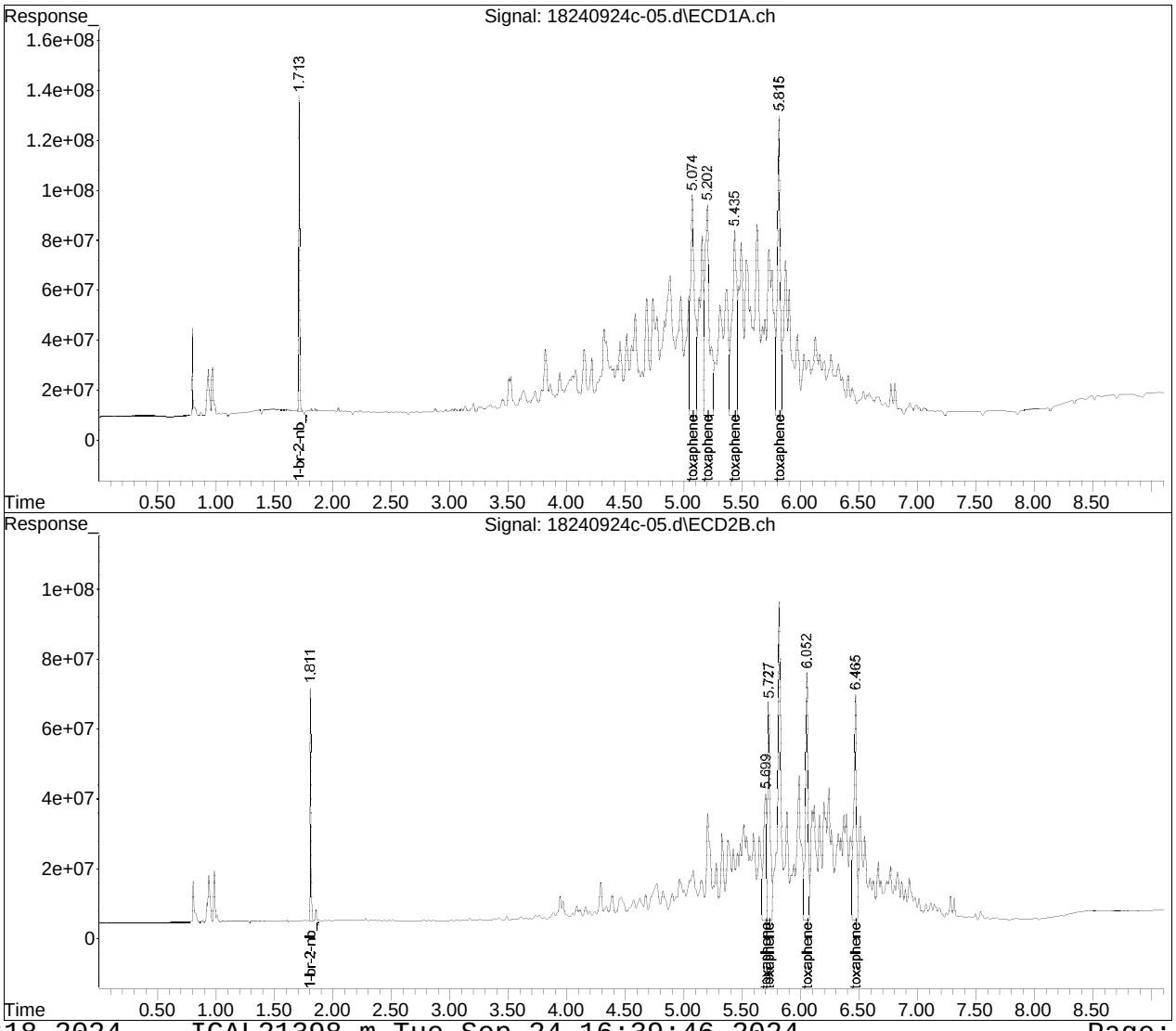
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:27
Operator : PEST18:akm
Sample : wg1975559-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 11:02:50 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 11:02:44 2024
Response via : Initial Calibration
Integrator: ChemStation

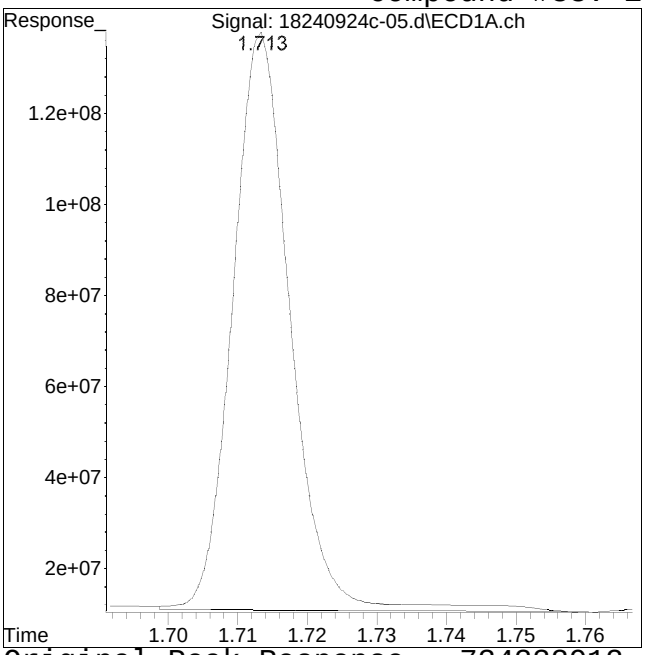
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

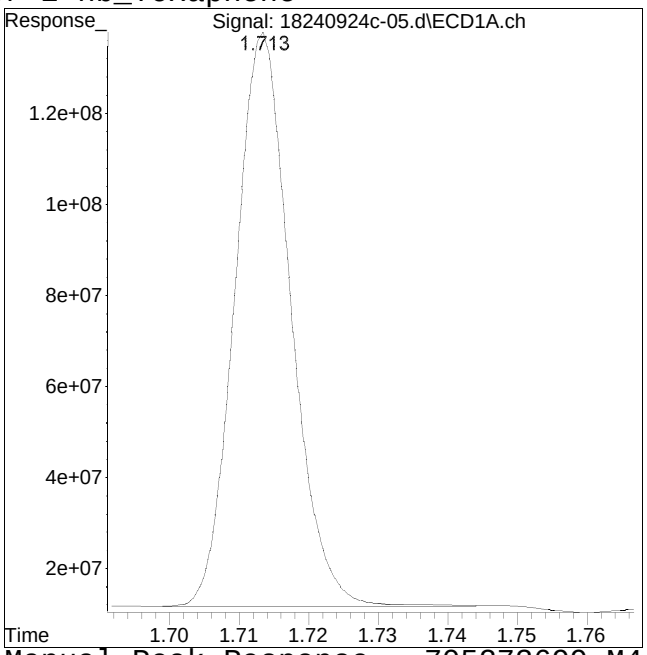


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-05.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:27 Instrument : Pest 18
Sample : wg1975559-3,42,,tox11668 Quant Date : 9/24/2024 11:02 am

Compound #33: 1-br-2-nb_Toxaphene



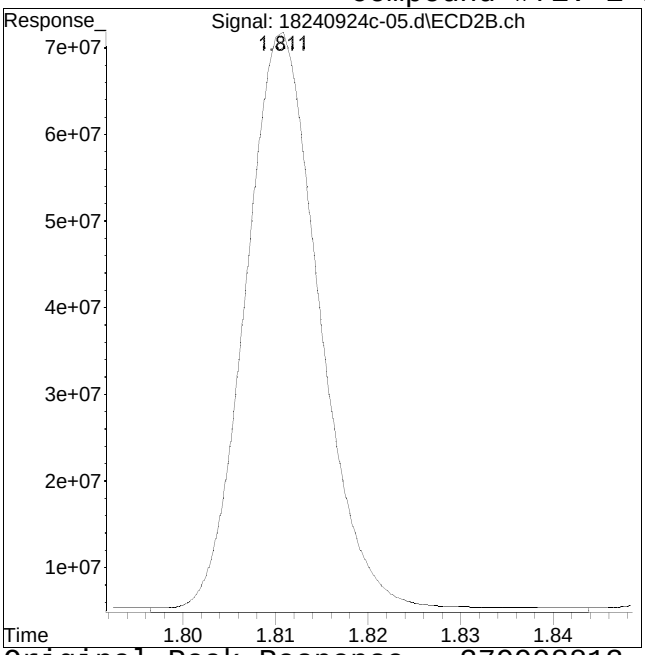


Original Peak Response = 734332912 Manual Peak Response = 705273699 M4
M4 = Poor automated baseline construction.

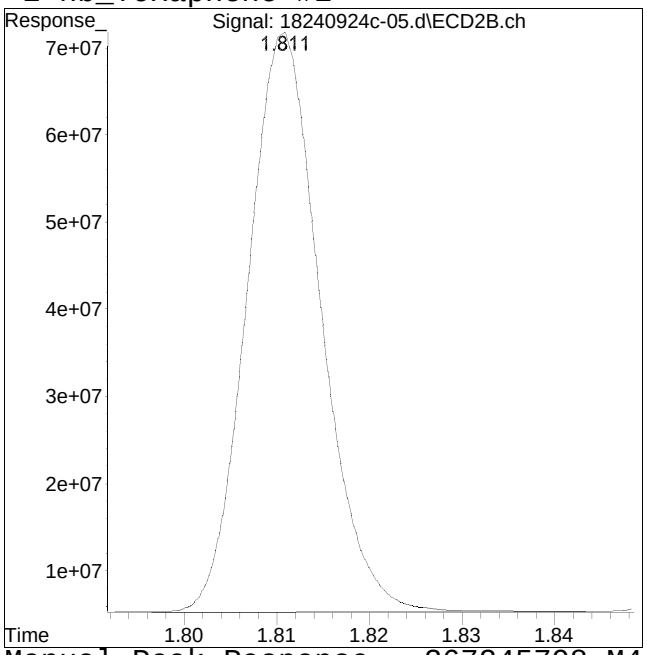
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-05.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:27 Instrument : Pest 18
Sample : wg1975559-3,42,,tox11668 Quant Date : 9/24/2024 11:02 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 379998813



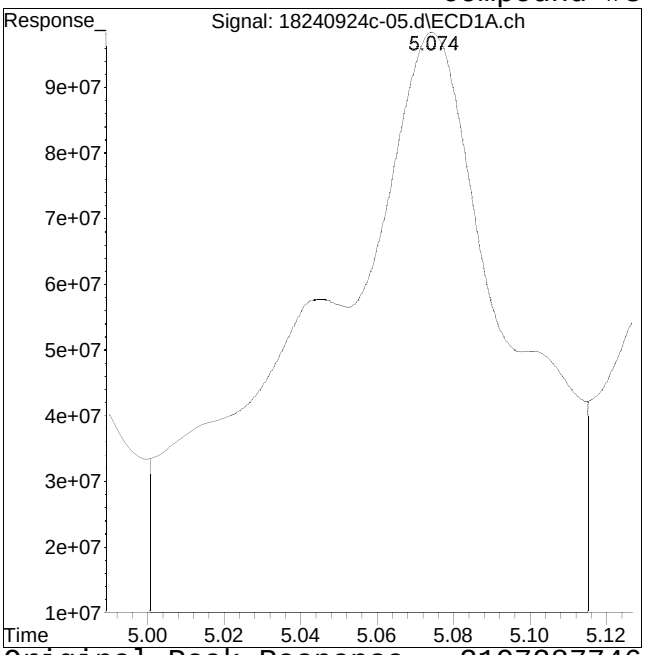
Manual Peak Response = 367245798 M4

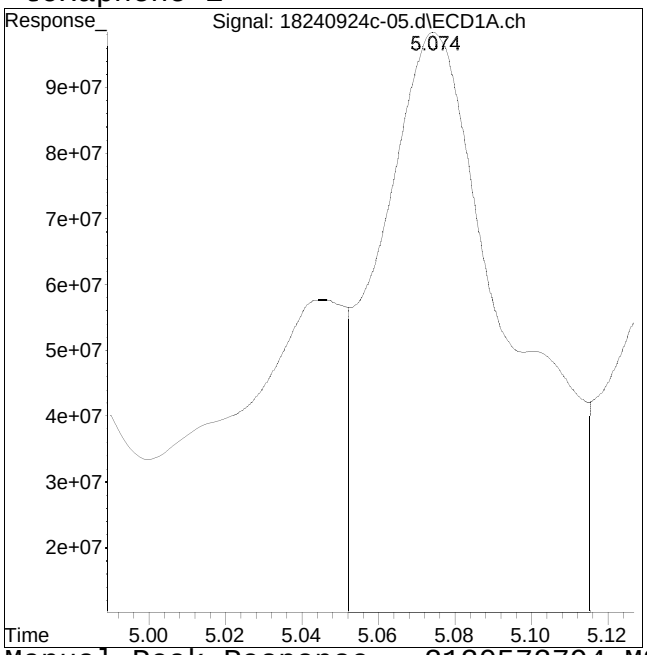
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-05.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:27 Instrument : Pest 18
Sample : wg1975559-3,42,,tox11668 Quant Date : 9/24/2024 11:02 am

Compound #34: toxaphene-1



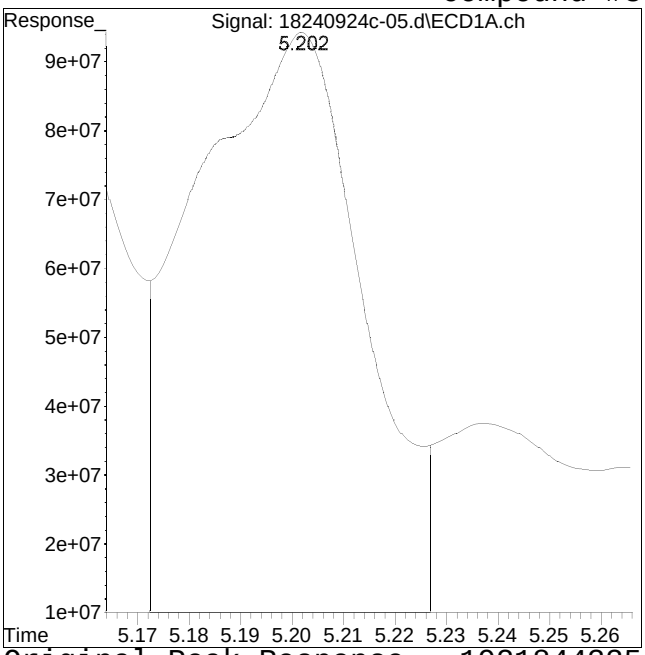


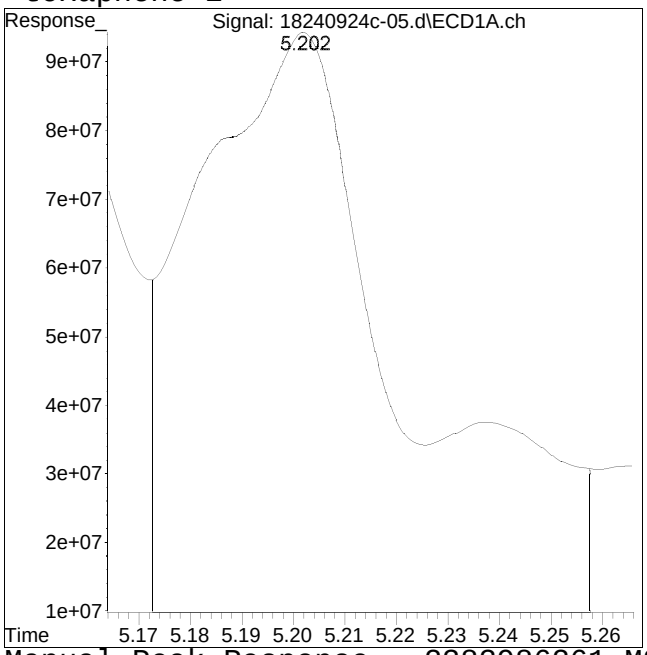
Original Peak Response = 3197287746 Manual Peak Response = 2120573794 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-05.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:27 Instrument : Pest 18
Sample : wg1975559-3,42,,tox11668 Quant Date : 9/24/2024 11:02 am

Compound #35: toxaphene-2





Original Peak Response = 1921844335 Manual Peak Response = 2383986261 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample   : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	124	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.220	1.312	-7.5	134	0.00
3		Hexachlorobenzene		1.431	1.542	-7.8	136	0.00
4		alpha-BHC		1.531	1.781	-16.3	138	0.00
5		gamma-BHC (lindane)		1.404	1.555	-10.8	134	0.00
6		beta-BHC		0.638	0.688	-7.8	136	0.00
7		delta-BHC		1.404	1.500	-6.8	127	0.00
8		Heptachlor		1.315	1.436	-9.2	132	0.00
9		Aldrin		1.284	1.437	-11.9	132	0.00
10		Alachlor		0.194	0.277	-42.8#	179#	0.00
11		Chlorpyrifos	*	50.000	64.692	-29.4#	131	0.00
12		Heptachlor Epoxide		1.161	1.234	-6.3	128	0.00
13		gamma-Chlordane (trans)		1.140	1.318	-15.6	142	0.00
14		alpha-Chlordane (cis)		1.273	1.297	-1.9	124	0.00
15		4,4'-DDE		1.268	1.350	-6.5	126	0.00
16		Endosulfan I		1.138	1.182	-3.9	125	0.00
17		Dieldrin		1.209	1.337	-10.6	132	0.00
18		Endrin		1.209	1.233	-2.0	122	0.00
19		4,4'-DDD		0.982	1.041	-6.0	126	0.00
20		Endosulfan II		1.096	1.102	-0.5	121	0.00
21		4,4'-DDT		1.107	1.082	2.3	116	0.00
22		Endrin Aldehyde		0.923	0.771	16.5	101	0.00
23		Methoxychlor	*	50.000	54.563	-9.1	114	0.00
24		Mirex	*	50.000	51.521	-3.0	117	0.00
25		Endosulfan Sulfate		1.087	1.055	2.9	117	0.00
26		Endrin Ketone		1.216	1.169	3.9	116	0.00
27	s	Decachlorobiphenyl	*	50.000	46.917	6.2	109	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample   : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	115	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.179	1.332	-13.0	126	0.00
3		Hexachlorobenzene		1.260	1.361	-8.0	126	0.00
4		alpha-BHC		1.569	1.877	-19.6	128	0.00
5		gamma-BHC (lindane)		1.462	1.677	-14.7	128	0.00
6		beta-BHC		0.679	0.729	-7.4	125	0.00
7		delta-BHC		1.445	1.616	-11.8	121	0.00
8		Heptachlor		1.318	1.600	-21.4#	134	0.00
9		Aldrin		1.307	1.527	-16.8	125	0.00
10		Alachlor		0.196	0.251	-28.1#	147	0.00
11		Chlorpyrifos	*	50.000	68.892	-37.8#	132	0.00
12		Heptachlor Epoxide		1.247	1.401	-12.3	125	0.00
13		gamma-Chlordane (trans)		1.137	1.436	-26.3#	139	0.00
14		alpha-Chlordane (cis)		1.268	1.401	-10.5	122	0.00
15		4,4'-DDE		1.245	1.379	-10.8	117	0.00
16		Endosulfan I		1.167	1.317	-12.9	123	0.00
17		Dieldrin		1.196	1.482	-23.9#	133	0.00
18		Endrin		1.197	1.396	-16.6	127	0.00
19		4,4'-DDD		0.976	1.167	-19.6	129	0.00
20		Endosulfan II		1.072	1.220	-13.8	125	0.00
21		4,4'-DDT		1.070	1.215	-13.6	123	0.00
22		Endrin Aldehyde		0.903	0.838	7.2	103	0.00
23		Methoxychlor		0.581	0.612	-5.3	118	0.00
24		Mirex		0.903	0.935	-3.5	123	0.00
25		Endosulfan Sulfate		1.032	1.151	-11.5	124	0.00
26		Endrin Ketone		1.116	1.304	-16.8	129	0.00
27	s	Decachlorobiphenyl		0.953	0.978	-2.6	120	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample   : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975559,,ical21398
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.71#
29	l1	chlordane-1		0.078	0.000	100.0#	0#	-3.10#
30	l1	chlordane-3		0.050	0.000	100.0#	0#	-3.47#
31	l1	chlordane-4		0.176	0.000	100.0#	0#	-4.04#
32	l1	chlordane-5		0.270	0.000	100.0#	0#	-4.17#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.71#
34	l2	toxaphene-1		0.050	0.000	100.0#	0#	-5.07#
35	l2	toxaphene-2		0.054	0.000	100.0#	0#	-5.20#
36	l2	toxaphene-3		0.055	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-4		0.055	0.000	100.0#	0#	-5.82#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.81#
29	l1	chlordane-1		0.041	0.000	100.0#	0#	-3.38#
30	l1	chlordane-3		0.046	0.000	100.0#	0#	-4.00#
31	l1	chlordane-4		0.164	0.000	100.0#	0#	-4.69#
32	l1	chlordane-5		0.131	0.000	100.0#	0#	-4.86#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.81#
34	l2	toxaphene-1		0.025	0.000	100.0#	0#	-5.70#
35	l2	toxaphene-2		0.038	0.000	100.0#	0#	-5.73#
36	l2	toxaphene-3		0.045	0.000	100.0#	0#	-6.05#
37	l2	toxaphene-4		0.040	0.000	100.0#	0#	-6.47#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.714	1.811	658.7E6	368.4E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.149	2.369	1728.3E6	981.2E6	53.786M4	56.477
	Spiked Amount 50.000	Range 30 - 150		Recovery =		107.57%	112.95%
27) s	Decachlorobi	6.954	7.570	1463.8E6	720.8E6	46.917M4	51.341M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.83%	102.68%
	Target Compounds						
3)	Hexachlorobe	2.392	2.715	2031.7E6	1002.6E6	53.892M4	53.991
4)	alpha-BHC	2.505	2.818	2346.2E6	1382.6E6	58.181M4	59.797M4
5)	gamma-BHC (l	2.725	3.116	2048.7E6	1235.4E6	55.390M4	57.337
6)	beta-BHC	2.790	3.190	905.8E6	536.9E6	53.864M4	53.630M4
7)	delta-BHC	2.925	3.462	1976.4E6	1190.3E6	53.440	55.924
8)	Heptachlor	3.095	3.519	1891.9E6	1178.5E6	54.623M4	60.684M4
9)	Aldrin	3.348	3.843	1892.7E6	1125.2E6	55.963M4	58.430
10)	Alachlor	3.485	3.736	364.6E6	185.2E6	71.464M4	64.057
11)	Chlorpyrifos	3.581	4.094	828.4E6	535.1E6	64.692M4	68.892
12)	Heptachlor E	3.911	4.466	1625.3E6	1032.2E6	53.150M4	56.170M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chlord	4.039	4.689	1736.4E6	1058.1E6	57.808M4	63.177M4
14)		alpha-Chlord	4.177	4.864	1708.8E6	1032.1E6	50.966M4	55.221
15)		4,4'-DDE	4.282	5.074	1778.7E6	1015.9E6	53.250M4	55.368M4
16)		Endosulfan I	4.312	4.926	1557.3E6	970.1E6	51.947M4	56.434M4
17)		Dieldrin	4.578	5.229	1761.4E6	1092.0E6	55.305M4	61.987M4
18)		Endrin	4.835	5.535	1624.2E6	1028.8E6	50.977M3	58.310
19)		4,4'-DDD	4.957	5.668	1371.6E6	859.7E6	53.014M4	59.754M4
20)		Endosulfan I	5.084	5.741	1451.2E6	898.5E6	50.249M4	56.888M4
21)		4,4'-DDT	5.258	5.950	1424.7E6	895.2E6	48.850M4	56.762M4
22)		Endrin Aldeh	5.511	6.044	1015.2E6	617.2E6	41.744M4	46.360M4
23)		Methoxychlor	5.759	6.526	757.6E6	451.0E6	54.563M4	52.692M4
24)		Mirex	5.808	6.654	1154.2E6	688.7E6	51.521M3	51.755M4
25)		Endosulfan S	5.910	6.277	1389.6E6	848.2E6	48.543M4	55.786M4
26)		Endrin Keton	6.139	6.694	1540.0E6	960.5E6	48.081M4	58.412M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

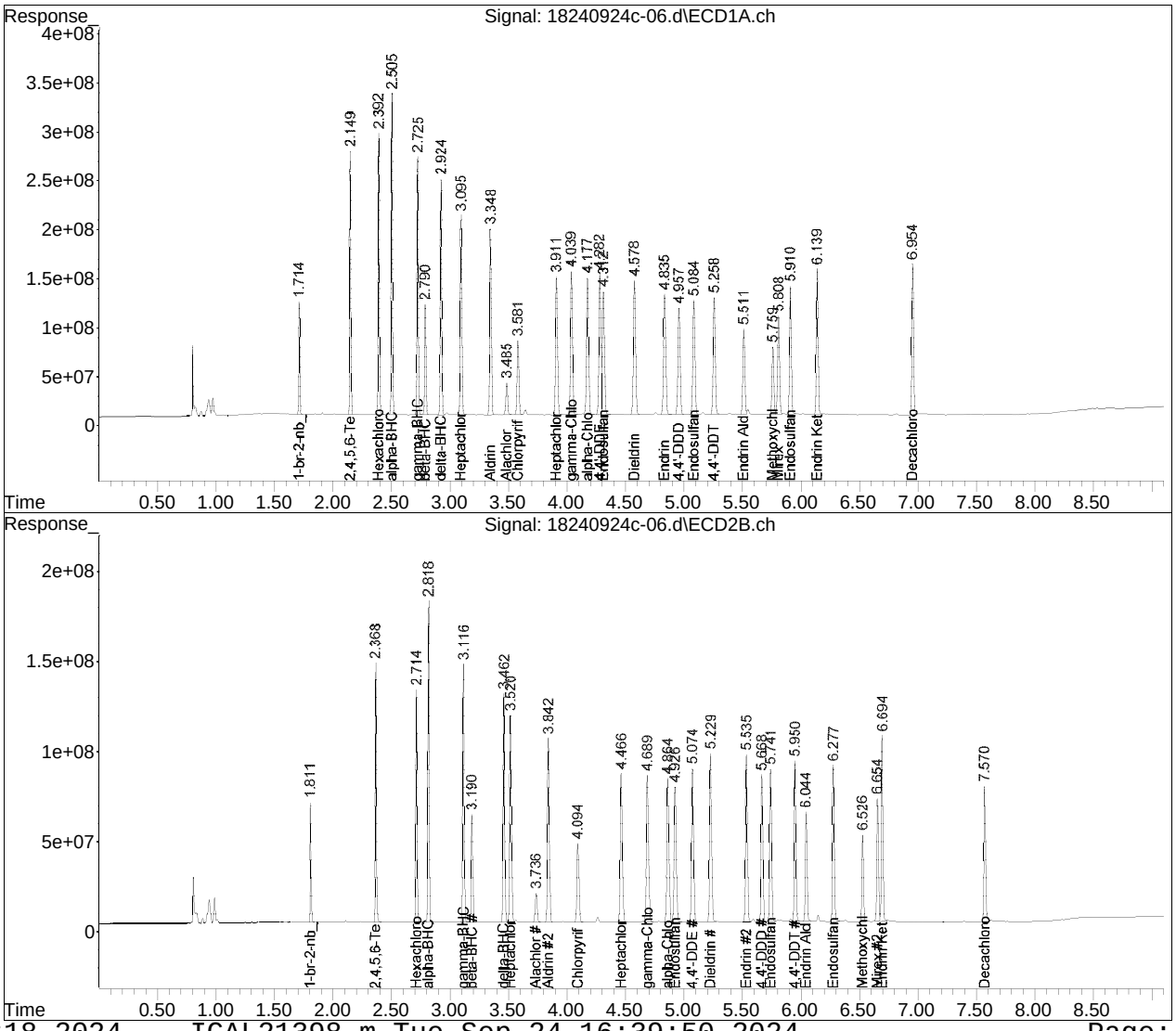
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 10:38
Operator : PEST18:akm
Sample : wg1975559-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:31 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation

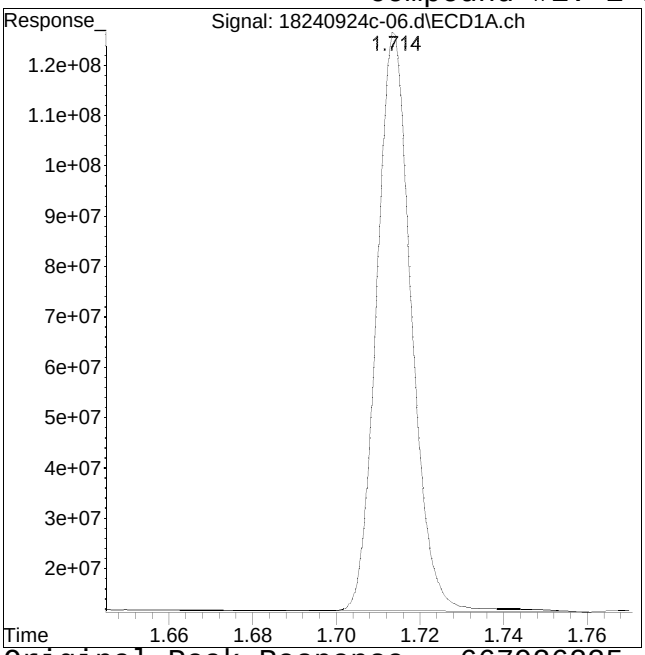
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



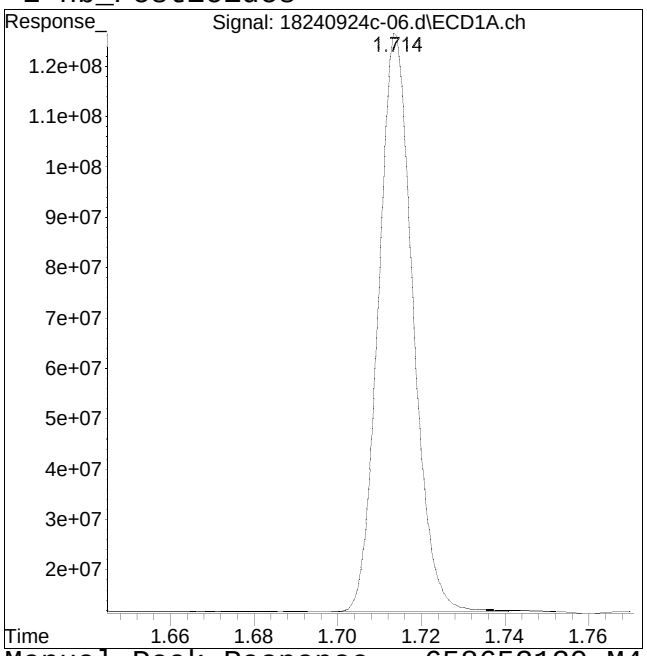
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 667926225



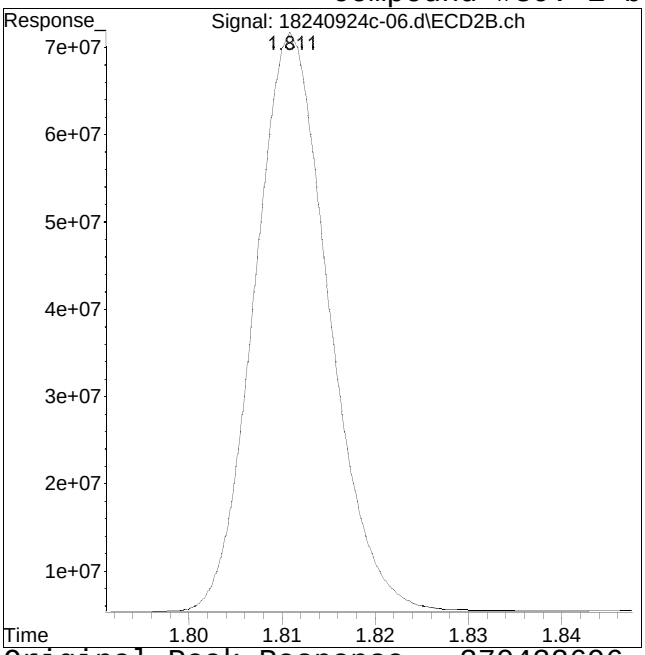
Manual Peak Response = 658653120 M4

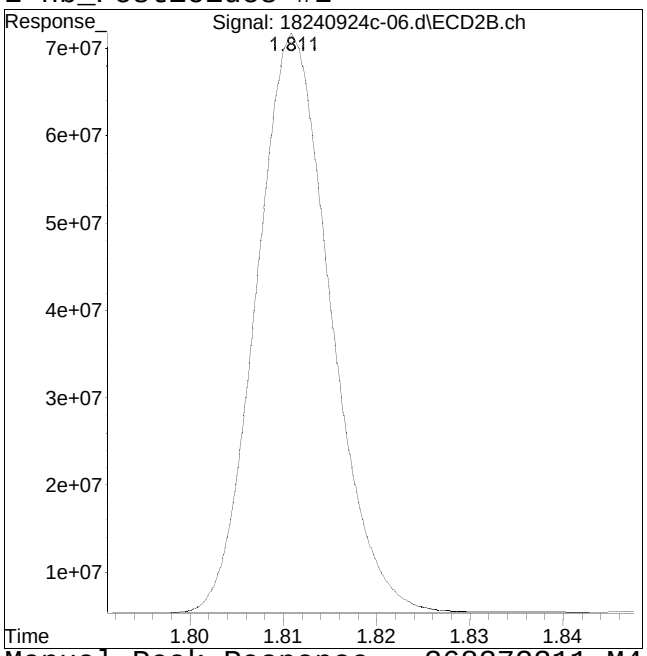
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #39: 1-br-2-nb_Pesticides #2



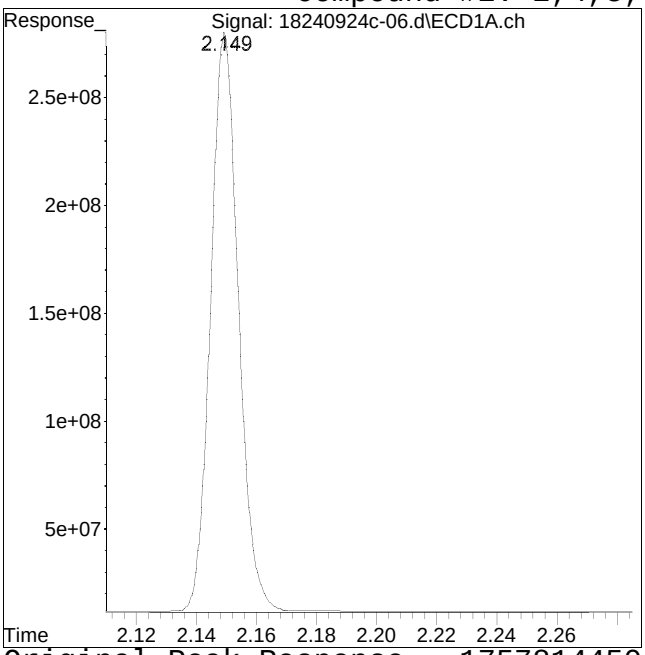


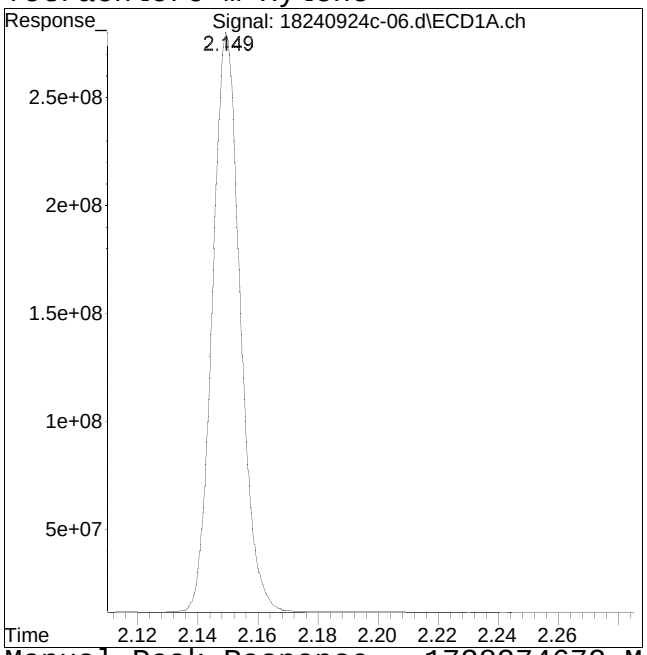
Original Peak Response = 370432696 Manual Peak Response = 368373311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



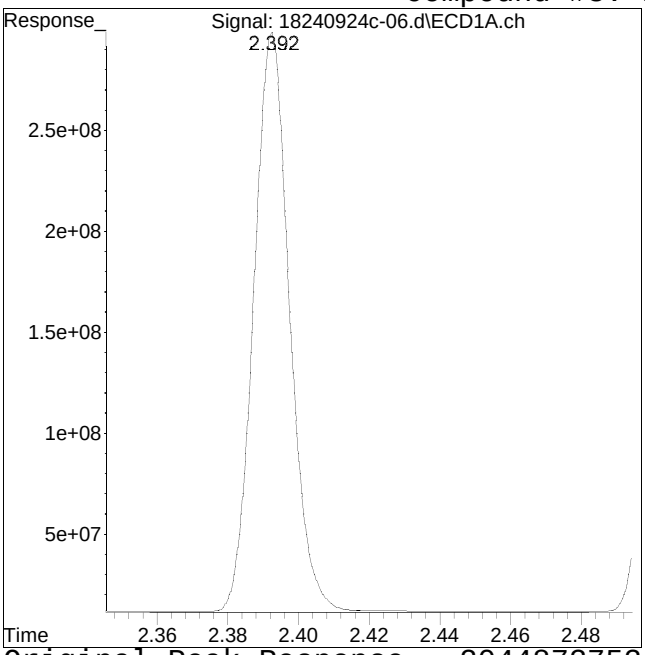


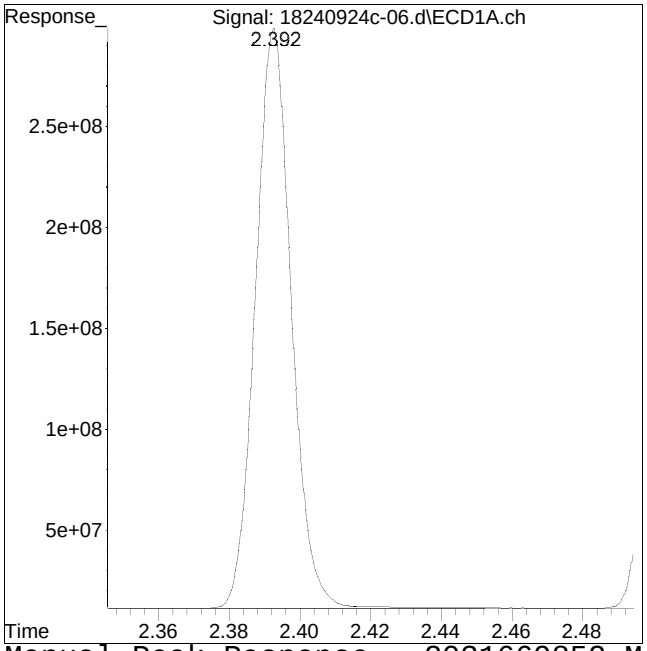
Original Peak Response = 1757814450 Manual Peak Response = 1728274672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #3: Hexachlorobenzene



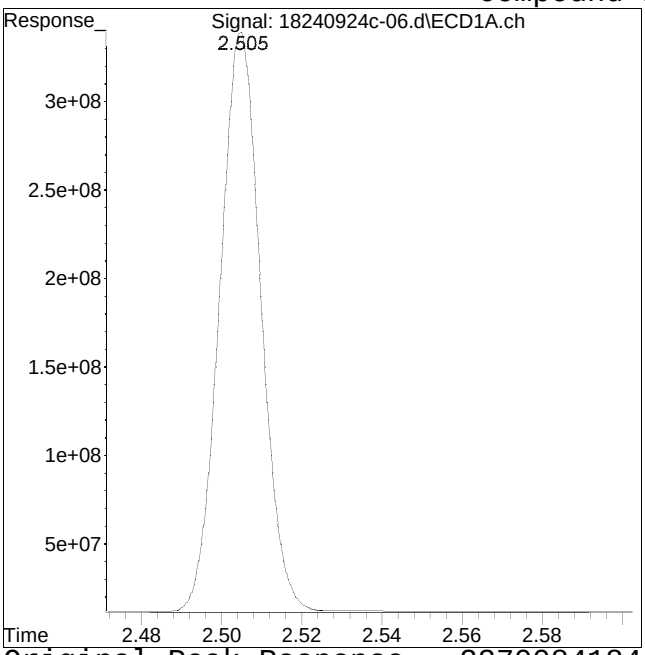


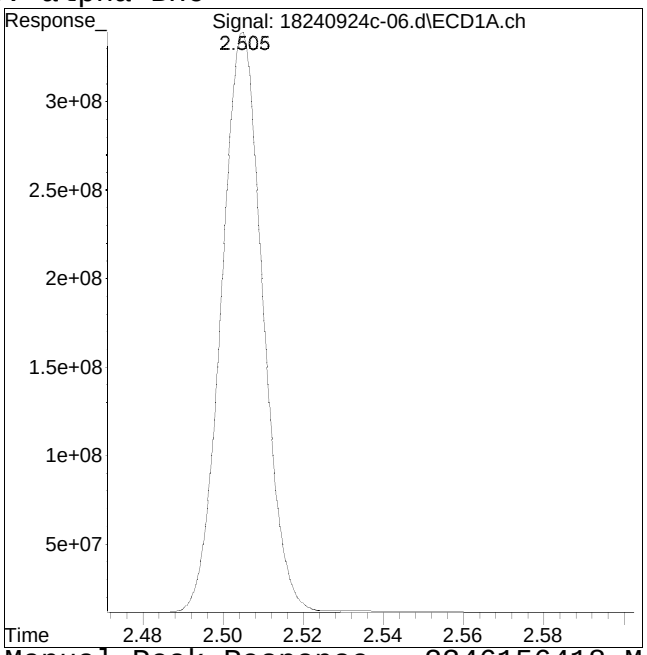
Original Peak Response = 2044873753 Manual Peak Response = 2031669852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #4: alpha-BHC



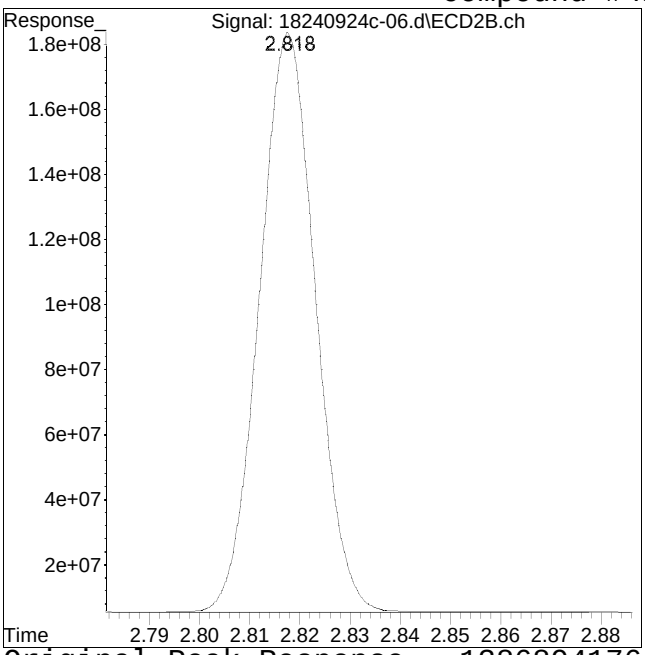


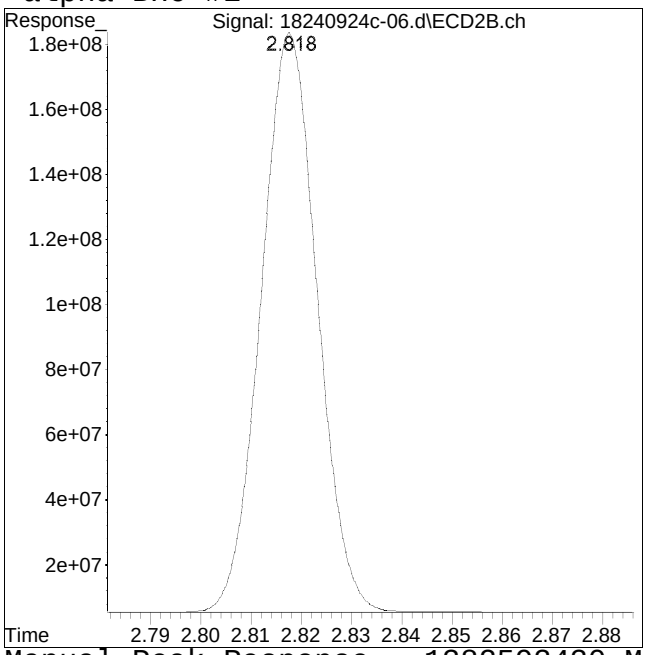
Original Peak Response = 2370084184 Manual Peak Response = 2346156418 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #42: alpha-BHC #2



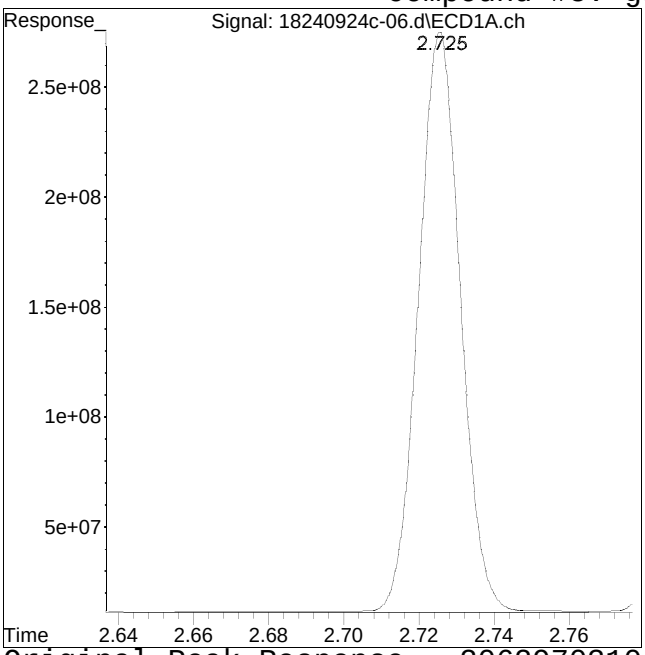


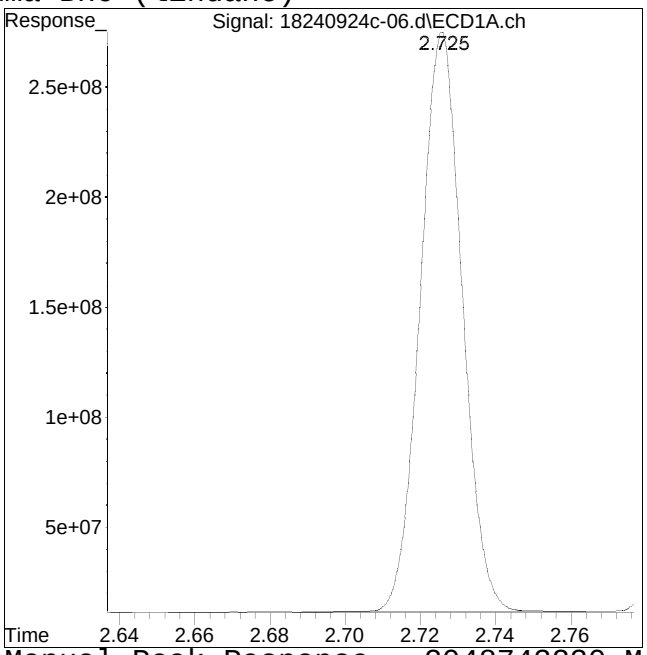
Original Peak Response = 1386894176 Manual Peak Response = 1382593430 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #5: gamma-BHC (lindane)



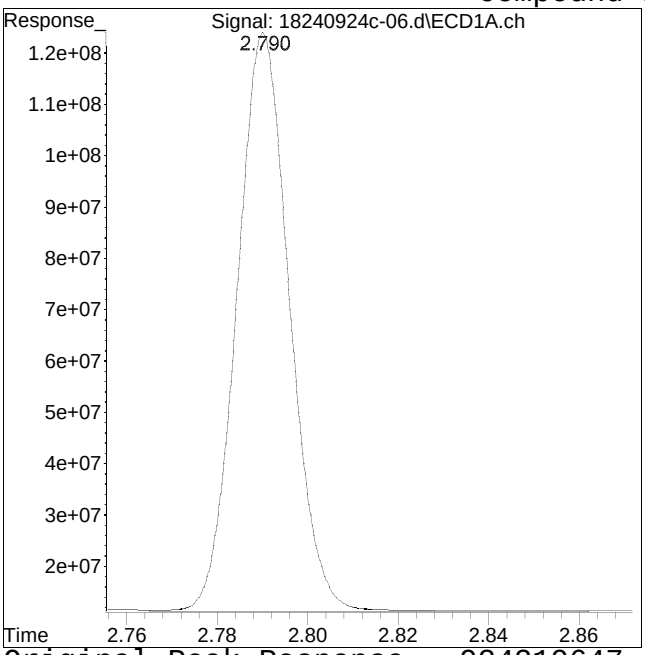


Original Peak Response = 2062970310 Manual Peak Response = 2048743230 M4
M4 = Poor automated baseline construction.

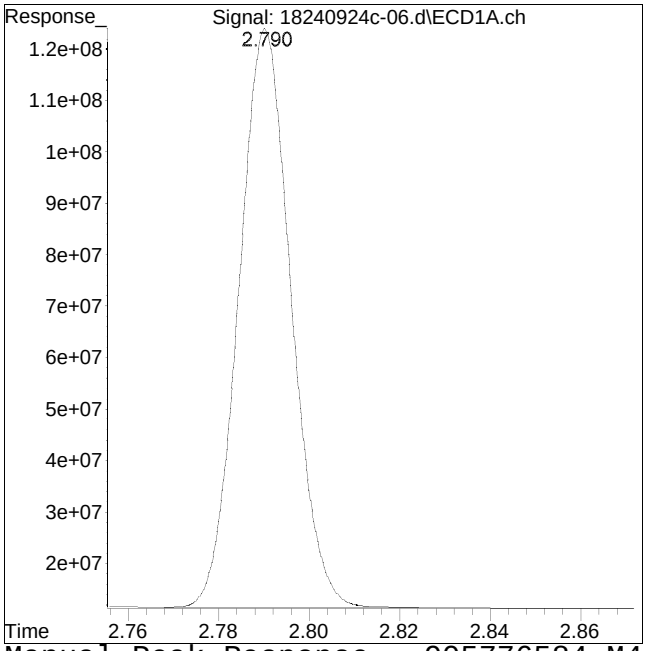
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #6: beta-BHC



Original Peak Response = 924219647

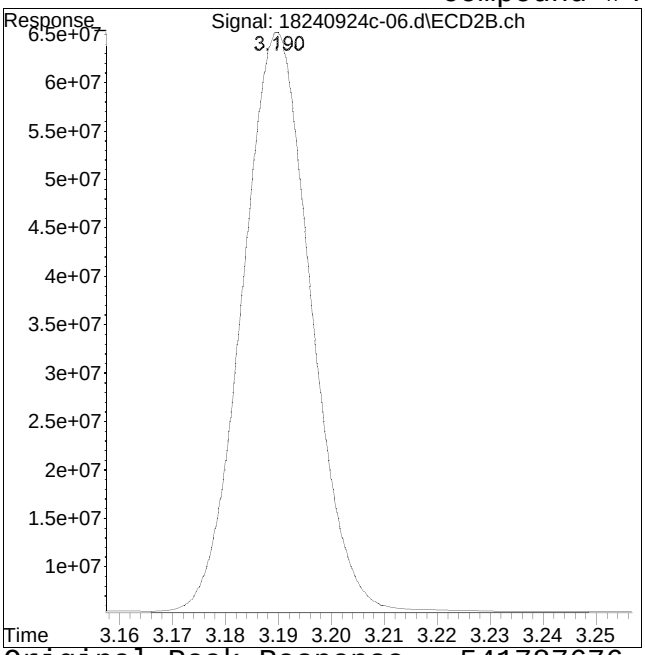


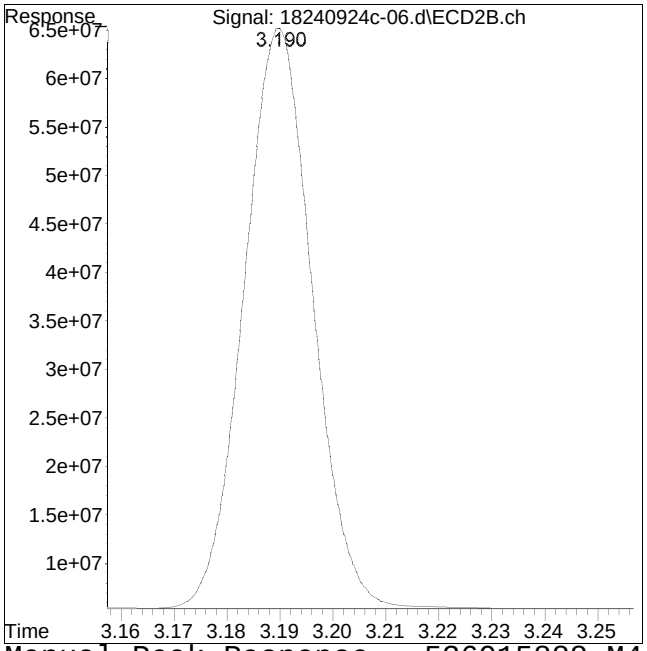
Manual Peak Response = 905776584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #44: beta-BHC #2



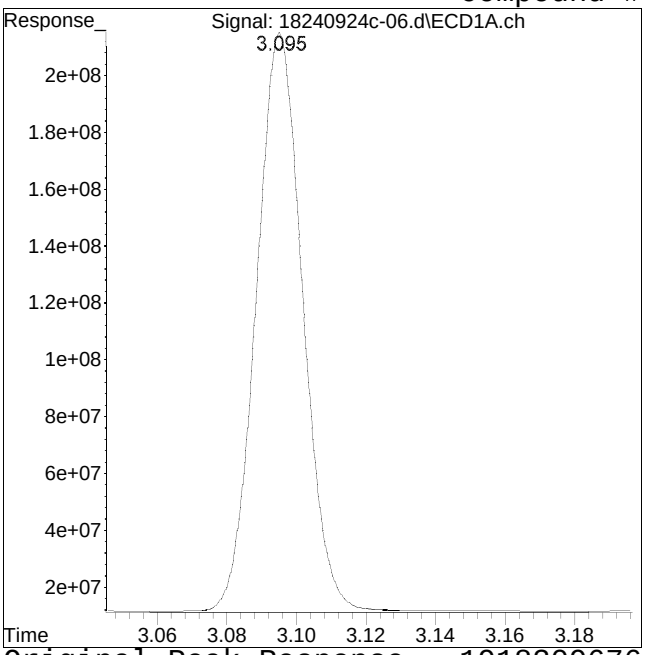


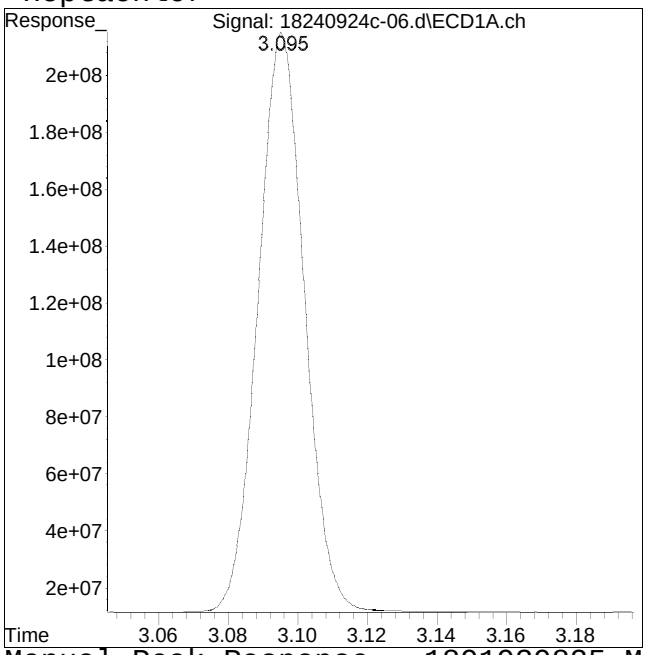
Original Peak Response = 541787676 Manual Peak Response = 536915888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #8: Heptachlor



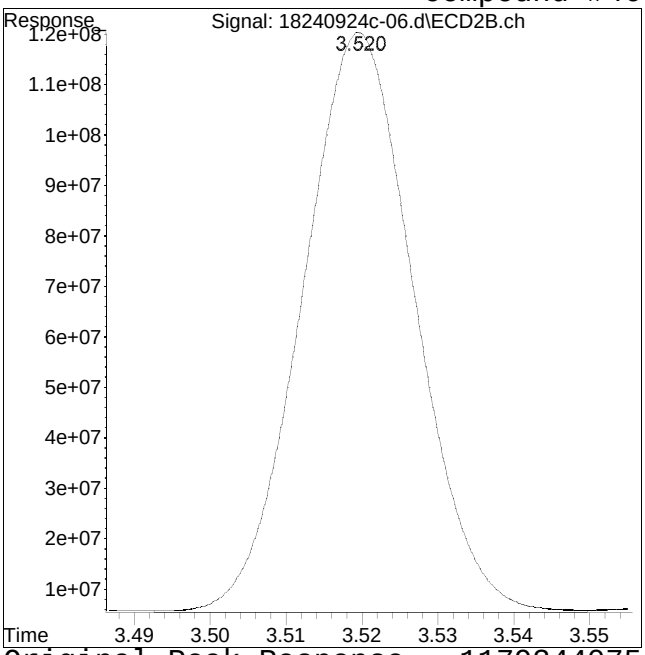


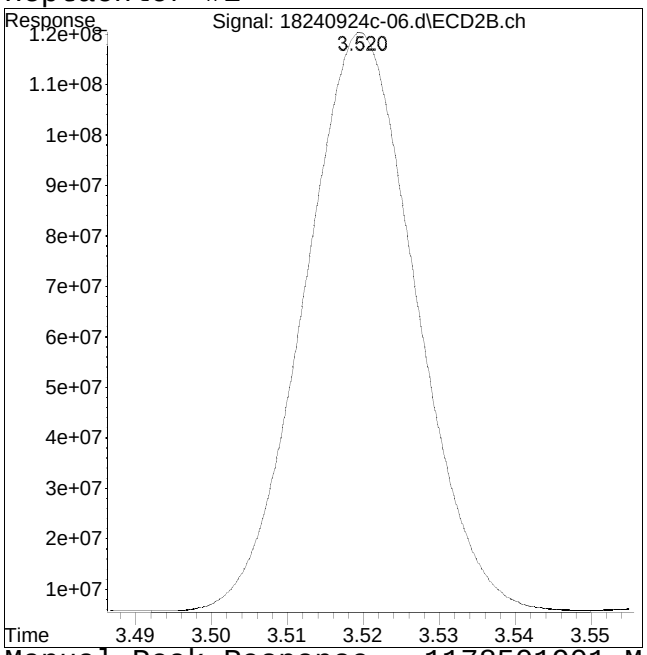
Original Peak Response = 1918309676 Manual Peak Response = 1891939825 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #46: Heptachlor #2



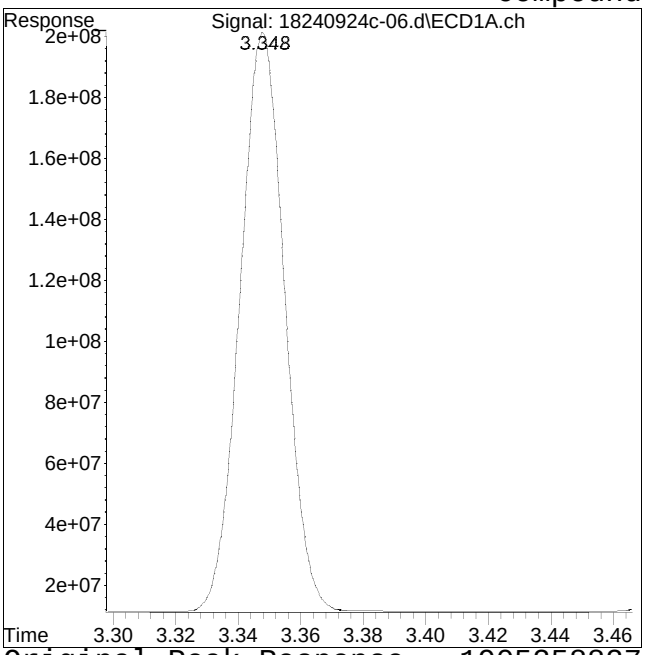


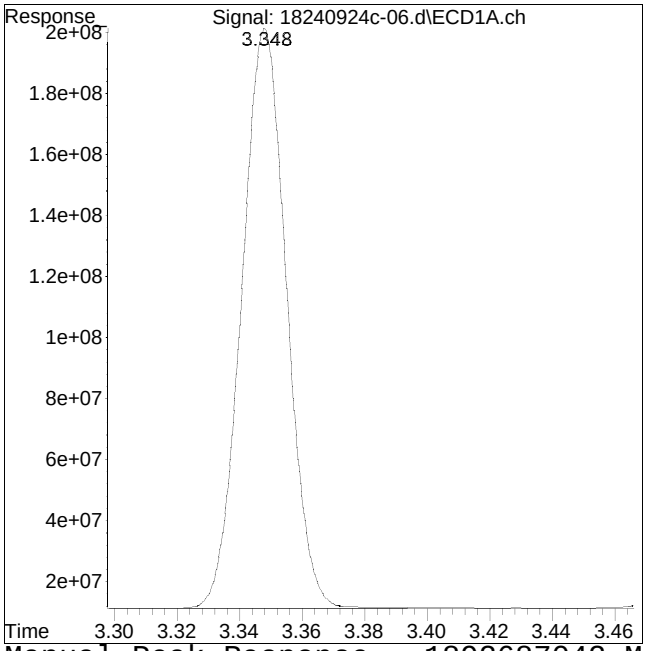
Original Peak Response = 1179344075 Manual Peak Response = 1178501901 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #9: Aldrin



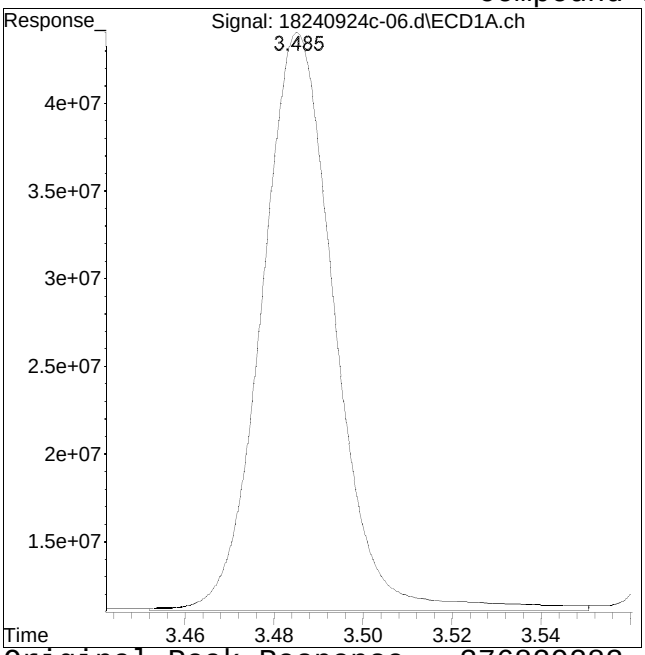


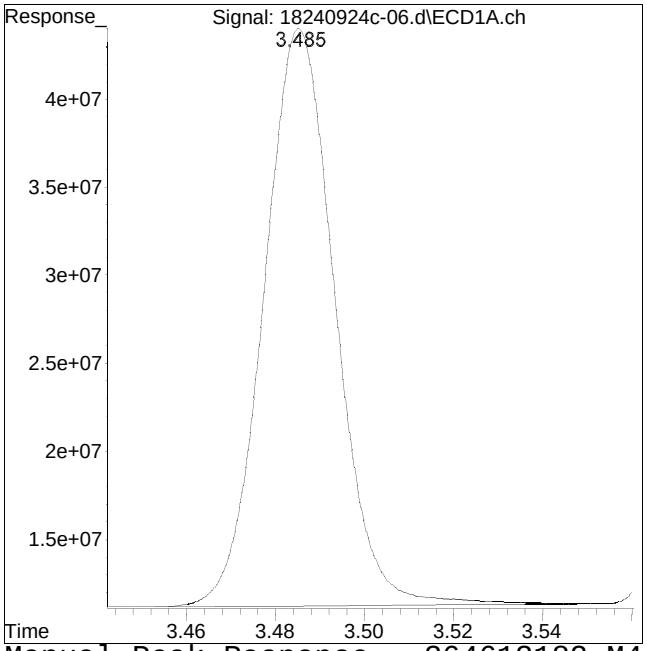
Original Peak Response = 1905258827 Manual Peak Response = 1892687042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #10: Alachlor



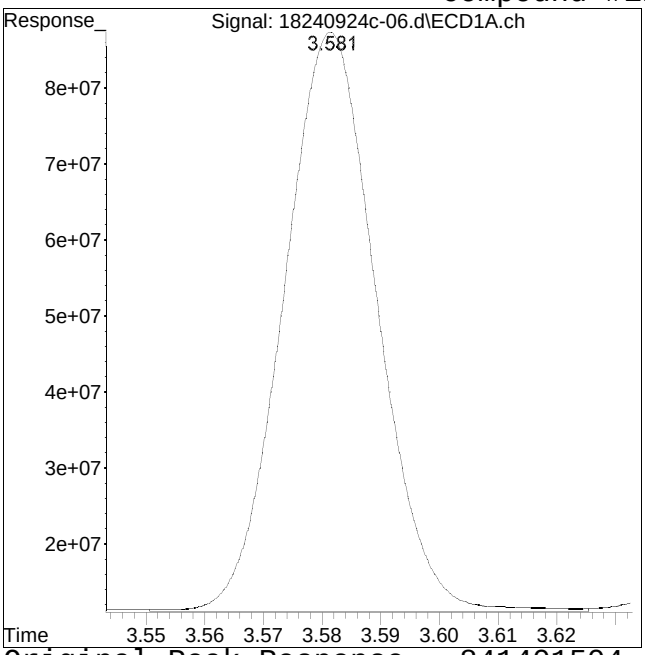


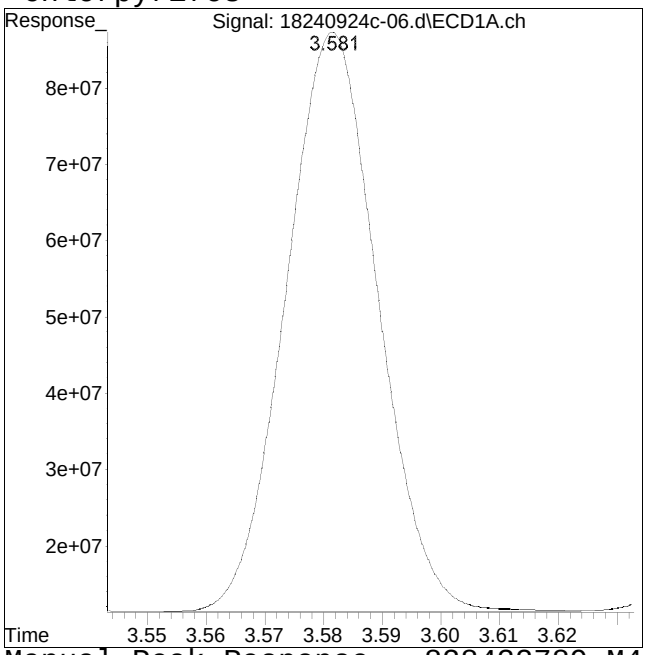
Original Peak Response = 376829283 Manual Peak Response = 364613182 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #11: Chlorpyrifos



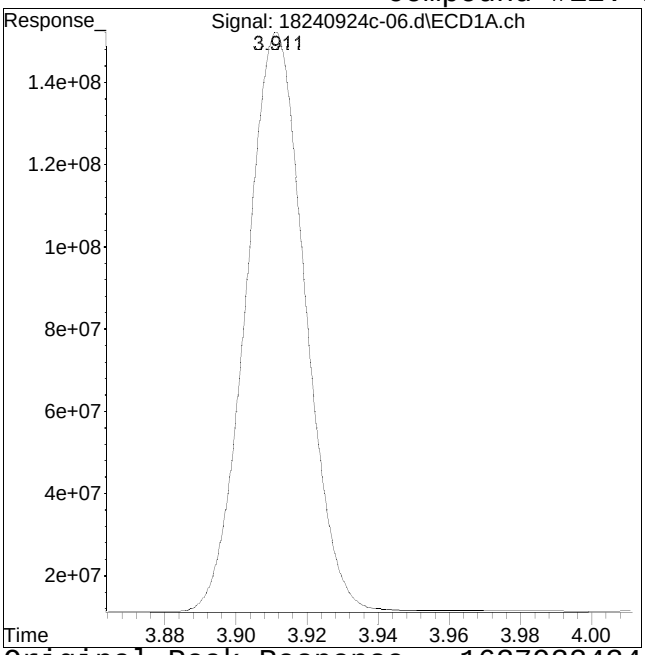


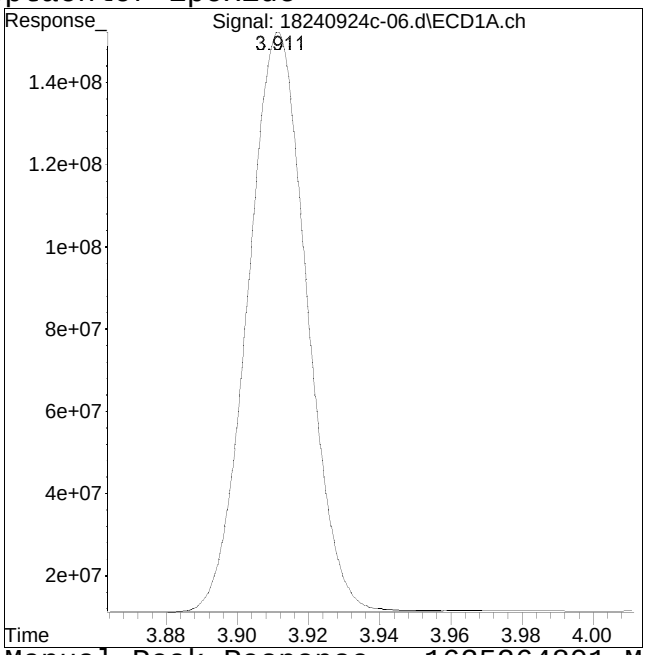
Original Peak Response = 841401504 Manual Peak Response = 828432789 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #12: Heptachlor Epoxide



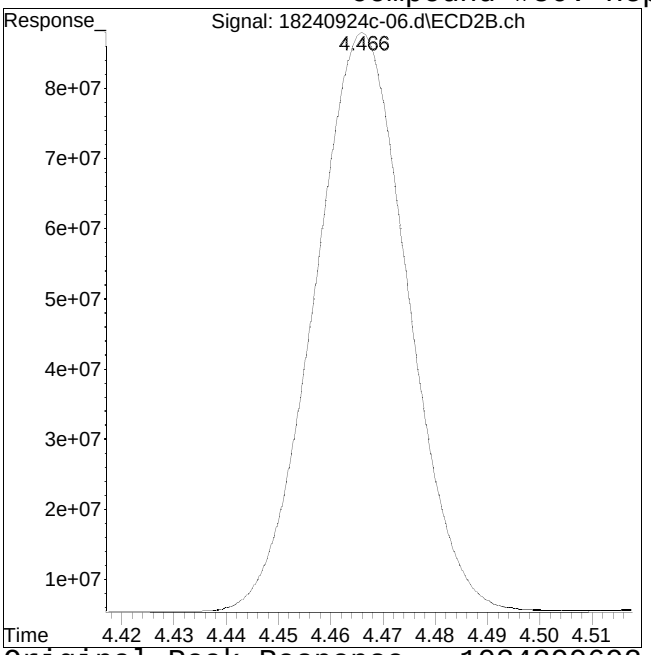


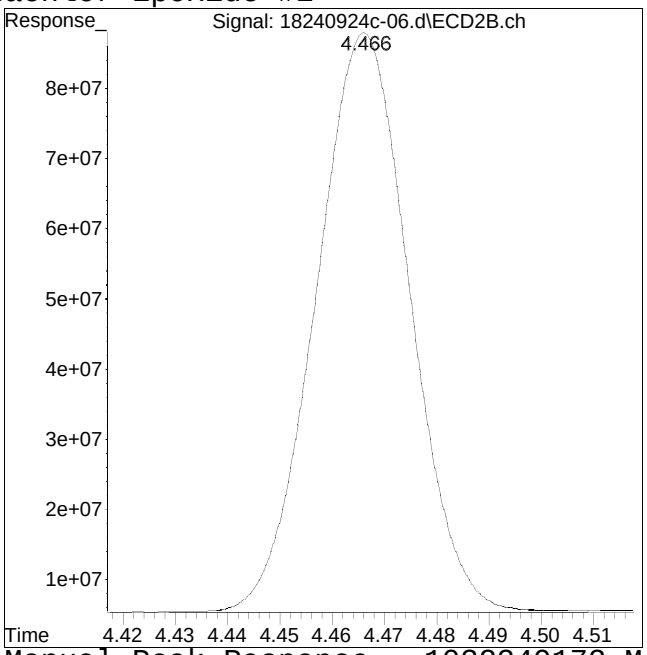
Original Peak Response = 1637933434 Manual Peak Response = 1625264801 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #50: Heptachlor Epoxide #2



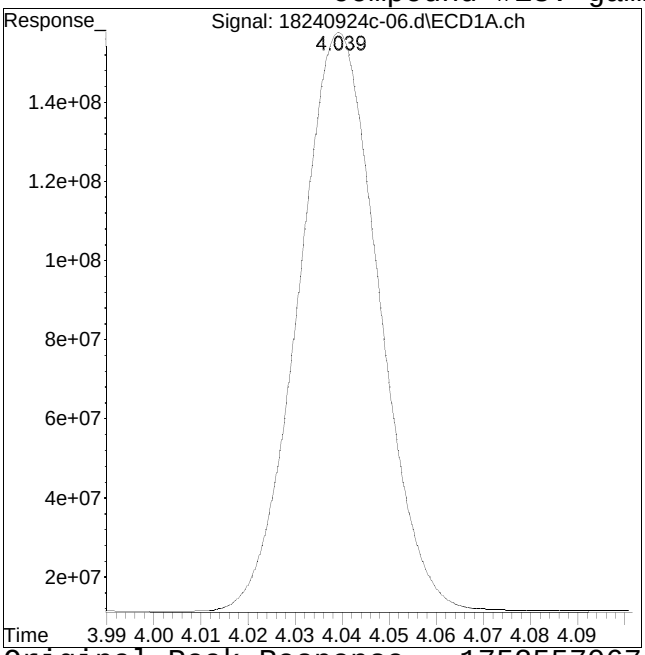


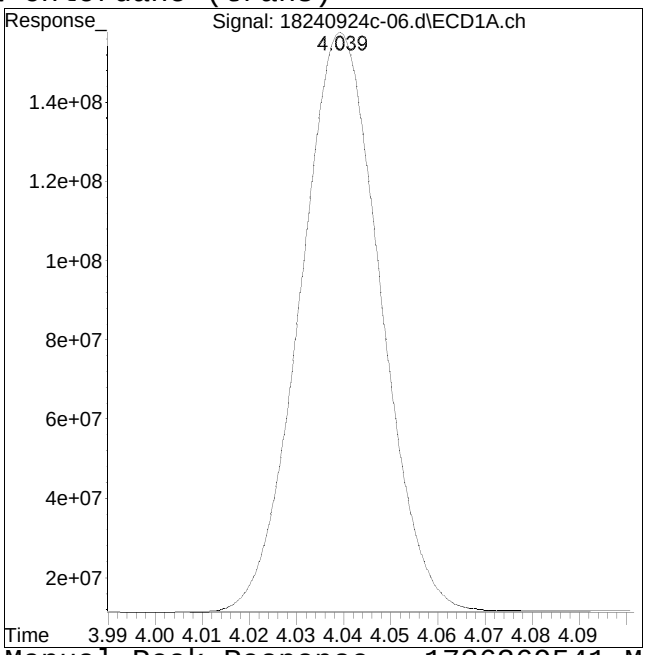
Original Peak Response = 1034299692 Manual Peak Response = 1032249172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #13: gamma-Chlordane (trans)



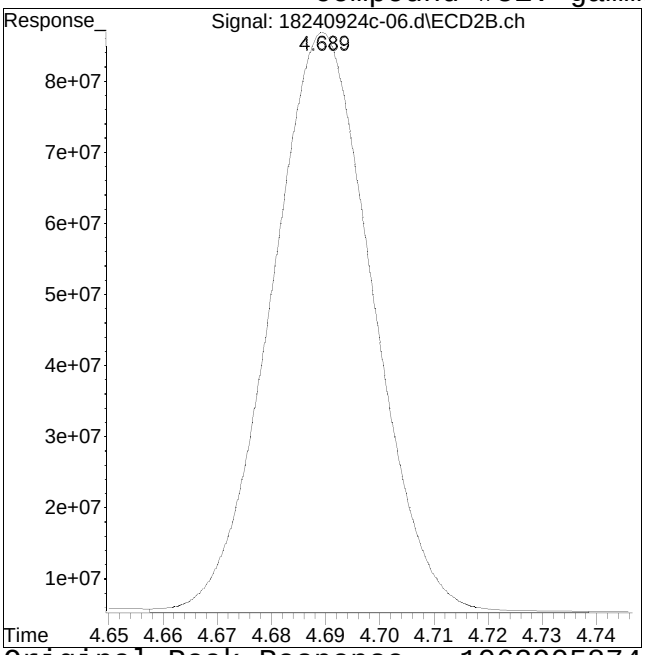


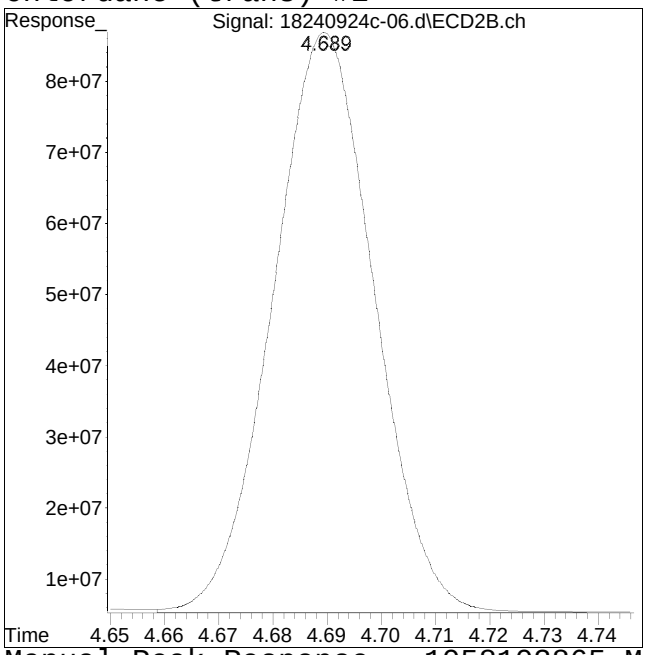
Original Peak Response = 1752557067 Manual Peak Response = 1736369541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #51: gamma-Chlordane (trans) #2



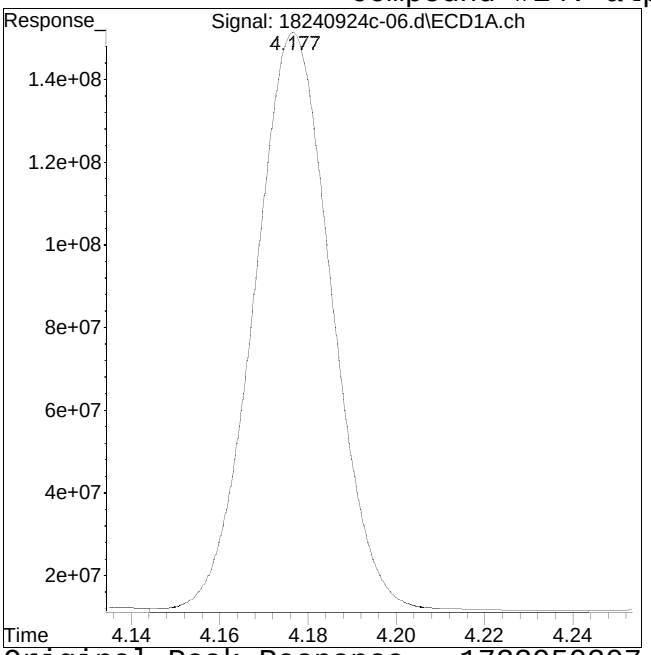


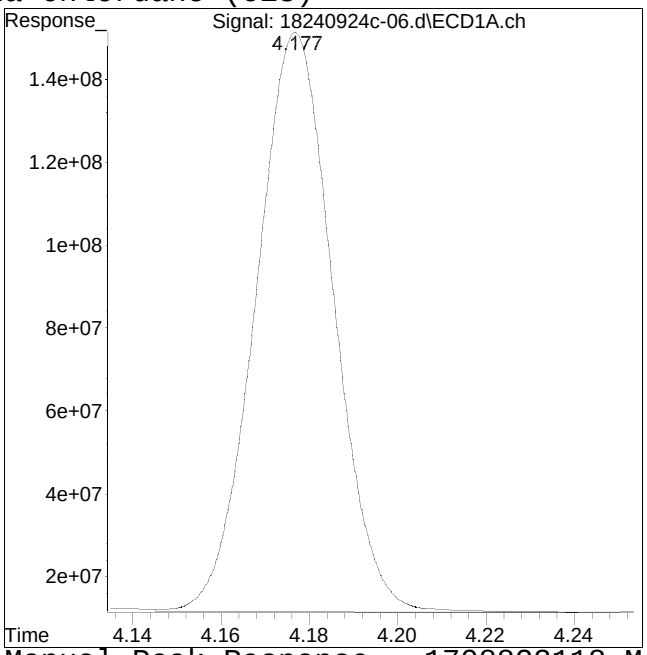
Original Peak Response = 1062905874 Manual Peak Response = 1058103865 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #14: alpha-Chlordane (cis)



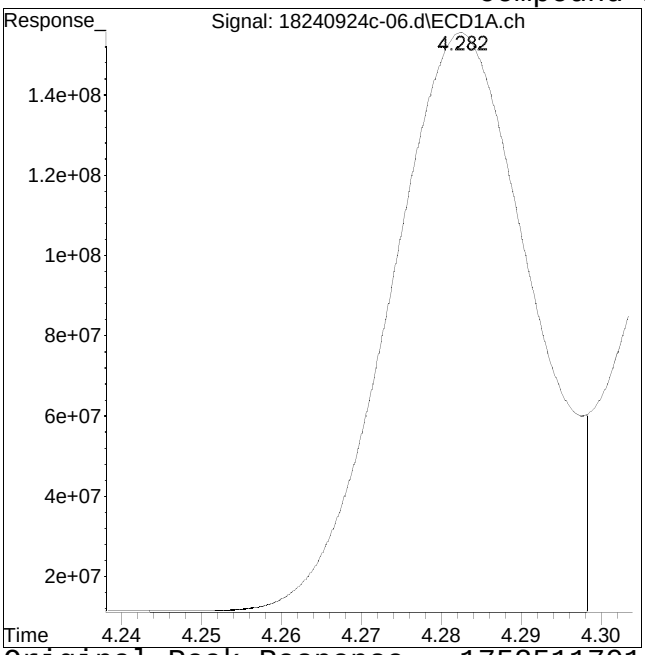


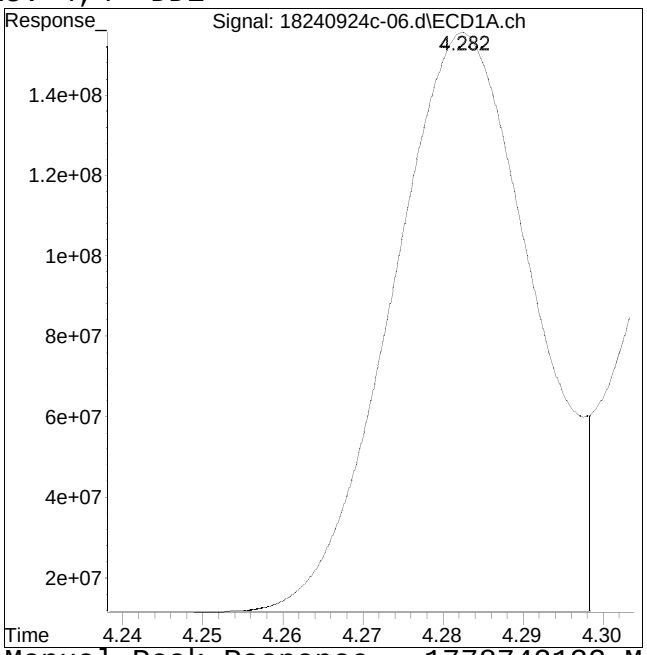
Original Peak Response = 1733959307 Manual Peak Response = 1708823118 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #15: 4,4'-DDE



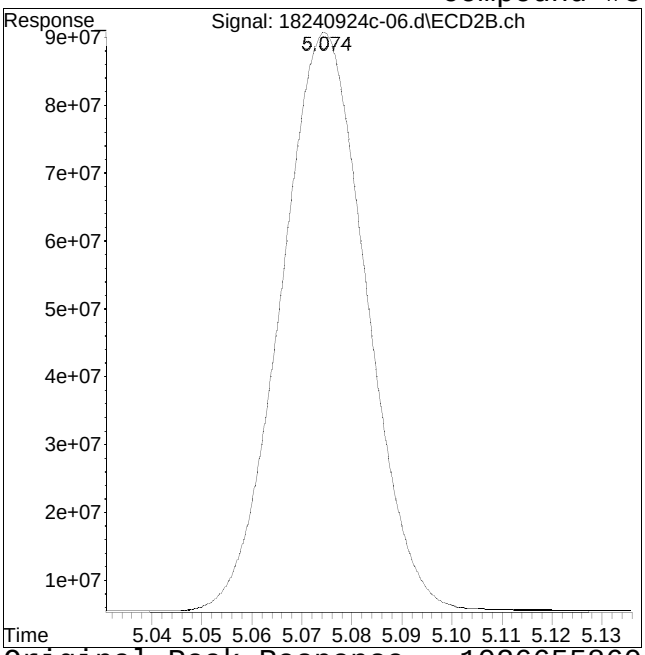


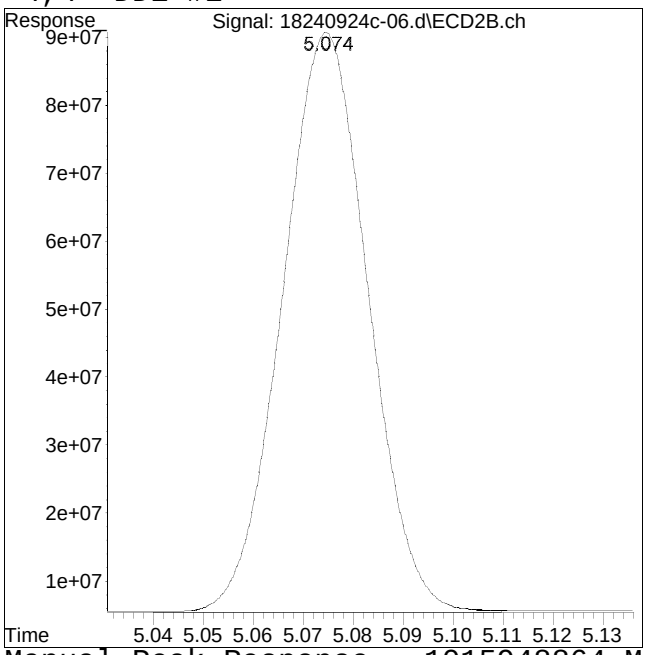
Original Peak Response = 1752511701 Manual Peak Response = 1778742132 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #53: 4,4'-DDE #2



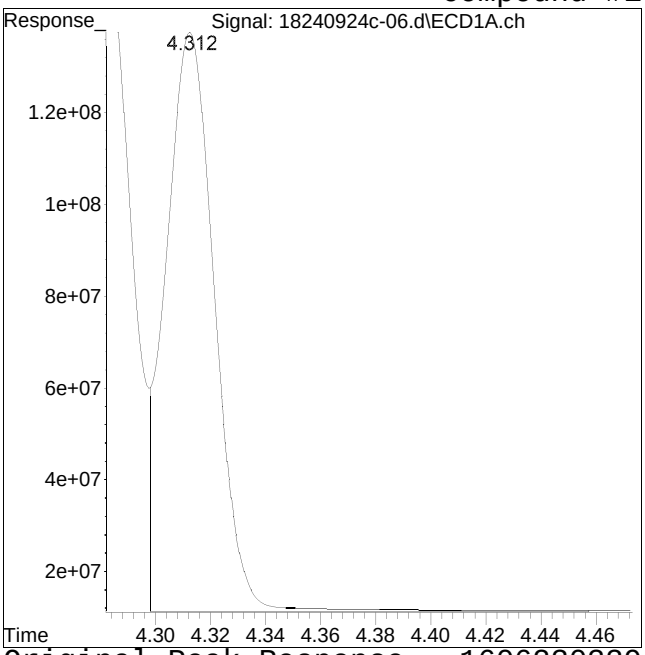


Original Peak Response = 1026655860 Manual Peak Response = 1015948864 M4
M4 = Poor automated baseline construction.

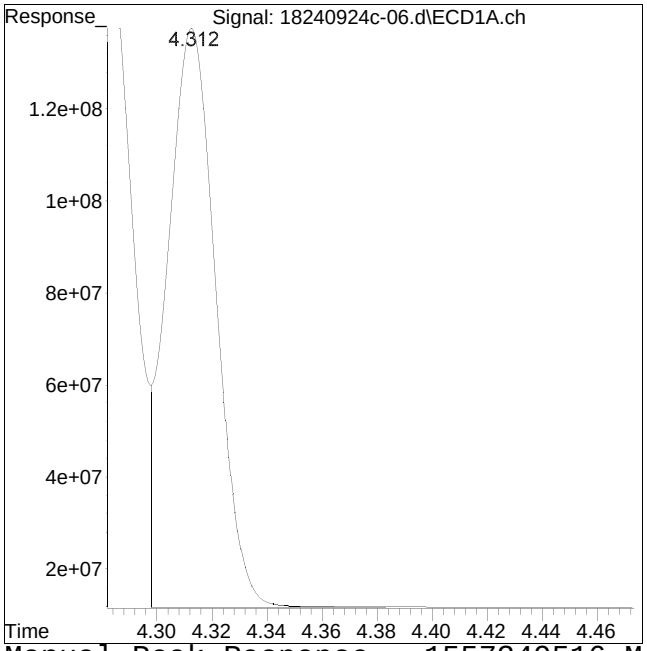
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #16: Endosulfan I



Original Peak Response = 1606230339

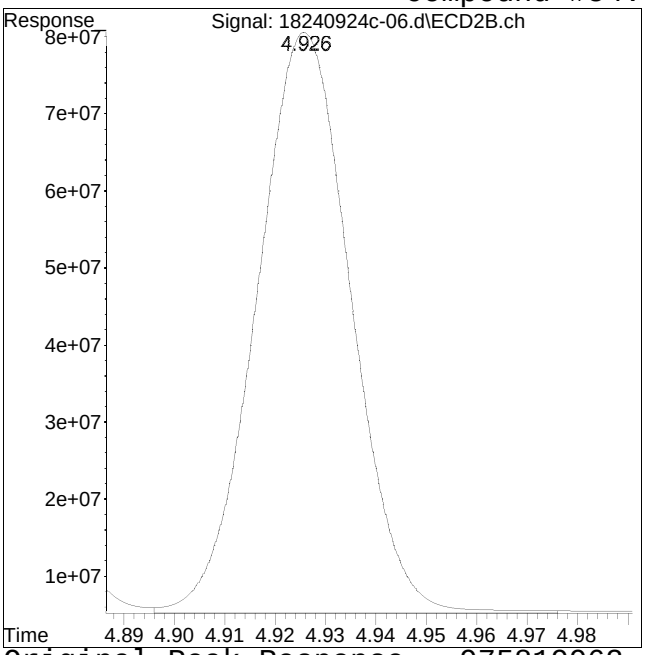


Manual Peak Response = 1557349516 M4
M4 = Poor automated baseline construction.

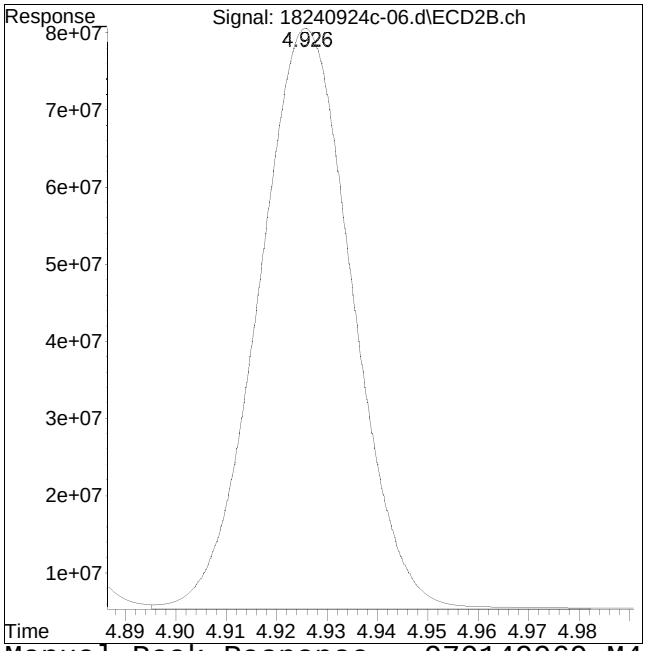
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #54: Endosulfan I #2



Original Peak Response = 975819962



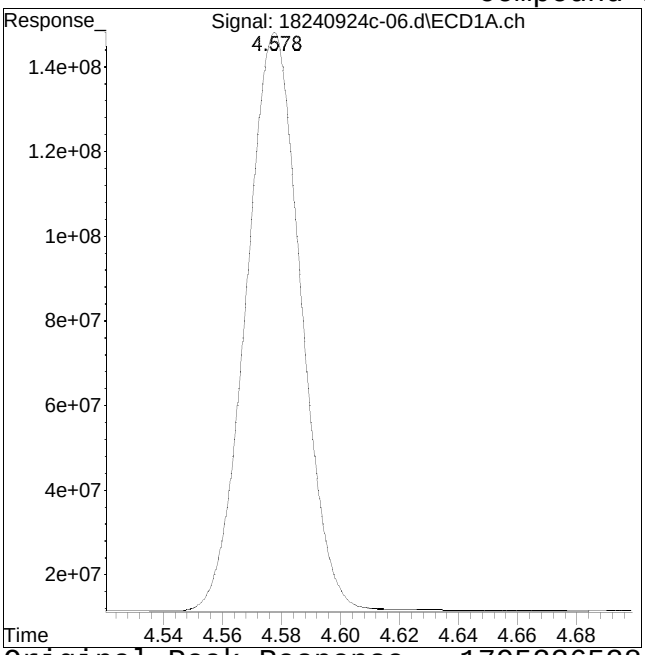
Manual Peak Response = 970149969 M4

M4 = Poor automated baseline construction.

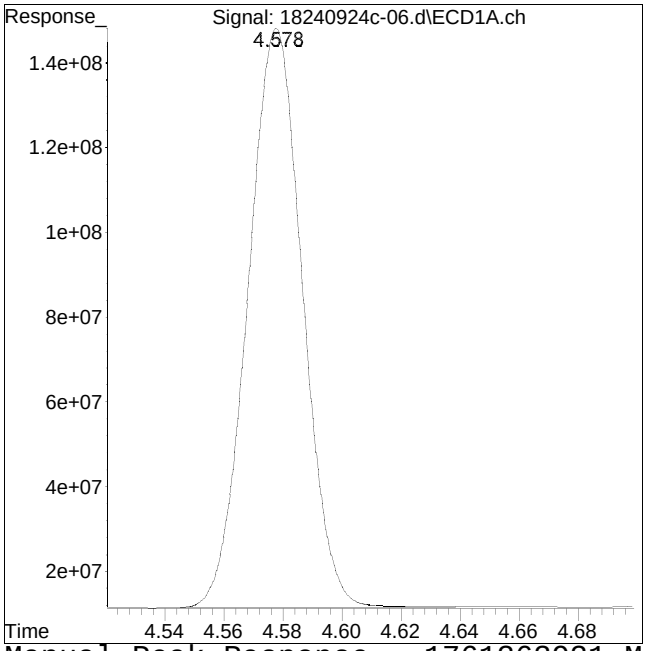
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #17: Dieldrin



Original Peak Response = 1795236528

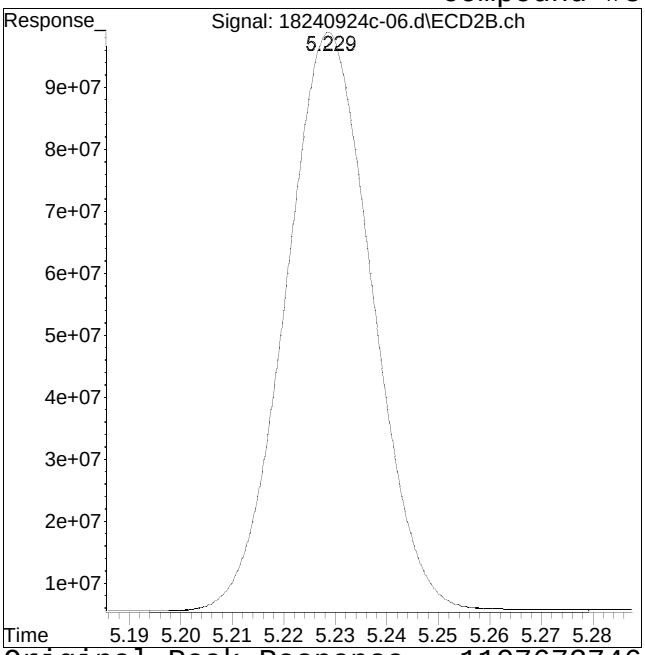


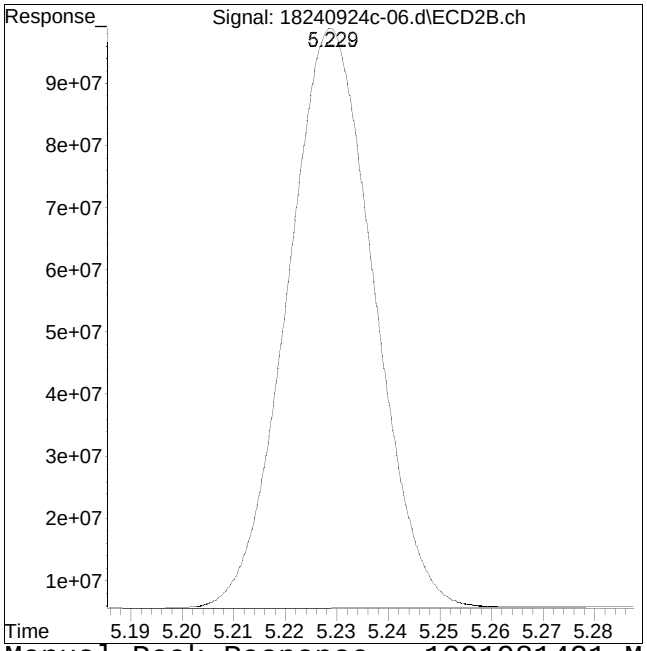
Manual Peak Response = 1761363931 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #55: Dieldrin #2



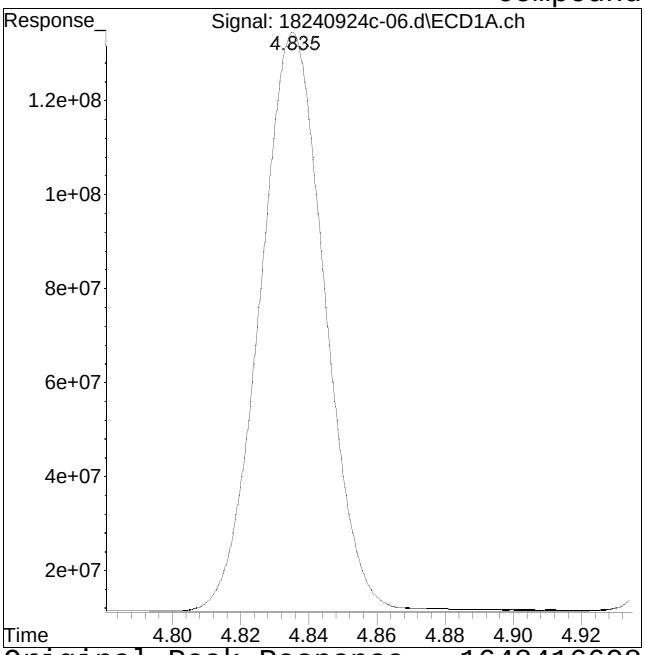


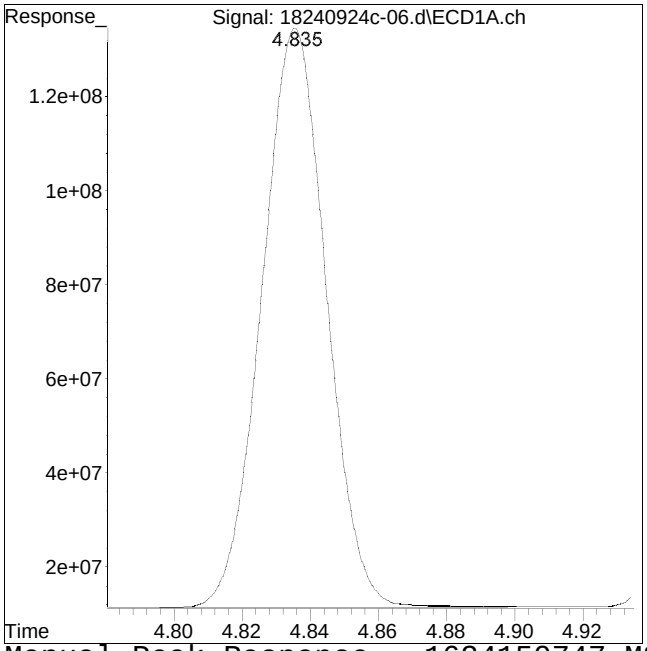
Original Peak Response = 1107673746 Manual Peak Response = 1091981421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #18: Endrin



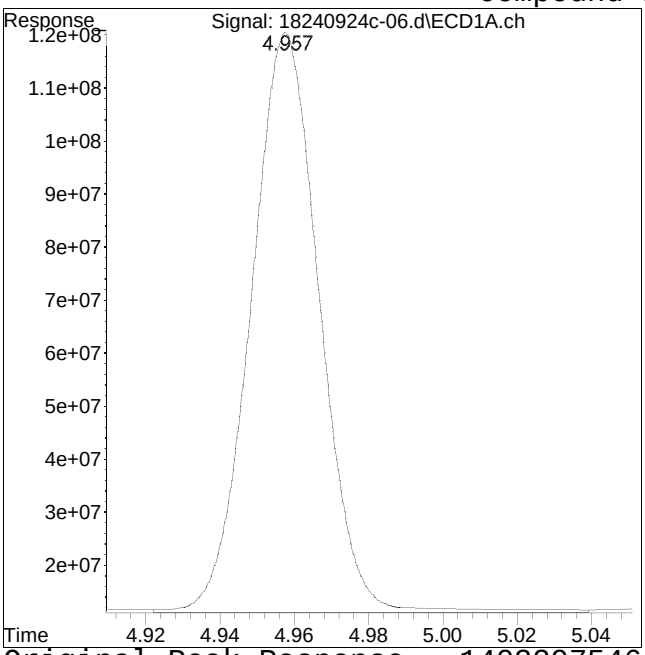


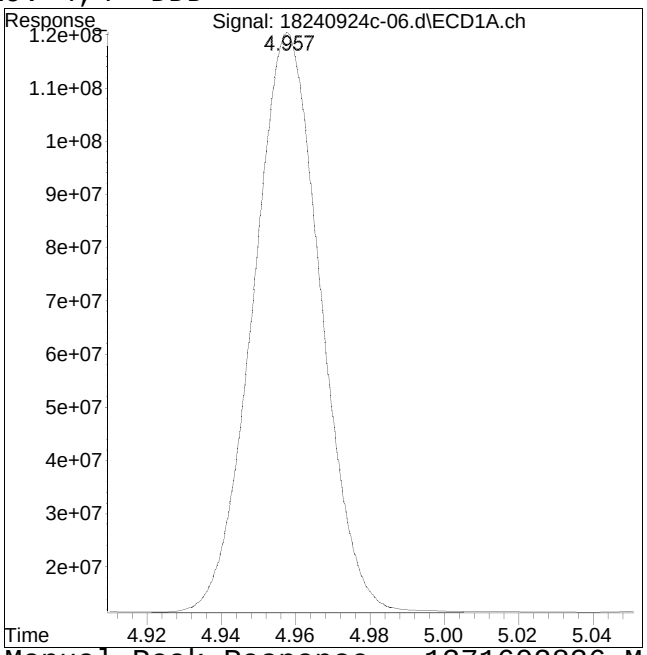
Original Peak Response = 1648416608 Manual Peak Response = 1624150747 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #19: 4,4'-DDD



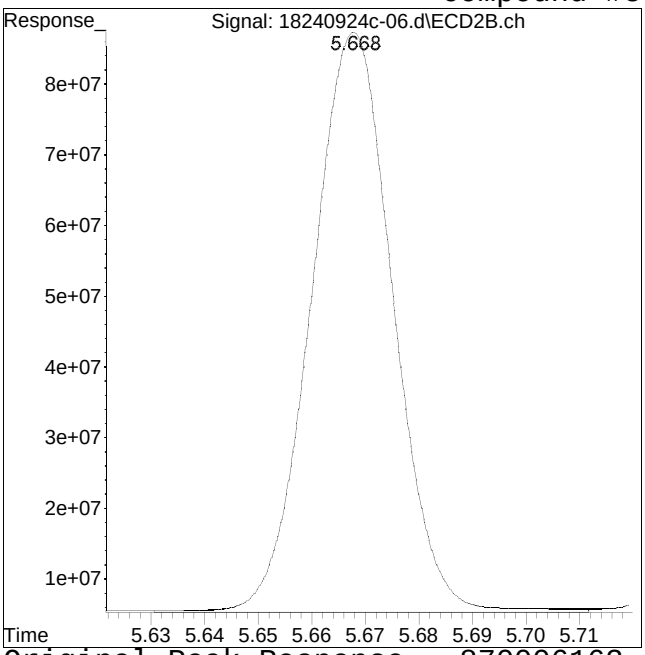


Original Peak Response = 1403297546 Manual Peak Response = 1371602836 M4
M4 = Poor automated baseline construction.

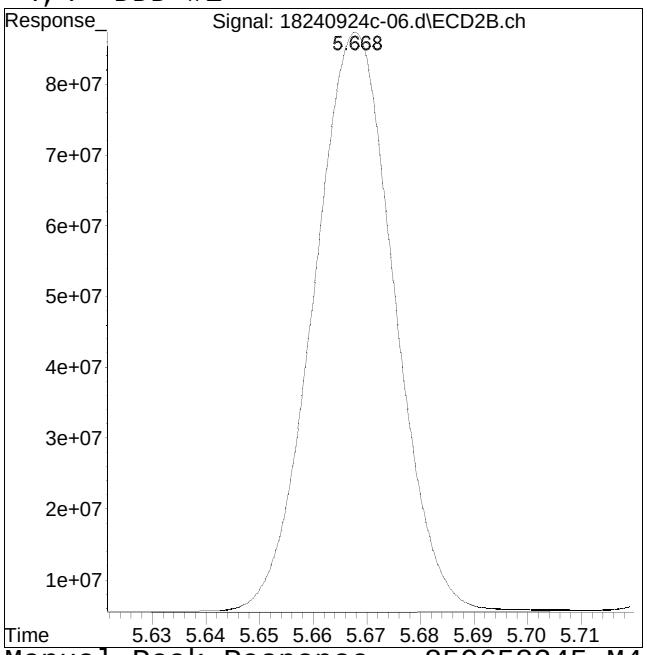
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 870006163



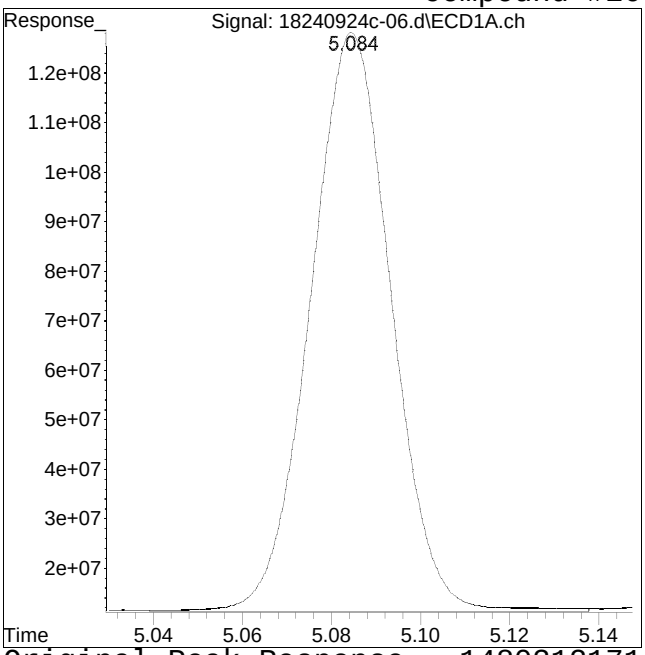
Manual Peak Response = 859658245 M4

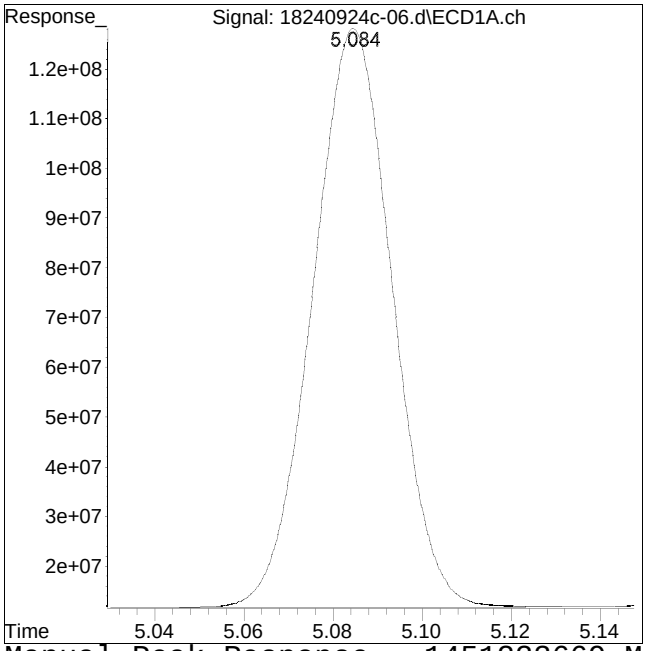
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #20: Endosulfan II



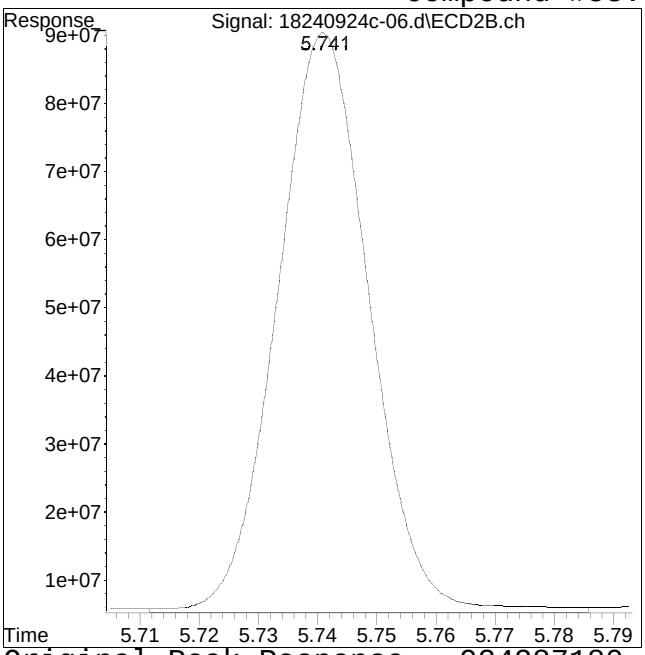


Original Peak Response = 1480312171 Manual Peak Response = 1451233669 M4
M4 = Poor automated baseline construction.

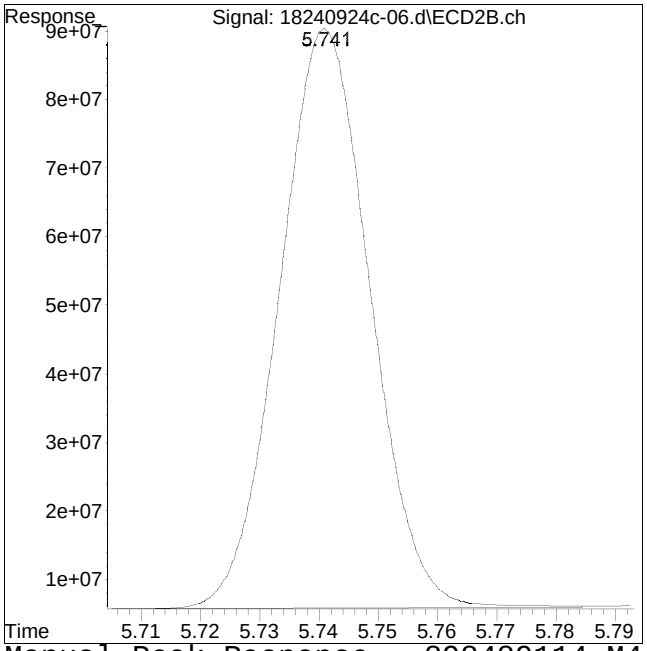
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #58: Endosulfan II #2



Original Peak Response = 924287180



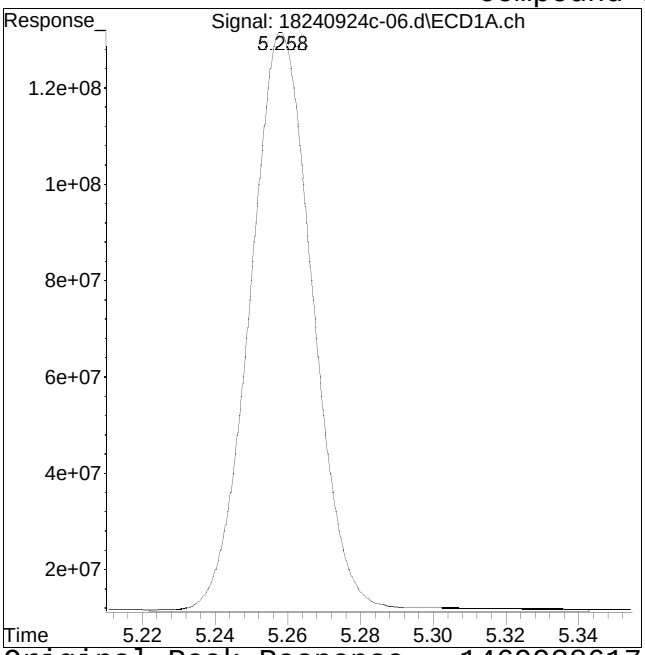
Manual Peak Response = 898489114 M4

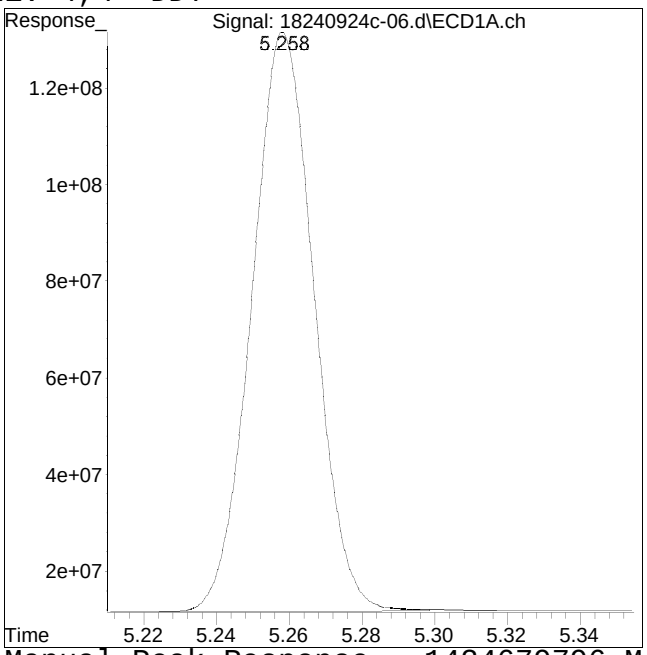
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #21: 4,4'-DDT



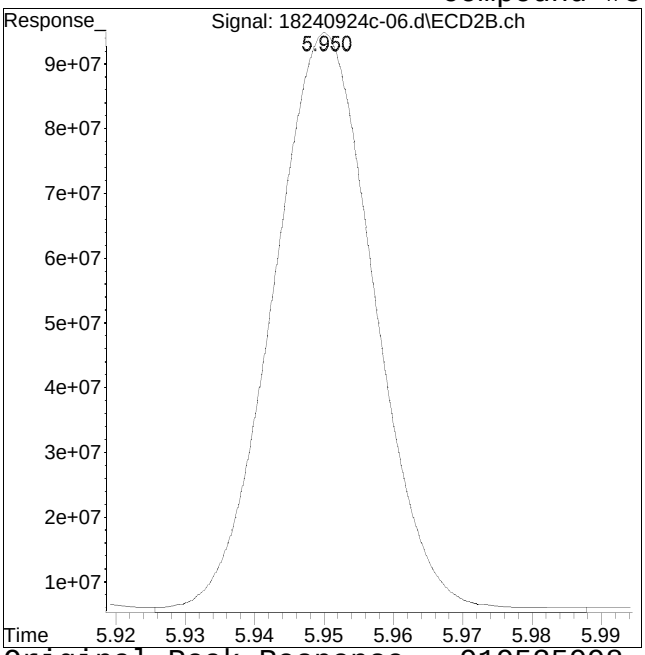


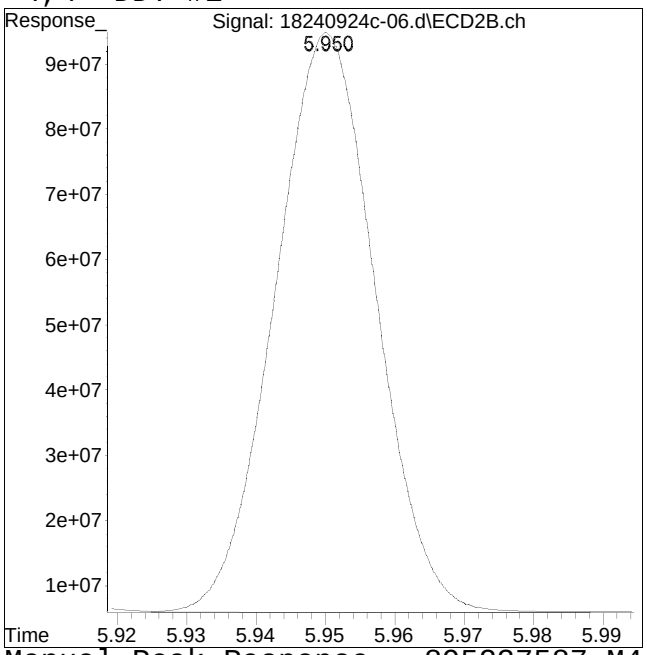
Original Peak Response = 1469938617 Manual Peak Response = 1424679796 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #59: 4,4'-DDT #2



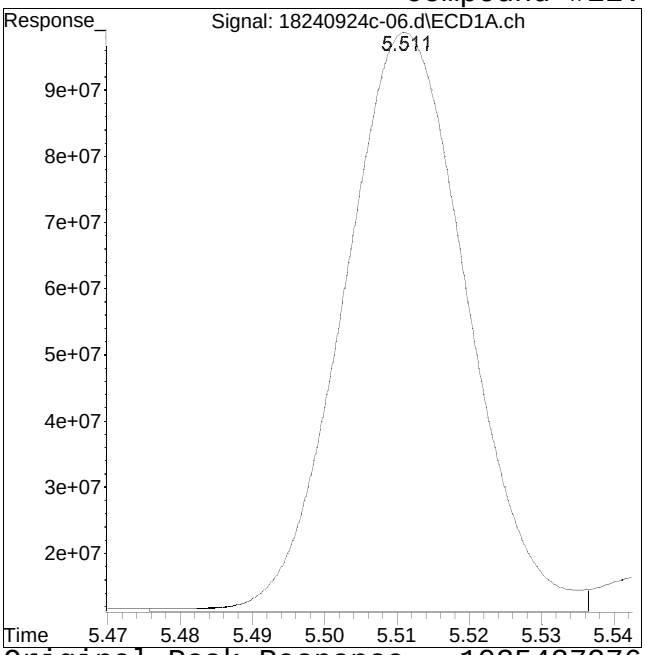


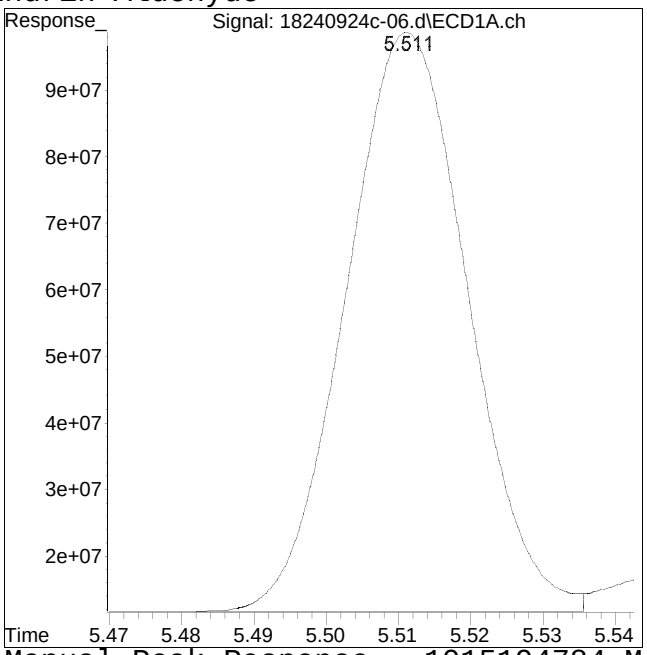
Original Peak Response = 919535998 Manual Peak Response = 895237587 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #22: Endrin Aldehyde



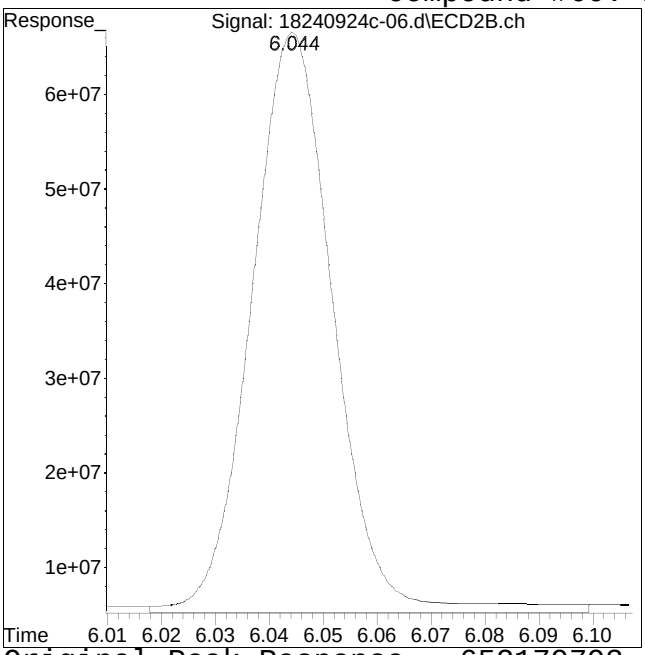


Original Peak Response = 1035427276 Manual Peak Response = 1015194784 M4
M4 = Poor automated baseline construction.

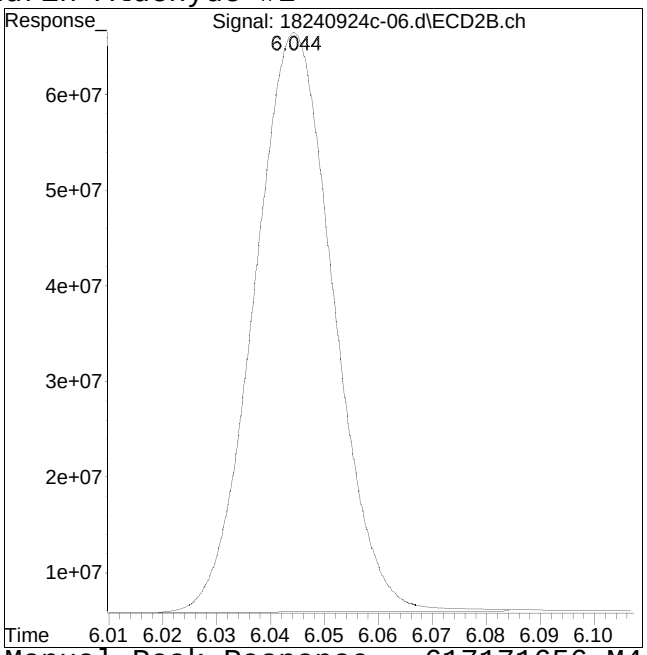
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 652179793



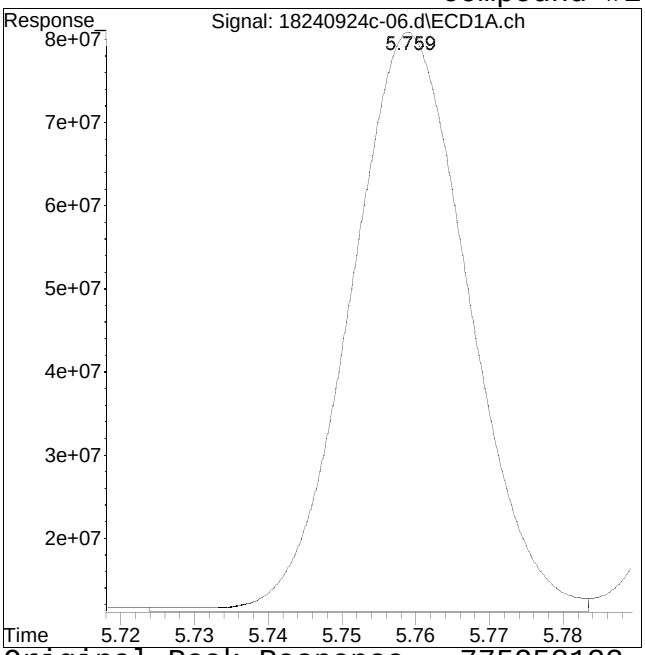
Manual Peak Response = 617171656 M4

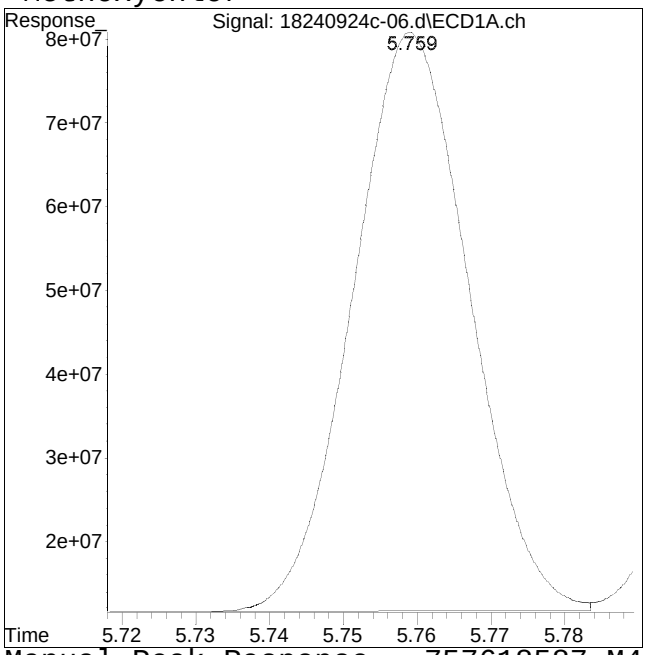
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #23: Methoxychlor



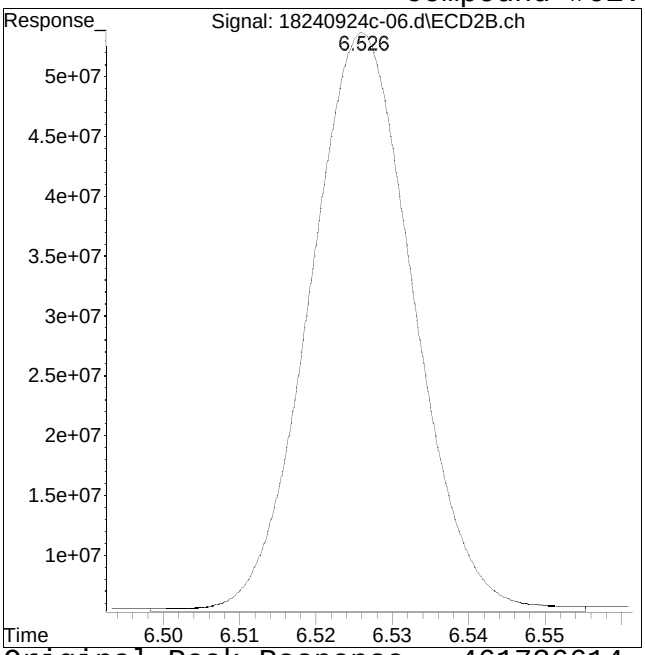


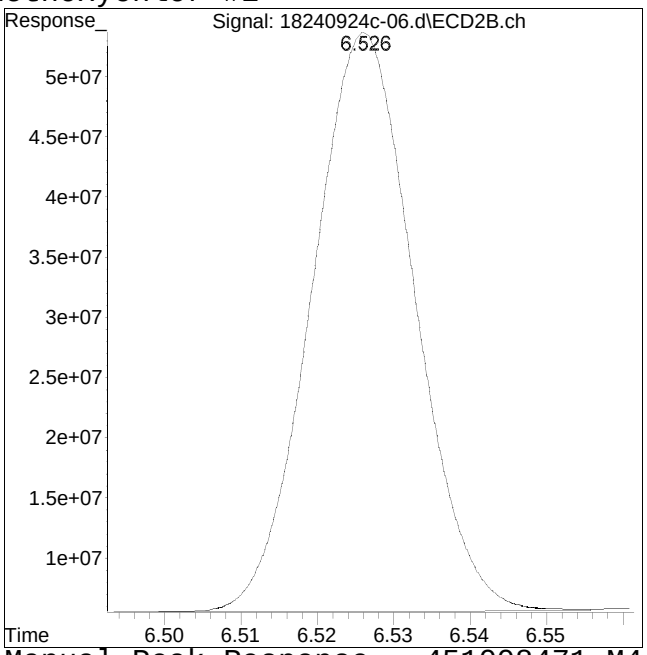
Original Peak Response = 775253133 Manual Peak Response = 757618587 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #61: Methoxychlor #2



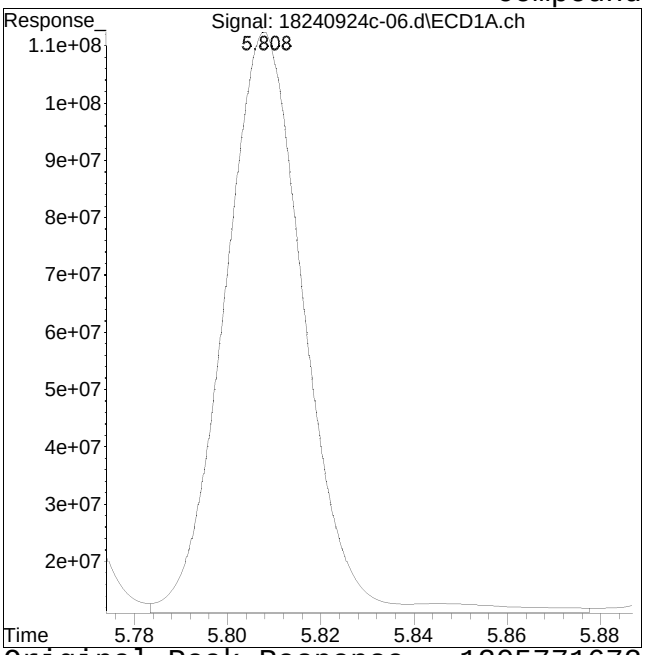


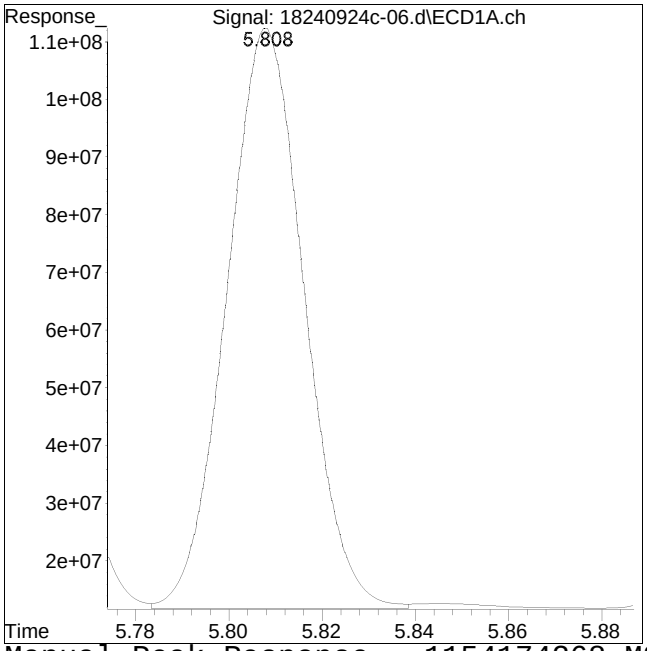
Original Peak Response = 461736614 Manual Peak Response = 451008471 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #24: Mirex



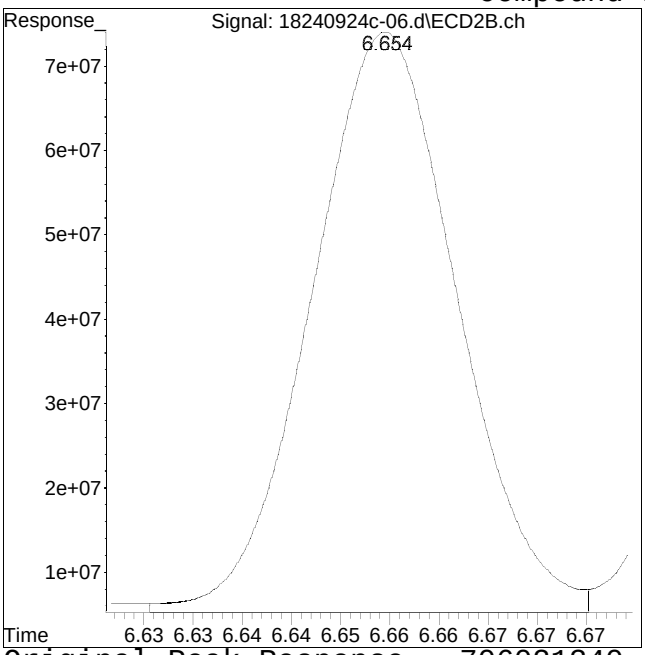


Original Peak Response = 1205771672 Manual Peak Response = 1154174268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

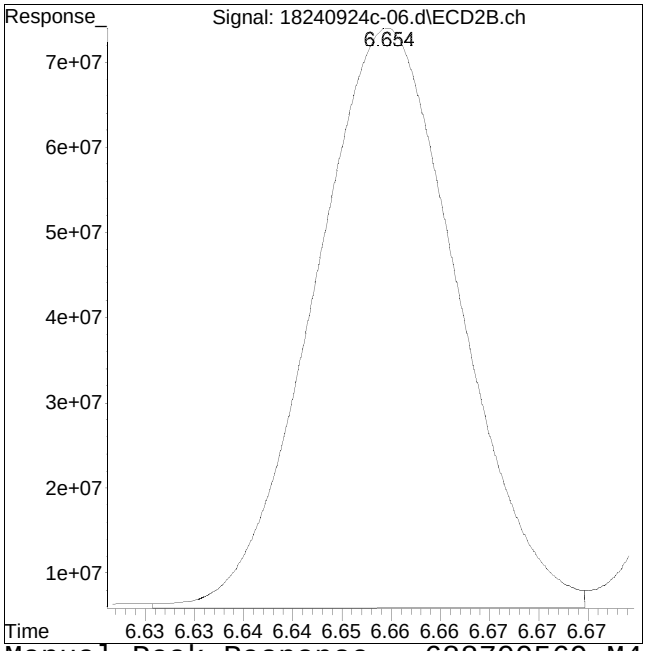
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #62: Mirex #2



Original Peak Response = 706021340



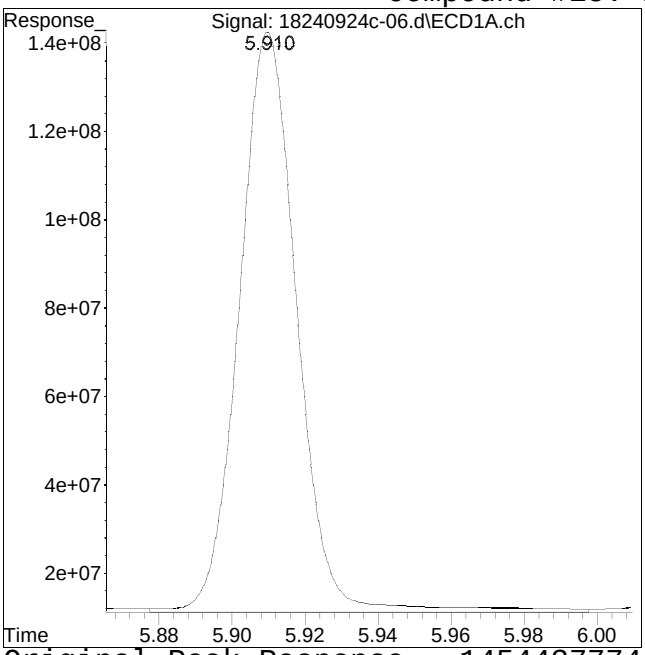
Manual Peak Response = 688700569 M4

M4 = Poor automated baseline construction.

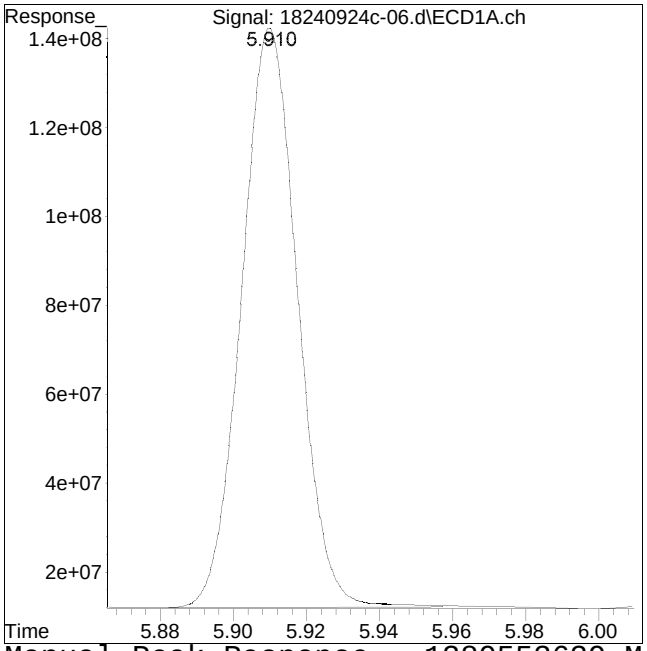
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 1454437774



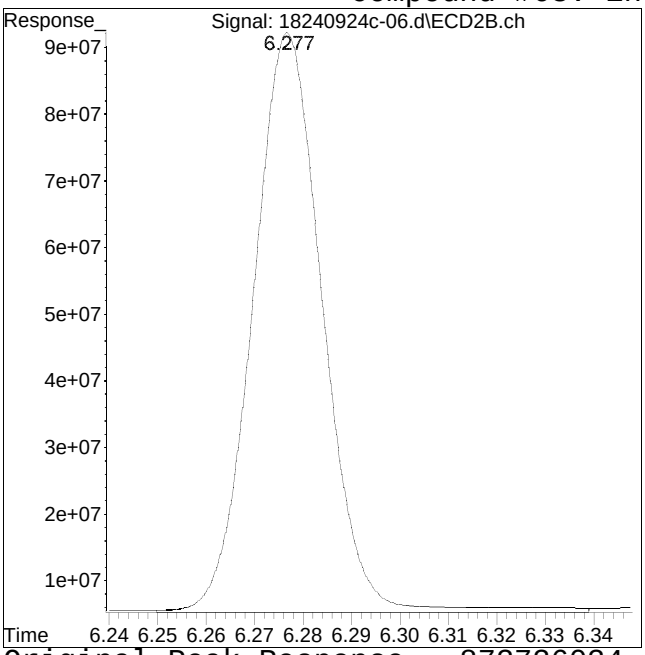
Manual Peak Response = 1389553639 M4

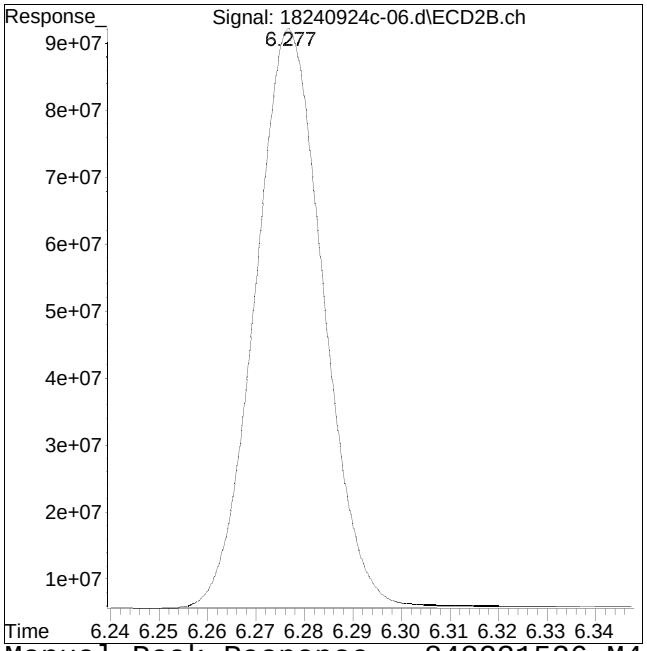
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #63: Endosulfan Sulfate #2



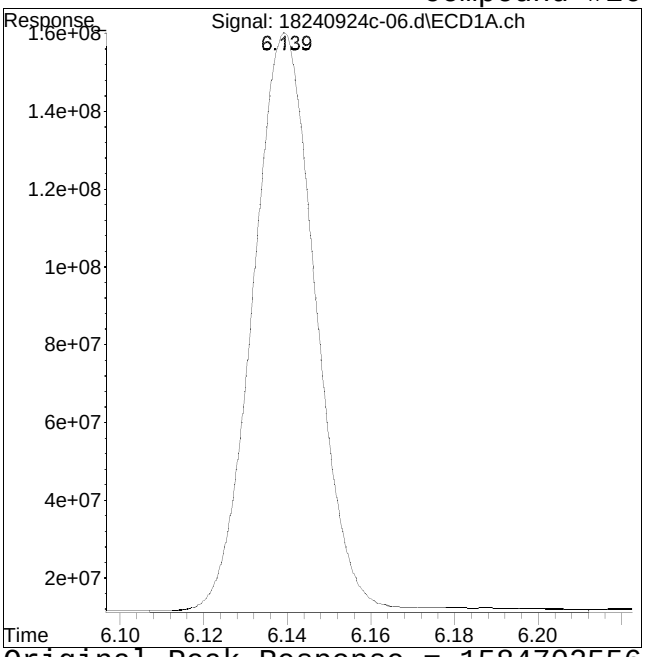


Original Peak Response = 873736034 Manual Peak Response = 848231526 M4
M4 = Poor automated baseline construction.

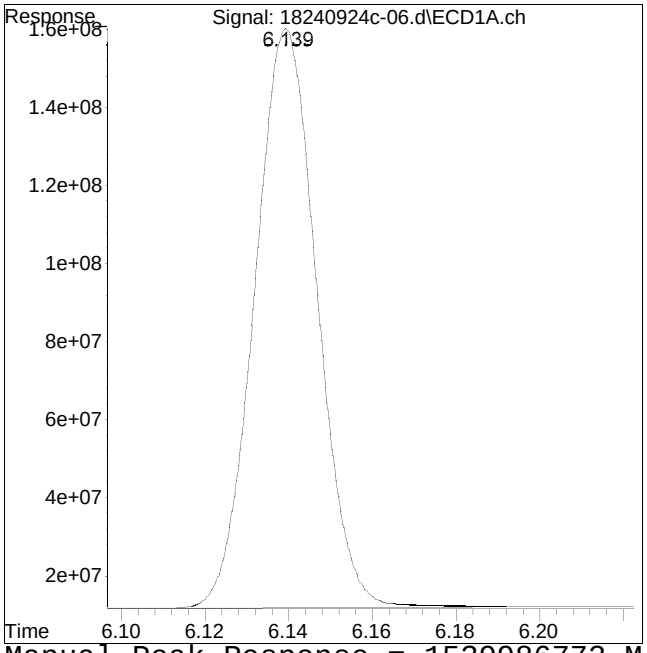
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #26: Endrin Ketone



Original Peak Response = 1584702556



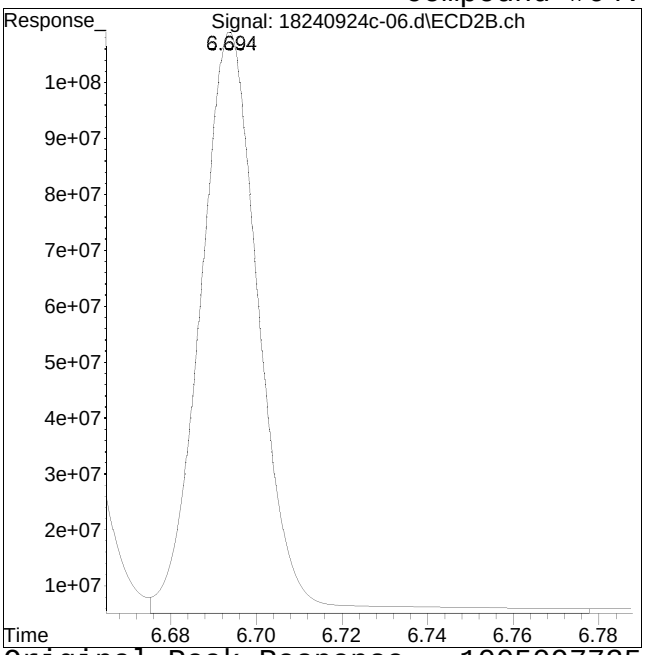
Manual Peak Response = 1539986773 M4

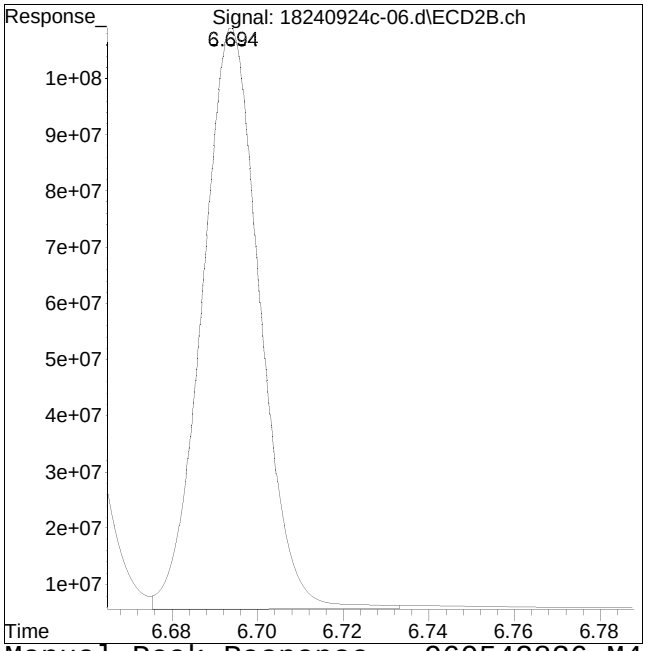
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #64: Endrin Ketone #2



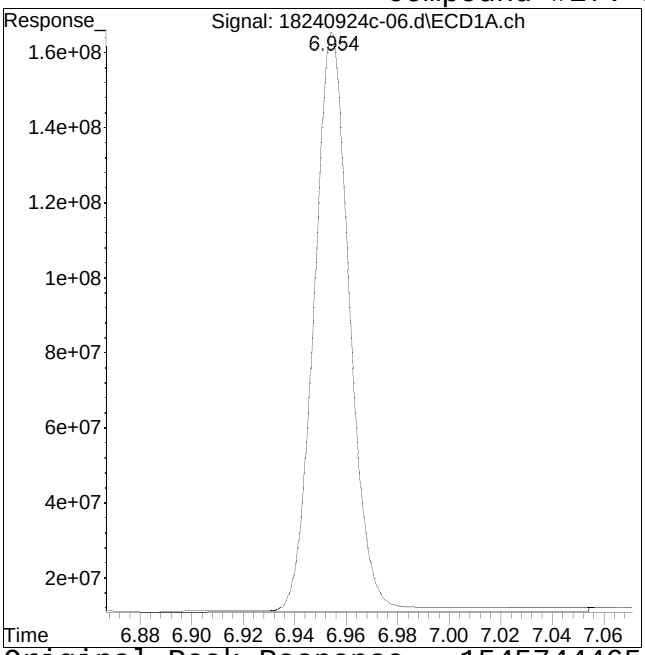


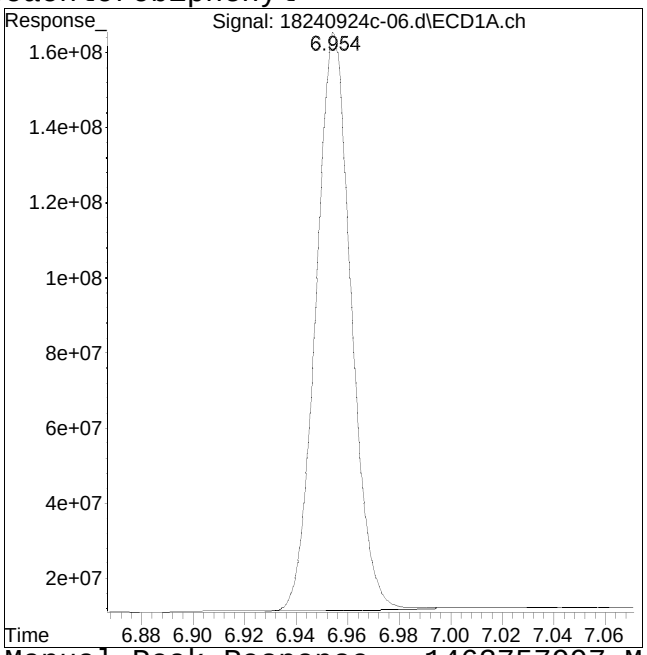
Original Peak Response = 1005097735 Manual Peak Response = 960542836 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #27: Decachlorobiphenyl



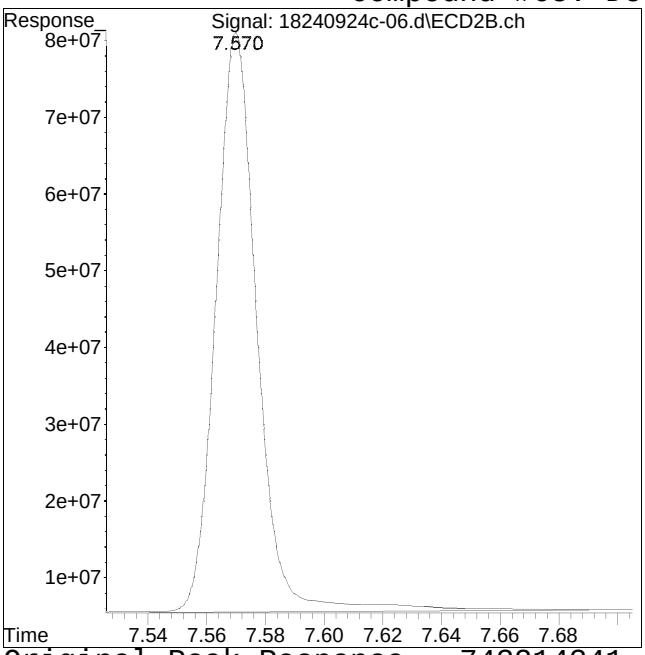


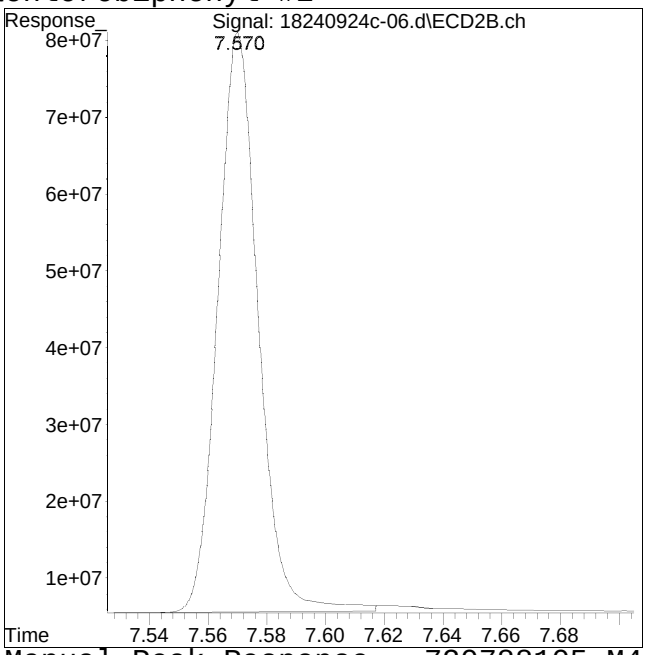
Original Peak Response = 1545744465 Manual Peak Response = 1463757997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-06.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 10:38 Instrument : Pest 18
Sample : wg1975559-1,42,,pest11675 Quant Date : 9/24/2024 10:59 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 743214341 Manual Peak Response = 720788105 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/23/24 07:05
PEM Standard	: R1879294-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	344270.43621	284412.66304
Endrin	732474224.38524	450014916.16366
4,4'-DDD	906646.41544	1221484.35236
4,4'-DDT	1184682611.2813	806296469.32553
Endrin Aldehyde	0	846332.31623
Endrin Ketone	1596775.15312	1391687.14298

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.218	0.495
DDT	0.105	0.186

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Analysis Date**	: 09/24/24 09:52
PEM Standard	: R1879732-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	849555.5368	685304.98126
Endrin	1401712783.5279	851066590.55746
4,4'-DDD	2129901.55815	1399485.53825
4,4'-DDT	2477178988.1165	1524930727.5201
Endrin Aldehyde	3293272.7709	1863519.08675
Endrin Ketone	5388256.71116	2999061.49556

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.616	0.568
DDT	0.120	0.136

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:05
Operator : PEST11:peg
Sample : pem11240923a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.196	1.269	273.8E6	189.7E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.434	4.268	344270	284413	0.026M4	0.028M4
18) t	Endrin	3.963	4.717	732.5E6	450.0E6	58.022M4	44.048
19) t D	4,4'-DDD	4.086	4.856	906646	1221484	0.089M4	0.149M4
21) t	4,4'-DDT	4.401	5.143	1184.7E6	806.3E6	102.207	85.016
22) t	Endrin Aldeh	0.000	5.235	0	846332	N.D. d	N.D. M4
26) t	Endrin Keton	5.299	5.888	1596775	1391687	0.123M4	0.146M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:05
Operator : PEST11:peg
Sample : pem11240923a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

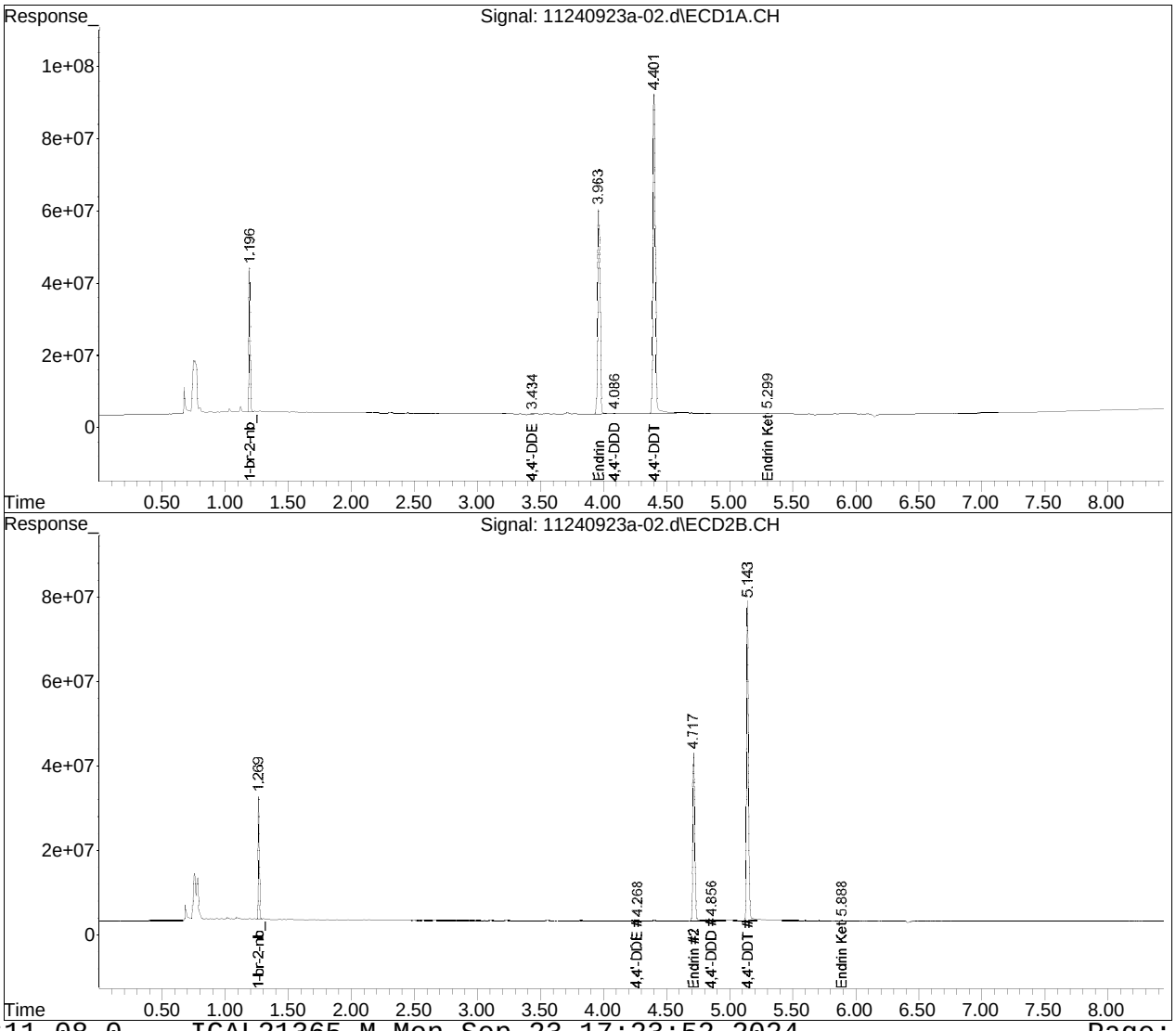
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240923a\
Data File : 11240923a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 7:05
Operator : PEST11:peg
Sample : pem11240923a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1974956,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 07:54:38 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

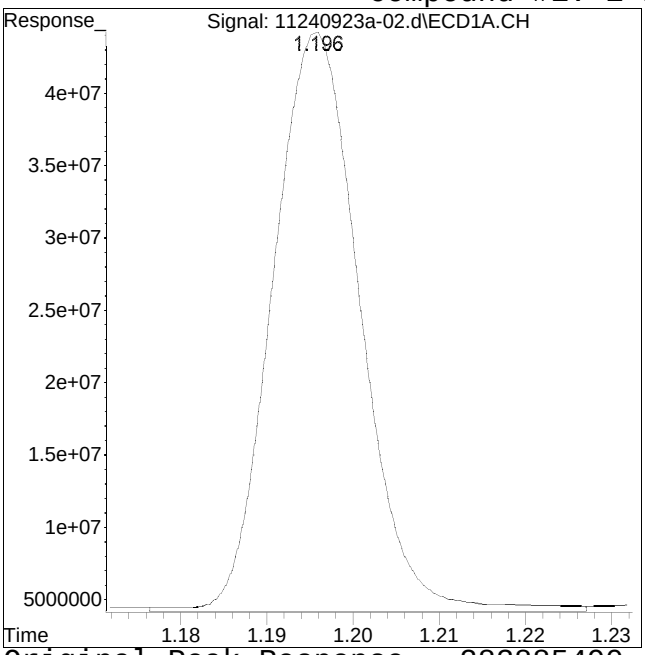
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

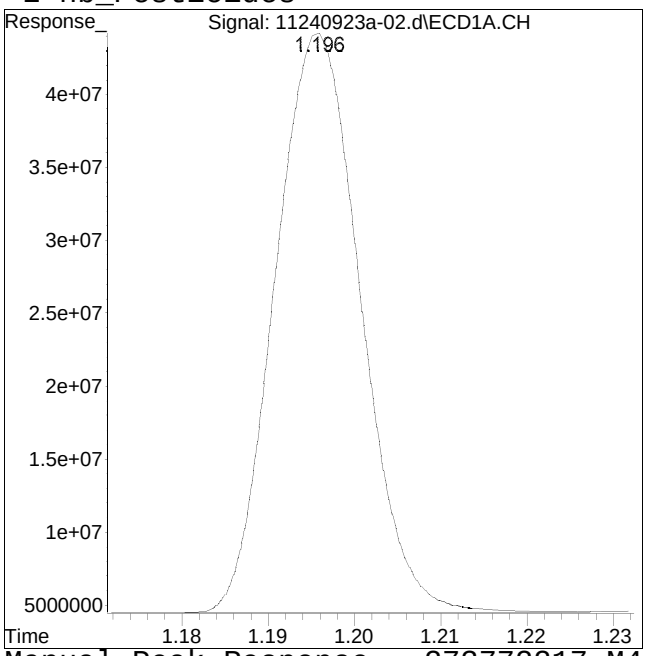


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #1: 1-br-2-nb_Pesticides





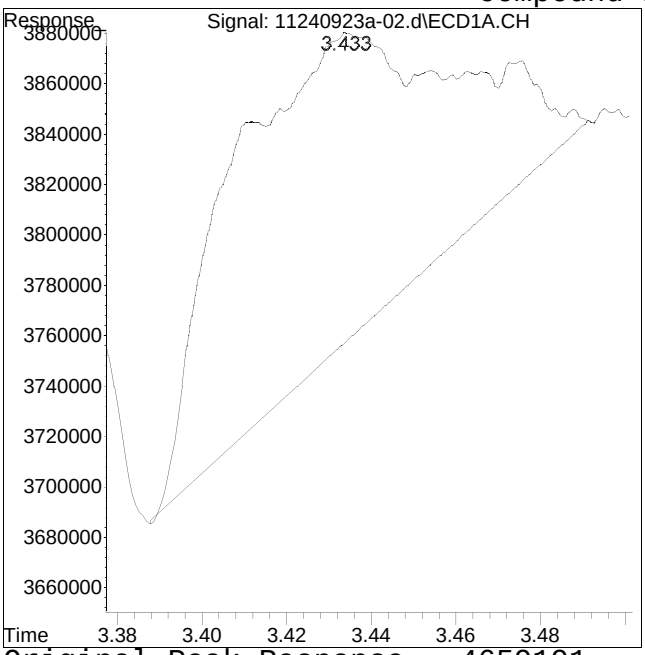
Original Peak Response = 283885490 Manual Peak Response = 273772217 M4
M4 = Poor automated baseline construction.

Manual Integration Report

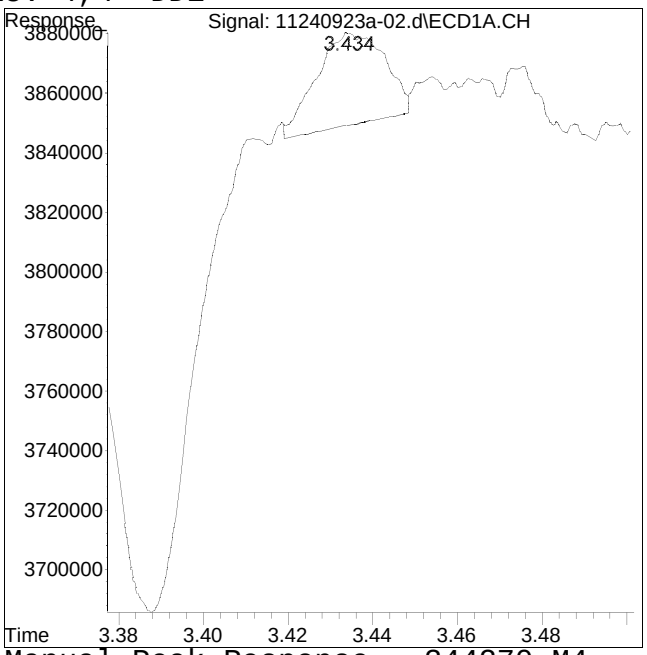
Data Path : I:\PEST\Pest11\2024\240923Q
Data File : 11240923a-02.d
Date Inj'd : 9/23/2024 7:05
Sample : pem11240923a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/23/2024 7:54 am

Compound #15: 4,4'-DDE



Original Peak Response = 4659191



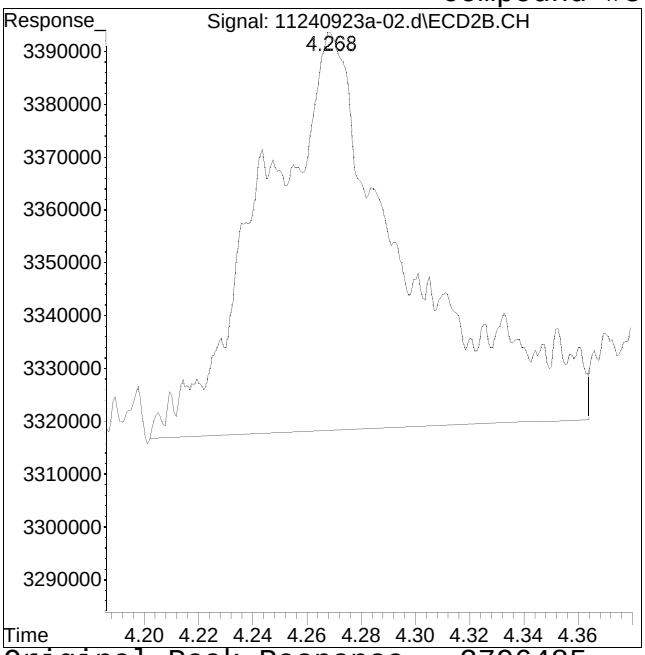
Manual Peak Response = 344270 M4

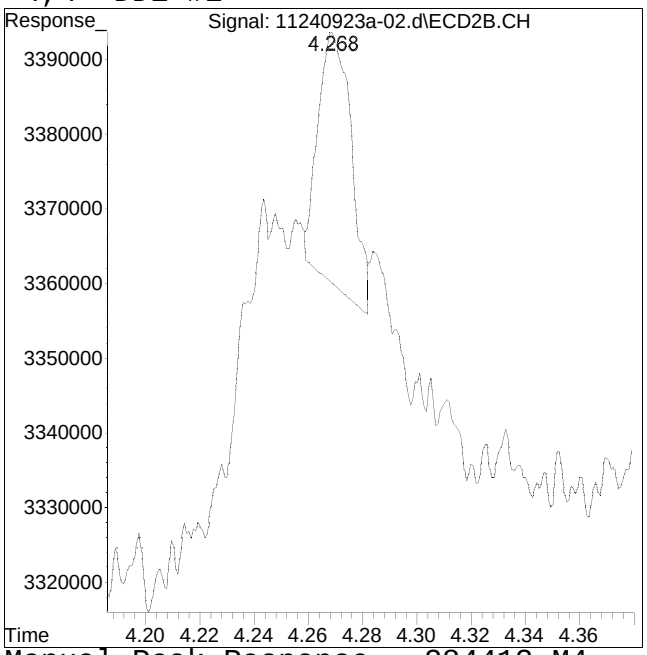
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #53: 4,4'-DDE #2



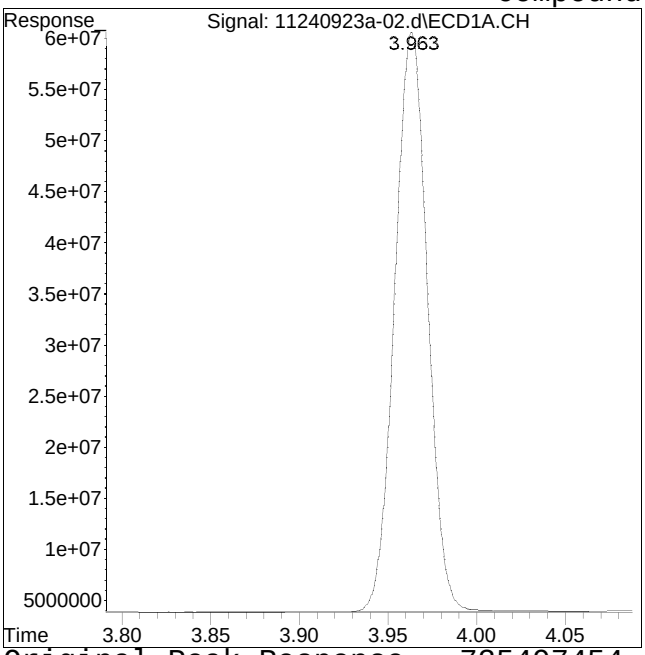


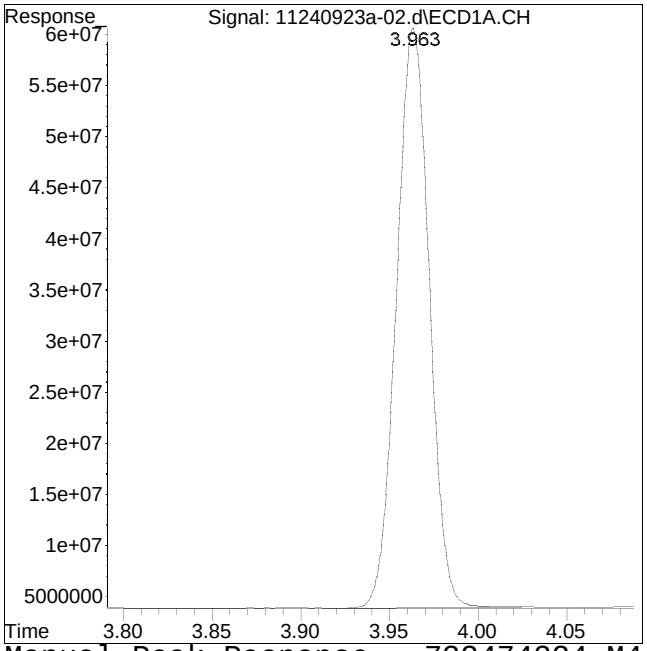
Original Peak Response = 2796485 Manual Peak Response = 284413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #18: Endrin



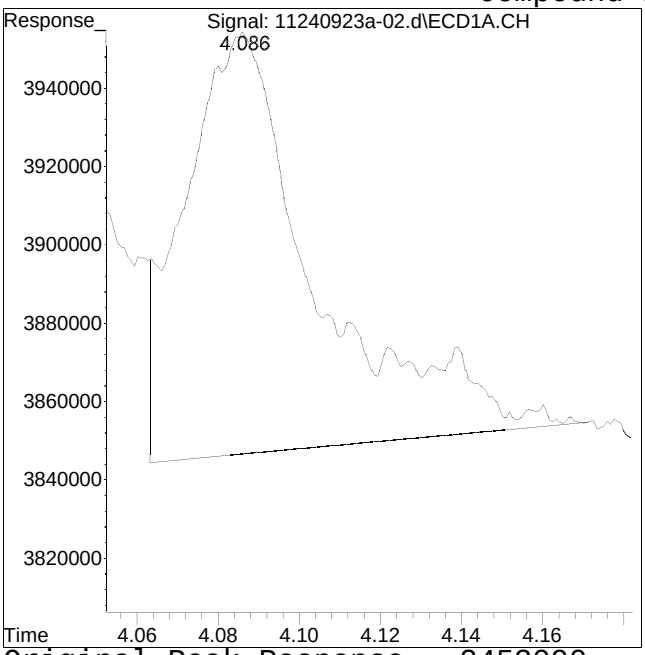


Original Peak Response = 735497454 Manual Peak Response = 732474224 M4
M4 = Poor automated baseline construction.

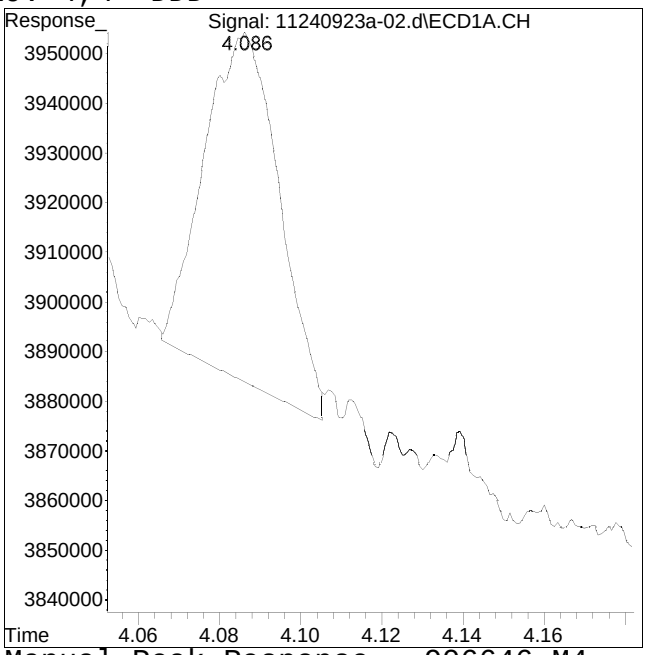
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #19: 4,4'-DDD



Original Peak Response = 2453090



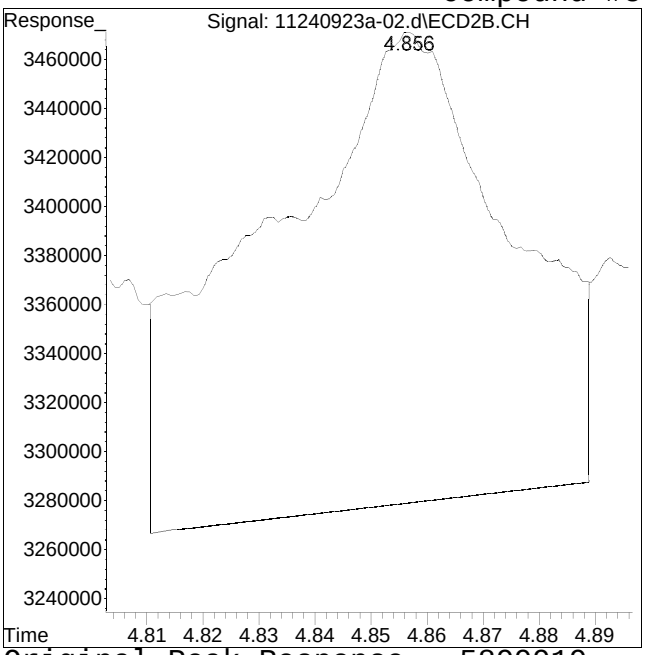
Manual Peak Response = 906646 M4

M4 = Poor automated baseline construction.

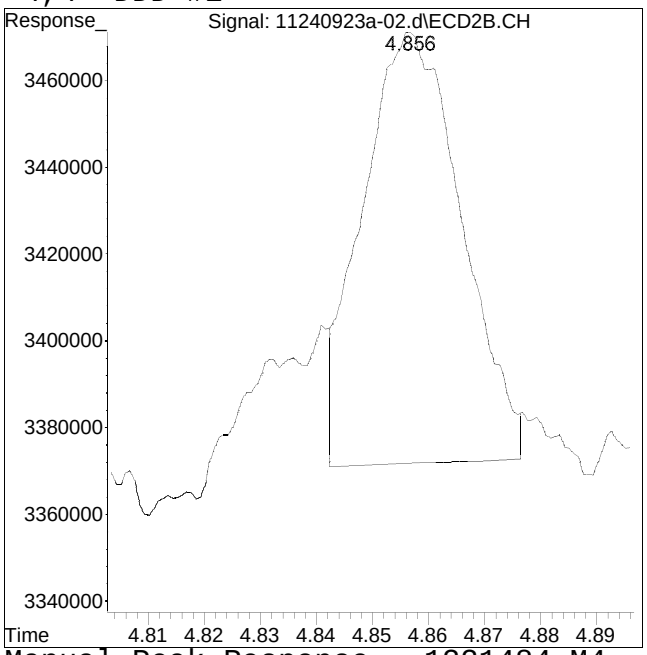
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 5899919



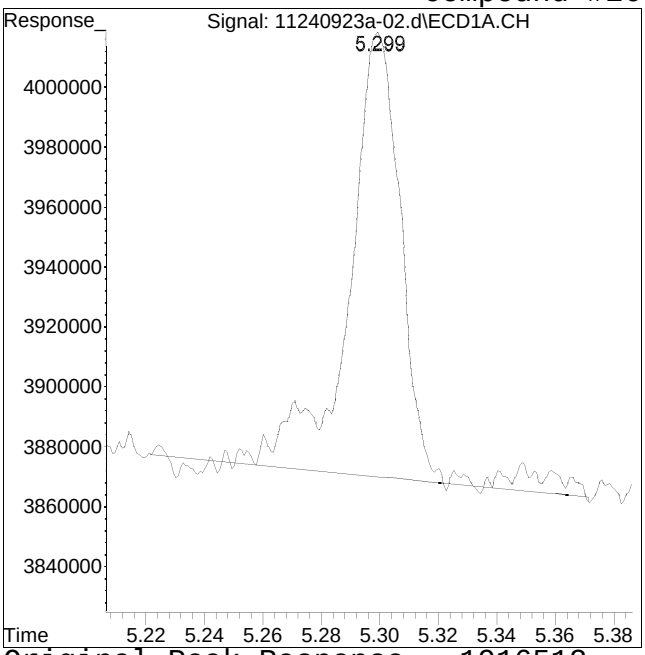
Manual Peak Response = 1221484 M4

M4 = Poor automated baseline construction.

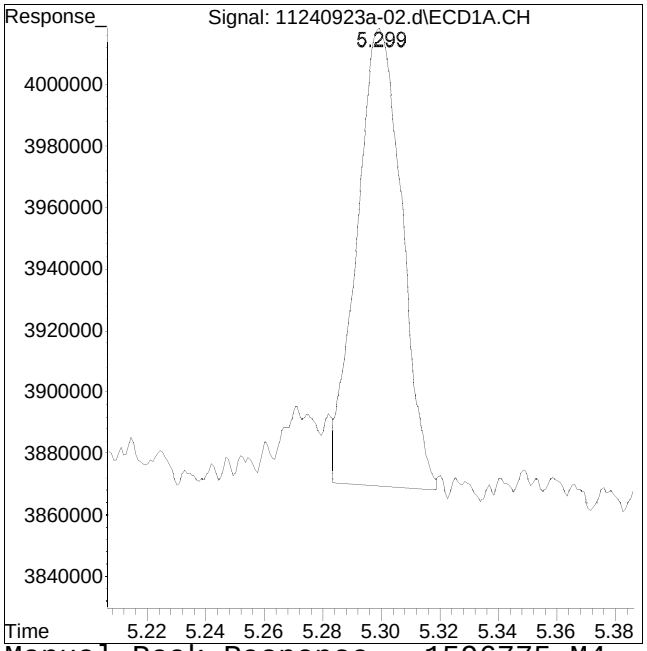
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-02.d Operator : PEST11:peg
Date Inj'd : 9/23/2024 7:05 Instrument : Pest 11
Sample : pem11240923a-01,42,,deg115Quant Date : 9/23/2024 7:54 am

Compound #26: Endrin Ketone



Original Peak Response = 1916512



Manual Peak Response = 1596775 M4

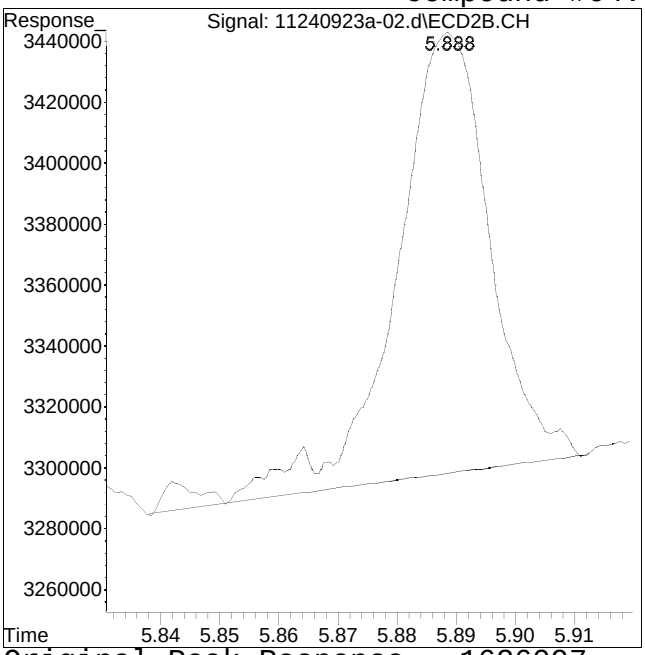
M4 = Poor automated baseline construction.

Manual Integration Report

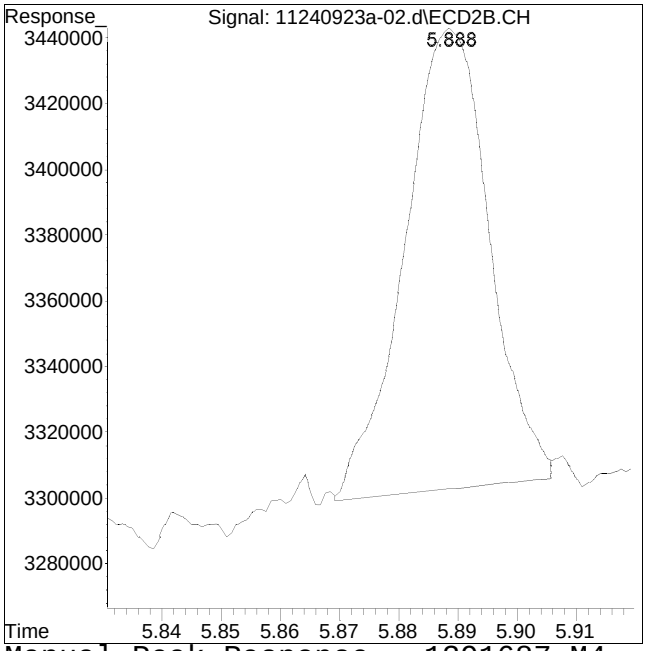
Data Path : I:\PEST\Pest11\2024\240923Q
Data File : 11240923a-02.d
Date Inj'd : 9/23/2024 7:05
Sample : pem11240923a-01,42,,deg115

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 9/23/2024 7:54 am

Compound #64: Endrin Ketone #2



Original Peak Response = 1626097



Manual Peak Response = 1391687 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 9:52
Operator : PEST18:akm
Sample : pem18240924c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:47 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.713	1.810	645.7E6	344.1E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) D	4,4'-DDE	4.290	5.078	849556	685305	0.026M4	0.040M4
18)	Endrin	4.839	5.536	1401.7E6	851.1E6	44.877M4	51.643
19)	4,4'-DDD	4.962	5.667	2129902	1399486	0.084M4	0.104M4
21)	4,4'-DDT	5.261	5.951	2477.2E6	1524.9E6	86.640M4	103.514M4
22)	Endrin Aldeh	5.513	6.046	3293273	1863519	0.138M4	0.150M4
26)	Endrin Keton	6.141	6.694	5388257	2999061	0.172M4	0.195M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 9:52
Operator : PEST18:akm
Sample : pem18240924c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:47 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

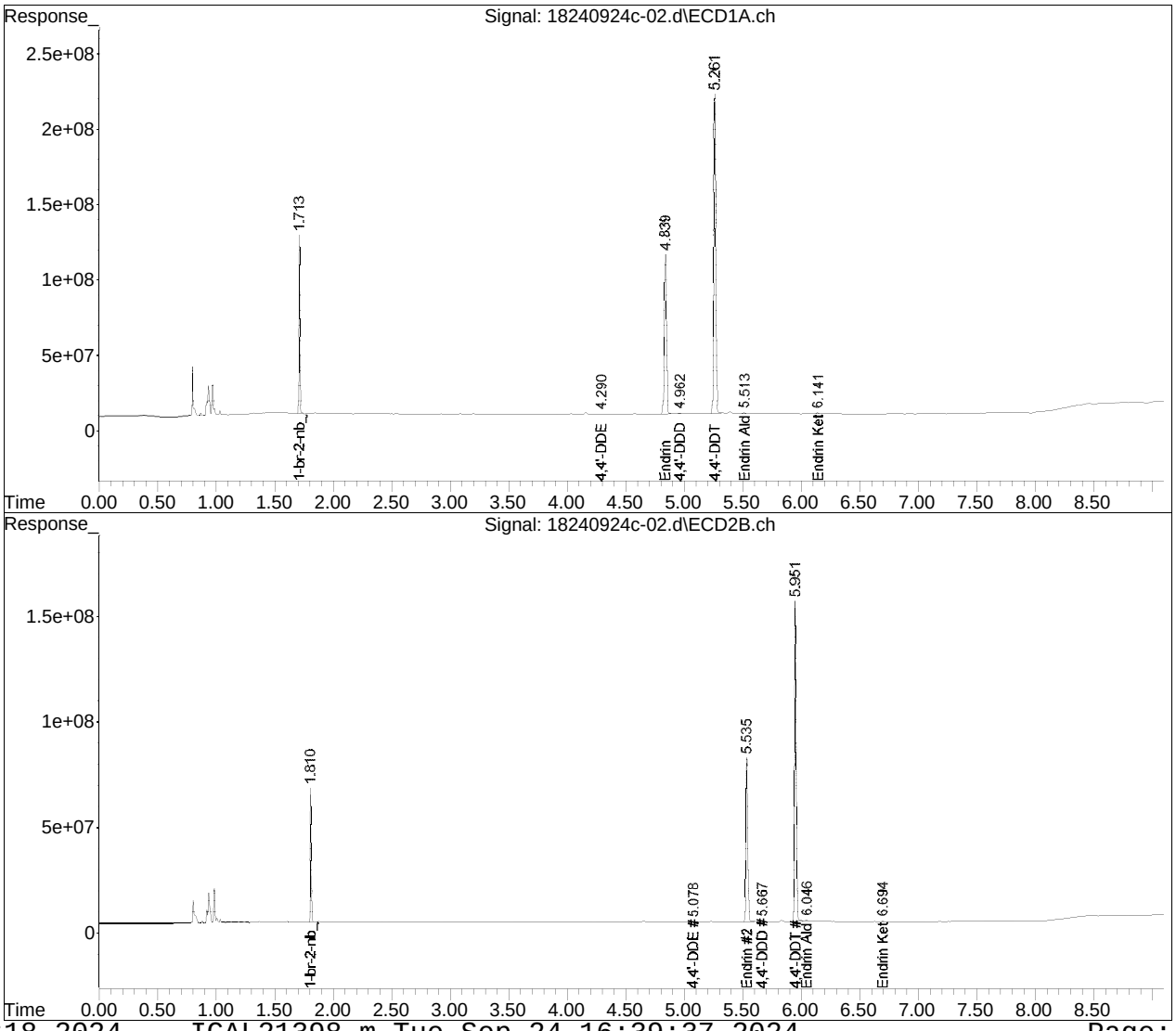
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240924C\
Data File : 18240924c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 9:52
Operator : PEST18:akm
Sample : pem18240924c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975559,,ical21398
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 24 10:59:47 2024
Quant Method : I:\PEST\Pest18\2024\240924C\pest18_2024_08_15_ugL_ICAL21398.m
Quant Title : pest
QLast Update : Tue Sep 24 10:59:21 2024
Response via : Initial Calibration
Integrator: ChemStation

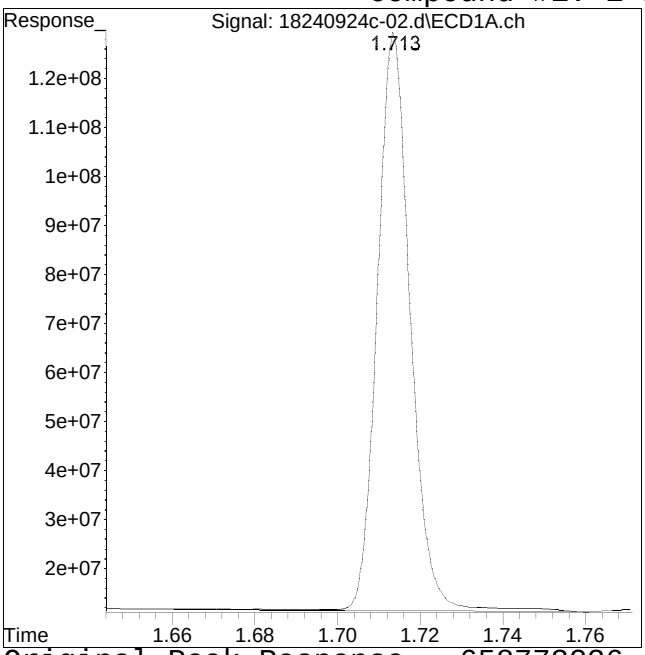
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

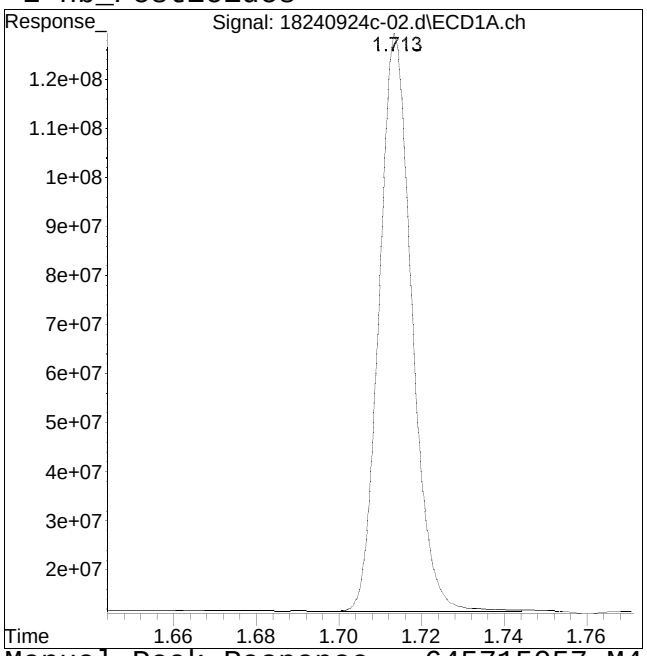


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #1: 1-br-2-nb_Pesticides



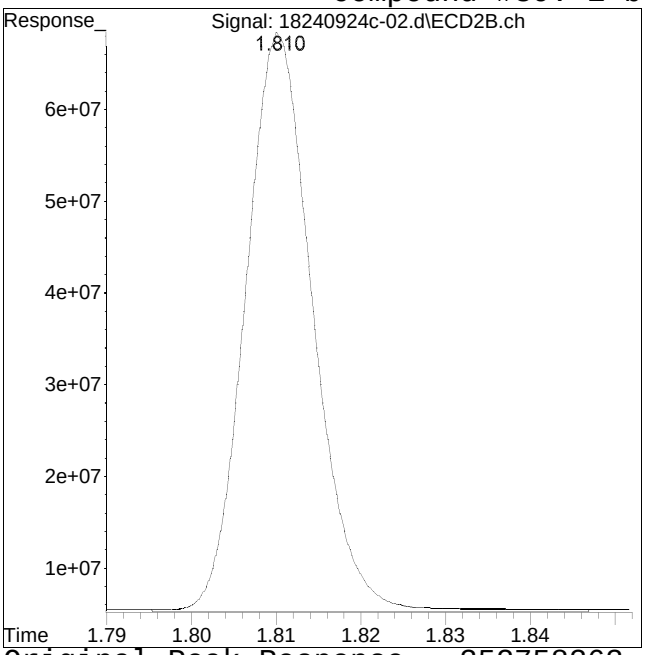


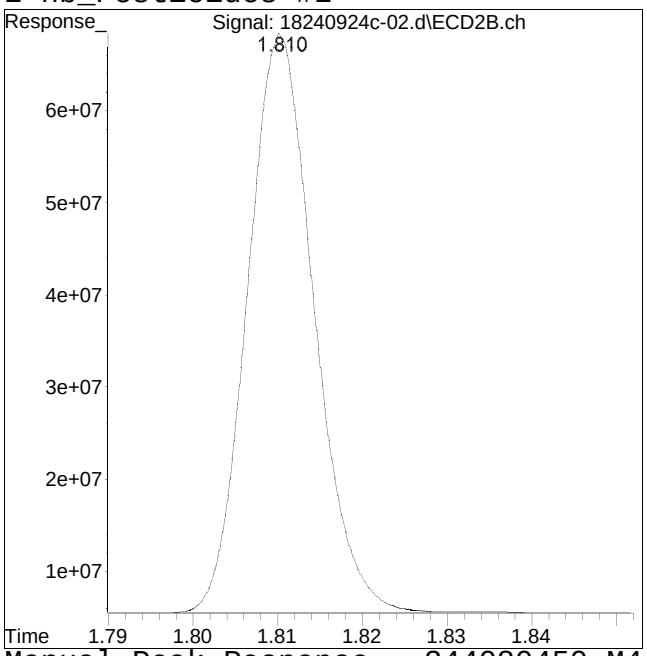
Original Peak Response = 658773236 Manual Peak Response = 645715057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #39: 1-br-2-nb_Pesticides #2



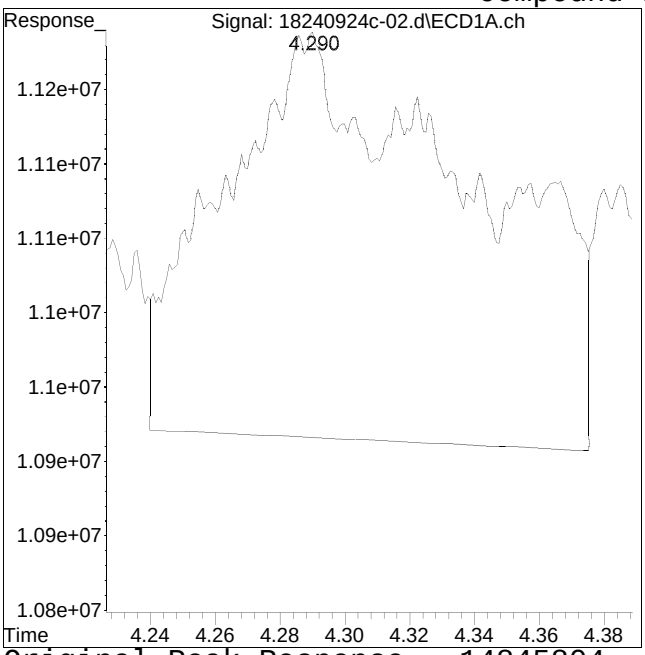


Original Peak Response = 352758363 Manual Peak Response = 344080450 M4
M4 = Poor automated baseline construction.

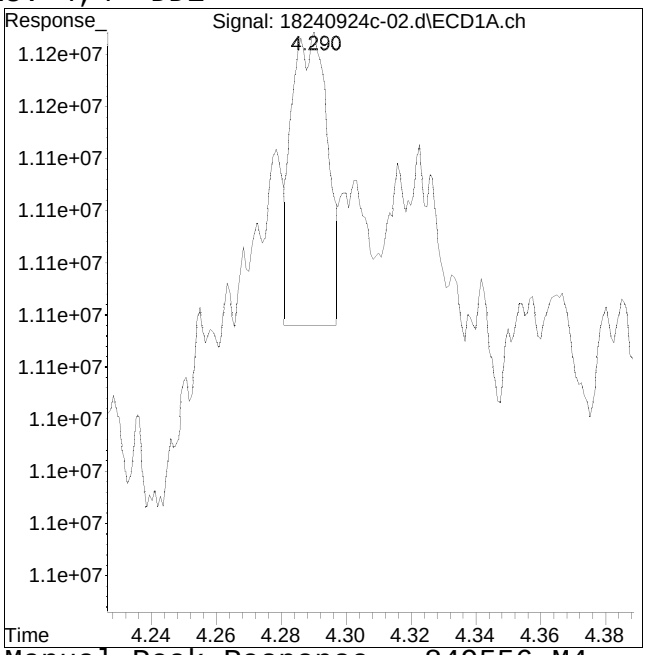
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #15: 4,4'-DDE



Original Peak Response = 14845804



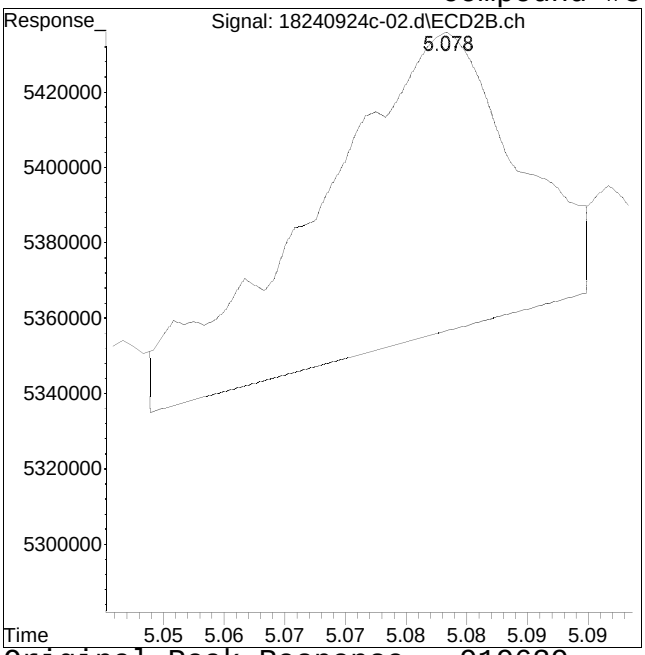
Manual Peak Response = 849556 M4

M4 = Poor automated baseline construction.

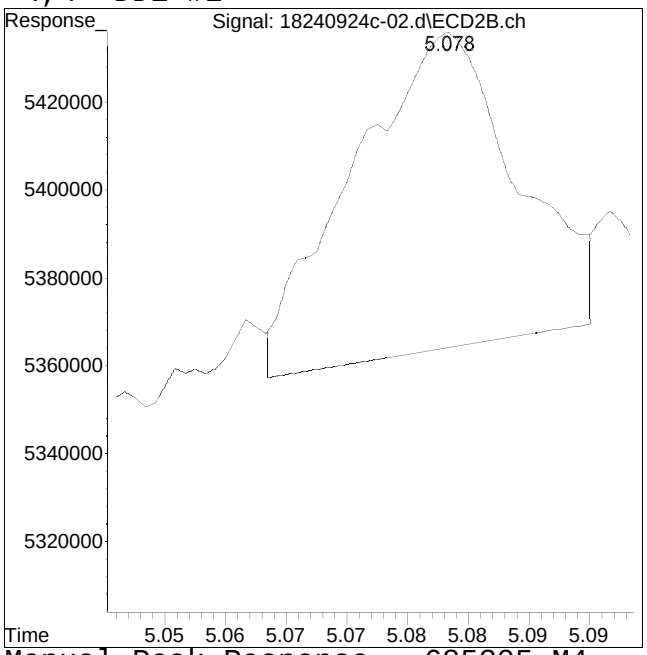
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 919639



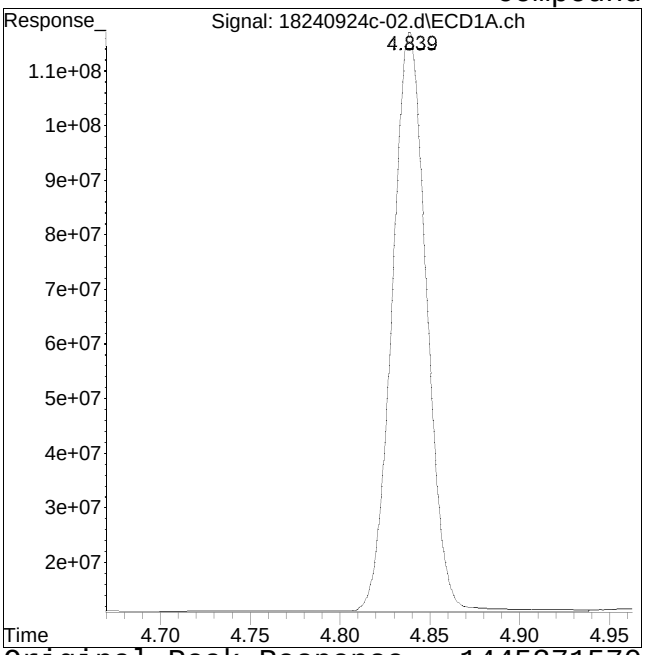
Manual Peak Response = 685305 M4

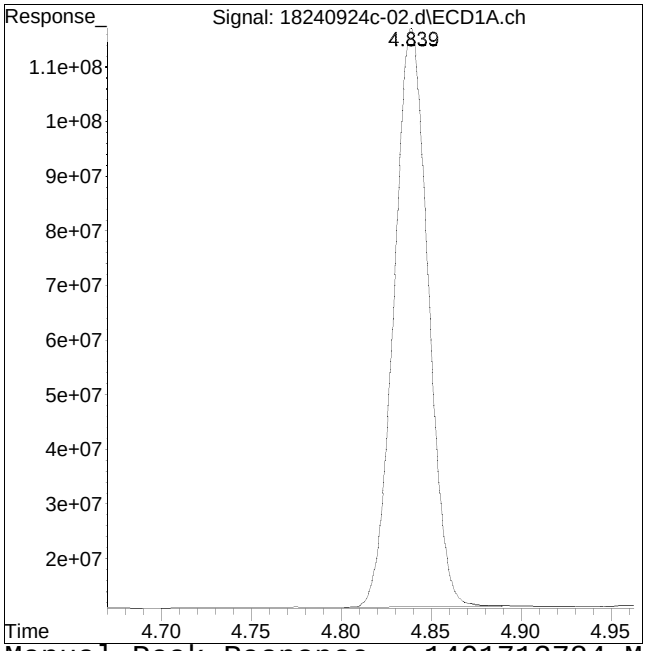
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #18: Endrin



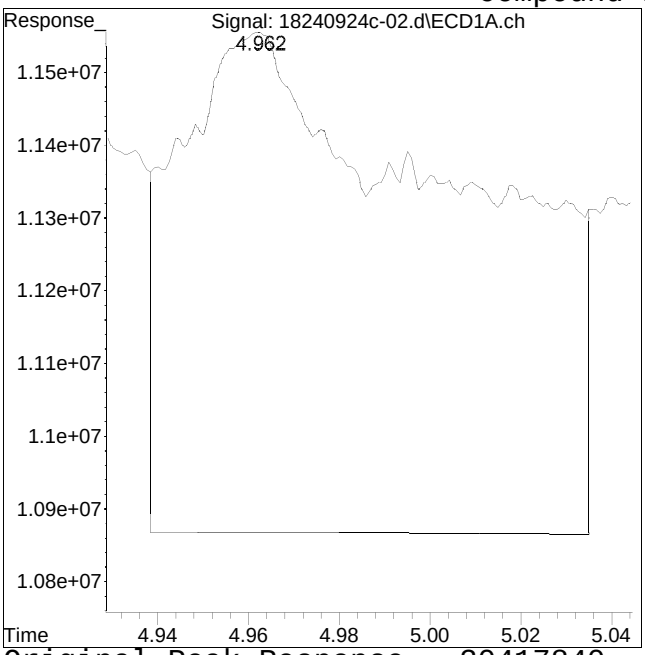


Original Peak Response = 1445371570 Manual Peak Response = 1401712784 M4
M4 = Poor automated baseline construction.

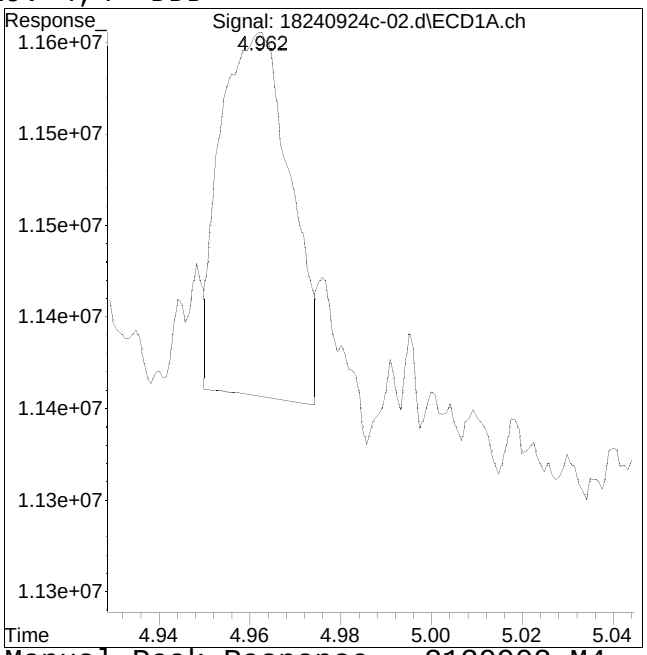
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #19: 4,4'-DDD



Original Peak Response = 30417840



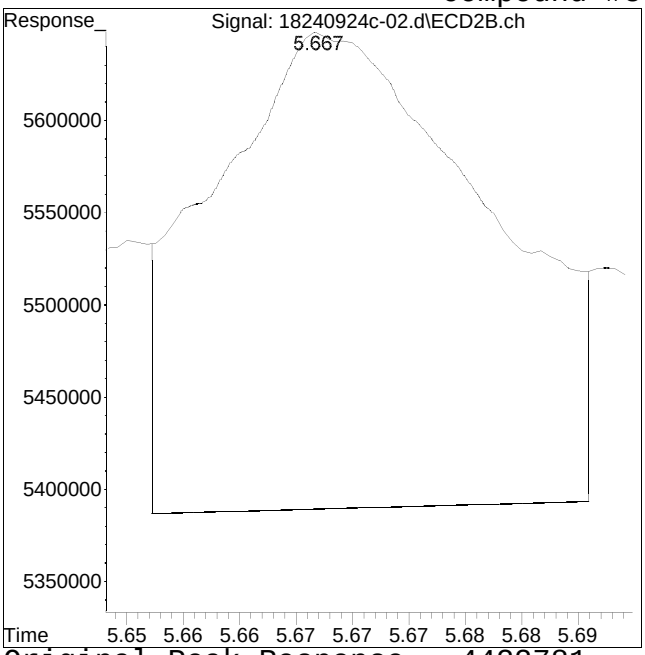
Manual Peak Response = 2129902 M4

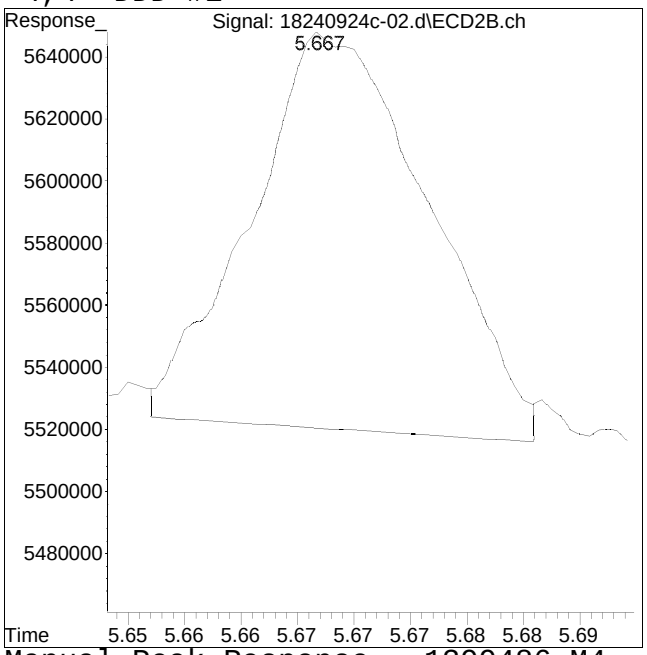
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #57: 4,4'-DDD #2



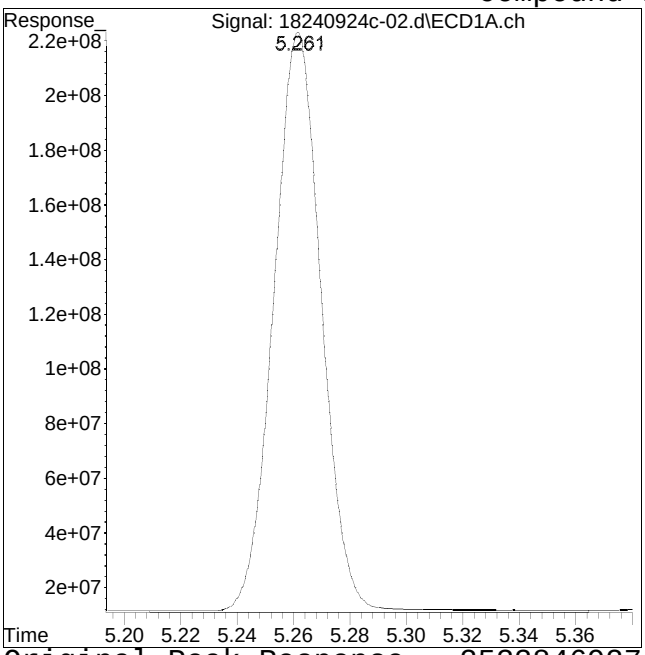


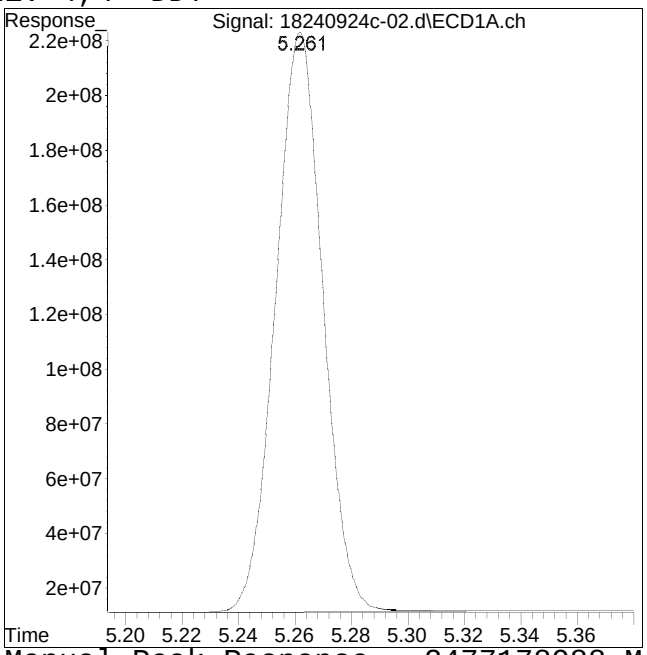
Original Peak Response = 4422781 Manual Peak Response = 1399486 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #21: 4,4'-DDT



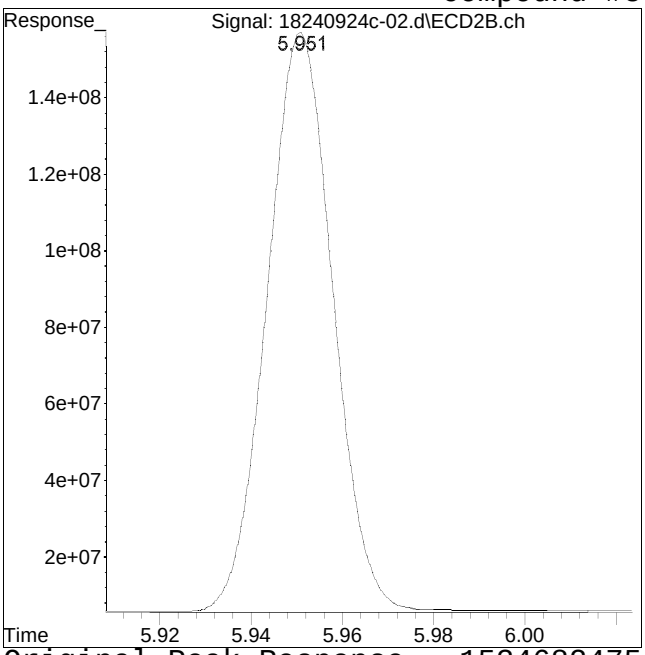


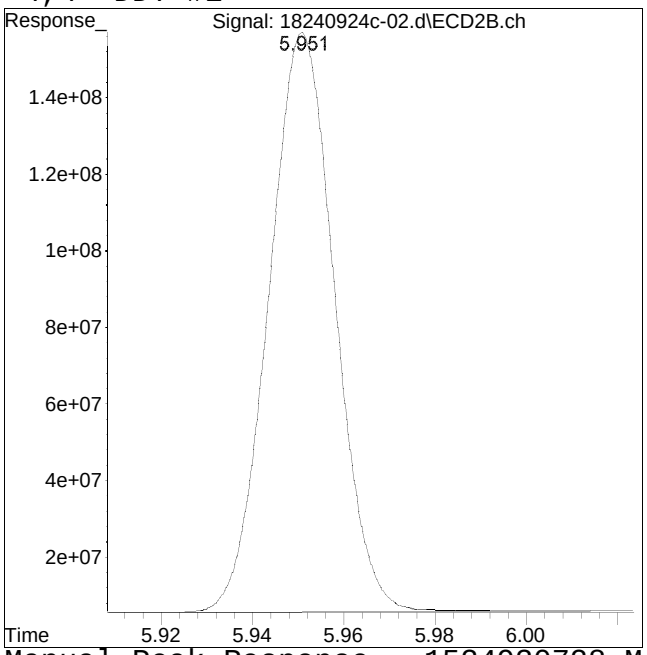
Original Peak Response = 2533846927 Manual Peak Response = 2477178988 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #59: 4,4'-DDT #2



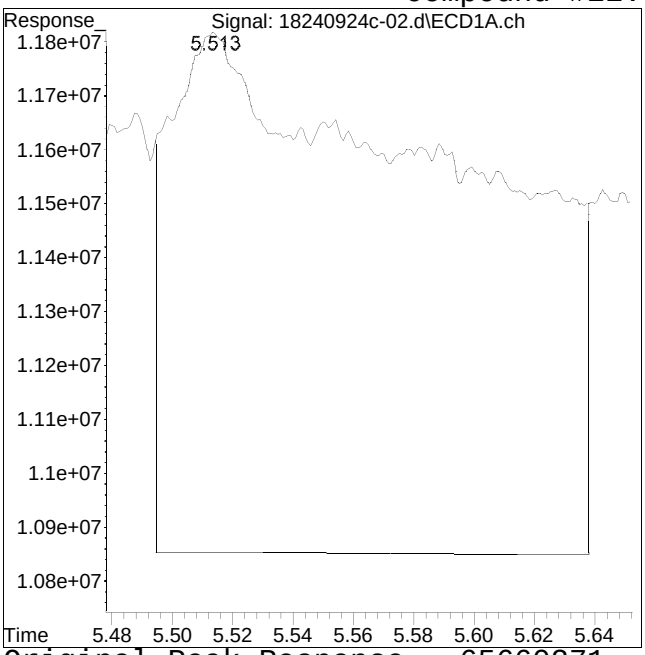


Original Peak Response = 1534682475 Manual Peak Response = 1524930728 M4
M4 = Poor automated baseline construction.

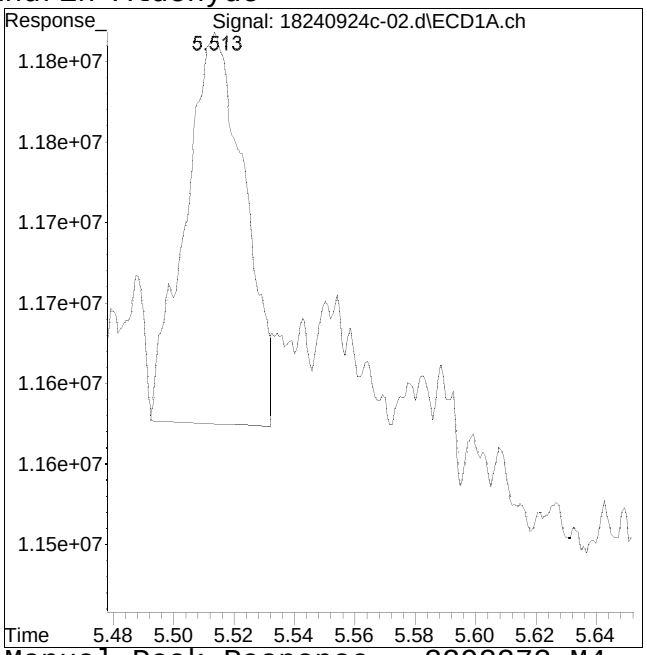
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #22: Endrin Aldehyde



Original Peak Response = 65660271



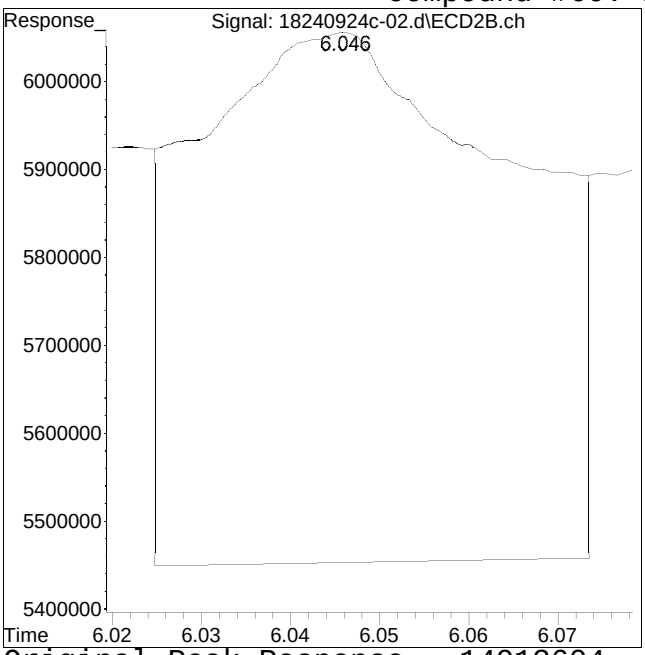
Manual Peak Response = 3293273 M4

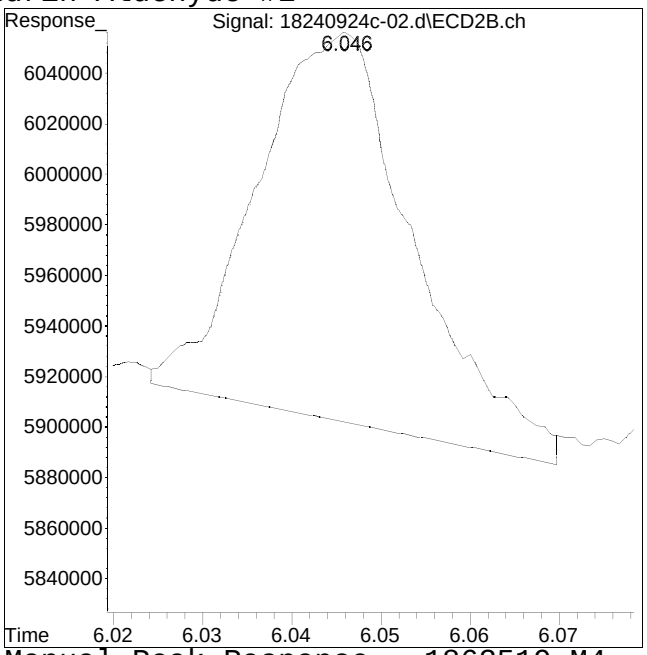
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #60: Endrin Aldehyde #2





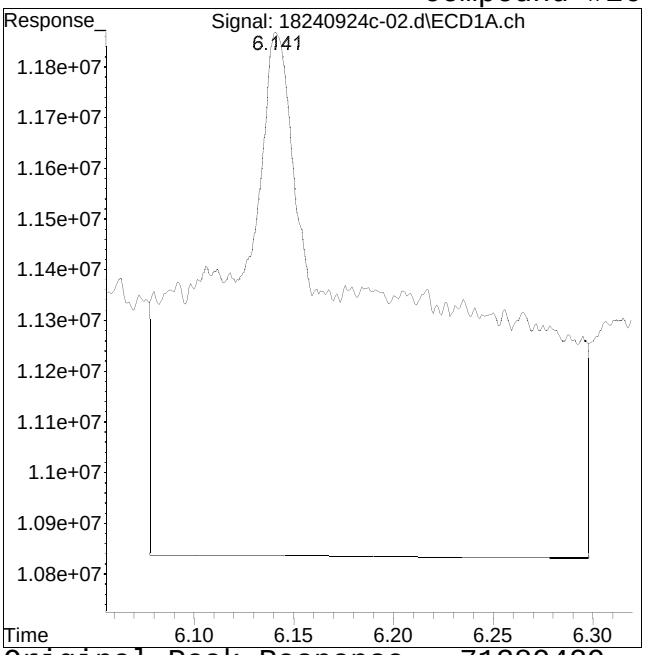
Original Peak Response = 14913604 Manual Peak Response = 1863519 M4
M4 = Poor automated baseline construction.

Manual Integration Report

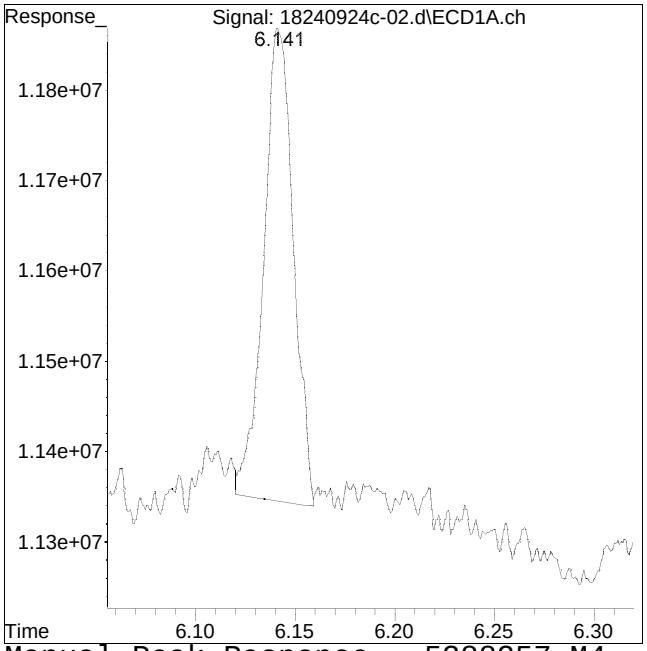
Data Path : I:\PEST\Pest18\2024\240924Q
Data File : 18240924c-02.d
Date Inj'd : 9/24/2024 9:52
Sample : pem18240924c-01,42,,deg115

Method : pest18_2024_08_15_ugL_IC
Operator : PEST18:akm
Instrument : Pest 18
Quant Date : 9/24/2024 10:59 am

Compound #26: Endrin Ketone



Original Peak Response = 71389429



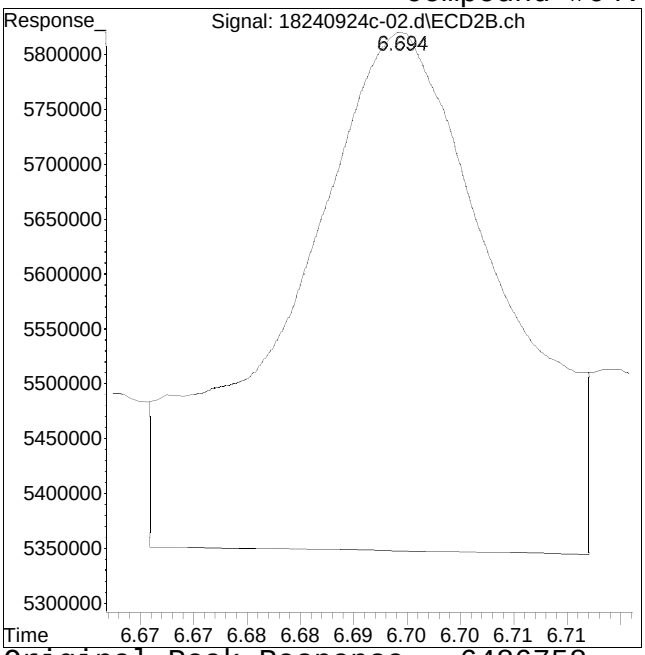
Manual Peak Response = 5388257 M4

M4 = Poor automated baseline construction.

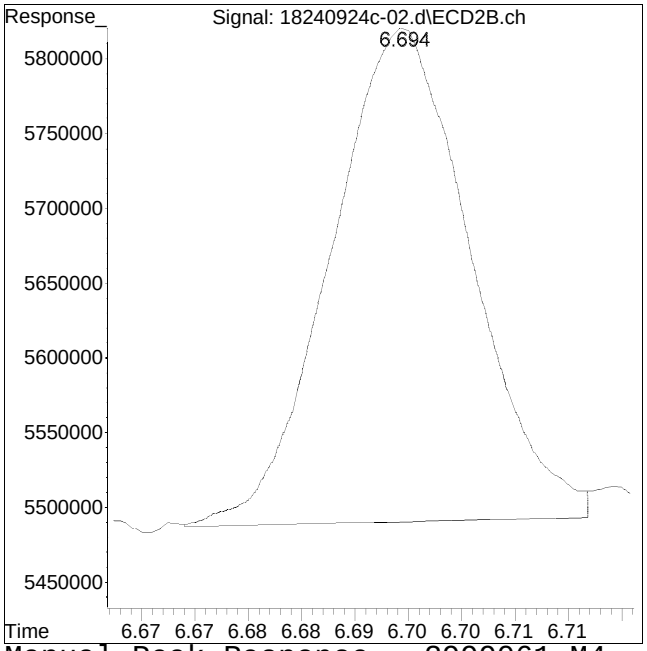
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240924QMethod : pest18_2024_08_15_ugL_IC
Data File : 18240924c-02.d Operator : PEST18:akm
Date Inj'd : 9/24/2024 9:52 Instrument : Pest 18
Sample : pem18240924c-01,42,,deg115Quant Date : 9/24/2024 10:59 am

Compound #64: Endrin Ketone #2



Original Peak Response = 6486758



Manual Peak Response = 2999061 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453342**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:20
Operator : PEST11:akm
Sample : WG1974839-1,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:11 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.201	1.274	351.8E6	214.4E6	25.000M4	25.000
	Standard Area 1 : #1 = 253470414				Recovery = 138.81%		
	Standard Area 1 : #2 = 192674888				Recovery = 111.27%		
28) i	1-br-2-nb_Ch	1.201	1.274	351.8E6	214.4E6	25.000M4	25.000
33) i	1-br-2-nb_To	1.201	1.274	351.8E6	214.4E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.528	1.722	90638315	54826576	6.199M4	5.741
	Spiked Amount 50.000	Range 30 - 150			Recovery =	12.40%#	11.48%#
27) s	Decachlorobi	6.131	6.764	101.0E6	52704066	6.170M4	5.798
	Spiked Amount 50.000	Range 30 - 150			Recovery =	12.34%#	11.60%#
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:20
Operator : PEST11:akm
Sample : WG1974839-1,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:11 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

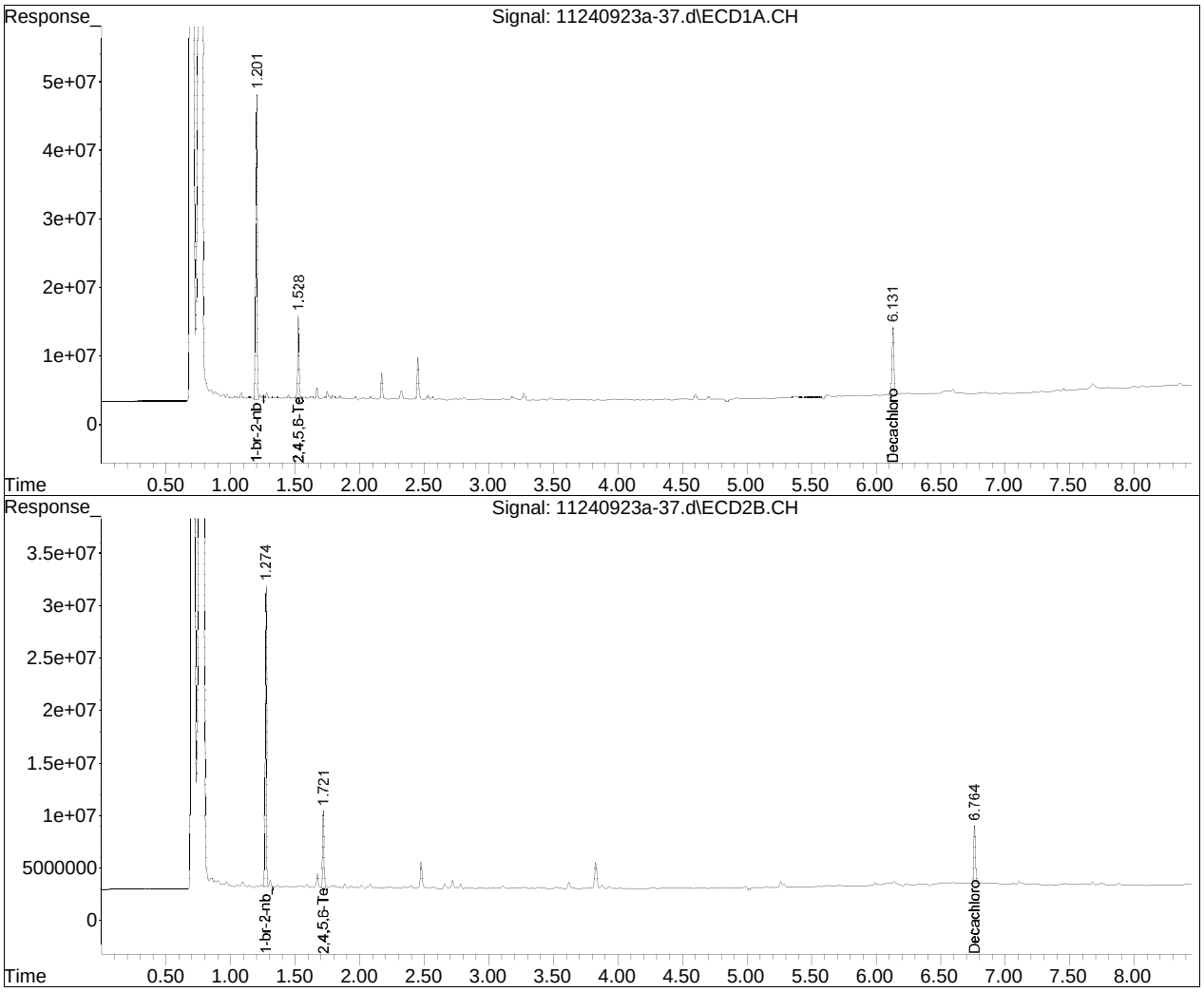
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240923a-03.d•

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:20
Operator : PEST11:akm
Sample : WG1974839-1,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:11 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

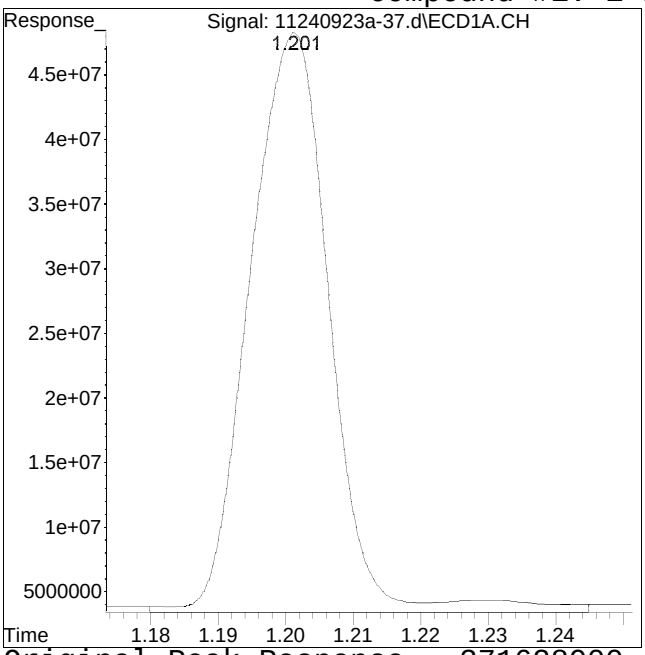
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



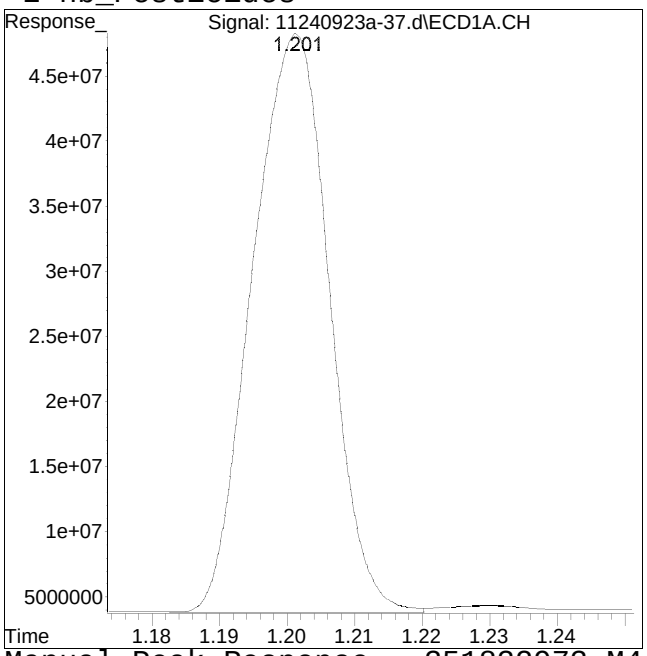
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-37.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:20 Instrument : Pest 11
Sample : WG1974839-1,42,, Quant Date : 9/23/2024 5:33 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 371628900



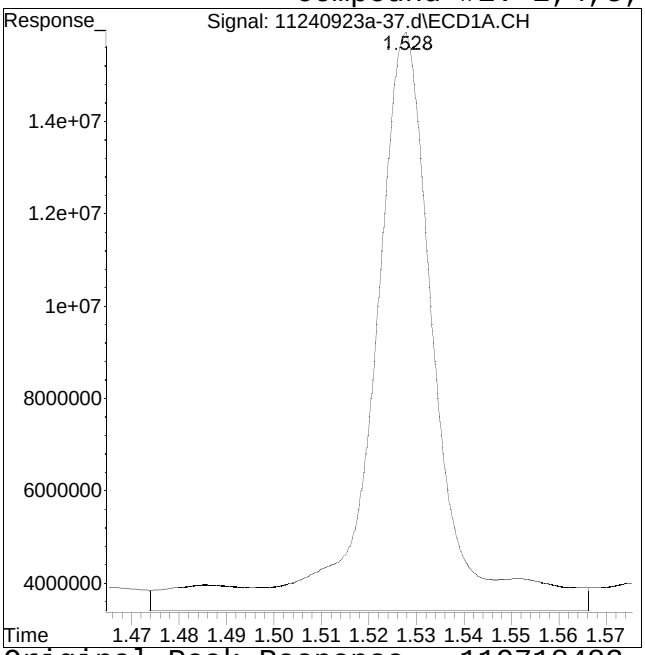
Manual Peak Response = 351832973 M4

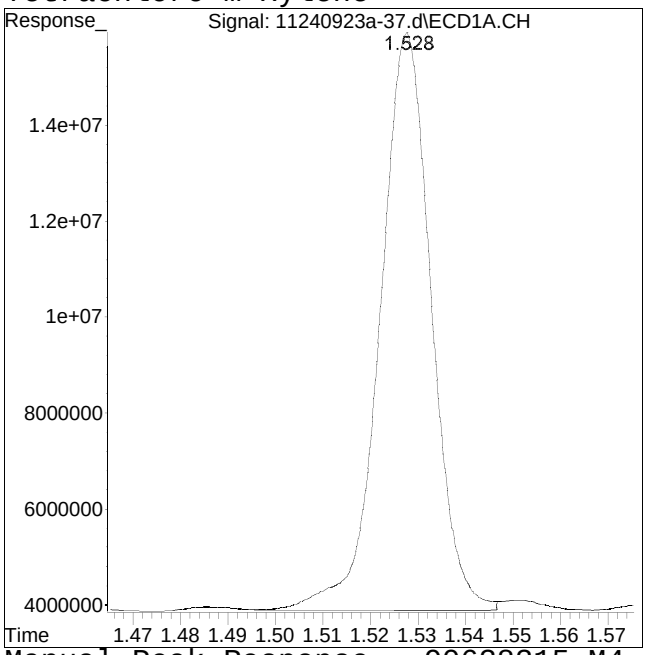
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-37.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:20 Instrument : Pest 11
Sample : WG1974839-1,42,, Quant Date : 9/23/2024 5:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



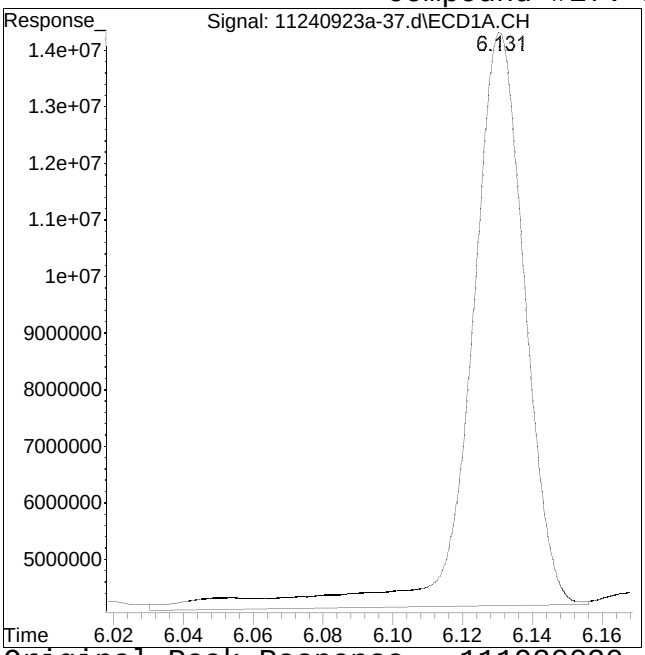


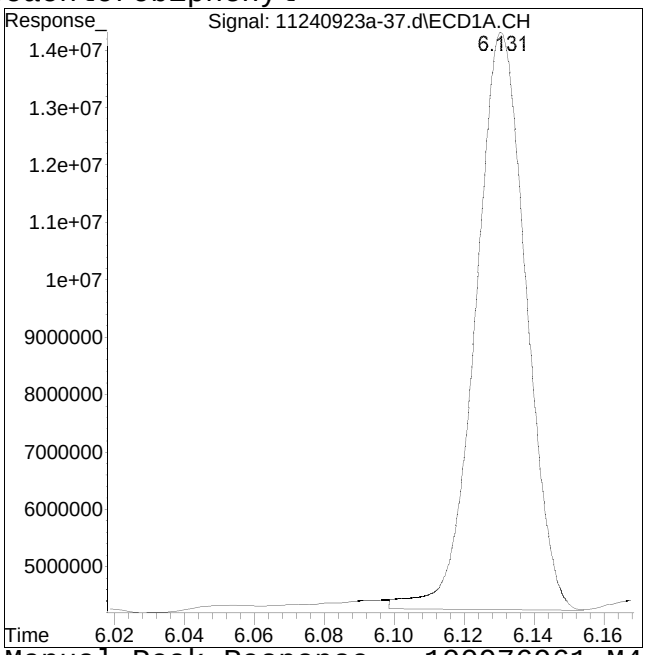
Original Peak Response = 119718483 Manual Peak Response = 90638315 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-37.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:20 Instrument : Pest 11
Sample : WG1974839-1,42,, Quant Date : 9/23/2024 5:33 pm

Compound #27: Decachlorobiphenyl



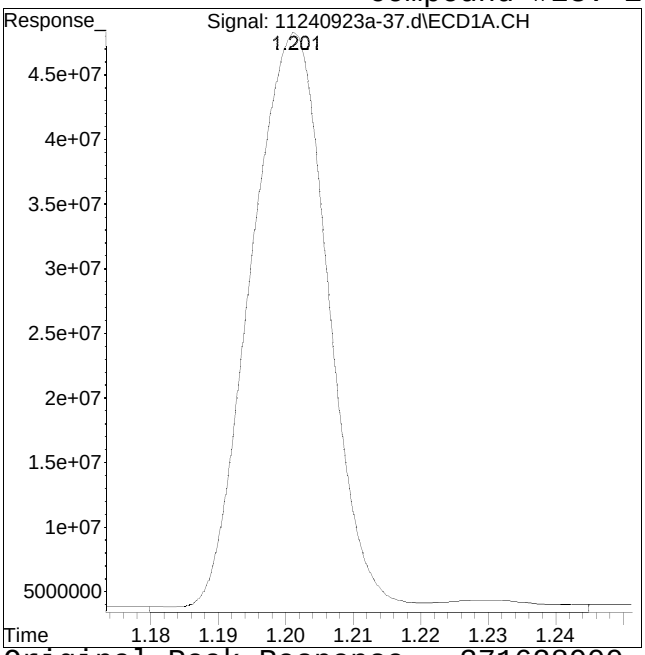


Original Peak Response = 111920030 Manual Peak Response = 100976961 M4
M4 = Poor automated baseline construction.

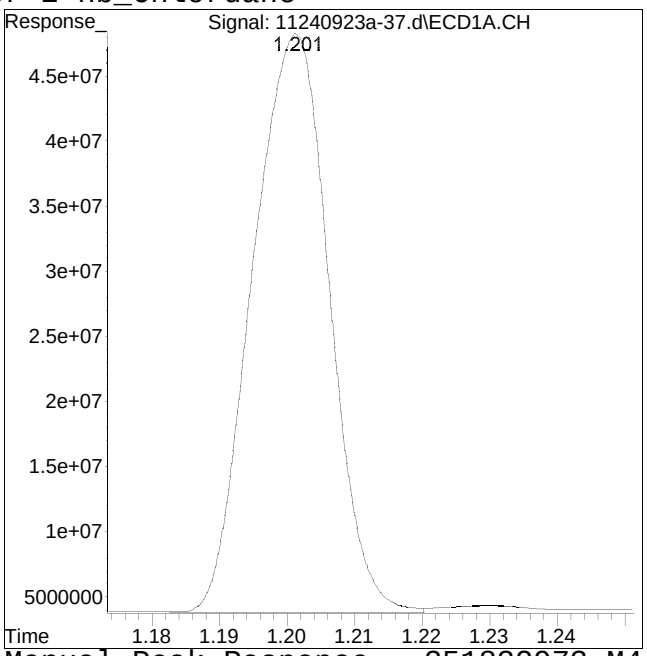
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-37.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:20 Instrument : Pest 11
Sample : WG1974839-1,42,, Quant Date : 9/23/2024 5:33 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 371628900



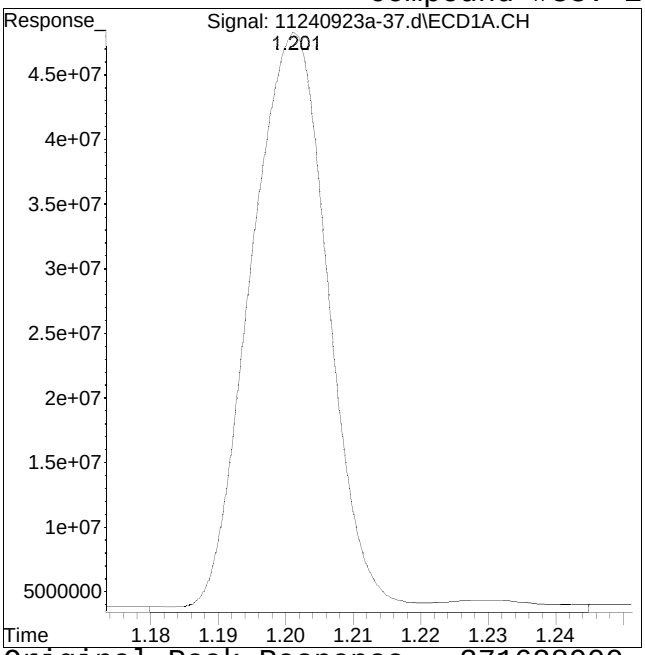
Manual Peak Response = 351832973 M4

M4 = Poor automated baseline construction.

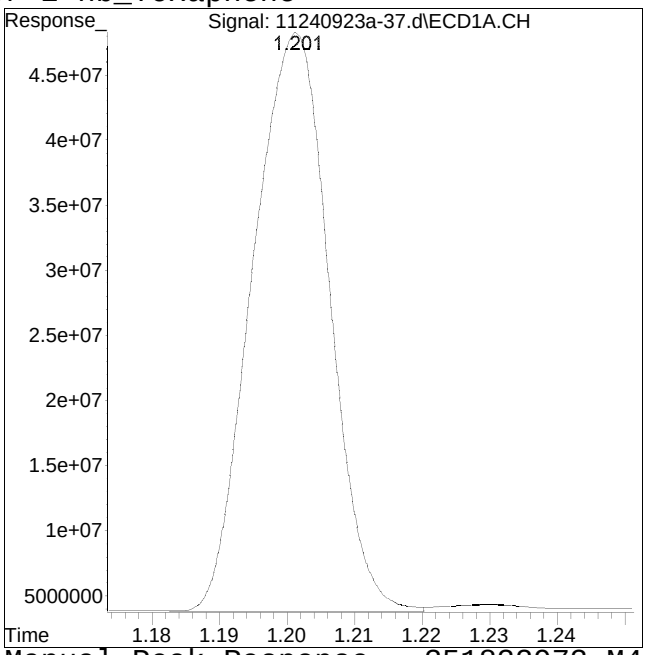
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-37.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:20 Instrument : Pest 11
Sample : WG1974839-1,42,, Quant Date : 9/23/2024 5:33 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 371628900



Manual Peak Response = 351832973 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-38.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:32
Operator : PEST11:akm
Sample : WG1974839-2,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : LCS_MS - spk only

	Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards								
1)	i	1-br-2-nb_Pe	1.203	1.275	350.7E6	211.2E6	25.000M4	25.000M4
		Standard Area 1 : #1 = 253470414				Recovery = 138.35%		
		Standard Area 1 : #2 = 192674888				Recovery = 109.60%		
System Monitoring Compounds								
2)	s	2,4,5,6-Tetr	1.528	1.722	469.1E6	278.5E6	32.185M4	29.607M4
		Spiked Amount 50.000	Range 30 - 150		Recovery = 64.37%		59.21%	
27)	s	Decachlorobi	6.130	6.763	455.1E6	245.9E6	27.899M4	27.462M4
		Spiked Amount 50.000	Range 30 - 150		Recovery = 55.80%		54.92%	
Target Compounds								
4)	t	alpha-BHC	1.823	2.112	673.7E6	409.6E6	32.882M4	29.943M4
5)	t	gamma-BHC (l	2.014	2.382	671.0E6	374.8E6	34.278M4	28.826M4
6)	t	beta-BHC	2.068	2.447	286.9E6	166.9E6	32.574M4	31.089M4
7)	t	delta-BHC	2.189	2.700	614.6E6	336.1E6	31.891M4	26.131M4
8)	t	Heptachlor	2.344	2.757	648.8E6	349.2E6	35.015M4	25.879M4
9)	t	Aldrin	2.574	3.061	556.8E6	327.8E6	32.189M4	27.047M4
12)	t	Heptachlor E	3.095	3.652	561.7E6	308.3E6	33.776M4	25.604M4
13)	t	gamma-Chlord	3.215	3.865	568.9E6	322.6E6	37.656M4	29.121M4
14)	t	alpha-Chlord	3.344	4.033	533.2E6	319.7E6	31.254M4	26.177M4
15)	t	4,4'-DDE	3.441	4.251	555.5E6	312.4E6	33.233M4	27.541M4
16)	t	Endosulfan I	3.473	4.096	530.8E6	303.9E6	33.905M4	27.008
17)	t	Dieldrin	3.724	4.410	597.4E6	339.5E6	37.519M4	30.286
18)	t	Endrin	3.970	4.723	566.9E6	318.8E6	35.058M4	28.025
19)	t	4,4'-DDD	4.092	4.862	473.1E6	272.0E6	36.370M4	29.710
20)	t	Endosulfan I	4.225	4.933	533.1E6	298.0E6	36.126	29.077
21)	t	4,4'-DDT	4.407	5.148	487.5E6	284.5E6	32.833M4	26.946M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-38.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:32
Operator : PEST11:akm
Sample : WG1974839-2,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.666	5.240	346.5E6	196.8E6	27.866M4	24.762M4
23) t Methoxychlor	4.924	5.731	296.0E6	157.2E6	35.656M4	26.423M4
25) t Endosulfan S	5.073	5.476	516.4E6	282.8E6	36.460	27.920
26) t Endrin Keton	5.305	5.893	593.2E6	326.9E6	35.741M4	30.698M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

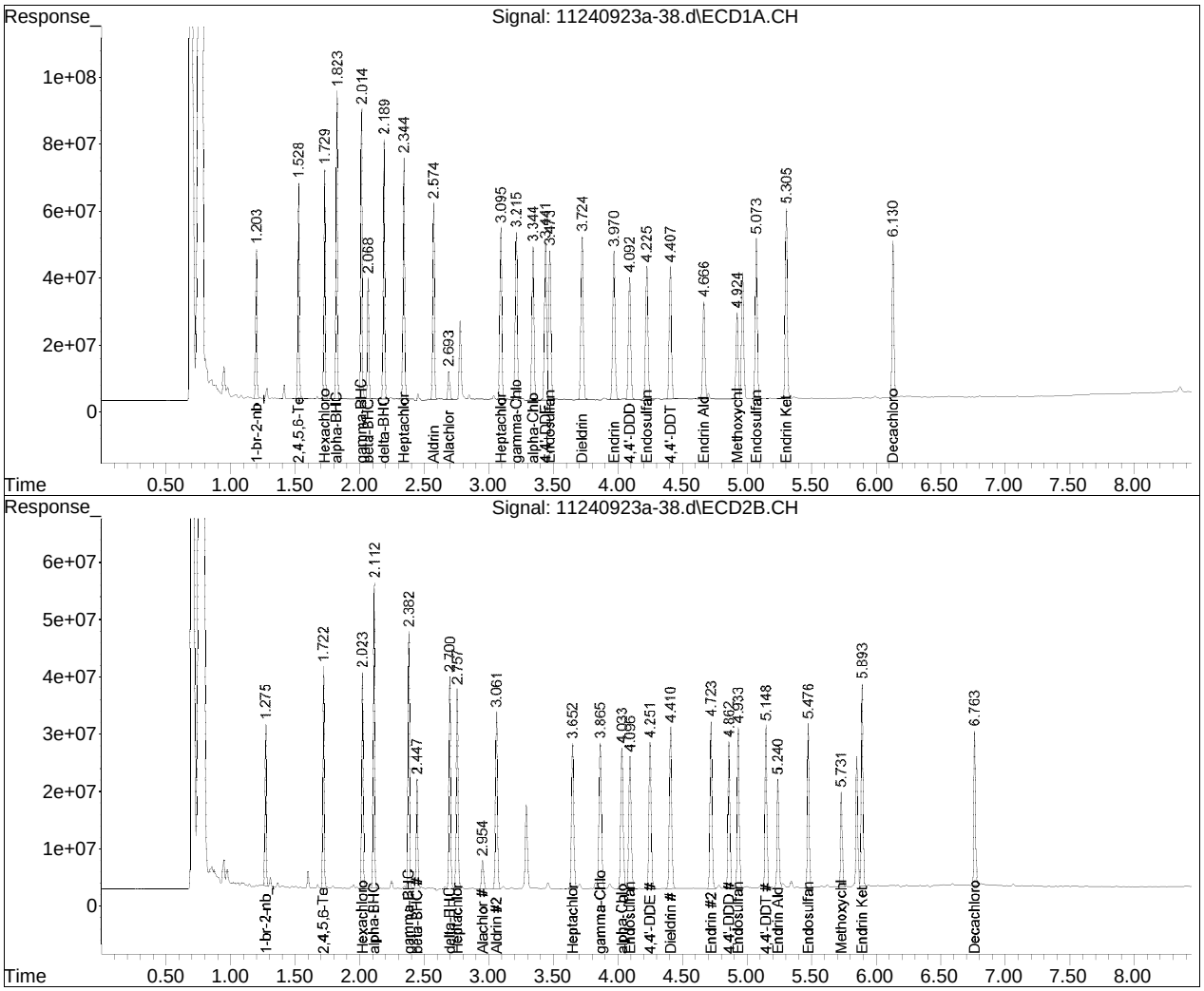
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240923A\11240923a-03.d•

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-38.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:32
Operator : PEST11:akm
Sample : WG1974839-2,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:13 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

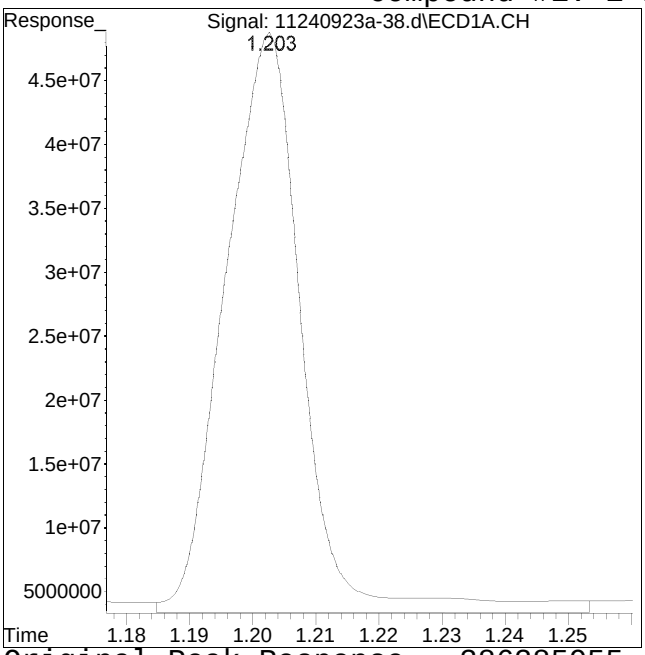
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

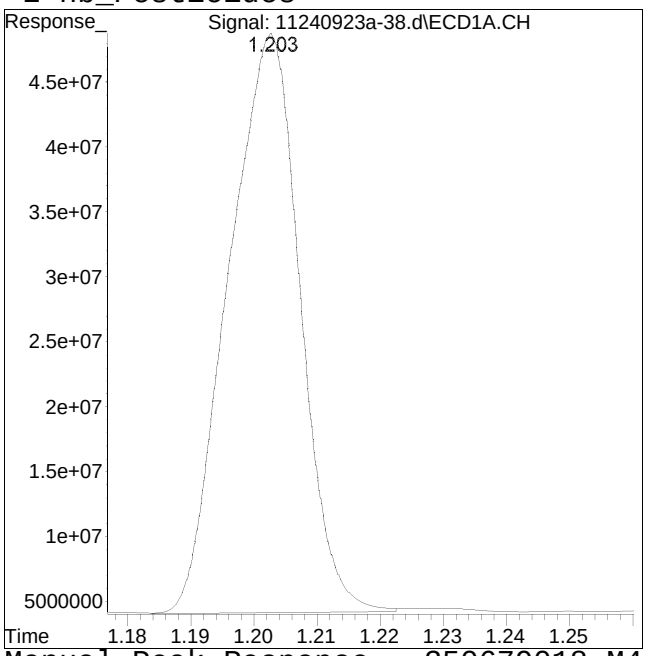


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #1: 1-br-2-nb_Pesticides



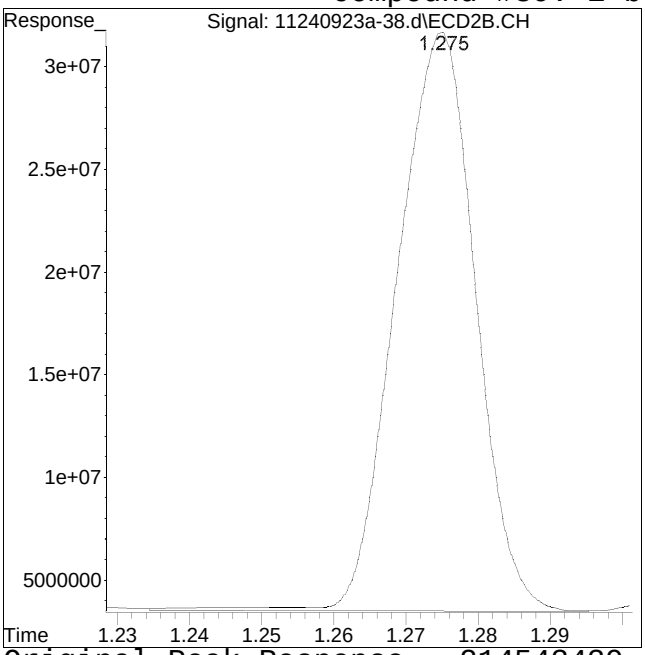


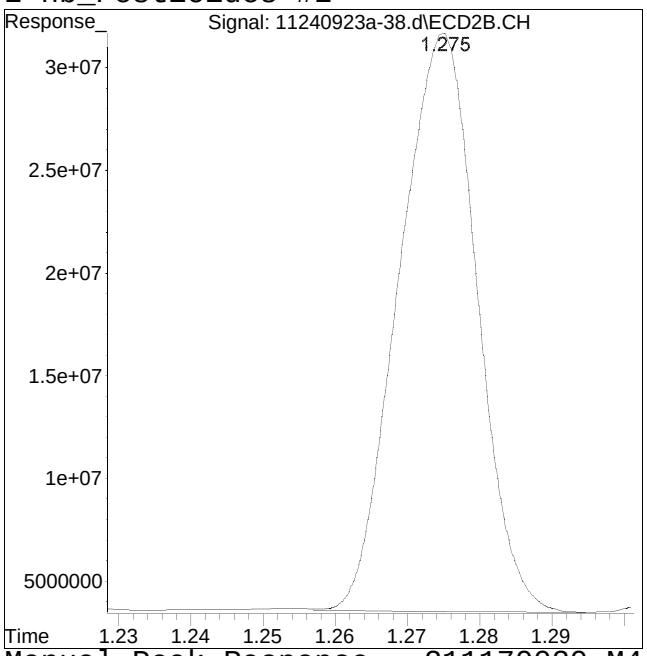
Original Peak Response = 386385955 Manual Peak Response = 350679018 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #39: 1-br-2-nb_Pesticides #2



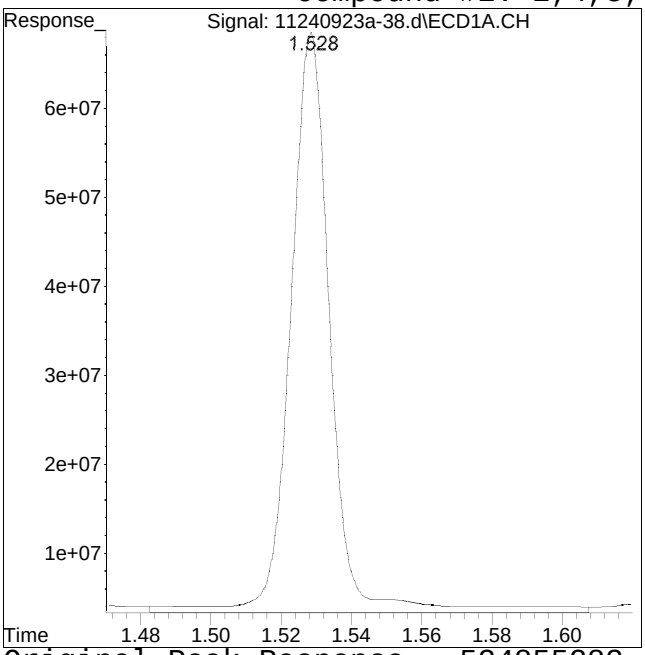


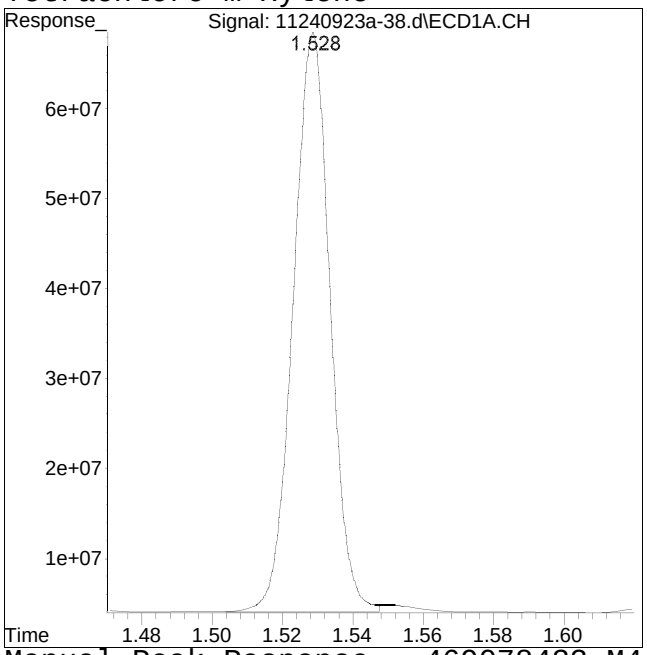
Original Peak Response = 214543439 Manual Peak Response = 211170020 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



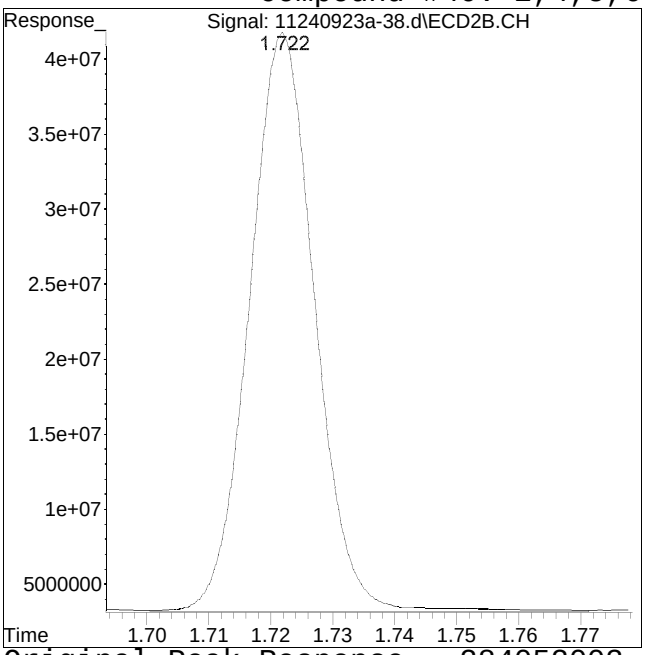


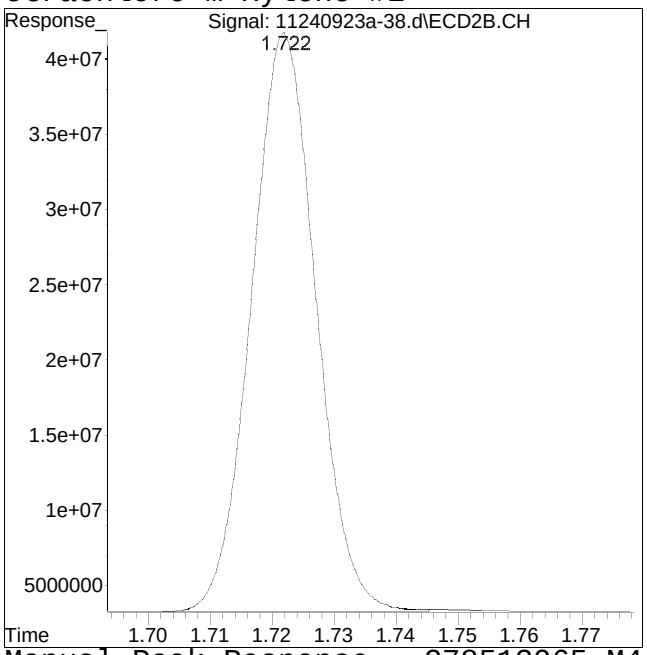
Original Peak Response = 524855283 Manual Peak Response = 469078433 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



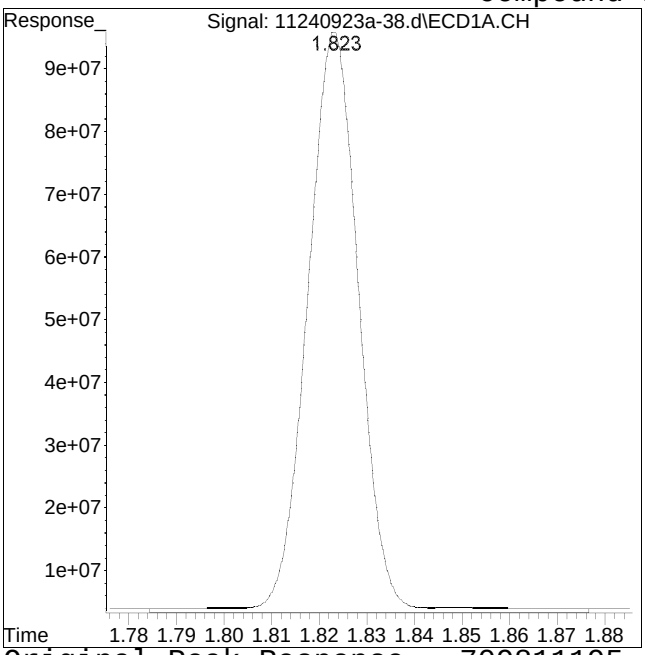


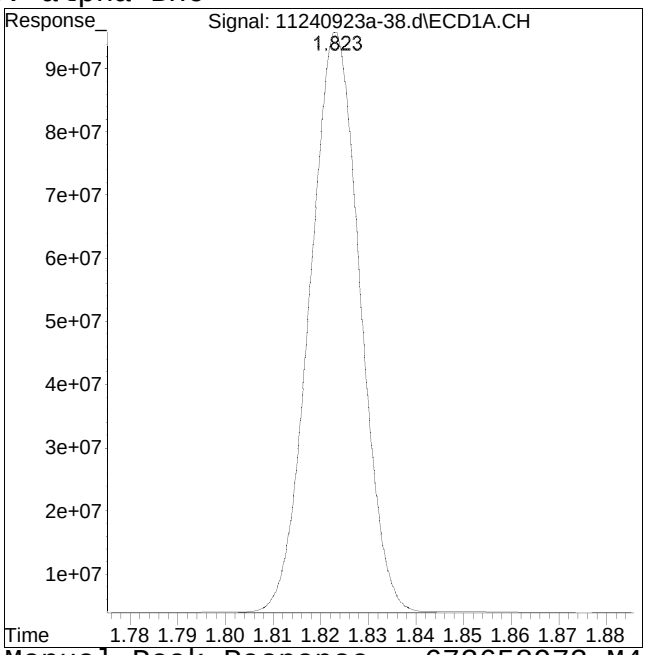
Original Peak Response = 284052003 Manual Peak Response = 278513965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #4: alpha-BHC



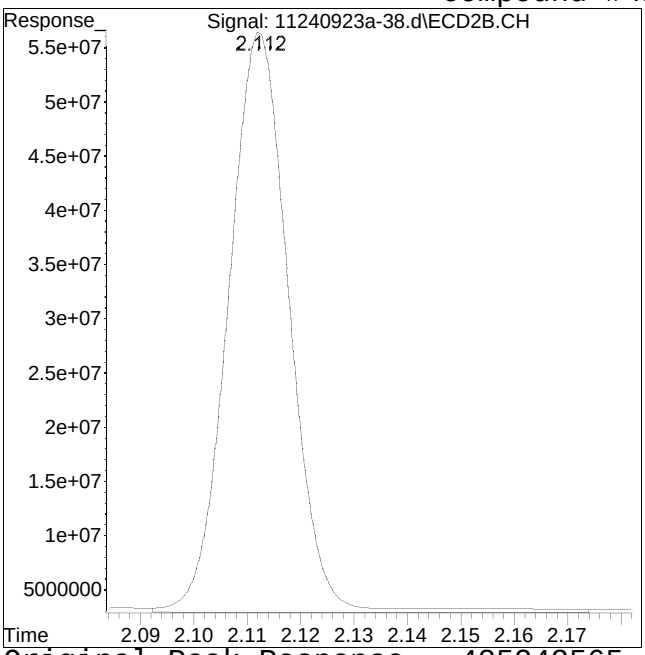


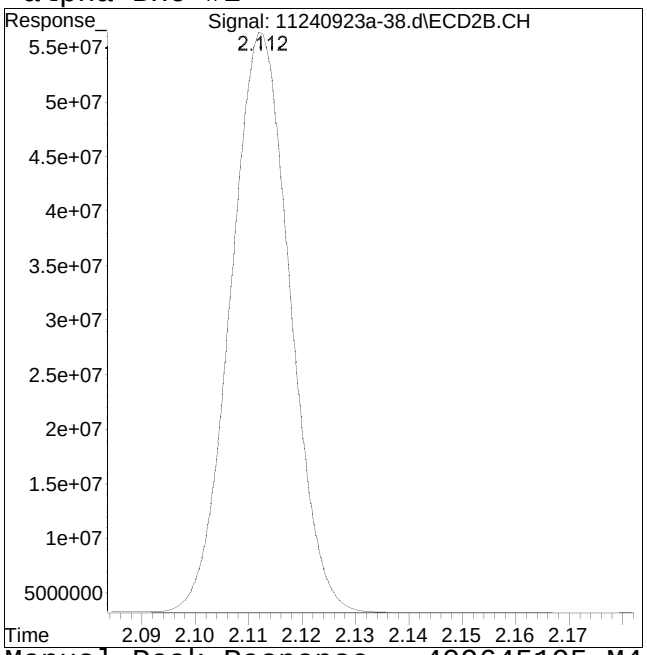
Original Peak Response = 709811195 Manual Peak Response = 673658973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #42: alpha-BHC #2



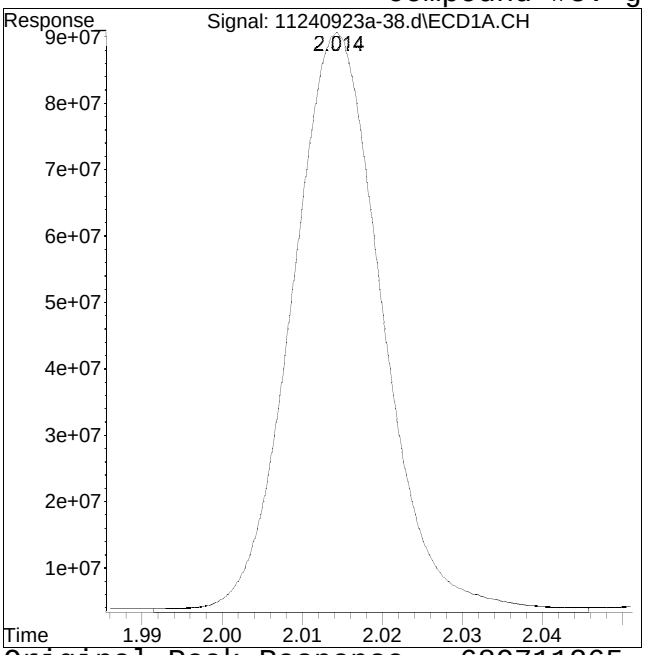


Original Peak Response = 425242565 Manual Peak Response = 409645195 M4
M4 = Poor automated baseline construction.

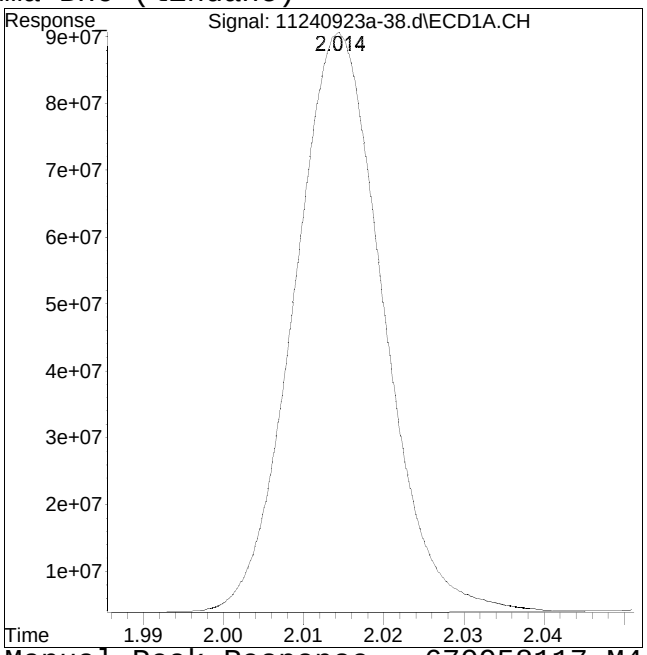
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 689711265



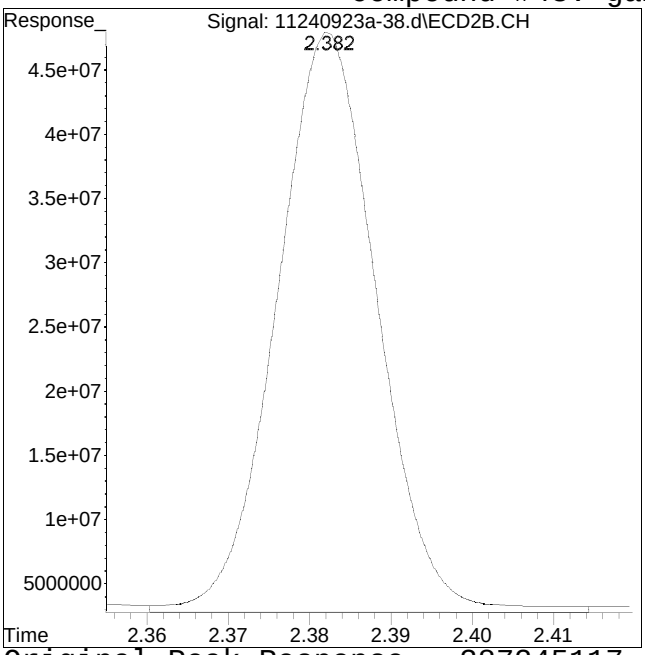
Manual Peak Response = 670958117 M4

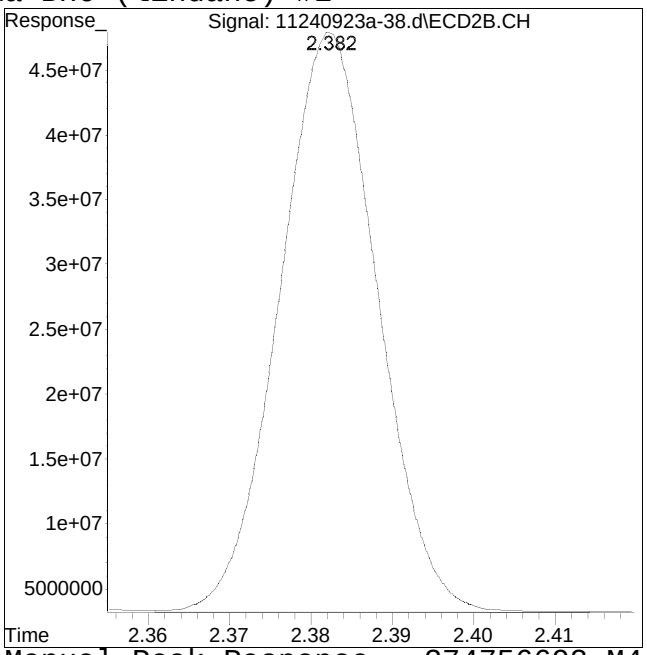
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #43: gamma-BHC (lindane) #2



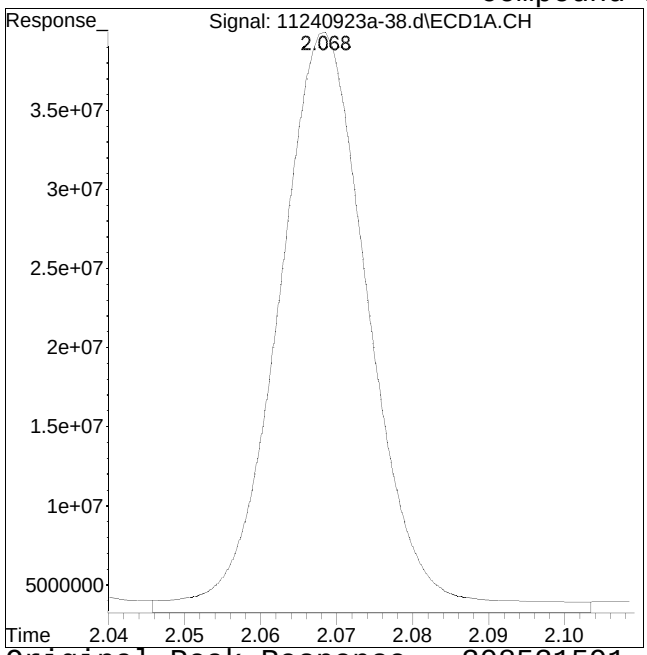


Original Peak Response = 387245117 Manual Peak Response = 374756692 M4
M4 = Poor automated baseline construction.

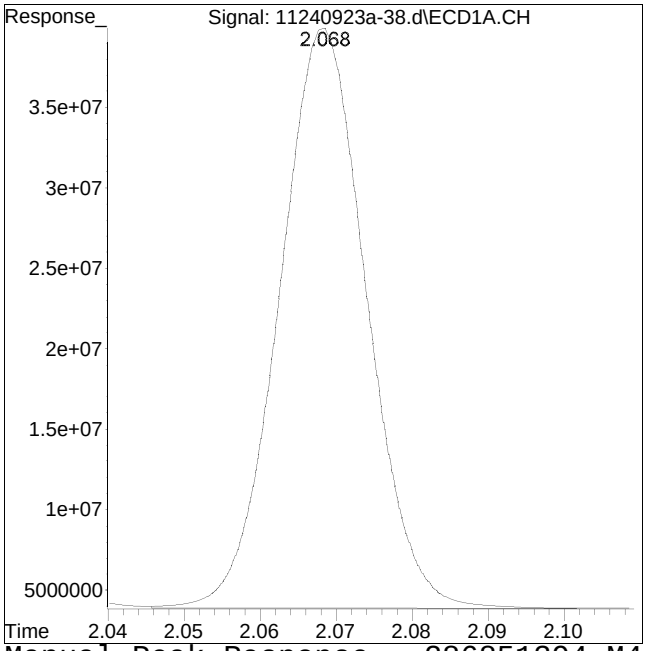
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #6: beta-BHC



Original Peak Response = 308531591



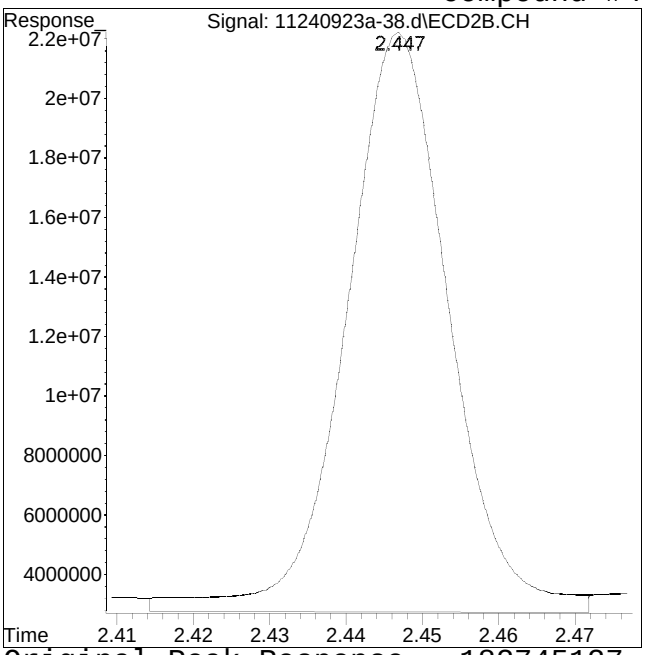
Manual Peak Response = 286851394 M4

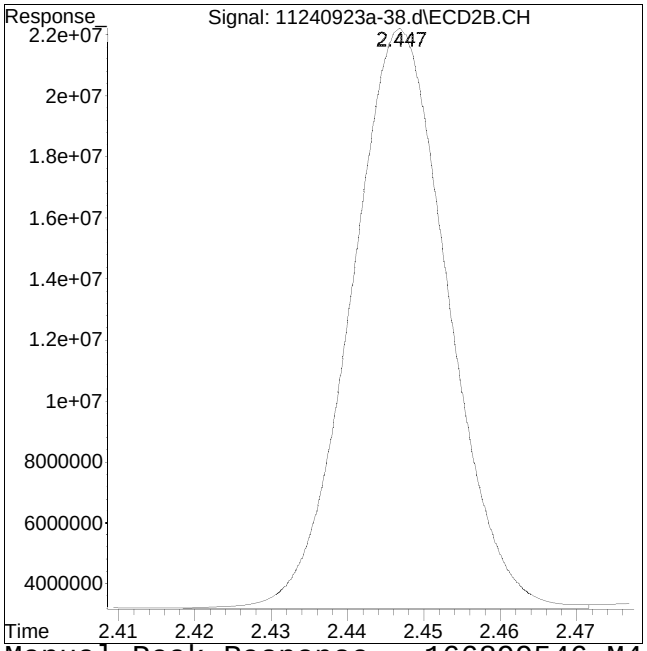
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #44: beta-BHC #2



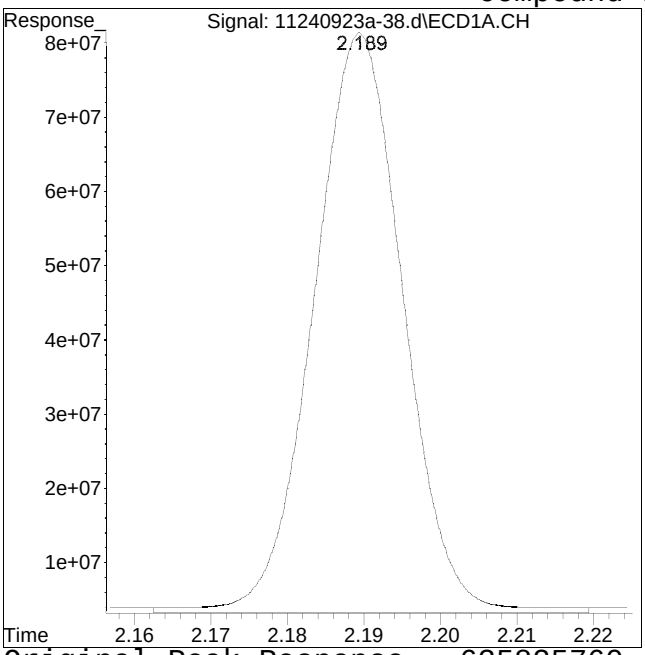


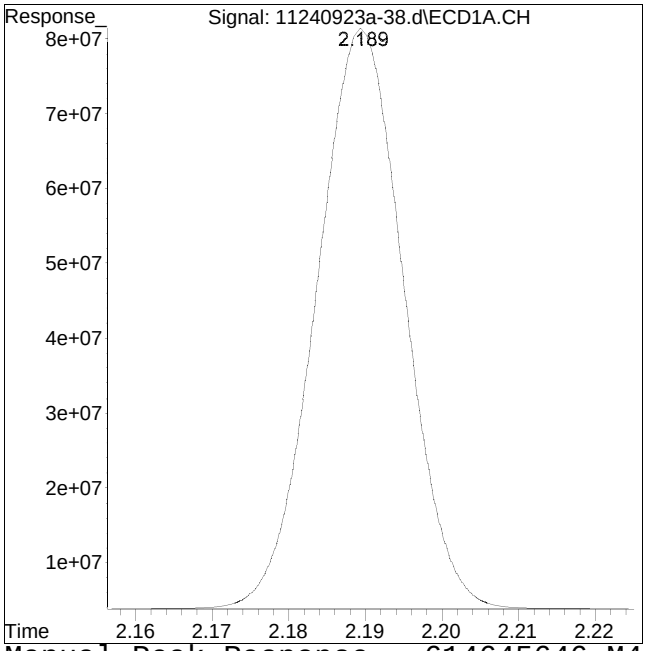
Original Peak Response = 182745127 Manual Peak Response = 166899546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #7: delta-BHC



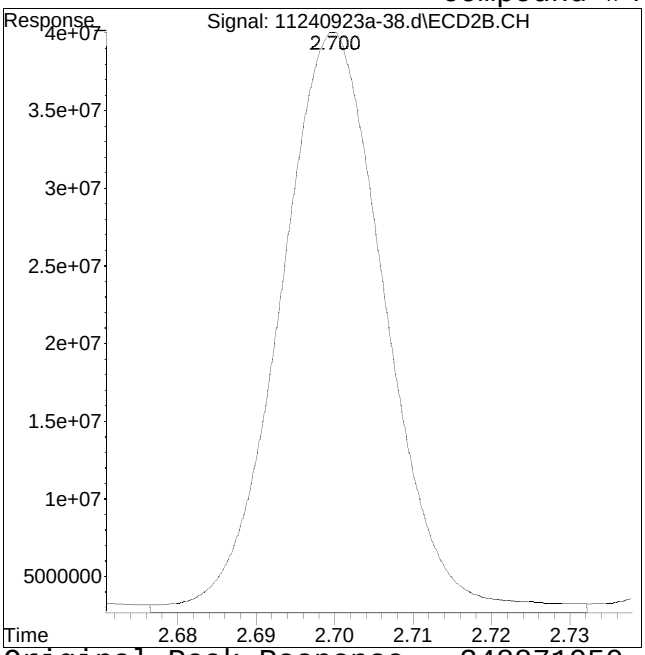


Original Peak Response = 635825760 Manual Peak Response = 614645646 M4
M4 = Poor automated baseline construction.

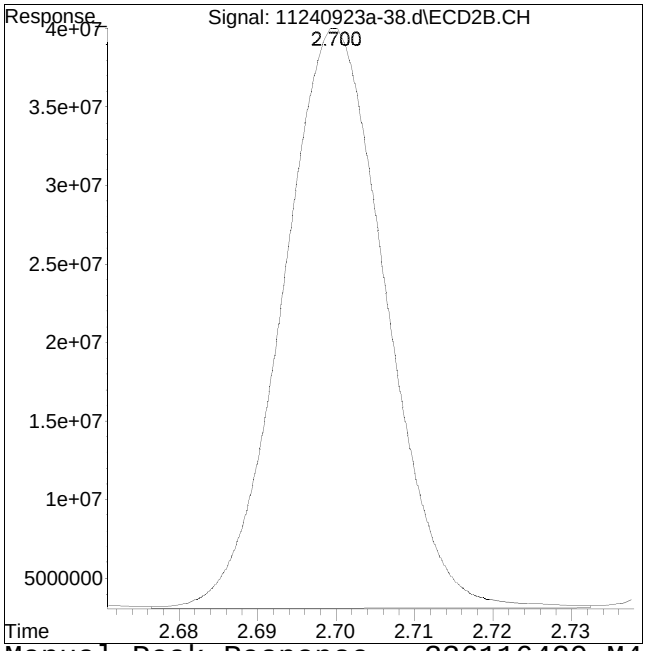
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #45: delta-BHC #2



Original Peak Response = 348871950

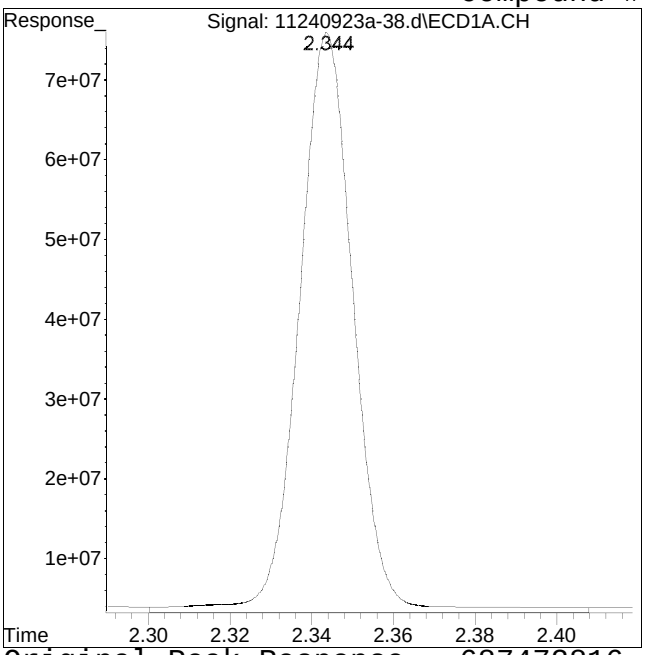


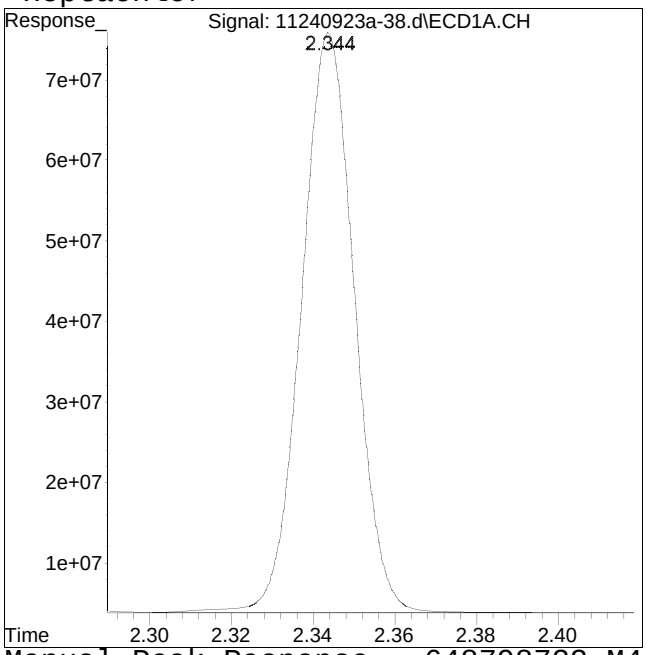
Manual Peak Response = 336116420 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #8: Heptachlor



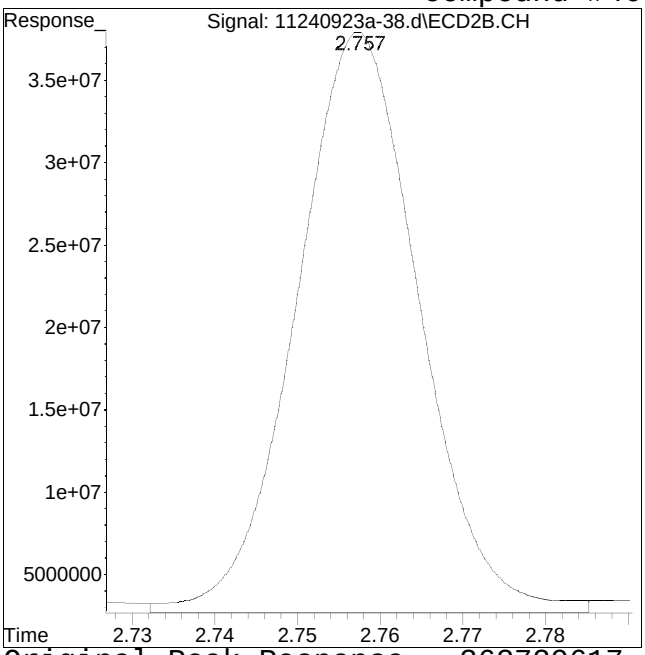


Original Peak Response = 687472816 Manual Peak Response = 648798722 M4
M4 = Poor automated baseline construction.

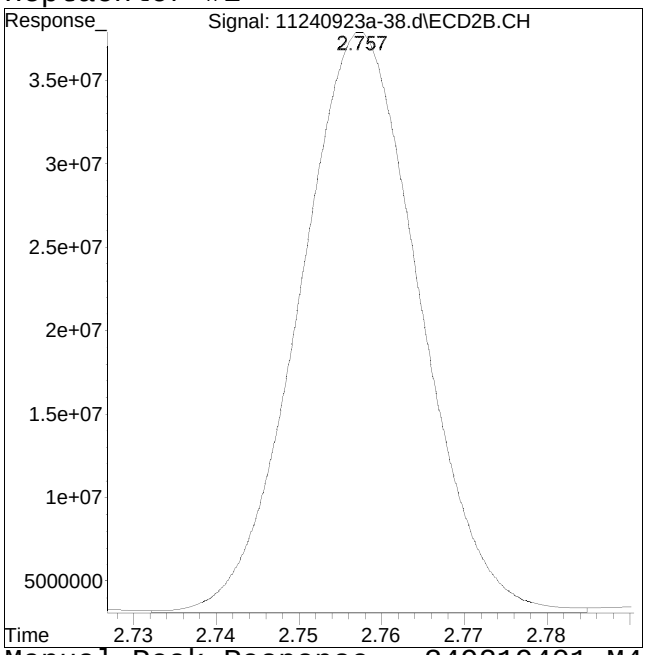
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #46: Heptachlor #2



Original Peak Response = 362729617



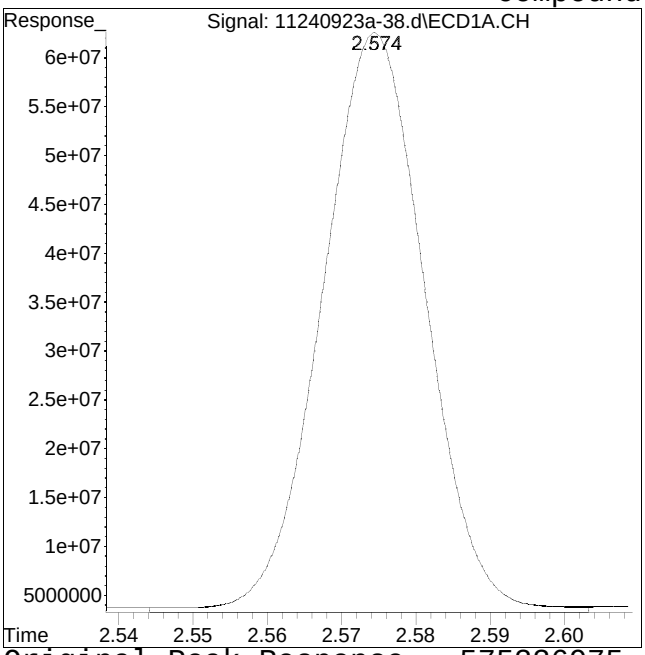
Manual Peak Response = 349219401 M4

M4 = Poor automated baseline construction.

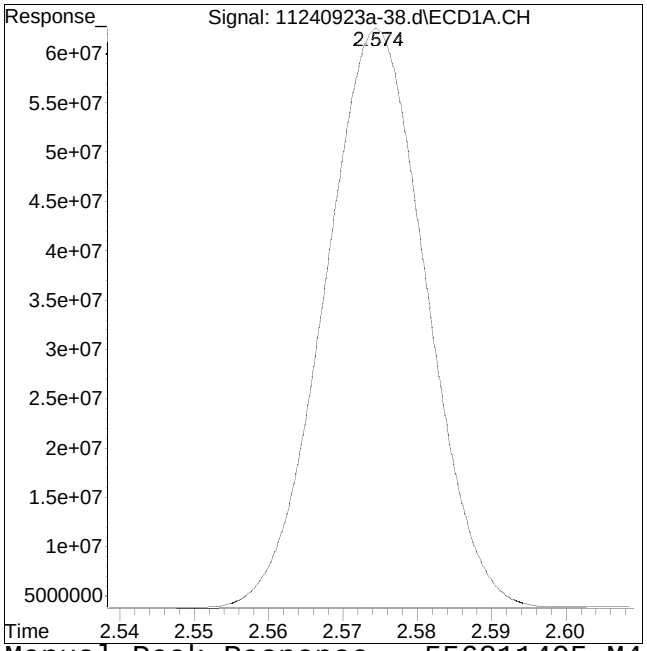
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #9: Aldrin



Original Peak Response = 575336975



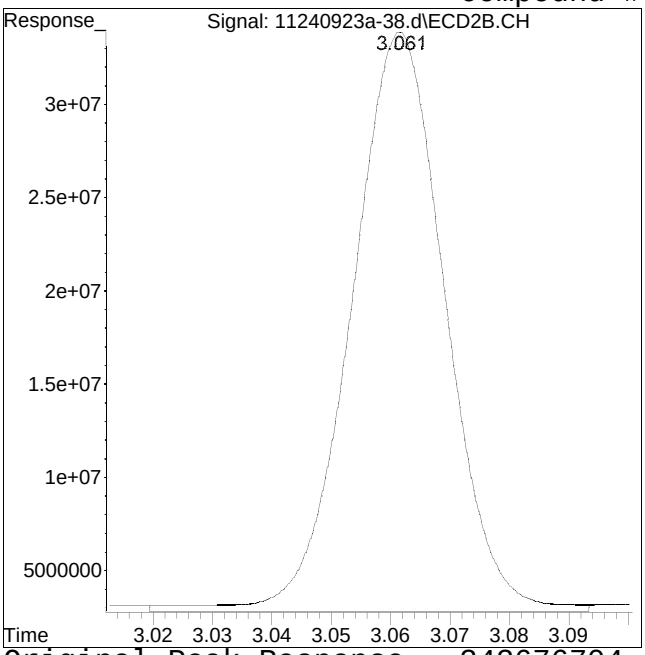
Manual Peak Response = 556811405 M4

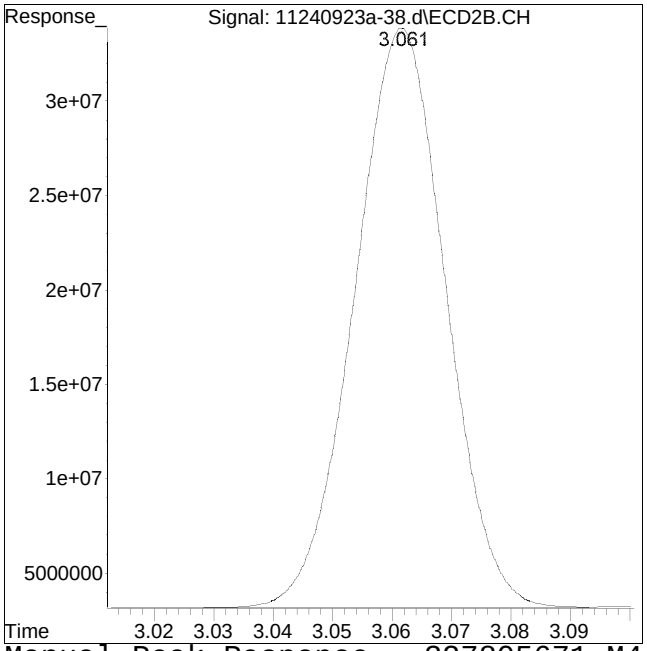
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #47: Aldrin #2



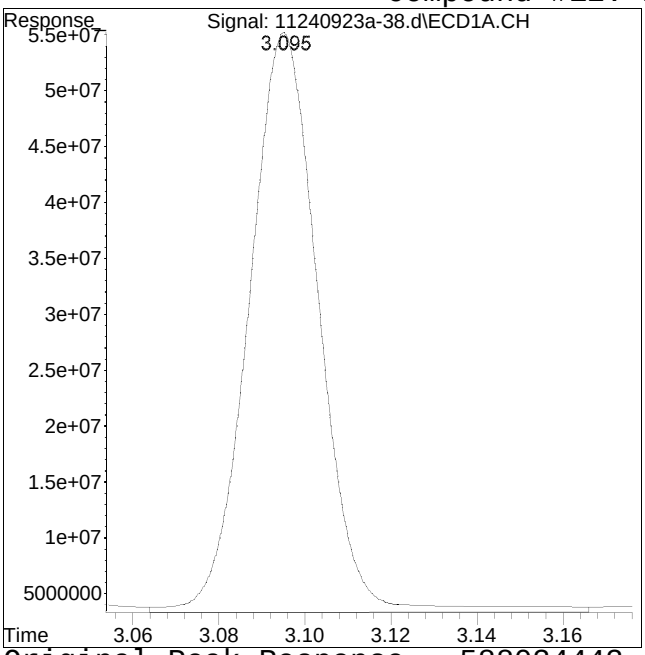


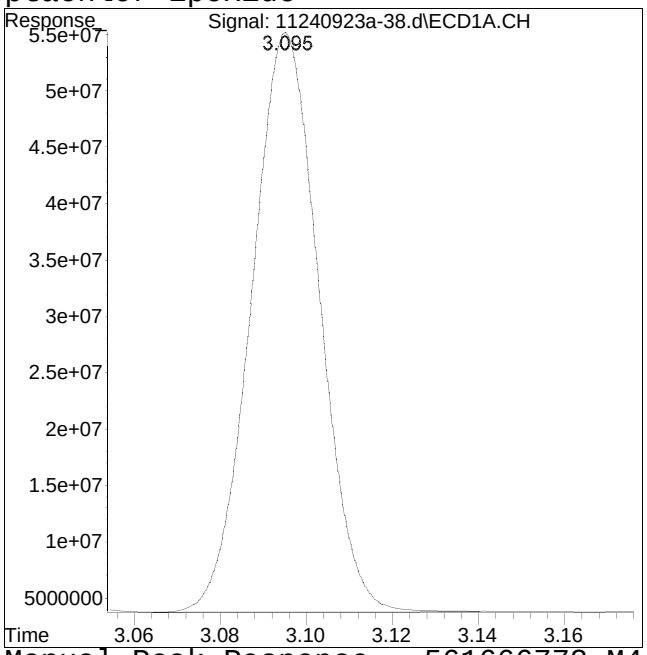
Original Peak Response = 343676704 Manual Peak Response = 327805671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #12: Heptachlor Epoxide



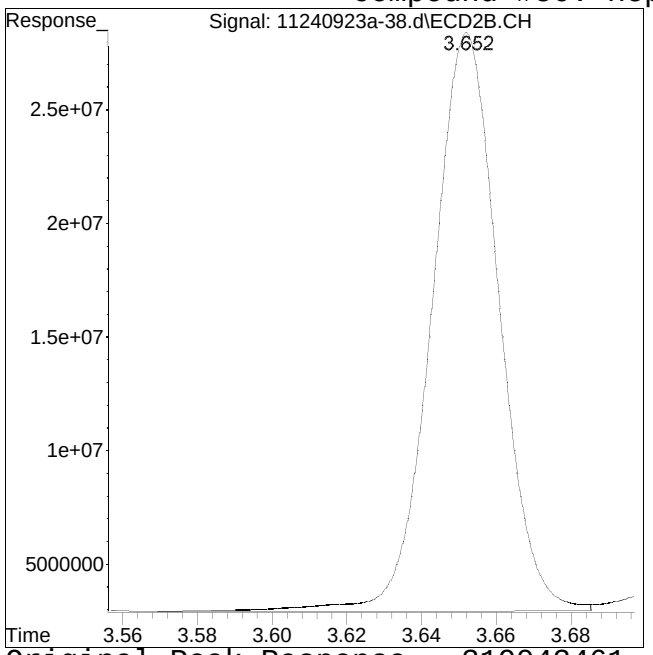


Original Peak Response = 588034443 Manual Peak Response = 561666772 M4
M4 = Poor automated baseline construction.

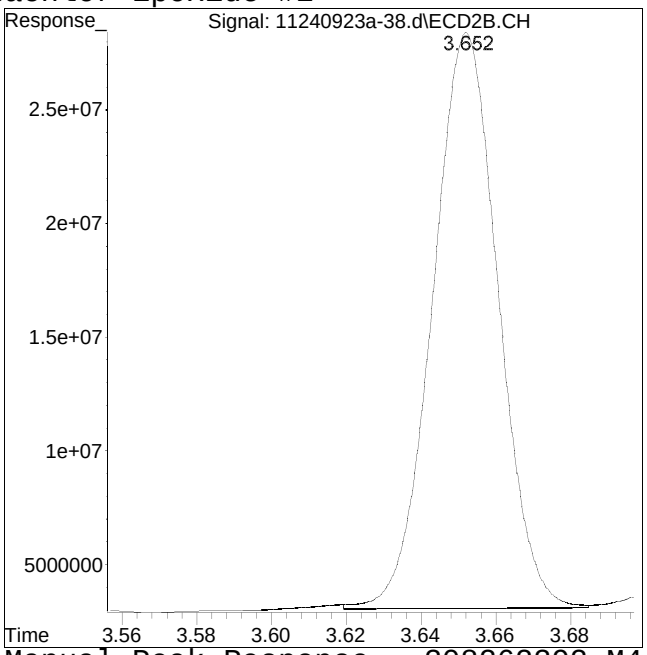
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 319043461



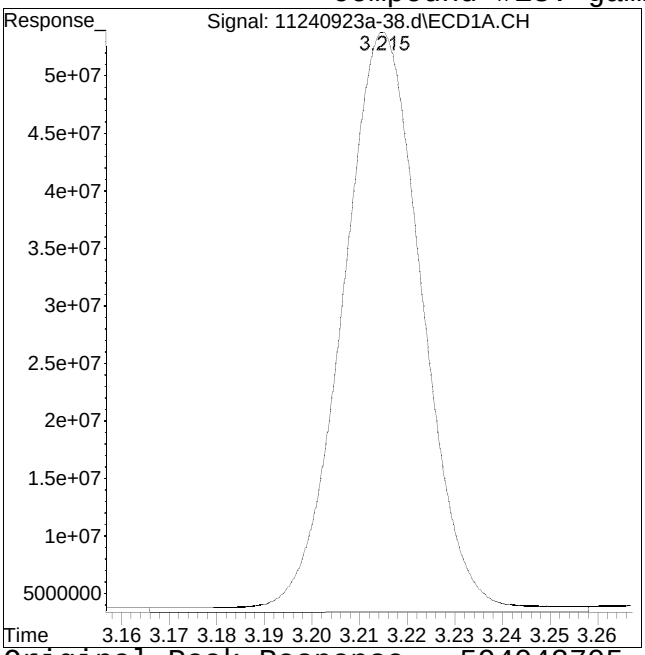
Manual Peak Response = 308262392 M4

M4 = Poor automated baseline construction.

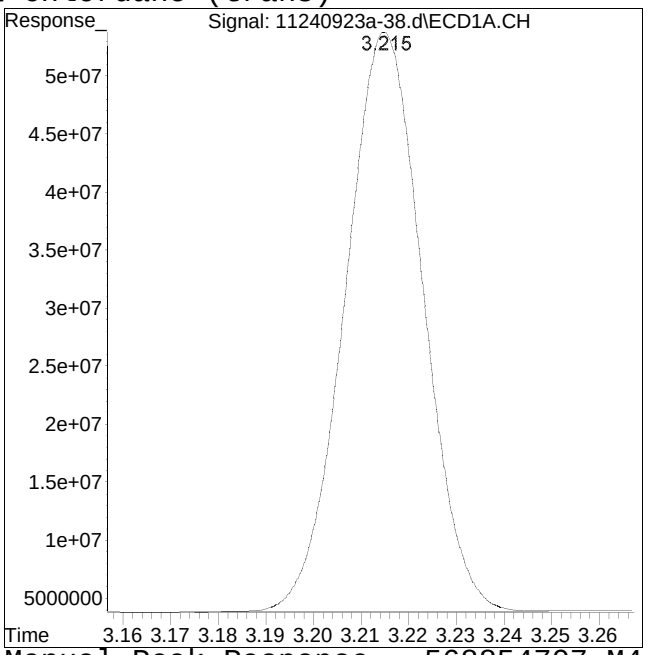
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 594042705



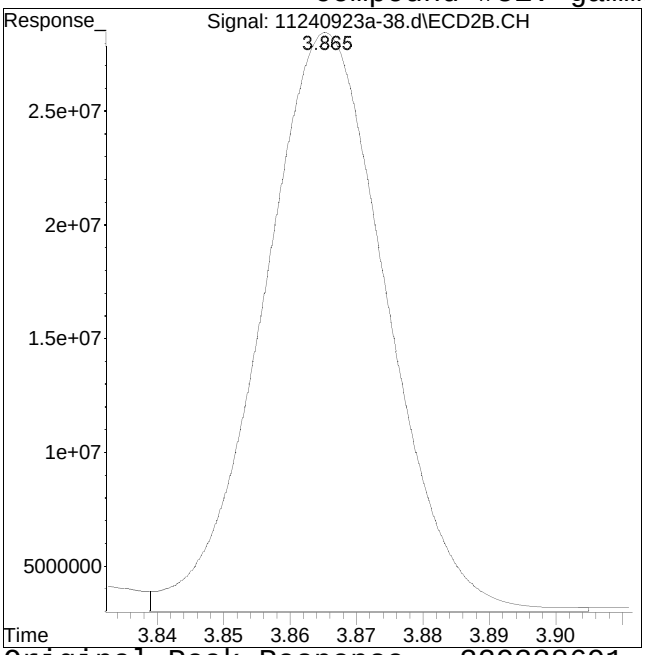
Manual Peak Response = 568854707 M4

M4 = Poor automated baseline construction.

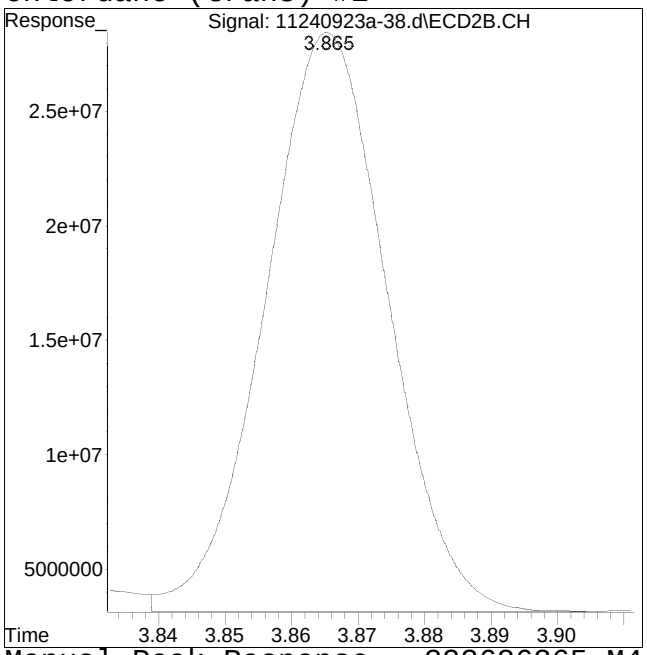
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 329338691



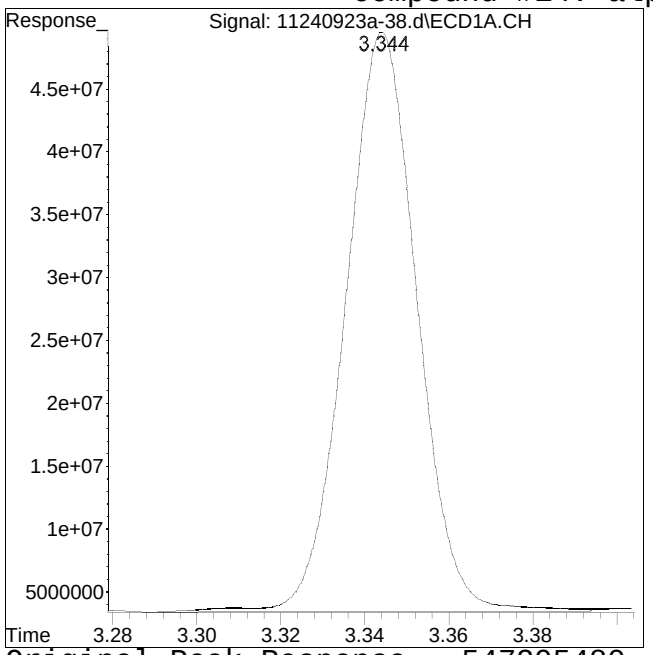
Manual Peak Response = 322626365 M4

M4 = Poor automated baseline construction.

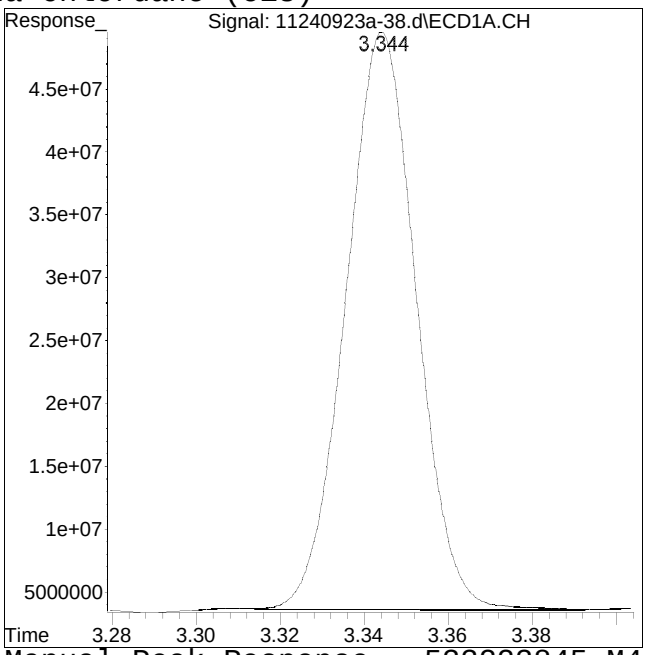
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 547295480



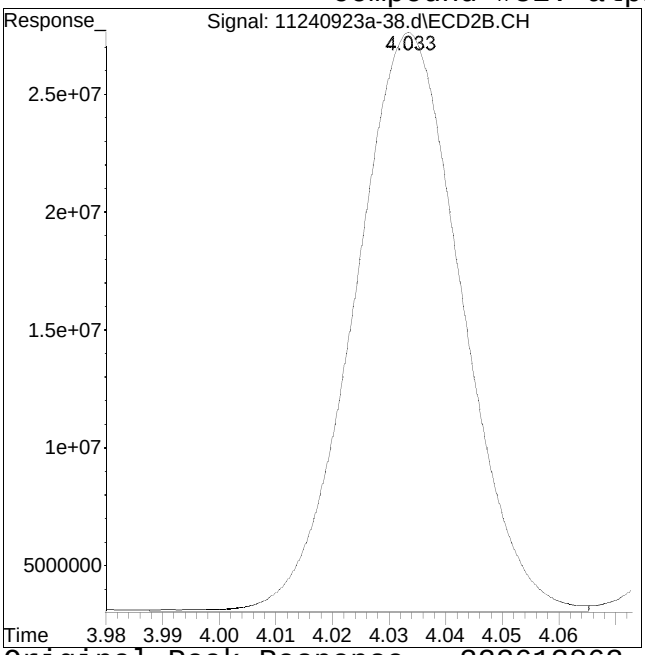
Manual Peak Response = 533223845 M4

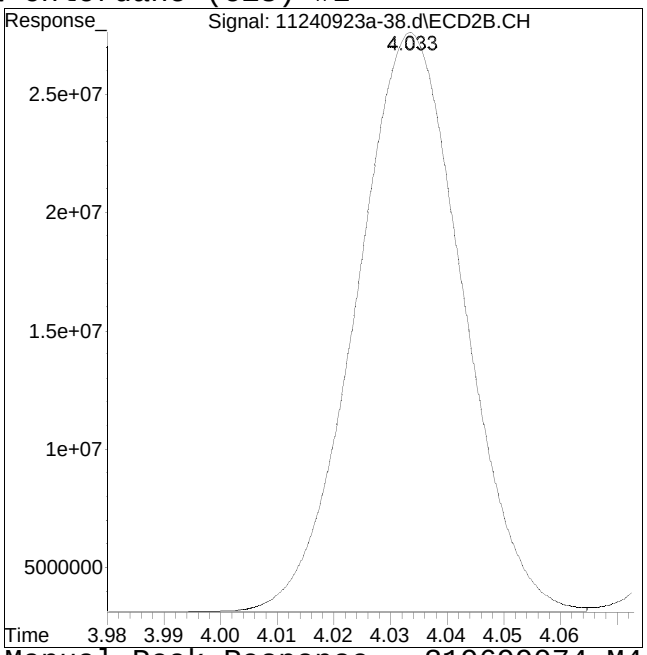
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #52: alpha-Chlordane (cis) #2



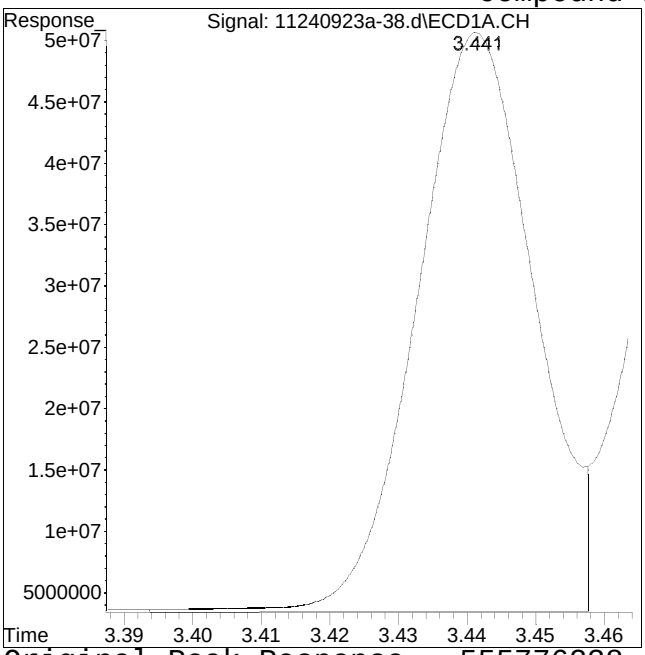


Original Peak Response = 323613863 Manual Peak Response = 319699074 M4
M4 = Poor automated baseline construction.

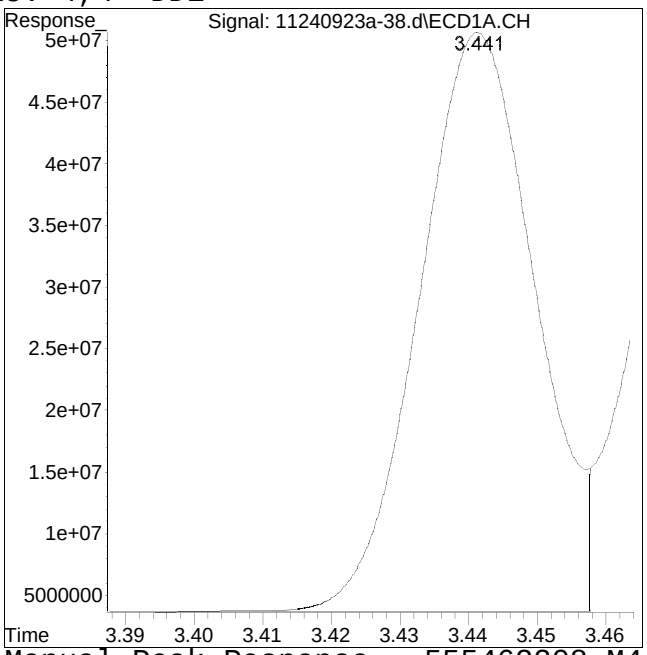
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #15: 4,4'-DDE



Original Peak Response = 555776238

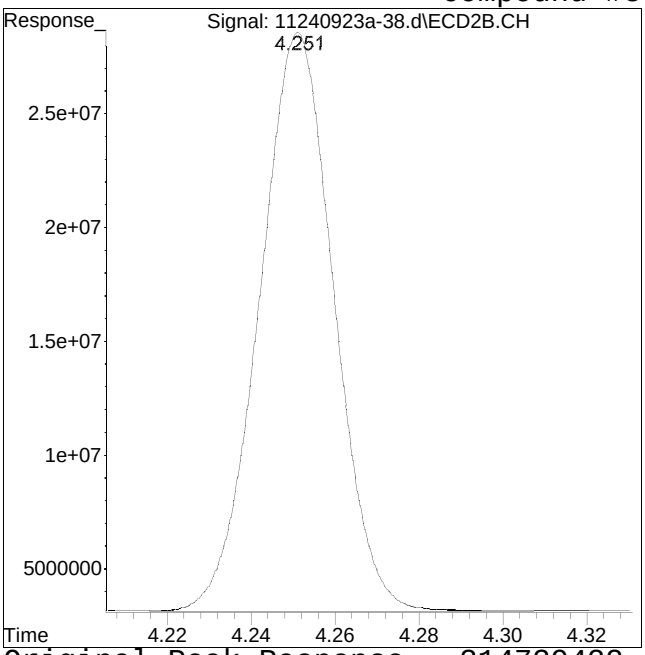


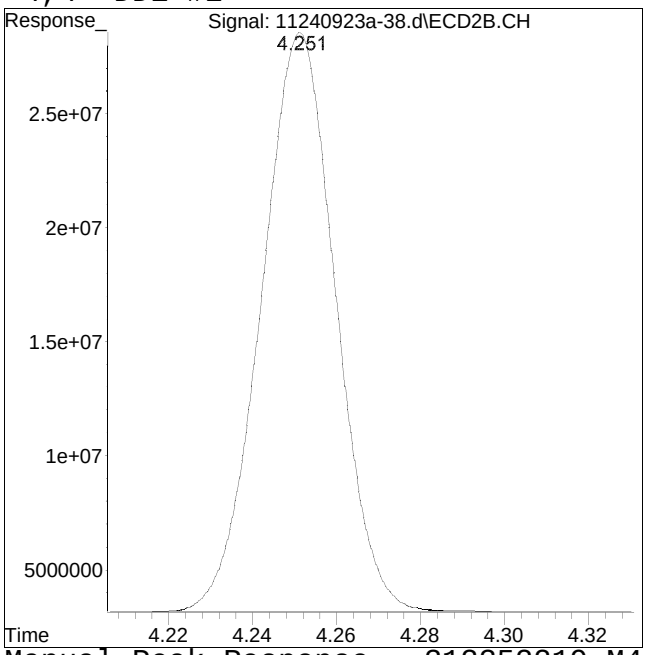
Manual Peak Response = 555462208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #53: 4,4'-DDE #2



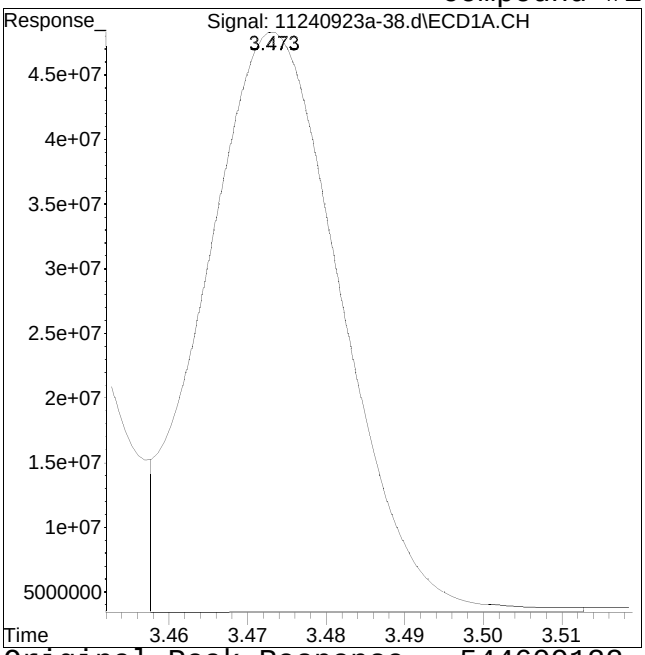


Original Peak Response = 314739422 Manual Peak Response = 312352219 M4
M4 = Poor automated baseline construction.

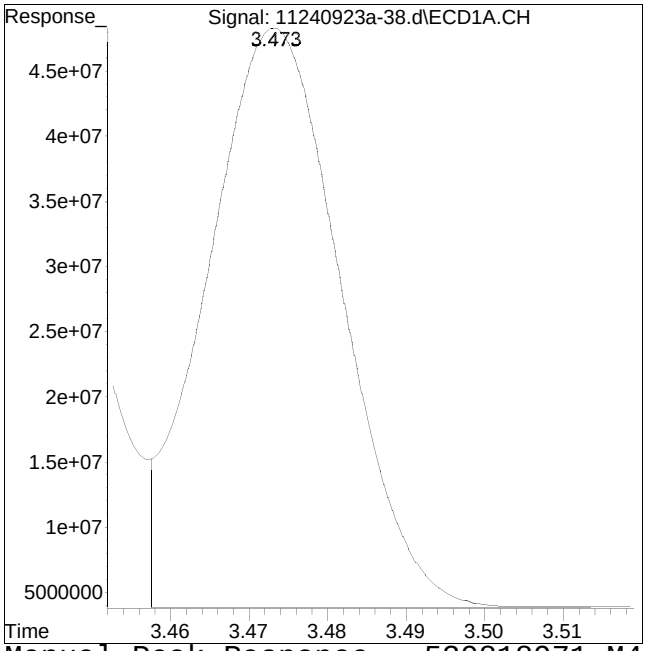
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #16: Endosulfan I



Original Peak Response = 544609122



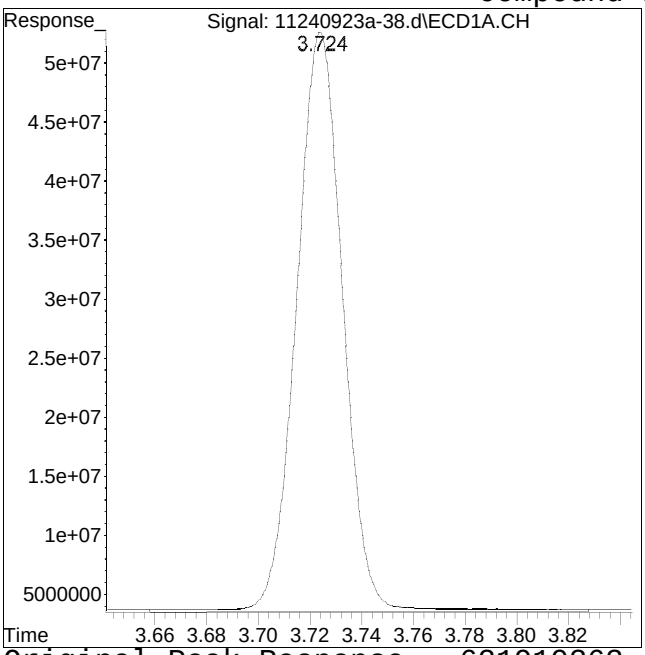
Manual Peak Response = 530818971 M4

M4 = Poor automated baseline construction.

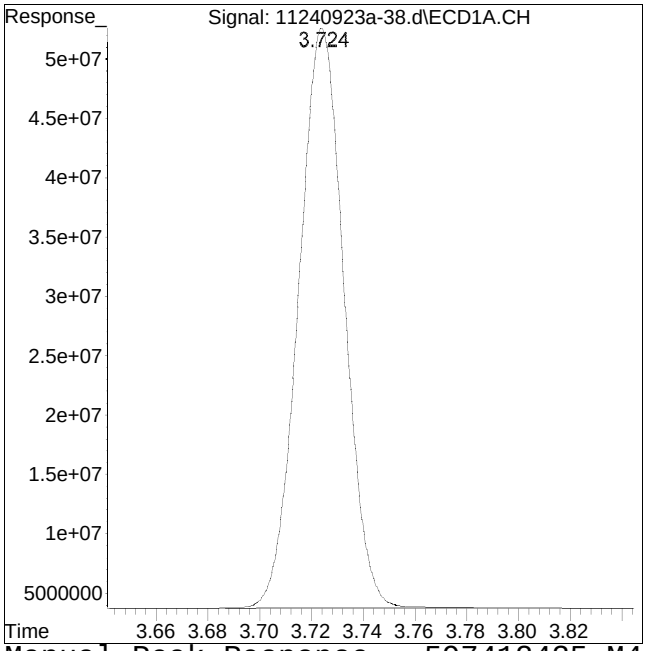
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #17: Dieldrin



Original Peak Response = 621919363



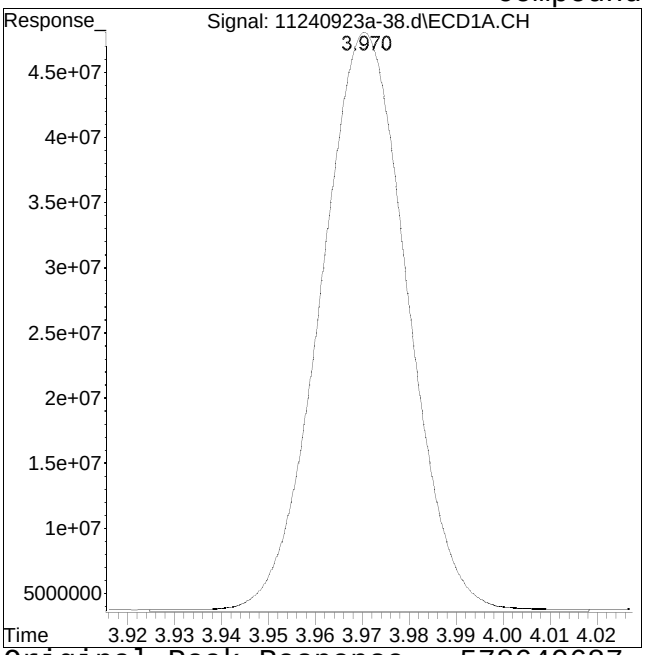
Manual Peak Response = 597412435 M4

M4 = Poor automated baseline construction.

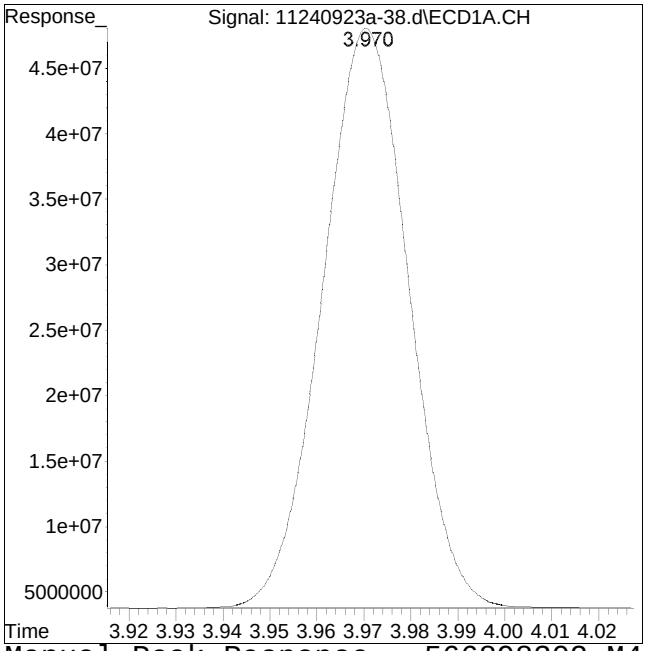
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #18: Endrin



Original Peak Response = 578640687



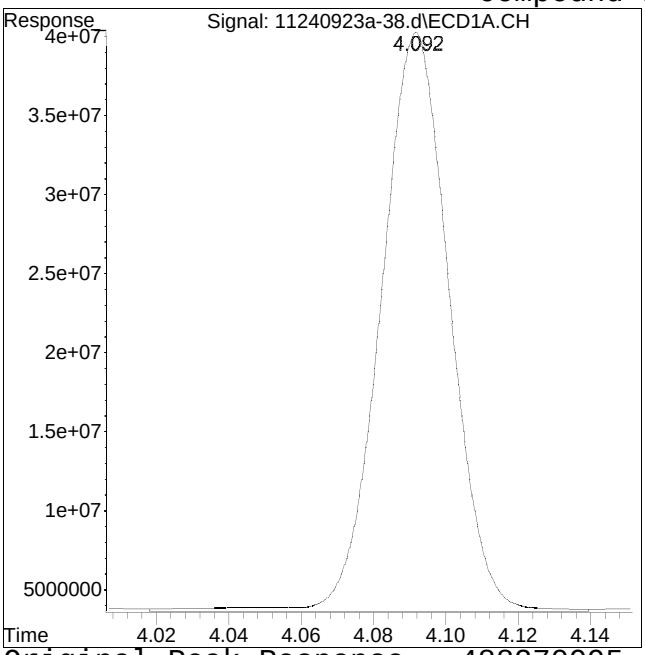
Manual Peak Response = 566898302 M4

M4 = Poor automated baseline construction.

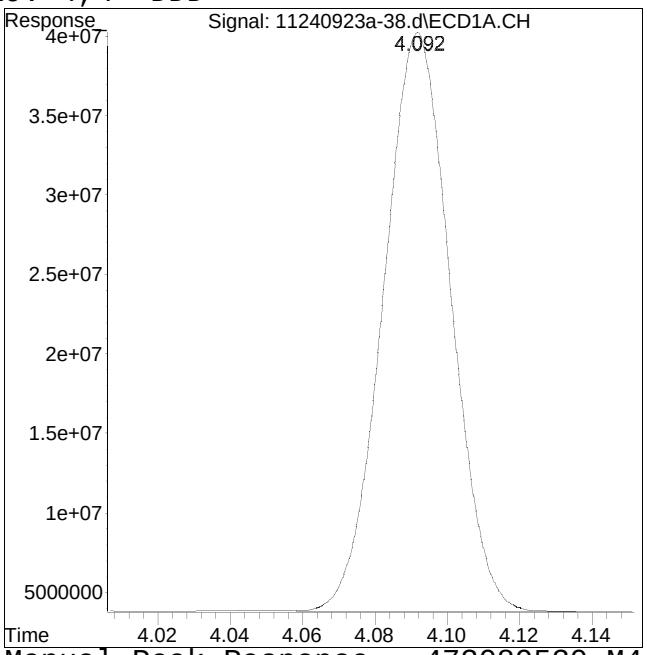
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #19: 4,4'-DDD



Original Peak Response = 488270995



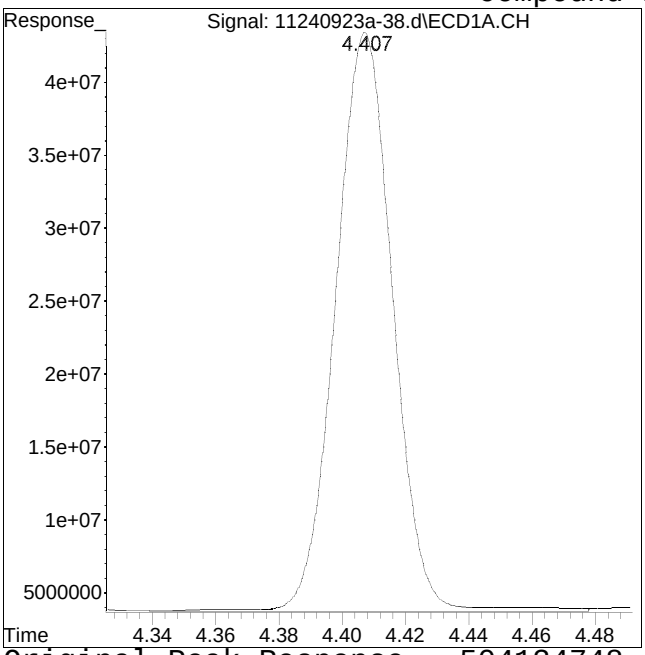
Manual Peak Response = 473089530 M4

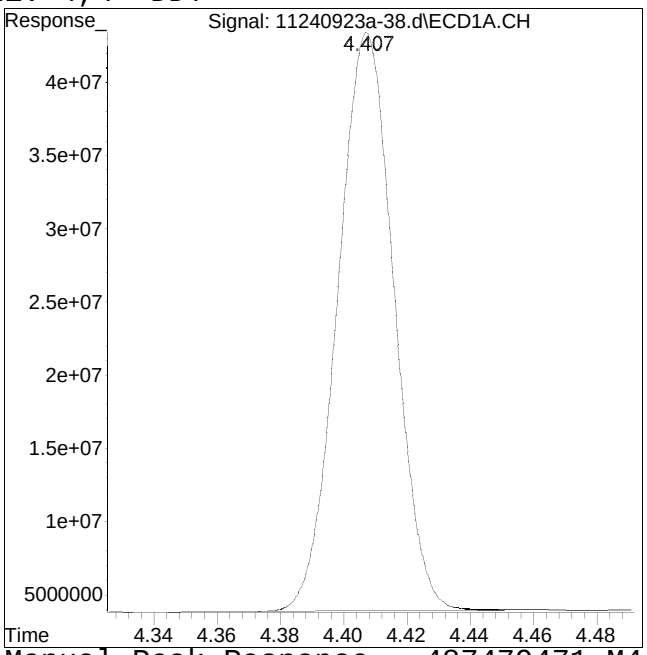
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #21: 4,4'-DDT



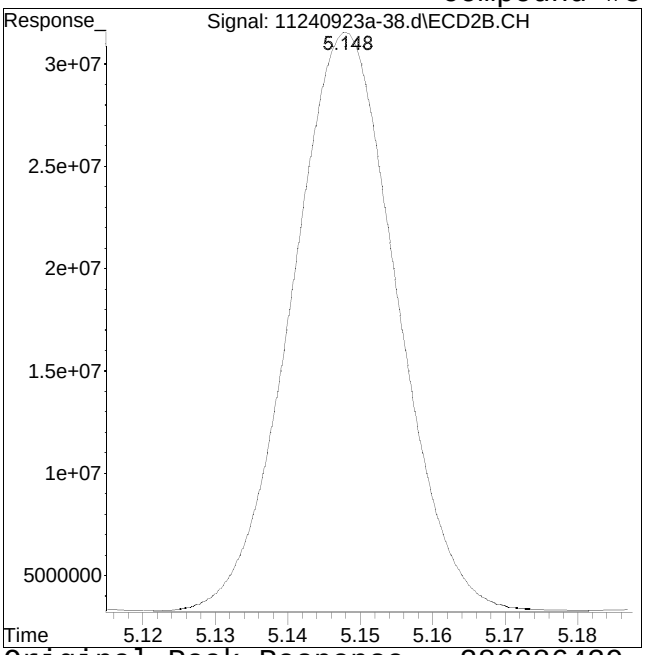


Original Peak Response = 504134748 Manual Peak Response = 487479471 M4
M4 = Poor automated baseline construction.

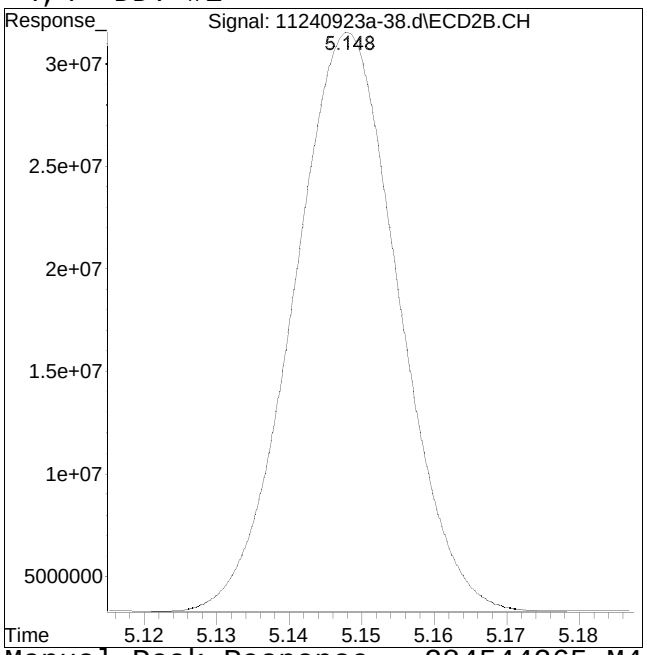
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 286886439



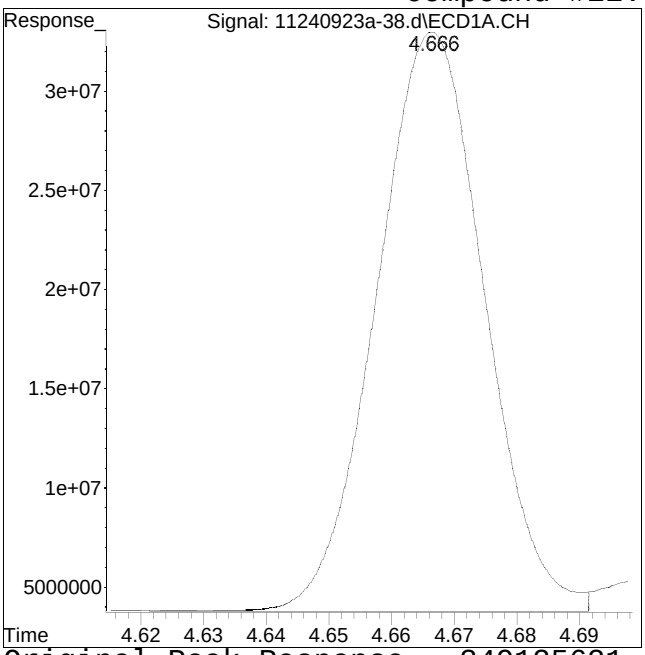
Manual Peak Response = 284544265 M4

M4 = Poor automated baseline construction.

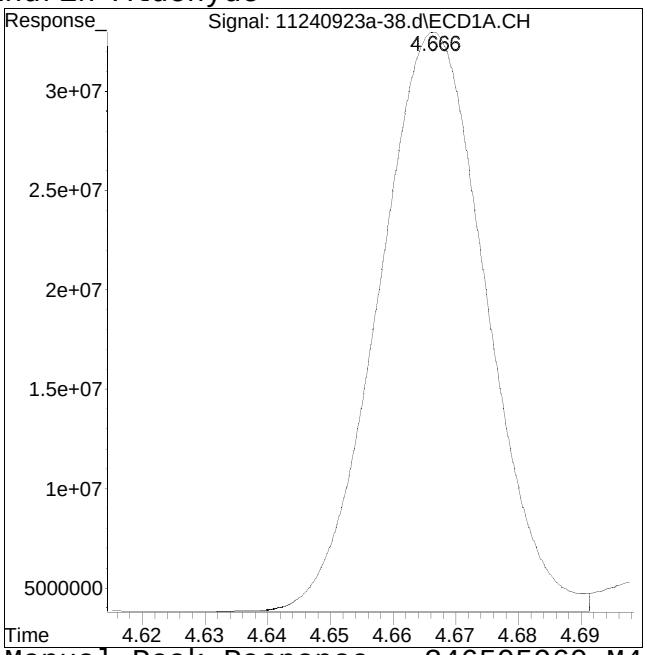
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 349125621



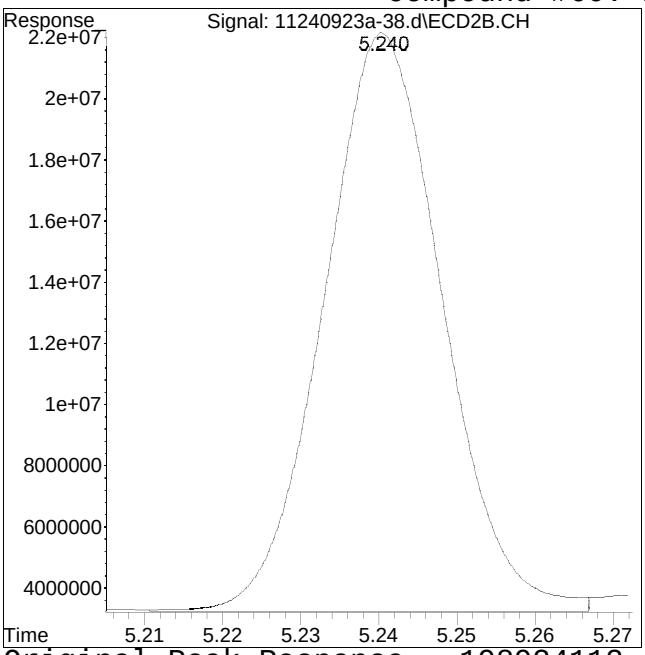
Manual Peak Response = 346505960 M4

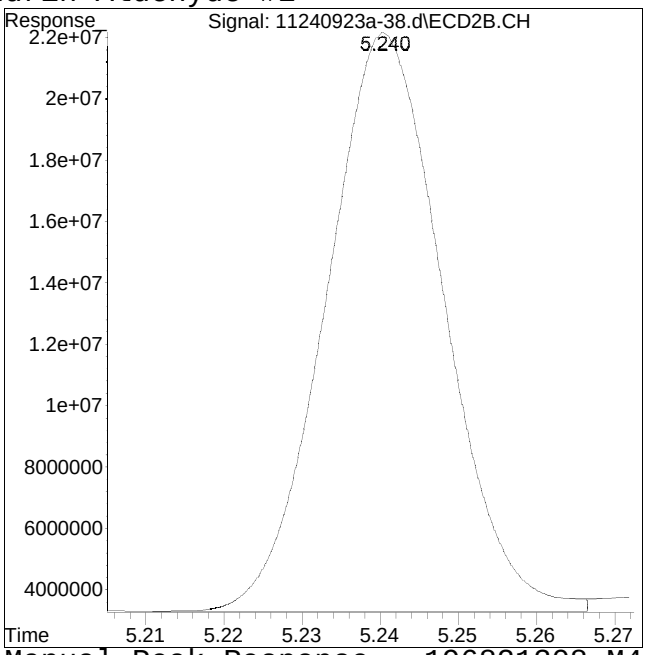
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #60: Endrin Aldehyde #2



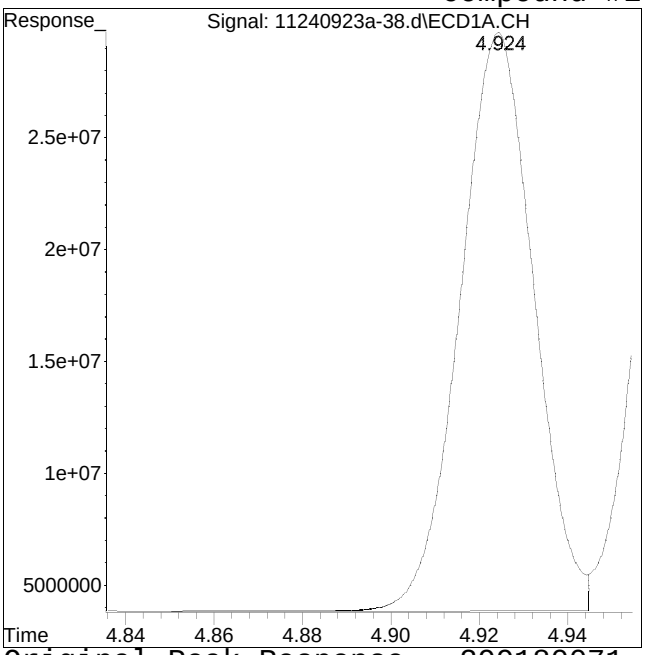


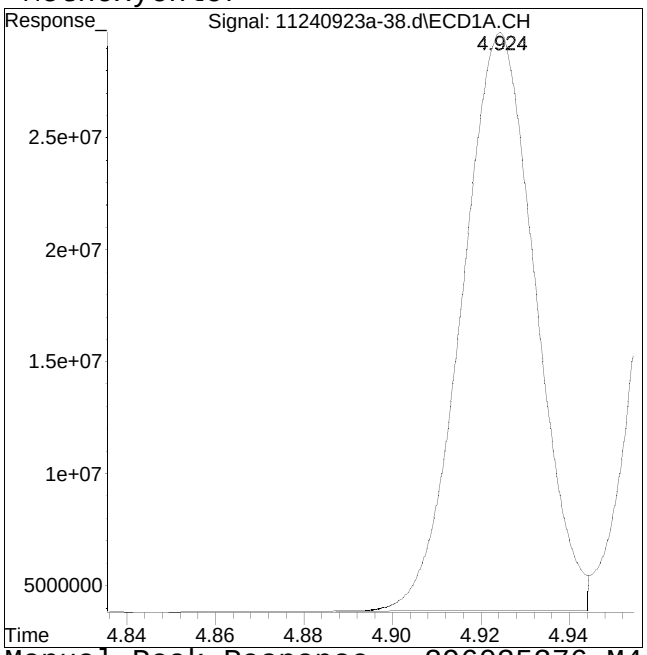
Original Peak Response = 198924112 Manual Peak Response = 196821308 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #23: Methoxychlor



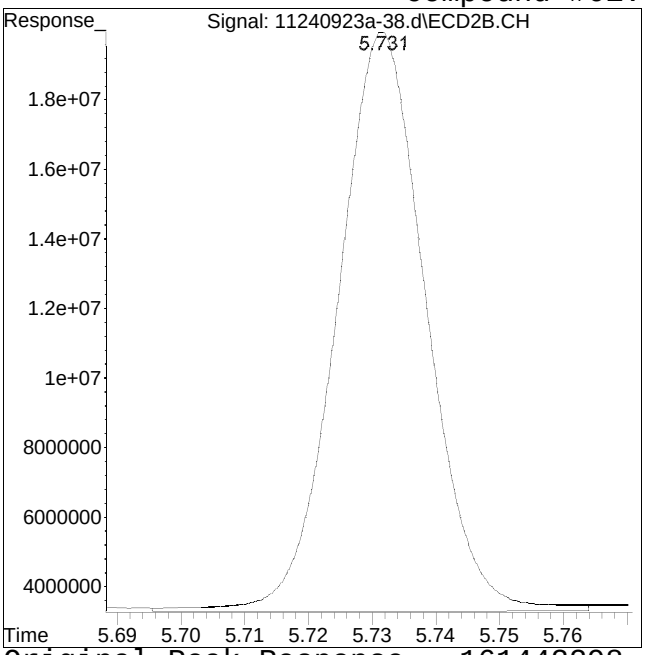


Original Peak Response = 299180071 Manual Peak Response = 296035376 M4
M4 = Poor automated baseline construction.

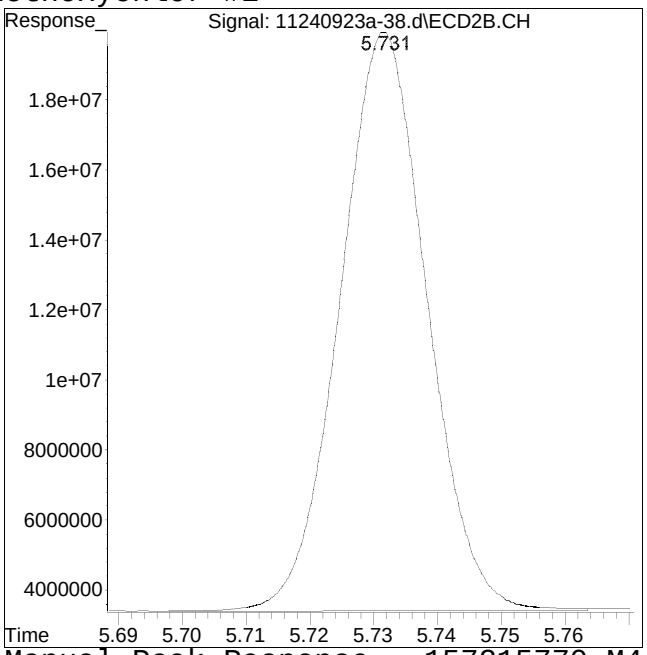
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #61: Methoxychlor #2



Original Peak Response = 161442298



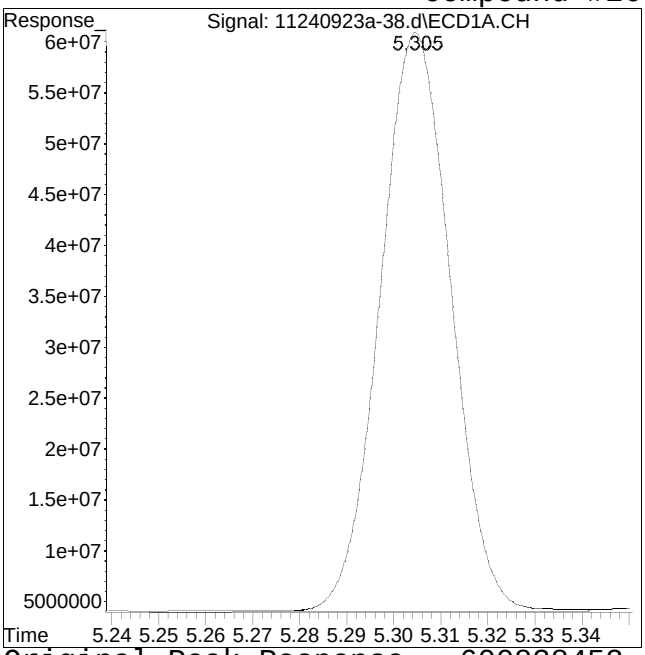
Manual Peak Response = 157215770 M4

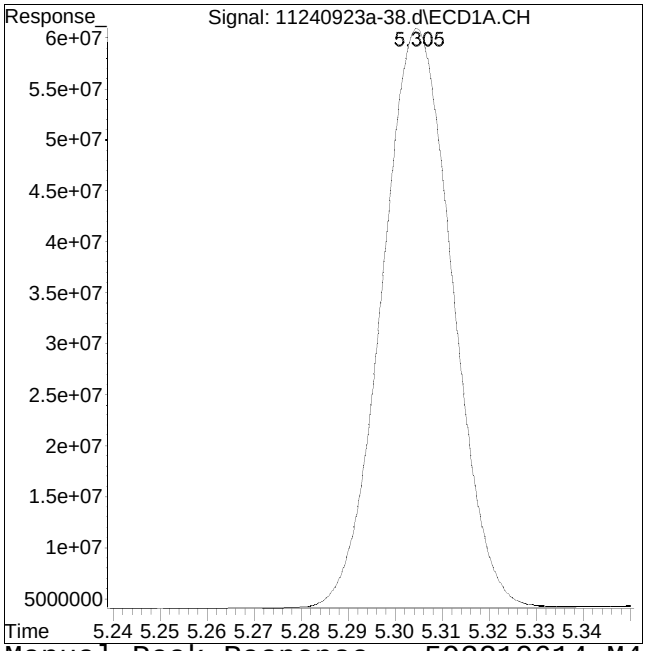
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #26: Endrin Ketone



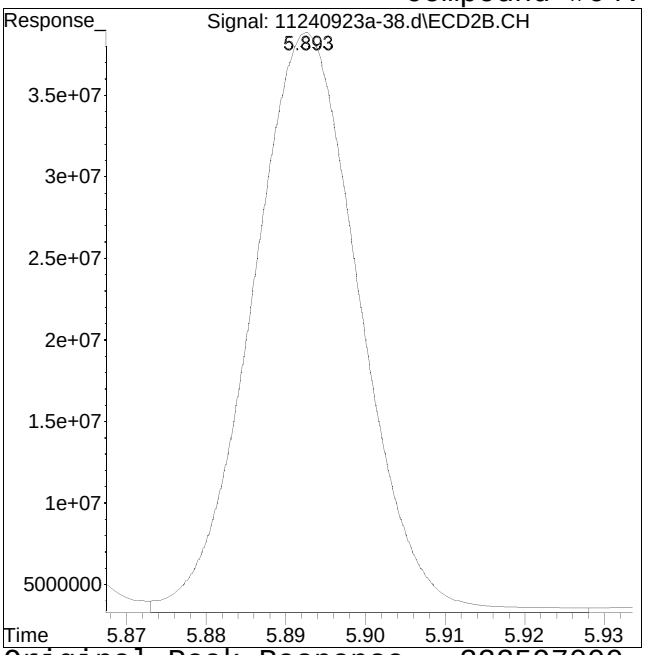


Original Peak Response = 600838452 Manual Peak Response = 593210614 M4
M4 = Poor automated baseline construction.

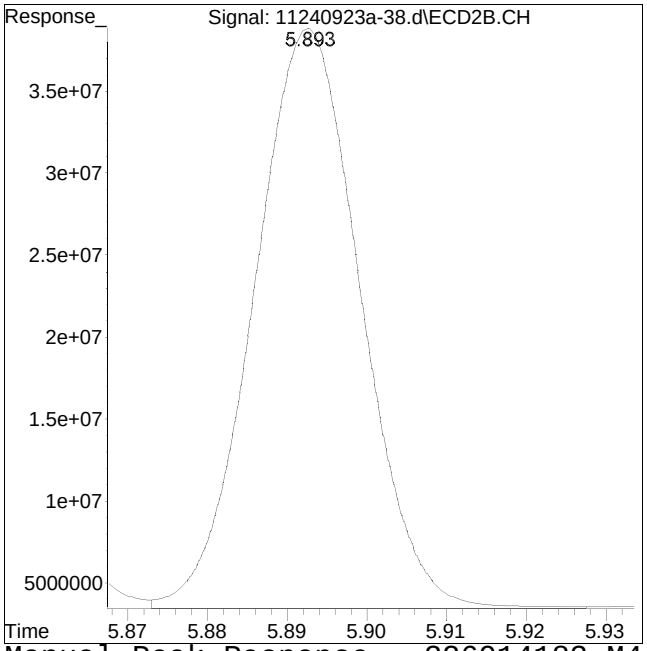
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 332597000

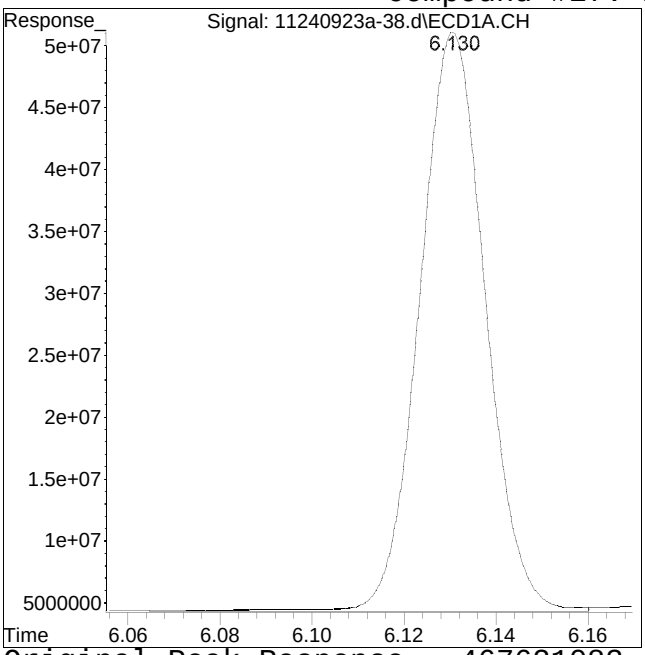


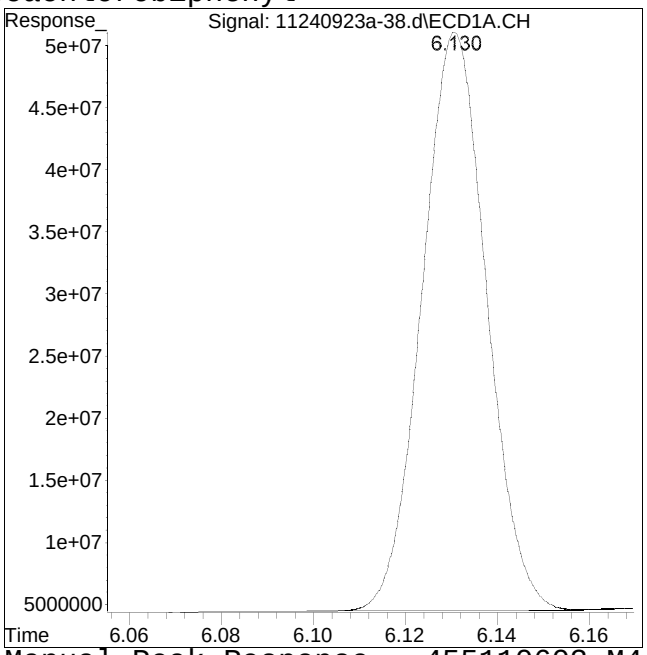
Manual Peak Response = 326914183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #27: Decachlorobiphenyl



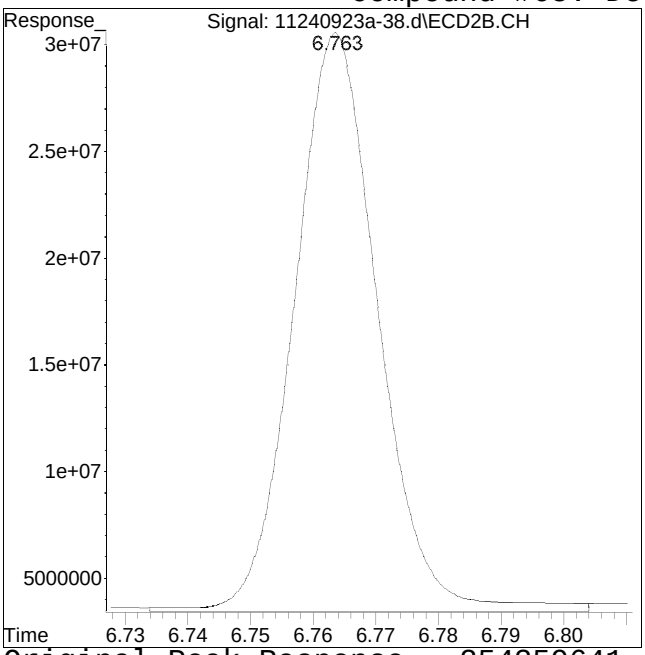


Original Peak Response = 467621083 Manual Peak Response = 455110603 M4
M4 = Poor automated baseline construction.

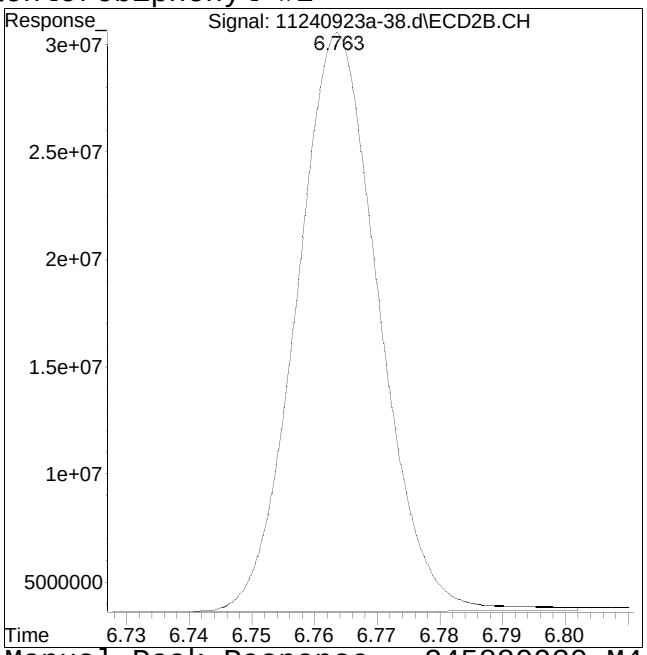
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-38.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:32 Instrument : Pest 11
Sample : WG1974839-2,42,, Quant Date : 9/23/2024 5:33 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 254359641



Manual Peak Response = 245880930 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-39.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:44
Operator : PEST11:akm
Sample : WG1974839-3,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:15 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.201	1.274	348.4E6	212.1E6	25.000M4	25.000
	Standard Area 1 : #1 = 253470414				Recovery = 137.44%		
	Standard Area 1 : #2 = 192674888				Recovery = 110.06%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.528	1.721	465.1E6	275.2E6	32.125M4	29.133M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 64.25%		58.27%	
27) s	Decachlorobi	6.131	6.764	443.7E6	240.4E6	27.381M4	26.741M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 54.76%		53.48%	
Target Compounds							
4) t	alpha-BHC	1.823	2.112	659.1E6	400.6E6	32.387M3	29.160M4
5) t	gamma-BHC (l	2.014	2.382	656.3E6	365.3E6	33.750M4	27.979M4
6) t	beta-BHC	2.068	2.446	280.5E6	163.0E6	32.067M4	30.225M4
7) t	delta-BHC	2.189	2.699	598.2E6	330.4E6	31.245M4	25.583M4
8) t	Heptachlor	2.344	2.757	627.1E6	339.9E6	34.067M4	25.081M4
9) t	Aldrin	2.575	3.061	554.4E6	318.7E6	32.262	26.187M4
12) t	Heptachlor E	3.095	3.651	544.8E6	304.9E6	32.979M4	25.220M4
13) t	gamma-Chlord	3.215	3.865	555.1E6	313.2E6	36.987M4	28.152M4
14) t	alpha-Chlord	3.344	4.033	519.1E6	310.1E6	30.631M4	25.286M4
15) t	4,4'-DDE	3.441	4.251	529.2E6	304.1E6	31.871M4	26.704
16) t	Endosulfan I	3.473	4.095	505.6E6	293.6E6	32.506M4	25.990
17) t	Dieldrin	3.724	4.410	579.3E6	329.4E6	36.621M4	29.256
18) t	Endrin	3.970	4.723	550.5E6	308.8E6	34.267	27.037
19) t	4,4'-DDD	4.092	4.862	456.5E6	263.6E6	35.325M4	28.670
20) t	Endosulfan I	4.225	4.933	511.2E6	288.5E6	34.873	28.030
21) t	4,4'-DDT	4.407	5.148	478.7E6	276.4E6	32.454M4	26.069

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-39.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:44
Operator : PEST11:akm
Sample : WG1974839-3,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:15 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240923A\11240923a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.666	5.240	336.2E6	193.6E6	27.213M4	24.245M4
23) t Methoxychlor	4.924	5.731	285.8E6	153.9E6	34.647M4	25.761M4
25) t Endosulfan S	5.073	5.476	496.7E6	276.0E6	35.301M4	27.139
26) t Endrin Keton	5.305	5.892	577.9E6	318.8E6	35.052M4	29.808M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

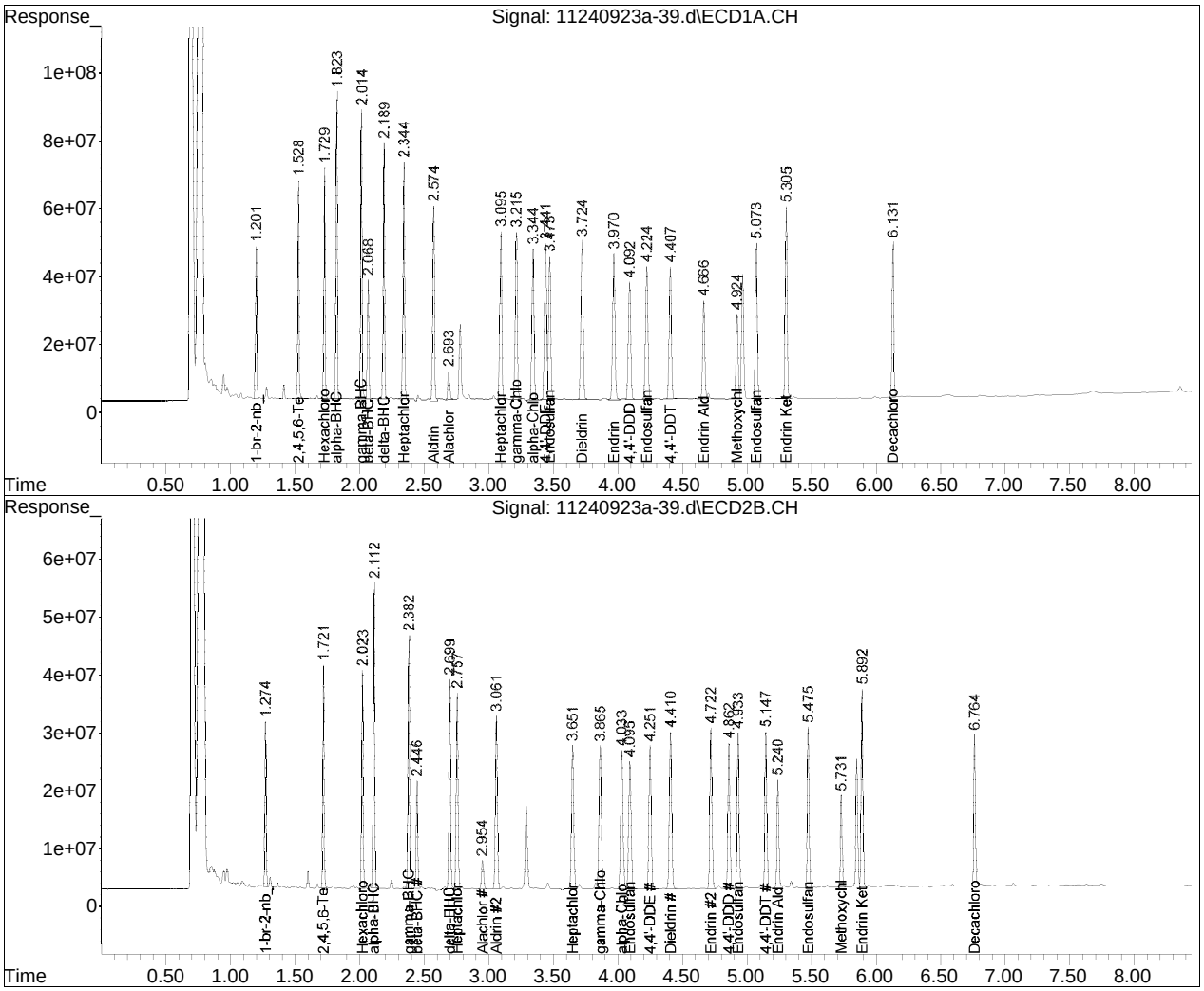
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240923A\11240923a-03.d•

Data Path : I:\PEST\Pest11\2024\240923A\
Data File : 11240923a-39.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Sep 2024 14:44
Operator : PEST11:akm
Sample : WG1974839-3,42,,
Misc : wg1974956,WG1974839,ical21365
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 17:33:15 2024
Quant Method : I:\PEST\Pest11\2024\240923A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Mon Sep 23 07:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

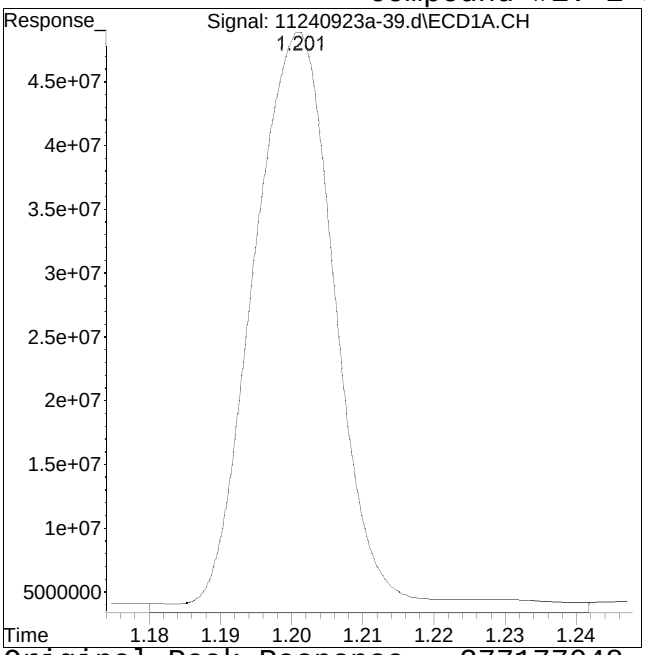
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

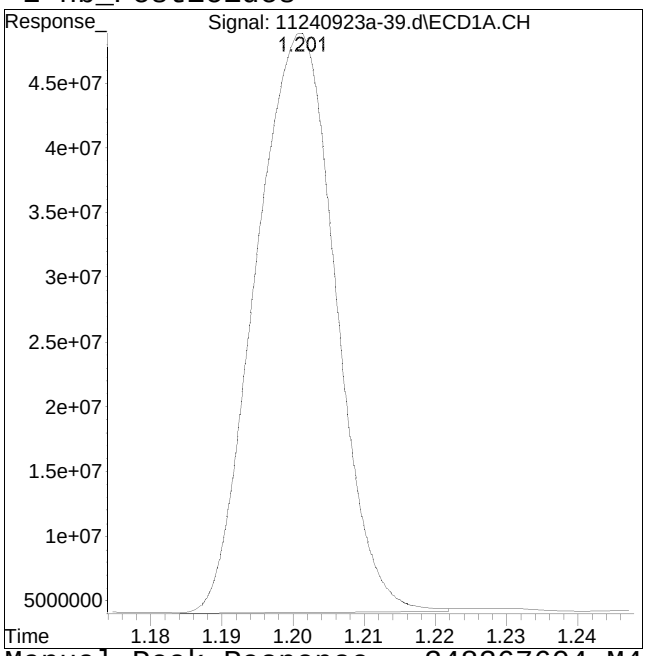


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #1: 1-br-2-nb_Pesticides



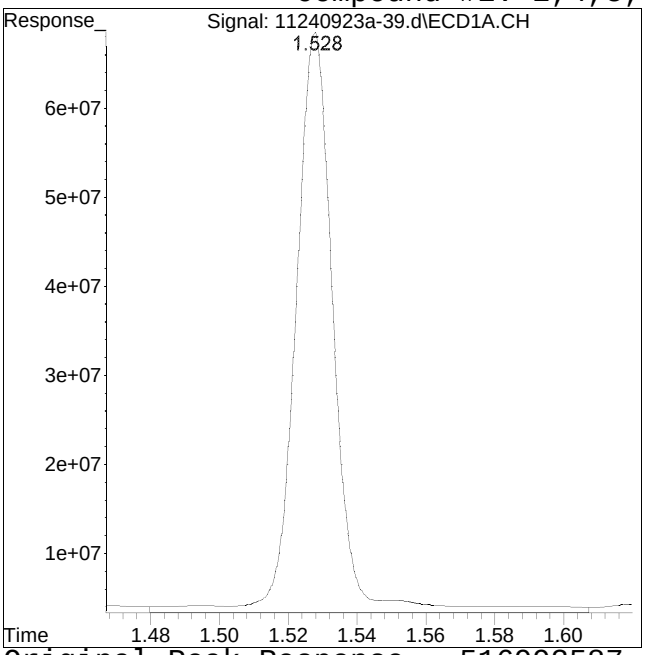


Original Peak Response = 377177048 Manual Peak Response = 348367604 M4
M4 = Poor automated baseline construction.

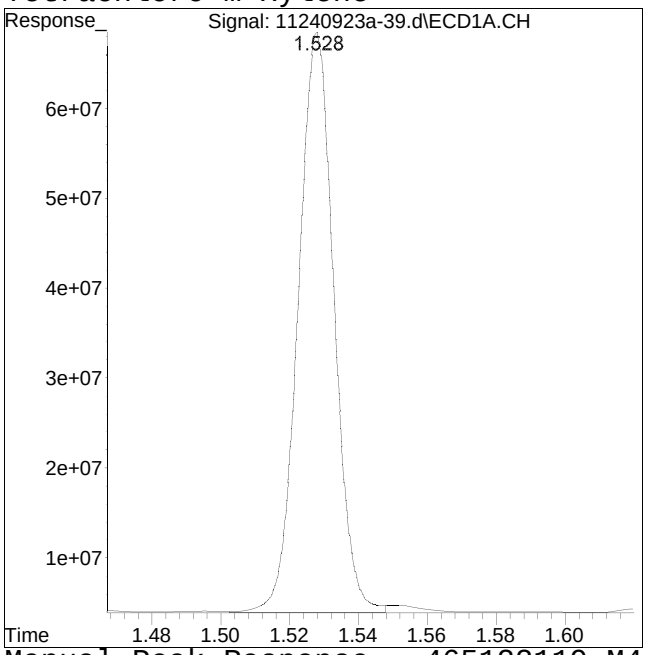
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 516993587



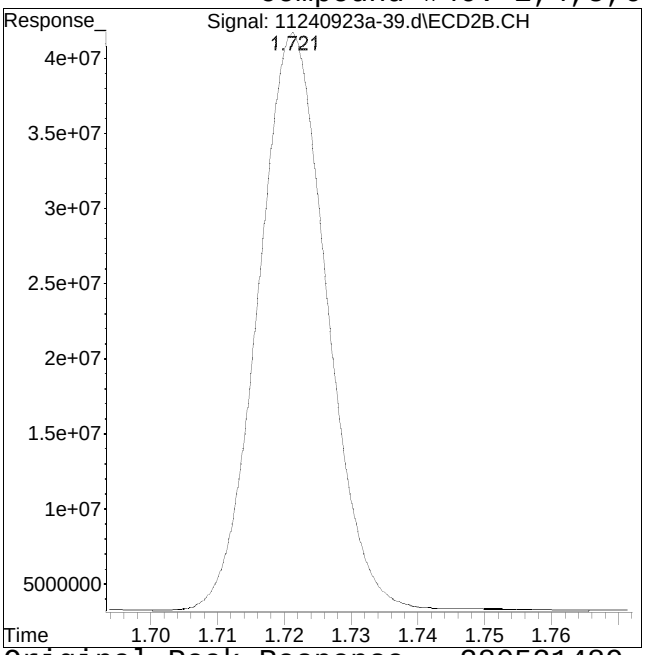
Manual Peak Response = 465122119 M4

M4 = Poor automated baseline construction.

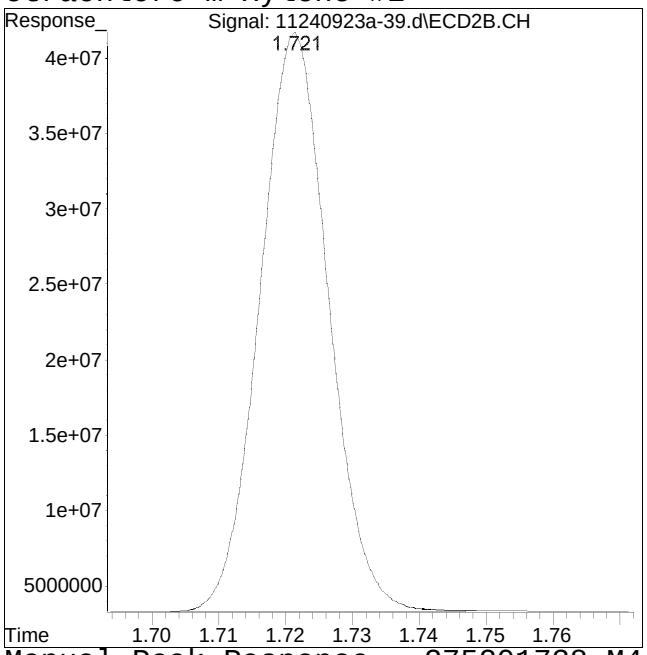
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 280521489



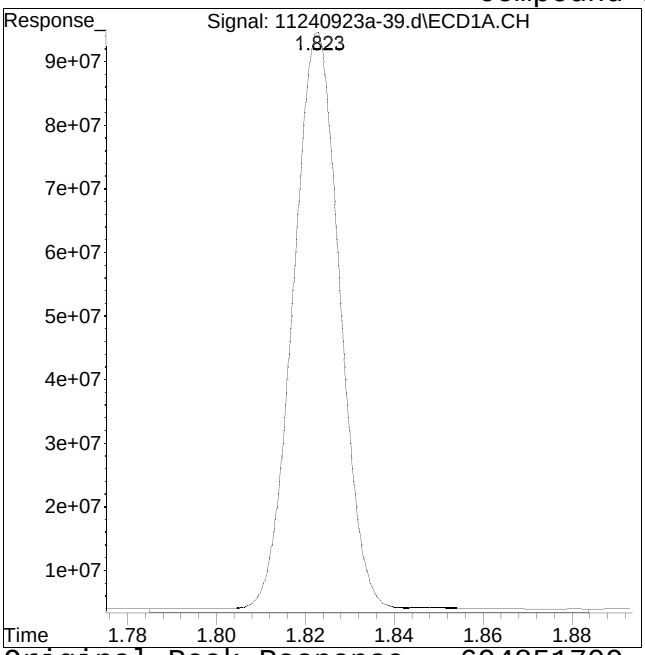
Manual Peak Response = 275201738 M4

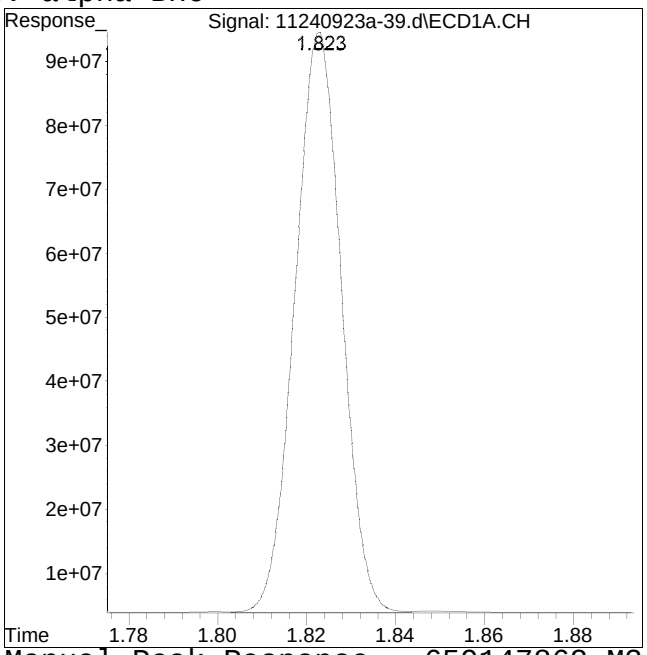
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #4: alpha-BHC



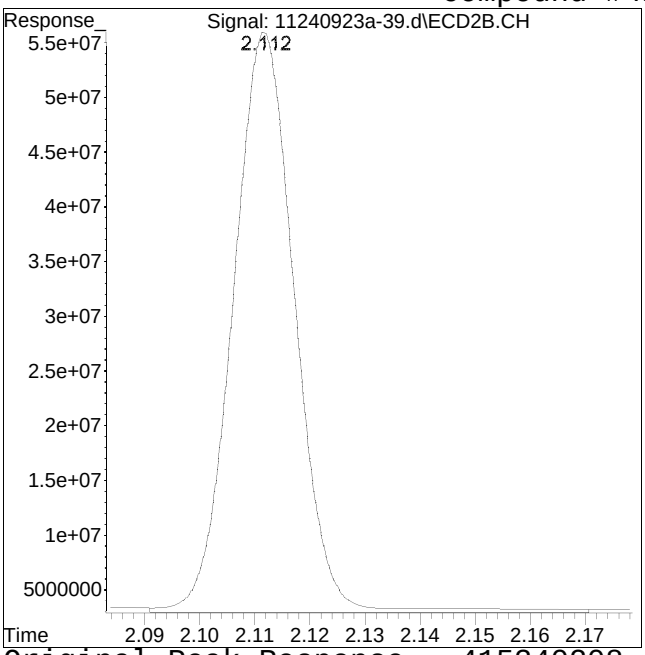


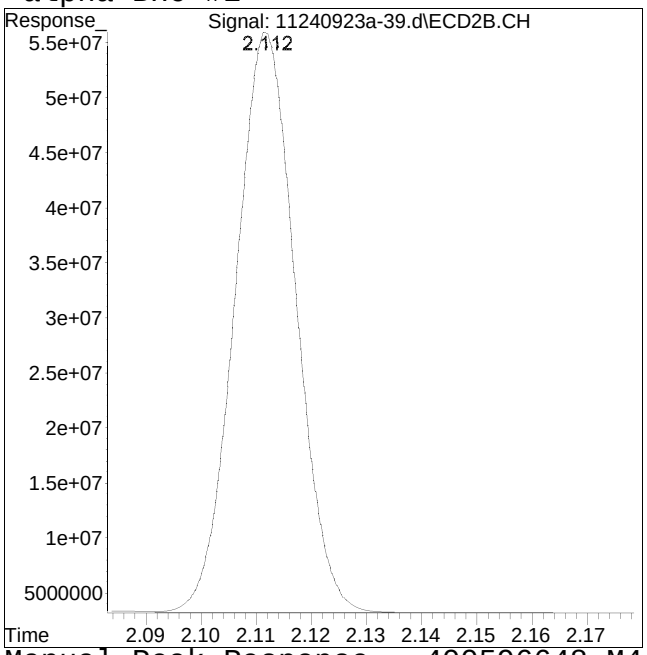
Original Peak Response = 694851709 Manual Peak Response = 659147862 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #42: alpha-BHC #2



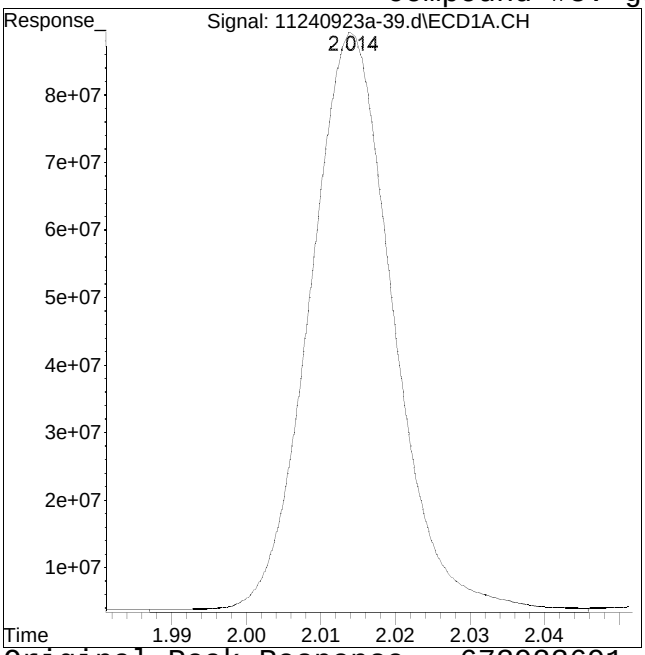


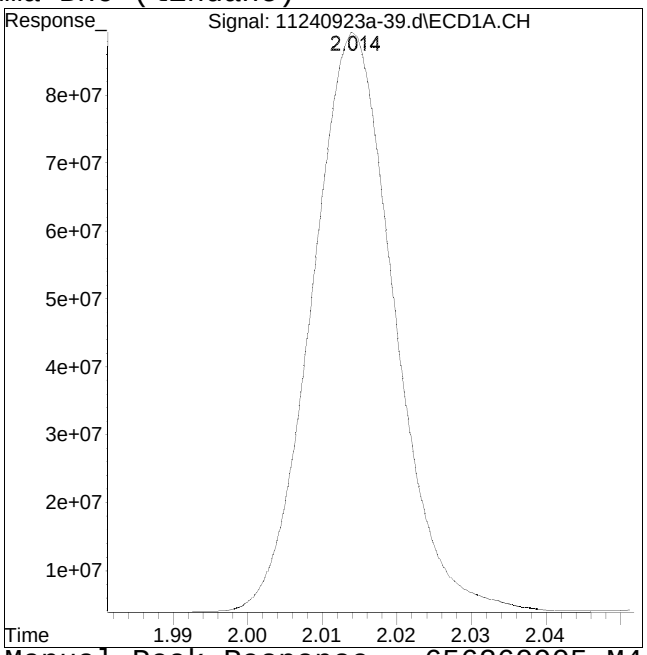
Original Peak Response = 415340208 Manual Peak Response = 400596648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #5: gamma-BHC (lindane)



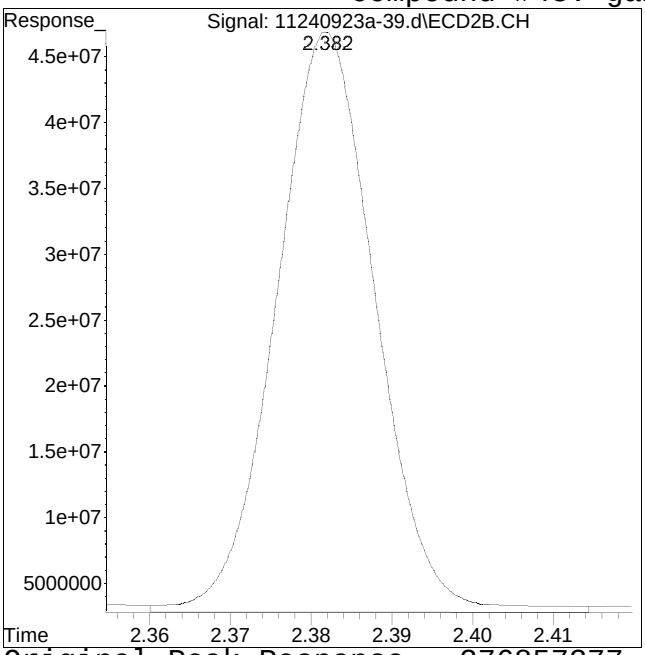


Original Peak Response = 673923691 Manual Peak Response = 656260905 M4
M4 = Poor automated baseline construction.

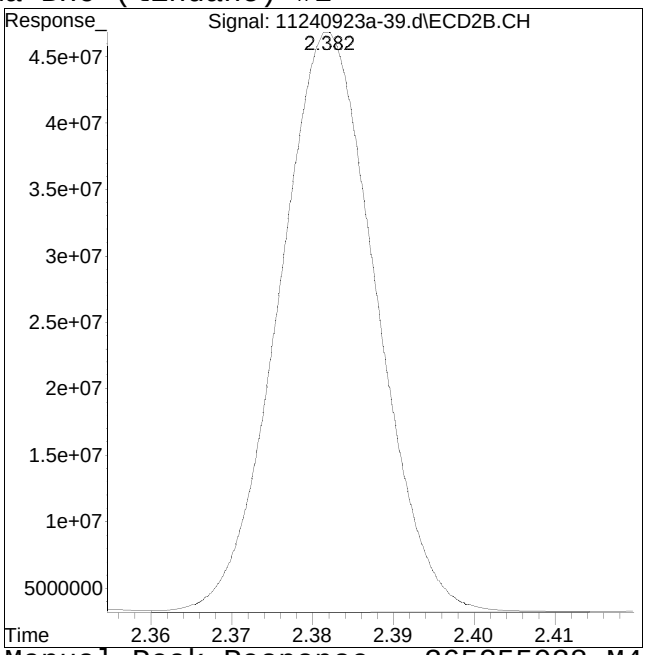
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 376857377



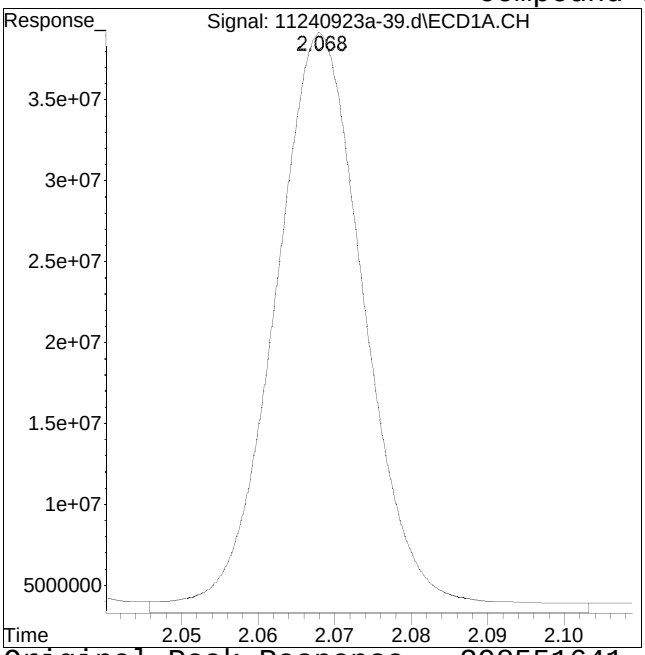
Manual Peak Response = 365255038 M4

M4 = Poor automated baseline construction.

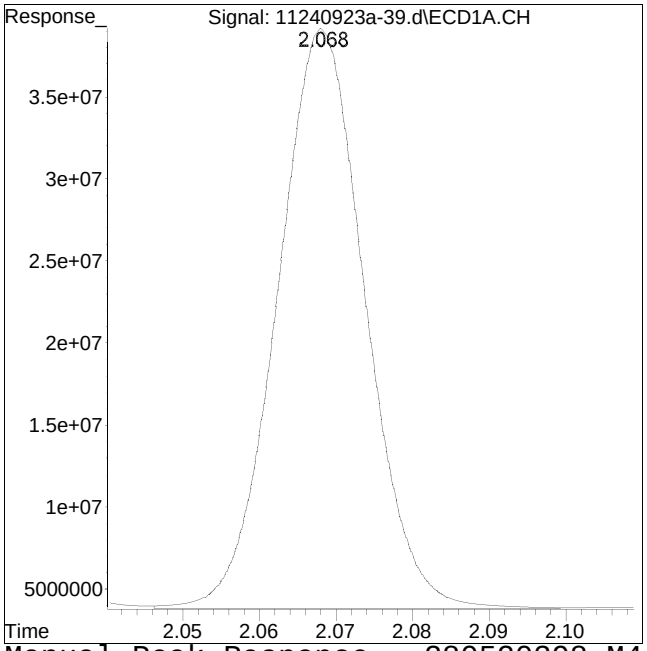
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #6: beta-BHC



Original Peak Response = 298551641



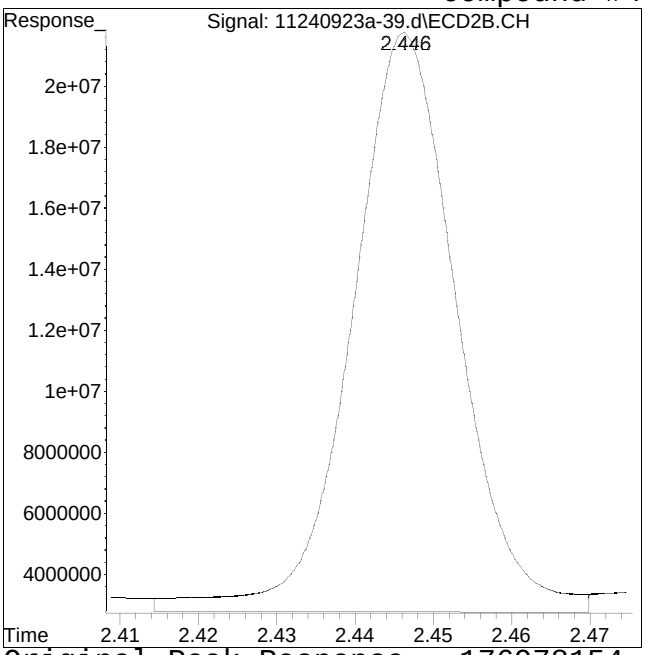
Manual Peak Response = 280520398 M4

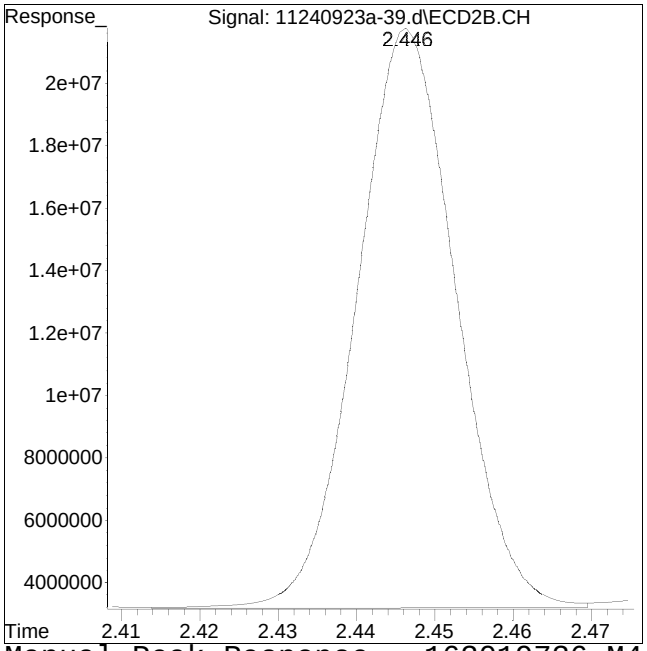
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #44: beta-BHC #2



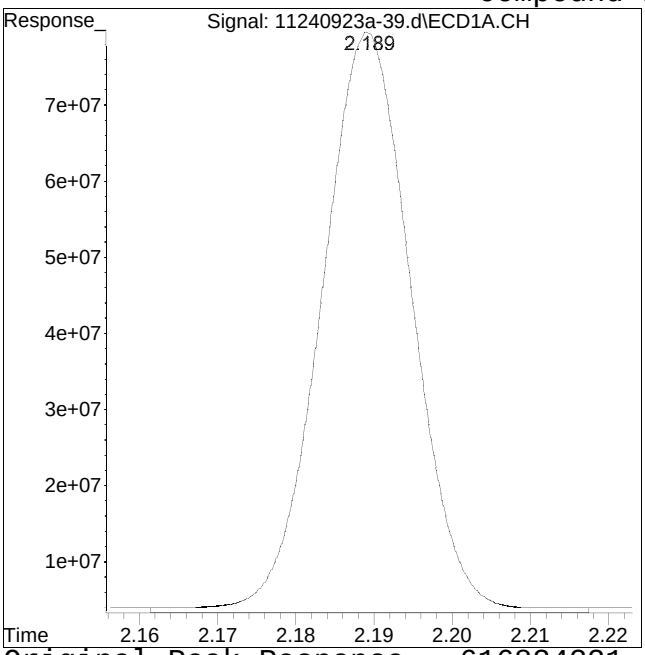


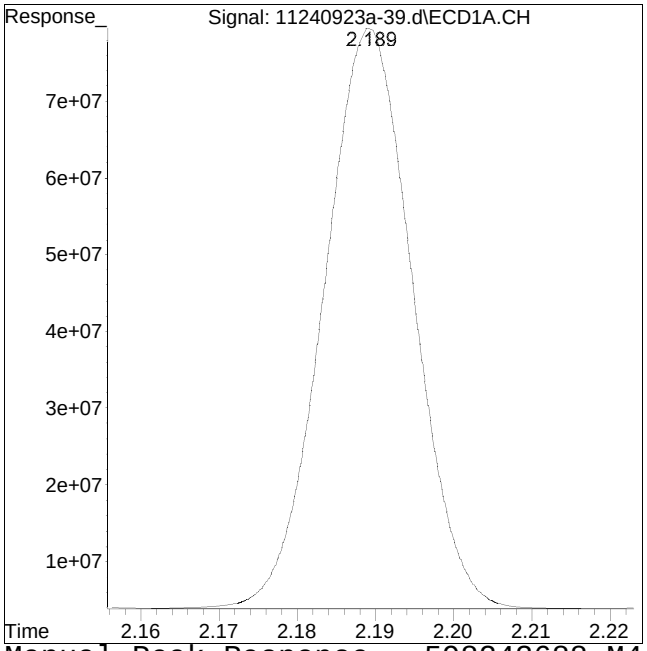
Original Peak Response = 176978154 Manual Peak Response = 163019736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #7: delta-BHC



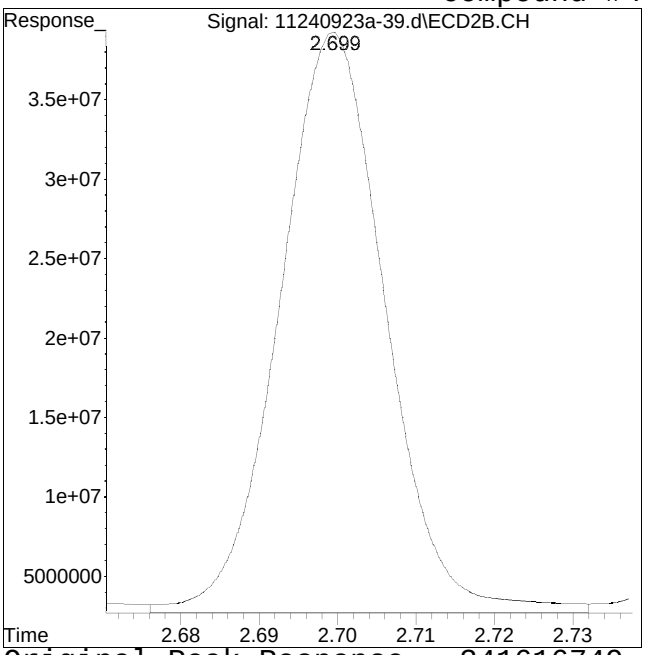


Original Peak Response = 616824221 Manual Peak Response = 598243688 M4
M4 = Poor automated baseline construction.

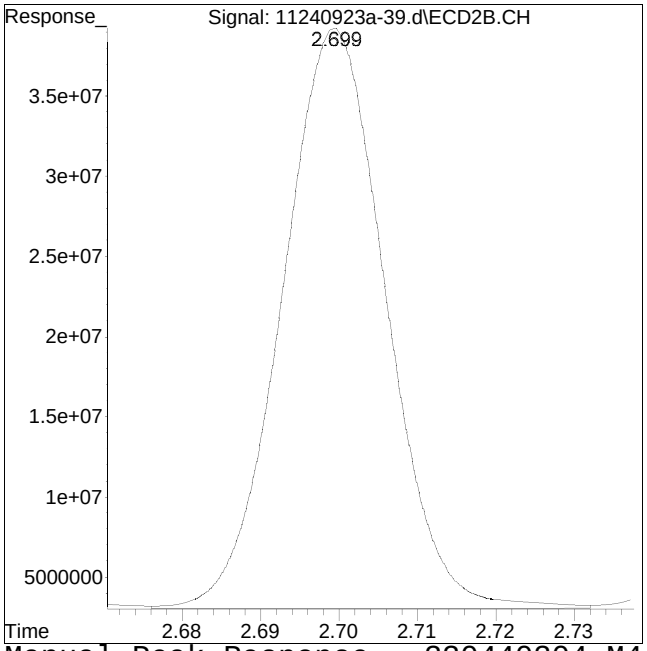
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #45: delta-BHC #2



Original Peak Response = 341616749

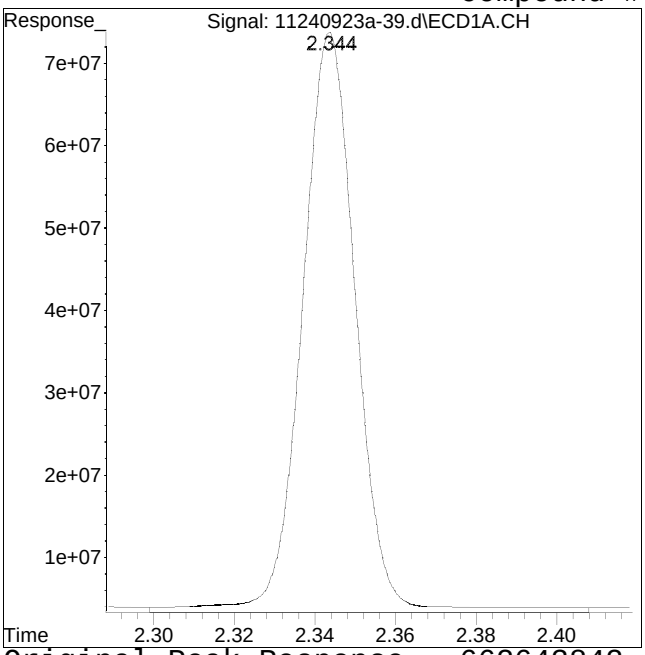


Manual Peak Response = 330440304 M4
M4 = Poor automated baseline construction.

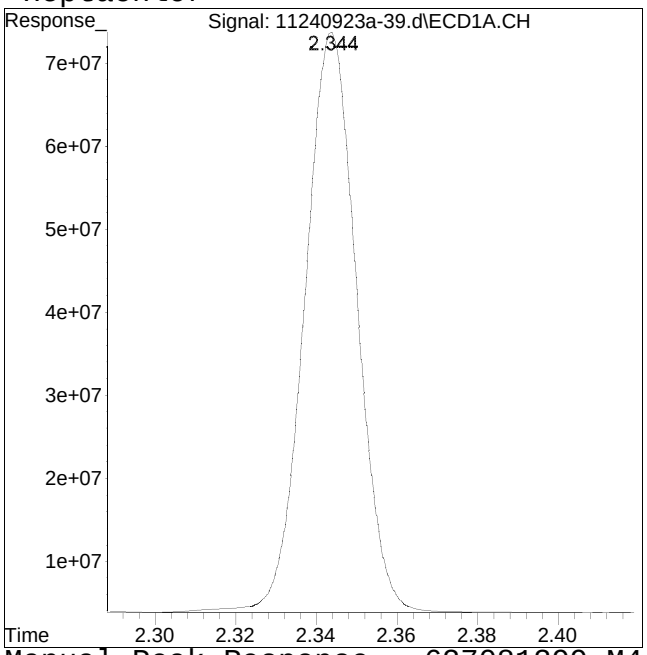
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #8: Heptachlor



Original Peak Response = 662643842

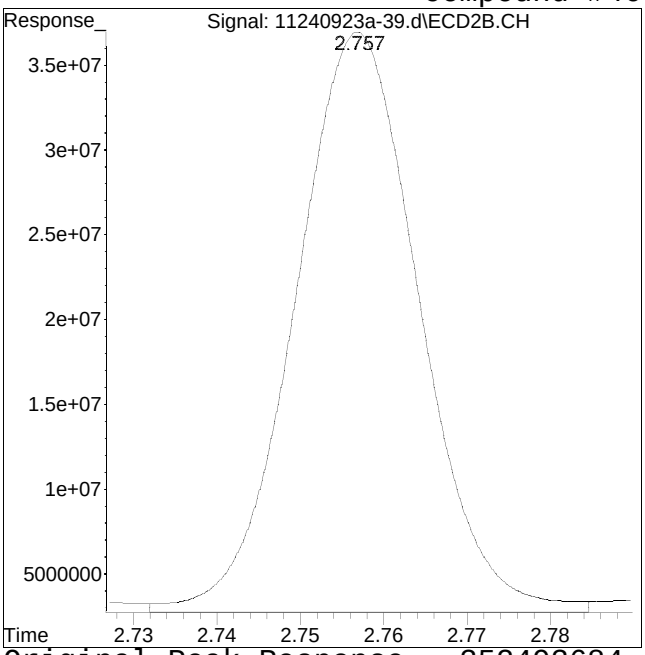


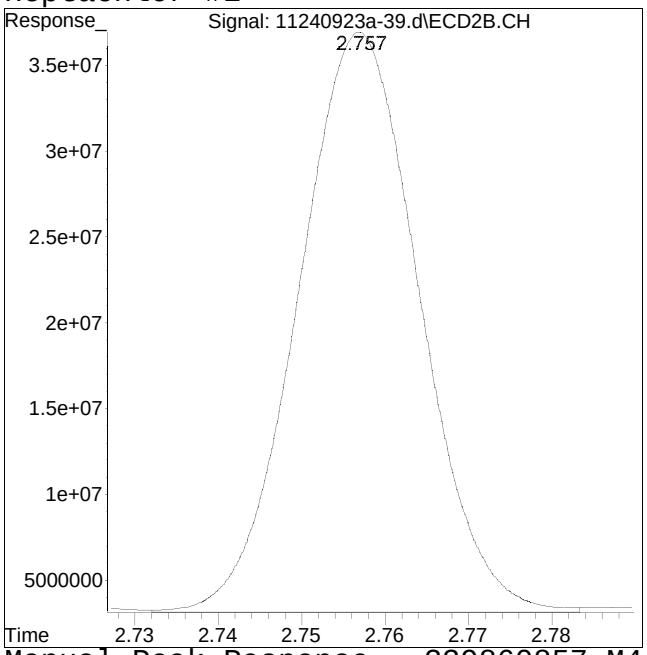
Manual Peak Response = 627081399 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #46: Heptachlor #2



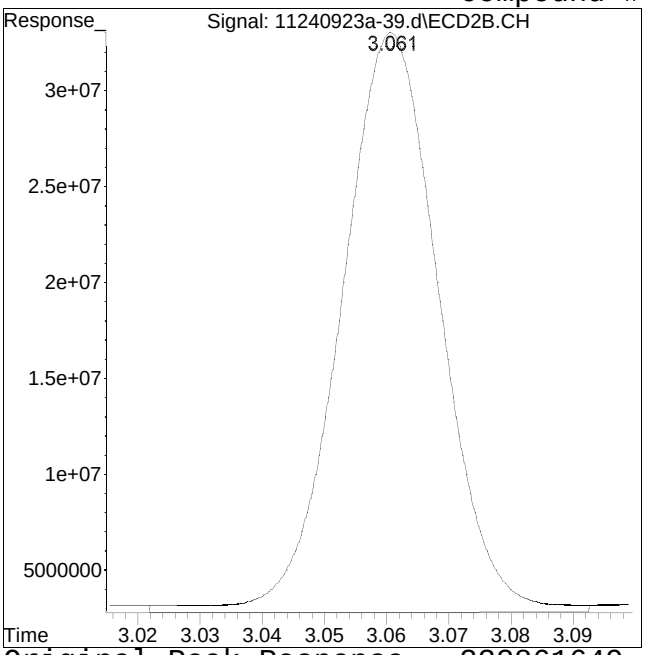


Original Peak Response = 352493684 Manual Peak Response = 339860857 M4
M4 = Poor automated baseline construction.

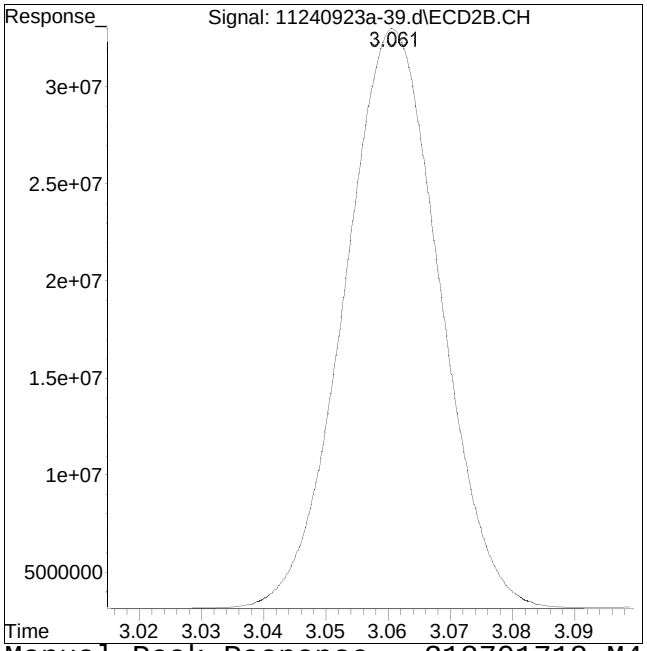
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #47: Aldrin #2



Original Peak Response = 332861649



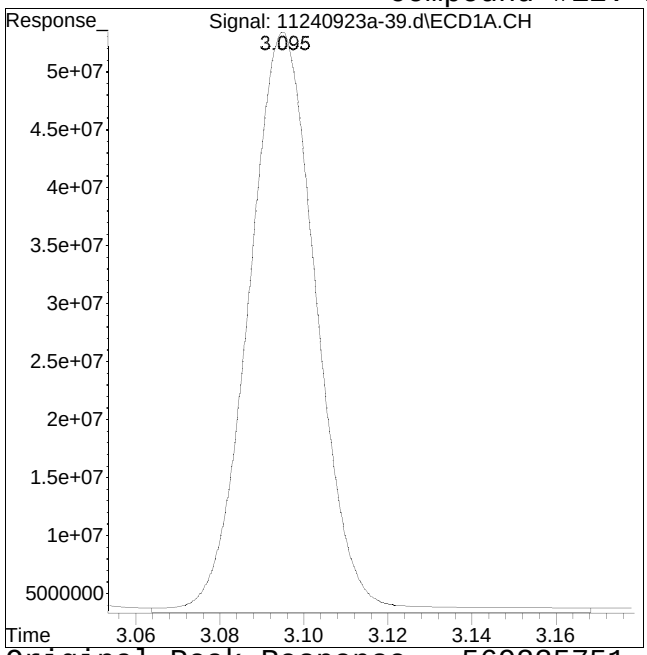
Manual Peak Response = 318701718 M4

M4 = Poor automated baseline construction.

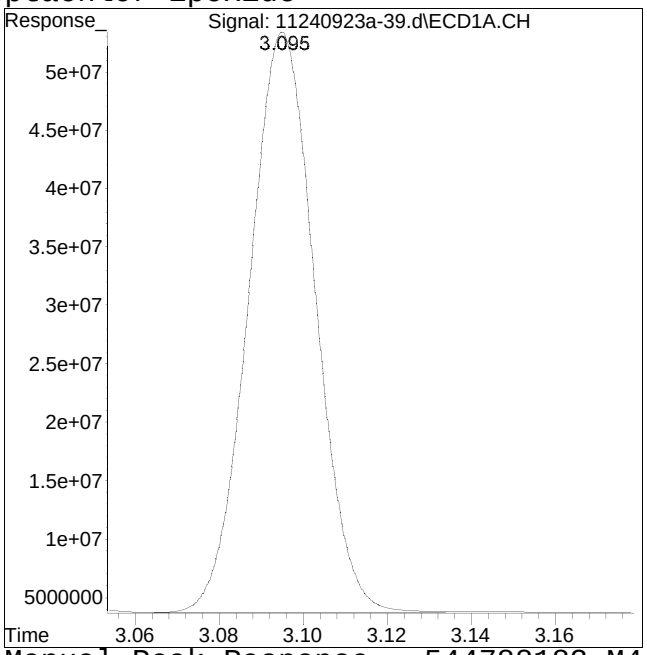
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 569235751



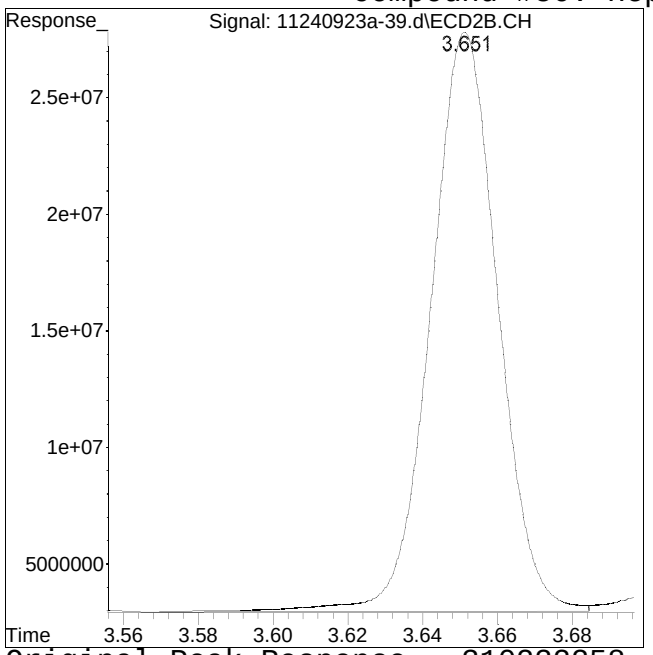
Manual Peak Response = 544788183 M4

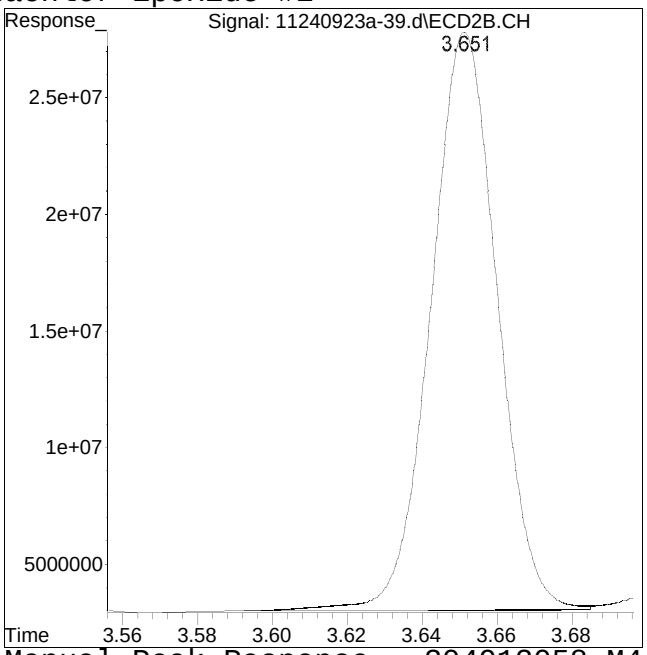
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #50: Heptachlor Epoxide #2



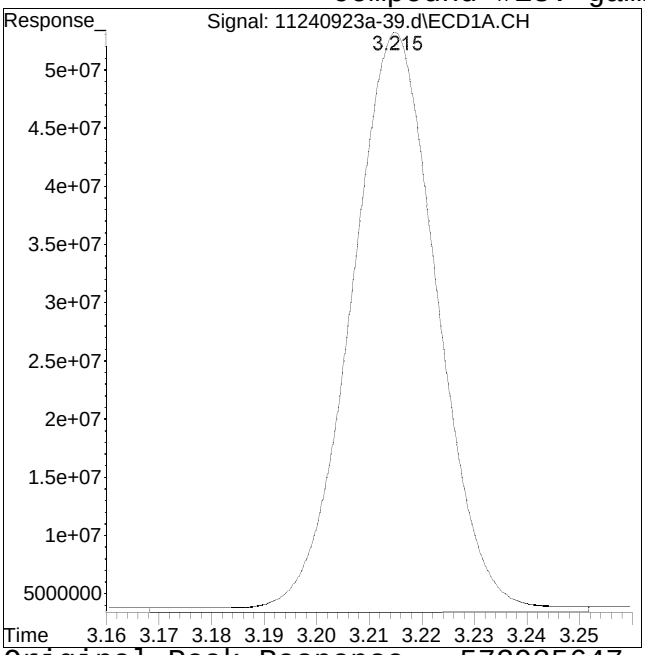


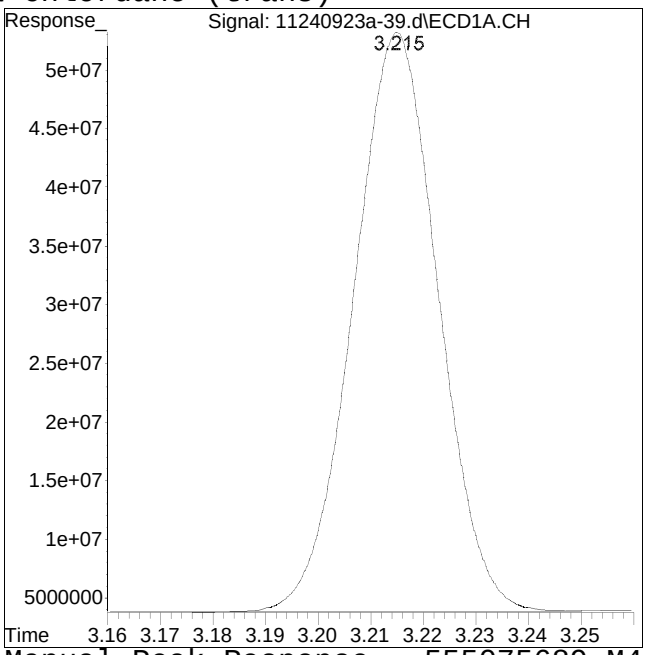
Original Peak Response = 310232258 Manual Peak Response = 304913058 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #13: gamma-Chlordane (trans)



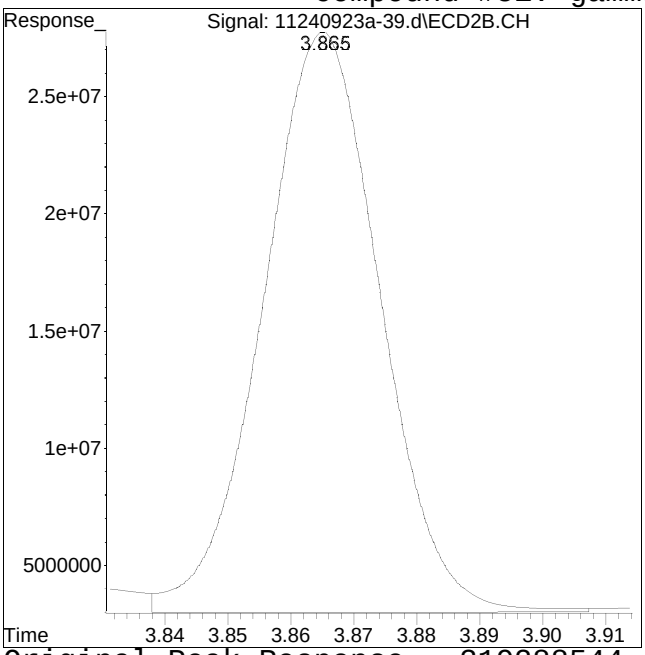


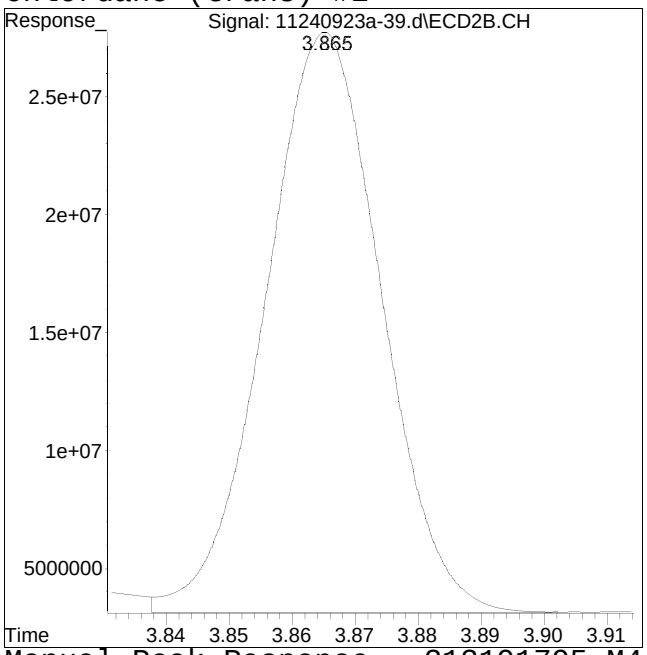
Original Peak Response = 573935647 Manual Peak Response = 555075689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #51: gamma-Chlordane (trans) #2



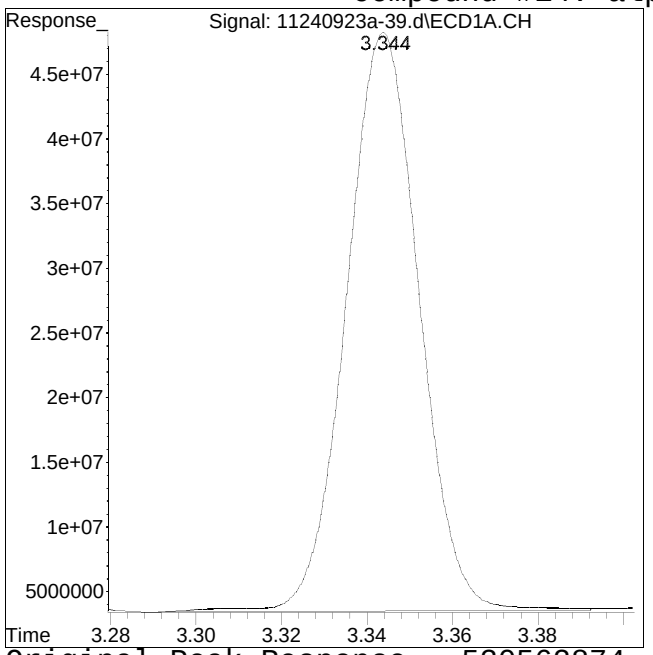


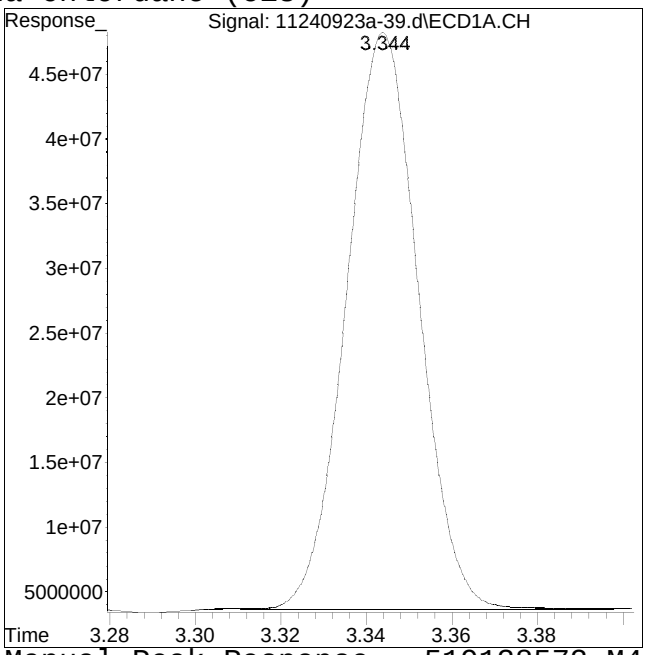
Original Peak Response = 319288544 Manual Peak Response = 313191795 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #14: alpha-Chlordane (cis)



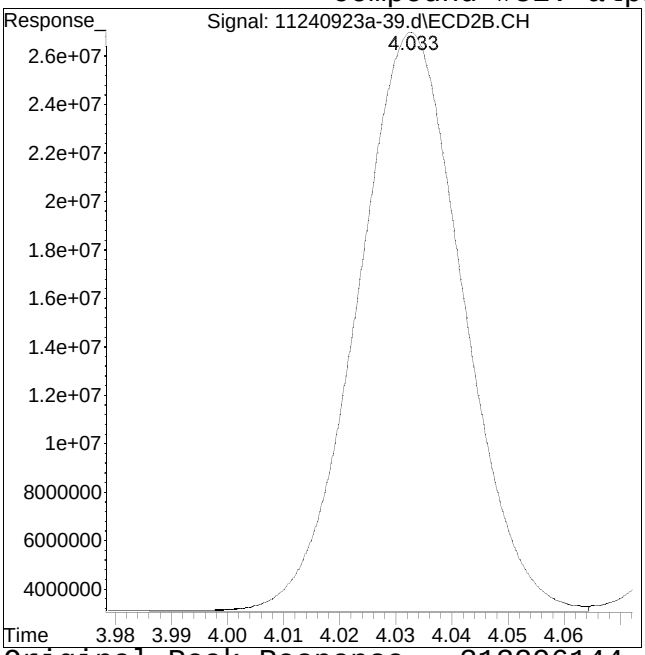


Original Peak Response = 530562874 Manual Peak Response = 519138572 M4
M4 = Poor automated baseline construction.

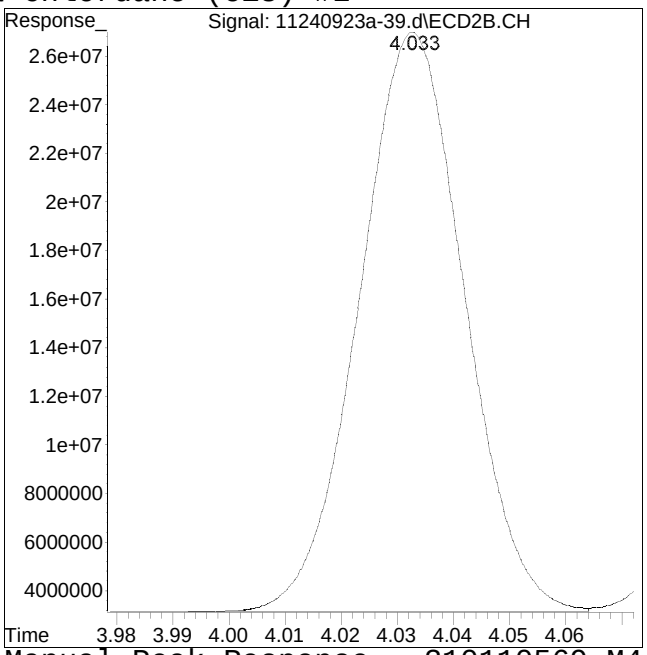
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 313296144



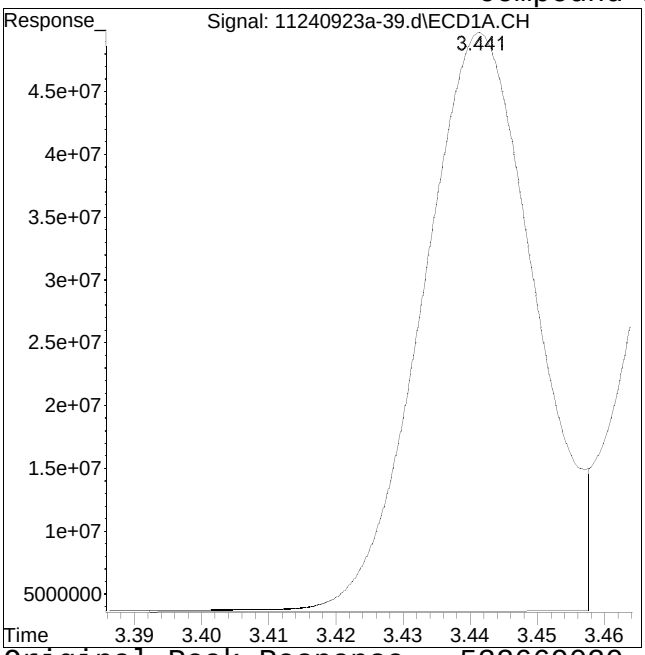
Manual Peak Response = 310110569 M4

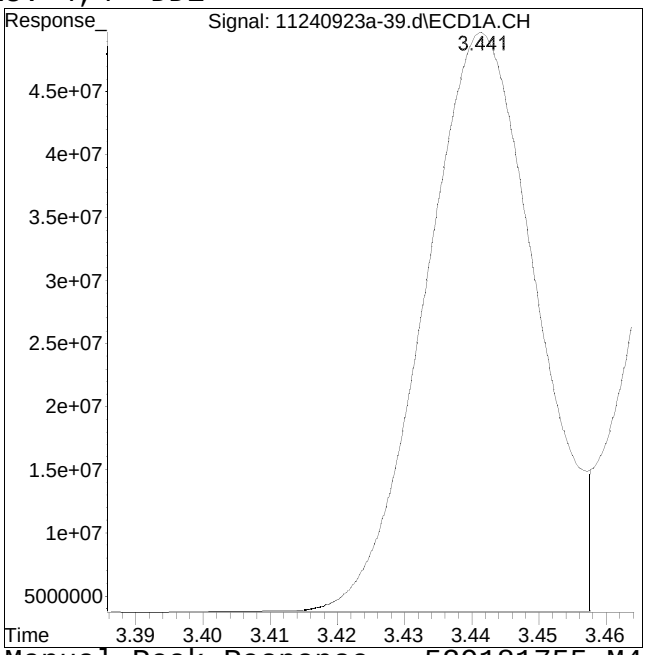
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #15: 4,4'-DDE



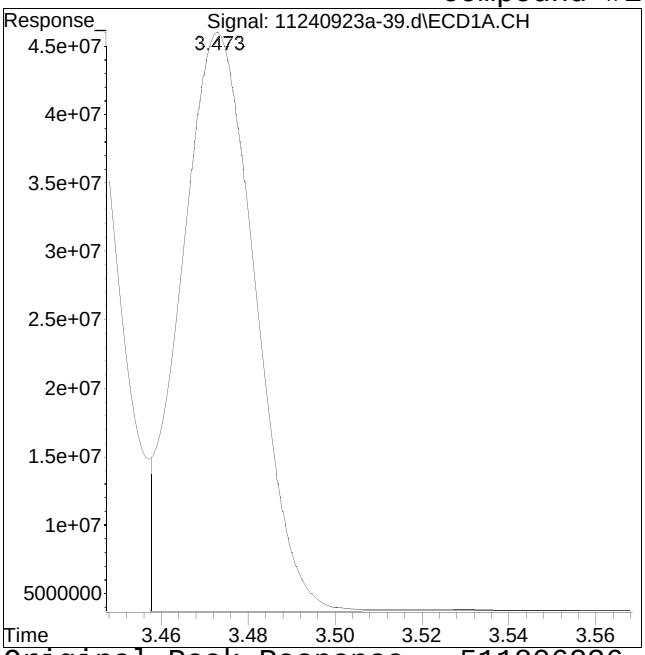


Original Peak Response = 532669020 Manual Peak Response = 529181755 M4
M4 = Poor automated baseline construction.

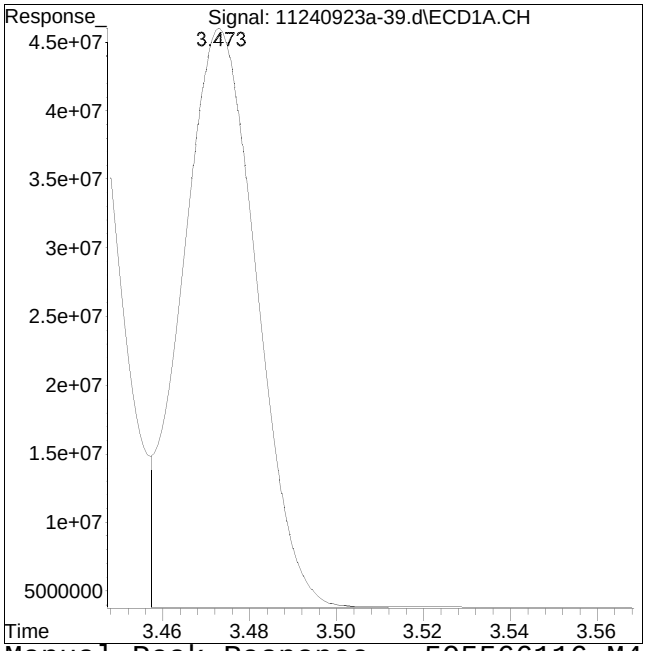
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #16: Endosulfan I



Original Peak Response = 511806236



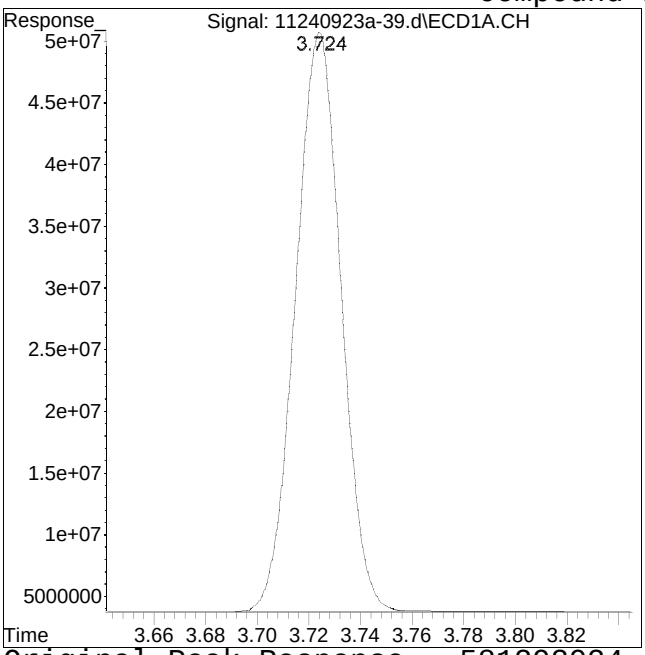
Manual Peak Response = 505566116 M4

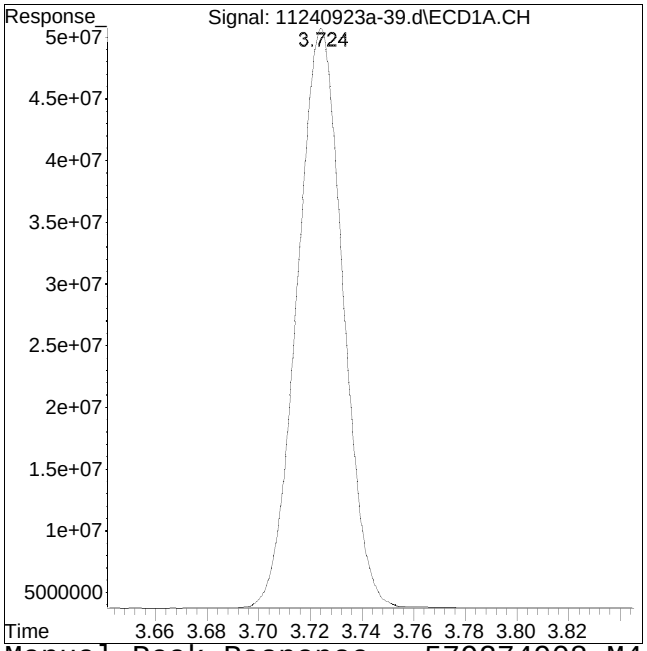
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #17: Dieldrin



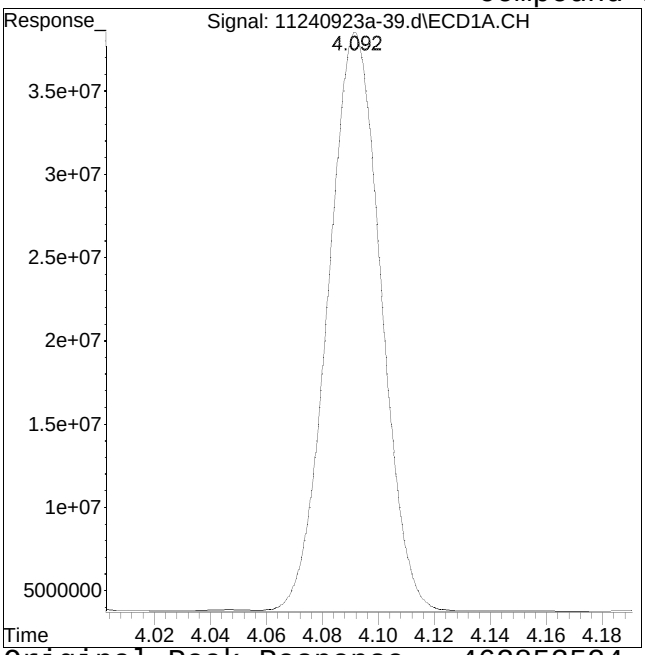


Original Peak Response = 581292924 Manual Peak Response = 579274908 M4
M4 = Poor automated baseline construction.

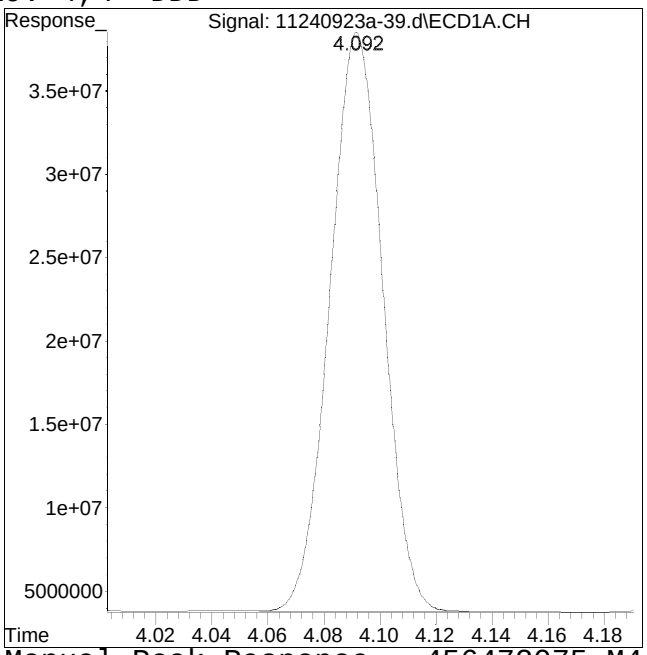
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #19: 4,4'-DDD



Original Peak Response = 462853524

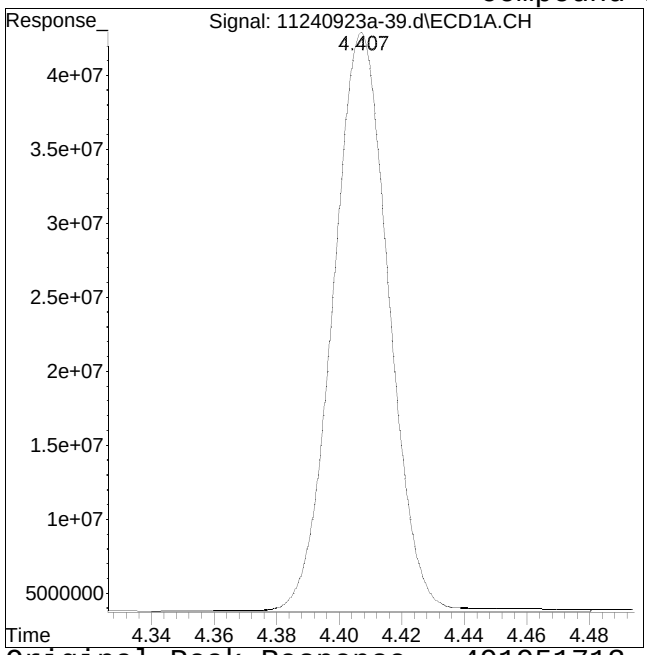


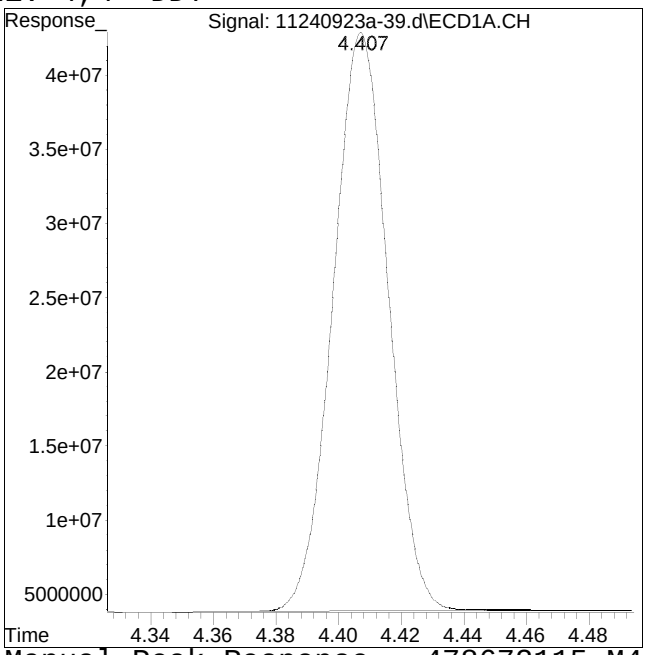
Manual Peak Response = 456472075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #21: 4,4'-DDT



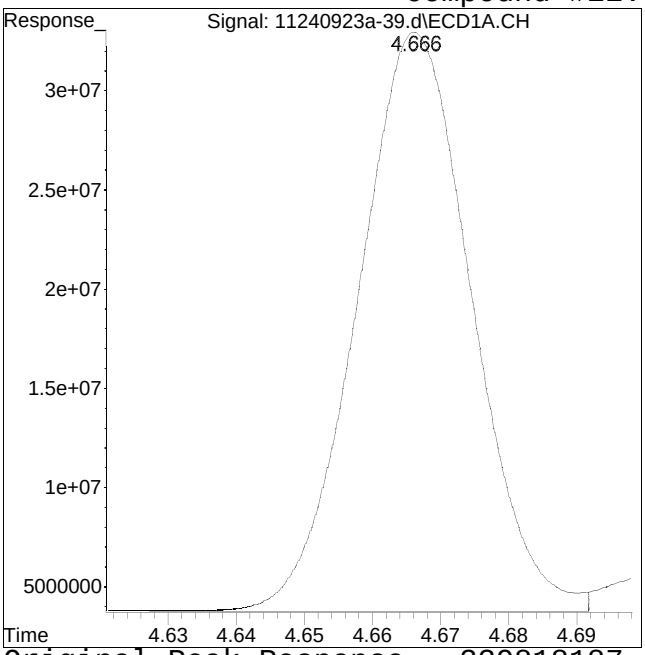


Original Peak Response = 491951713 Manual Peak Response = 478672115 M4
M4 = Poor automated baseline construction.

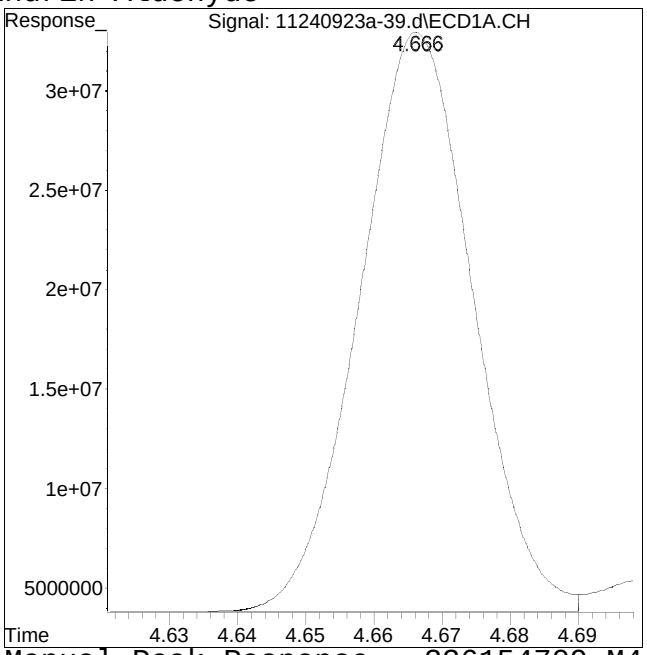
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 339818187

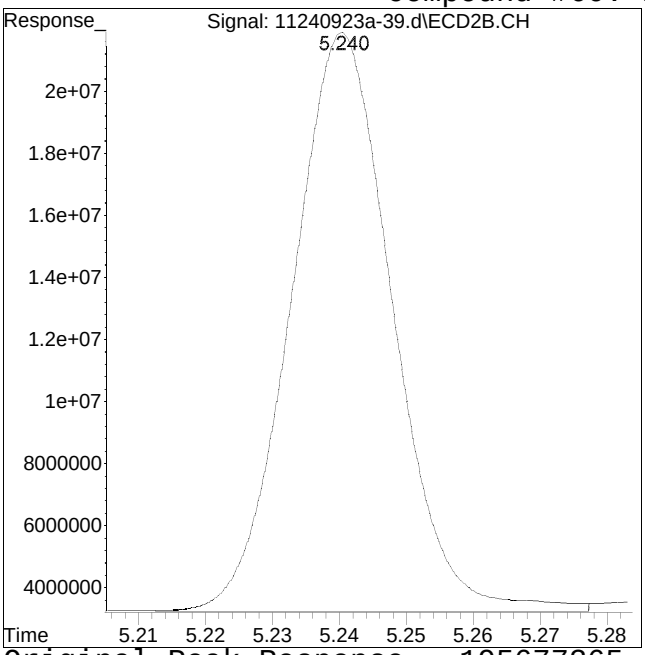


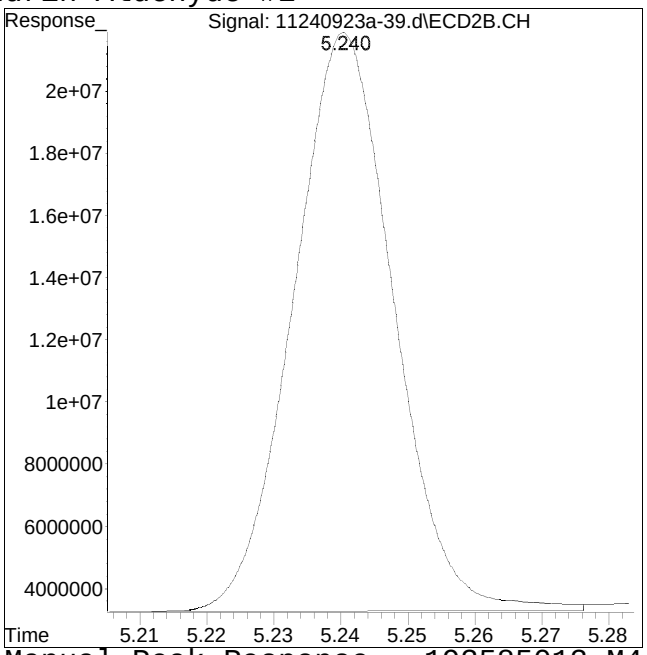
Manual Peak Response = 336154709 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #60: Endrin Aldehyde #2



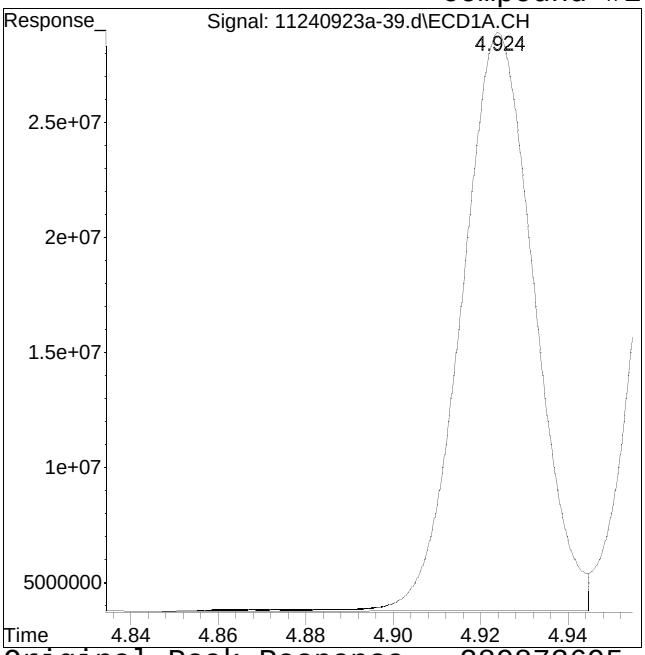


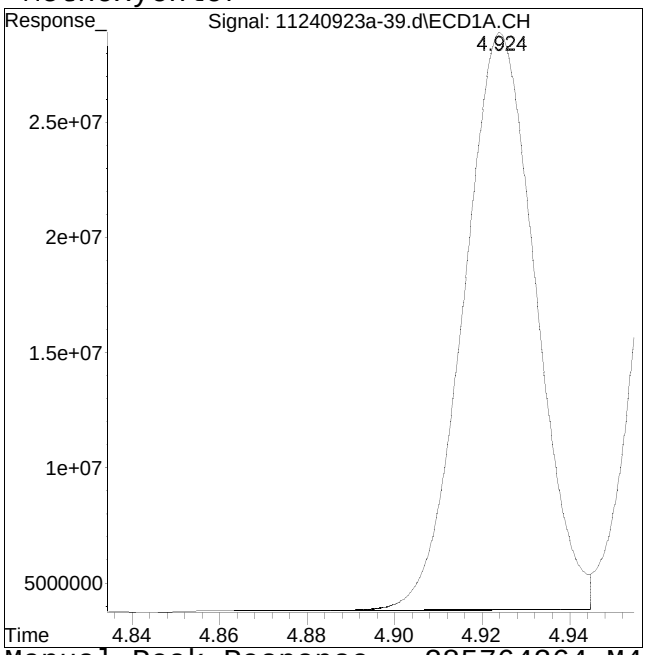
Original Peak Response = 195677365 Manual Peak Response = 193585013 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #23: Methoxychlor



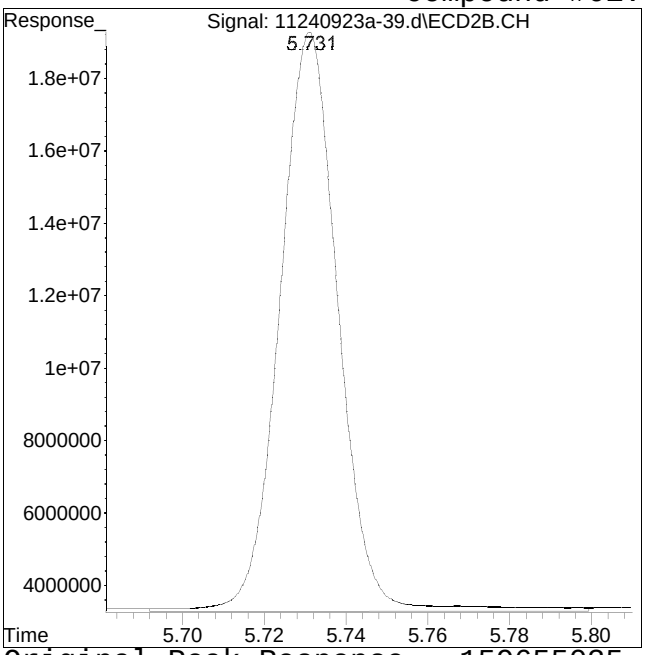


Original Peak Response = 289873695 Manual Peak Response = 285764364 M4
M4 = Poor automated baseline construction.

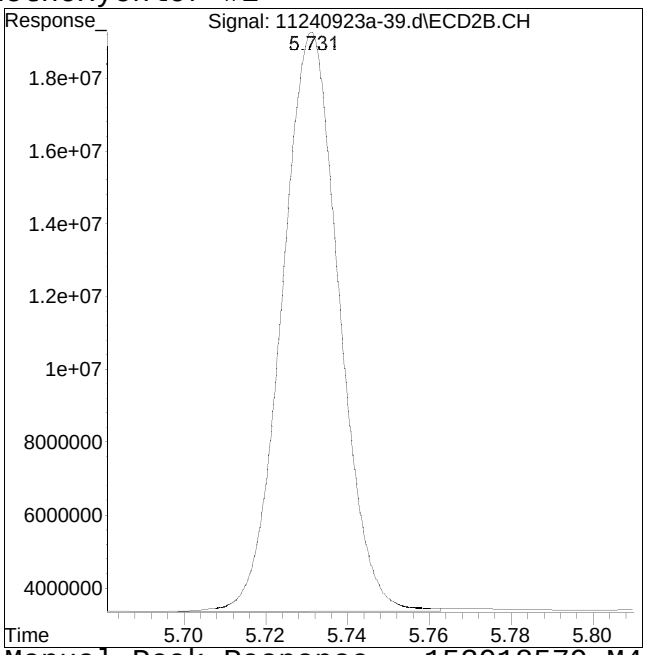
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #61: Methoxychlor #2



Original Peak Response = 159655035



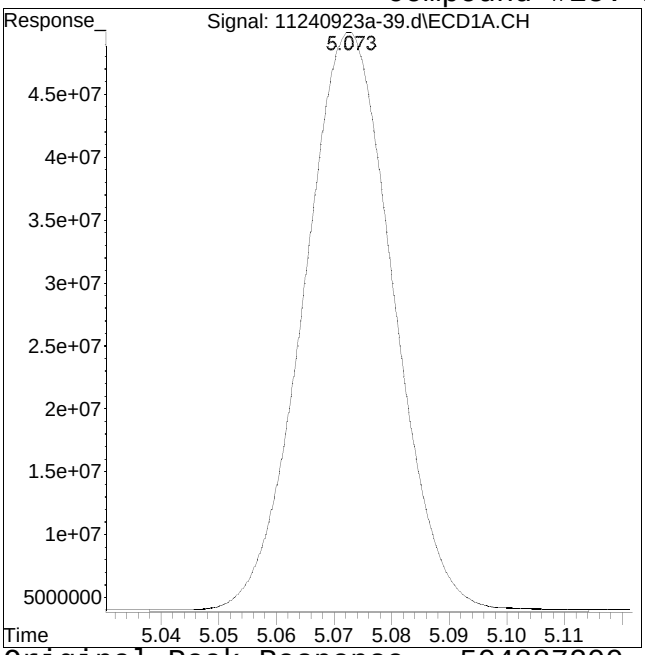
Manual Peak Response = 153918579 M4

M4 = Poor automated baseline construction.

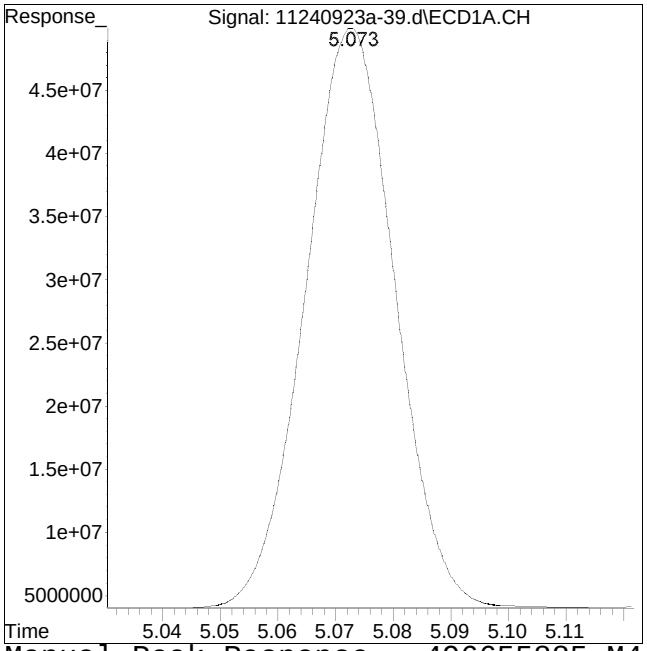
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 504887200



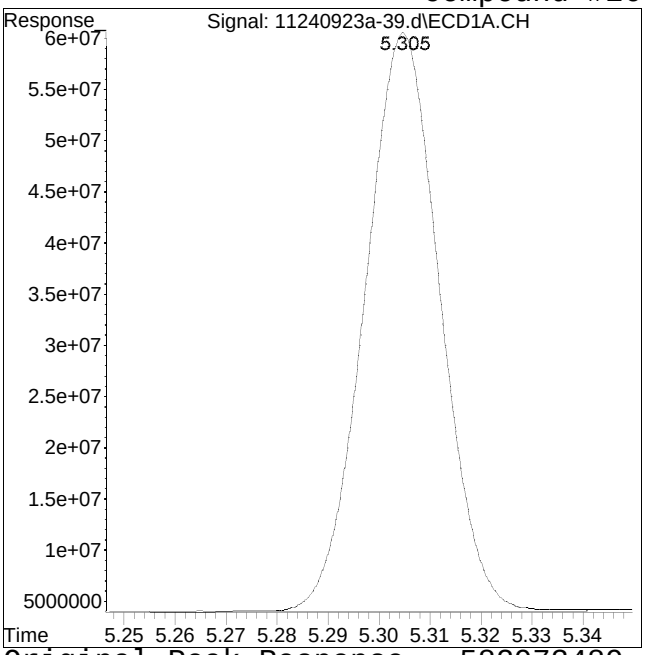
Manual Peak Response = 496655885 M4

M4 = Poor automated baseline construction.

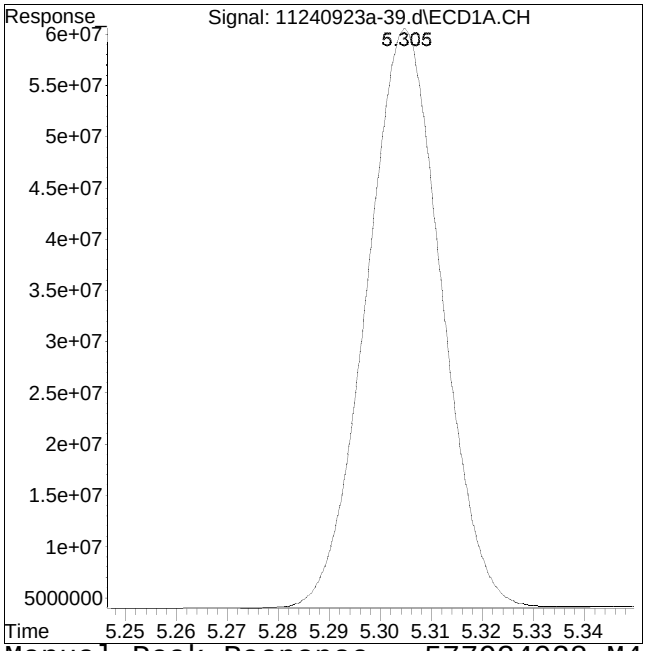
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #26: Endrin Ketone



Original Peak Response = 582973489



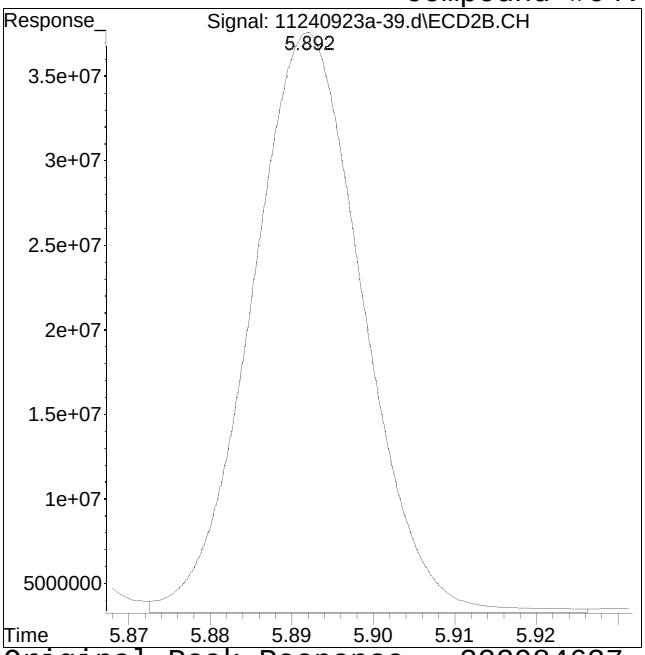
Manual Peak Response = 577934028 M4

M4 = Poor automated baseline construction.

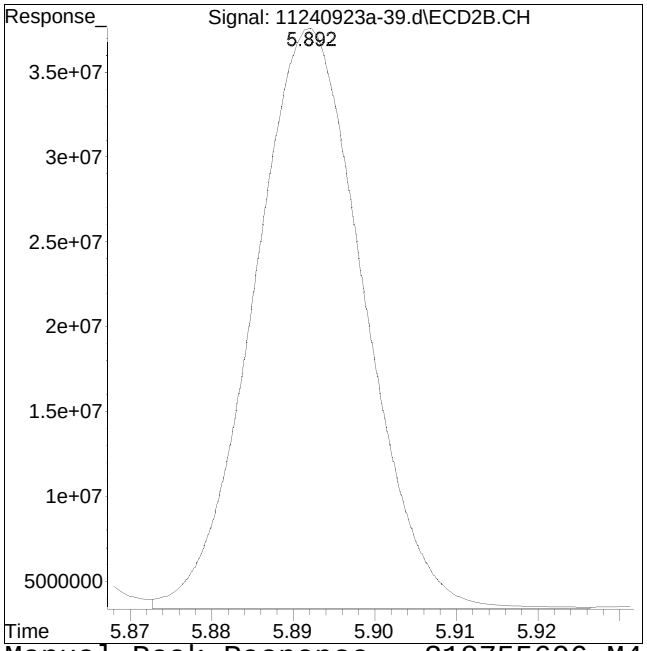
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 322984637

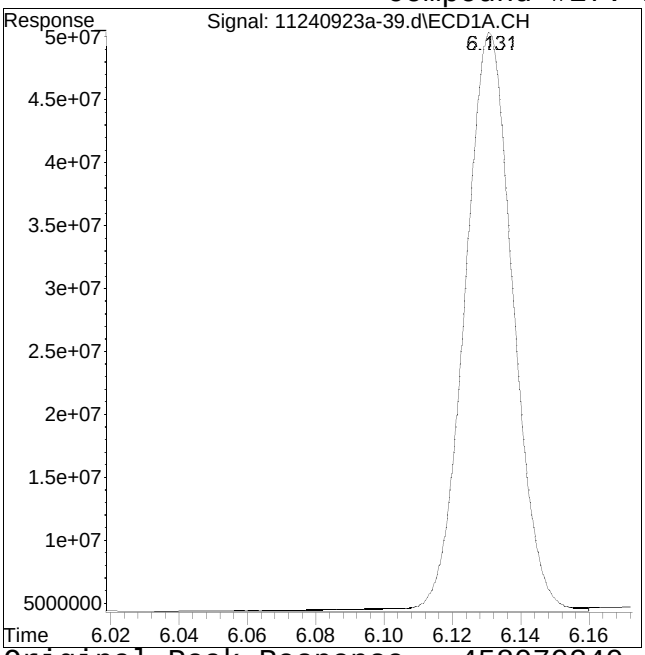


Manual Peak Response = 318755606 M4
M4 = Poor automated baseline construction.

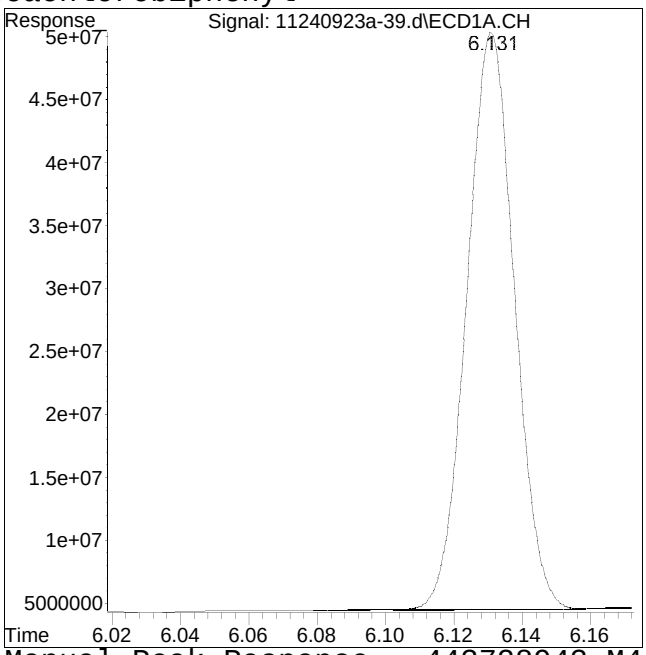
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 458079340



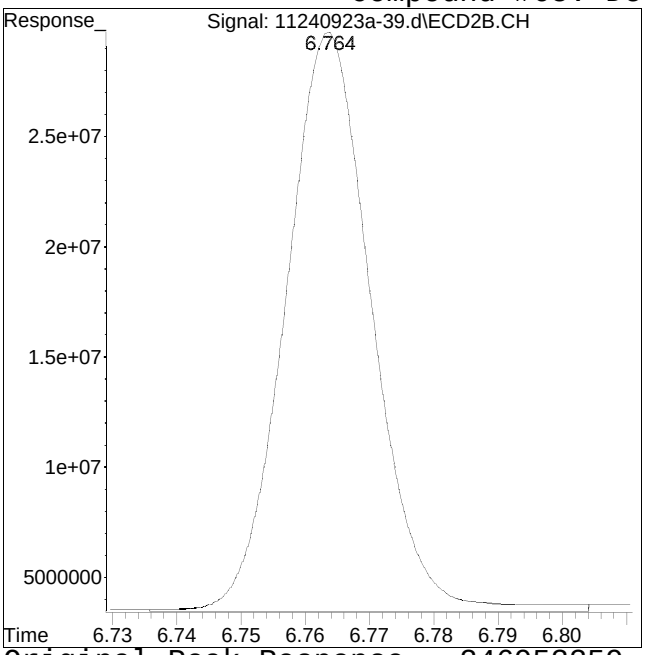
Manual Peak Response = 443728943 M4

M4 = Poor automated baseline construction.

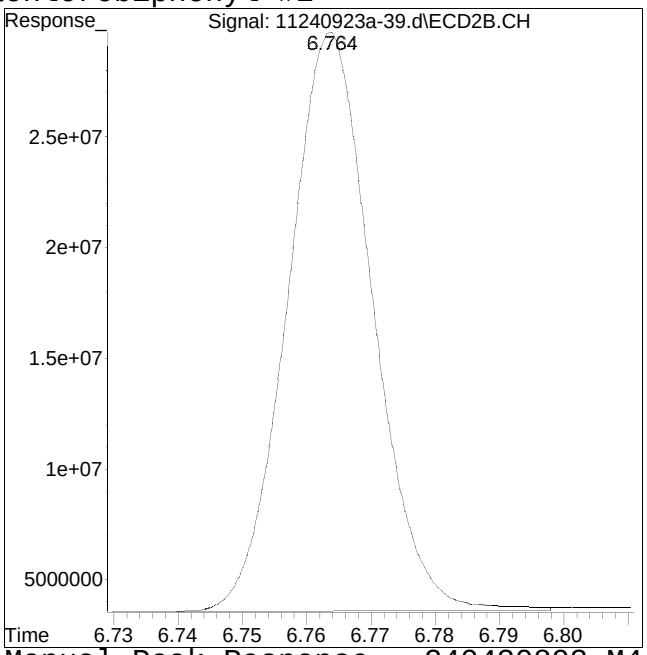
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240923QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240923a-39.d Operator : PEST11:akm
Date Inj'd : 9/23/2024 14:44 Instrument : Pest 11
Sample : WG1974839-3,42,, Quant Date : 9/23/2024 5:33 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 246953359



Manual Peak Response = 240430893 M4

M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: PEST_11
Date: **08/01/24**
Run: ical

Method
GC: pest

Seq: WG1955254
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240801i-01	blank,42e,,pp 11660 -				
2	11240801i-02	pem-01,42e,,pp 11667 -				EJL 8/2
3	11240801i-03	il1pest,42e,,pp 11687 L0.0005				EJL 8/2
4	11240801i-04	il2pest,42e,,pp 11686 L0.001				EJL 8/2
5	11240801i-05	il3pest,42e,,pp 11685 L0.002				EJL 8/2
6	11240801i-06	il4pest,42e,,pp 11684 L0.003				EJL 8/2
7	11240801i-07	il5pest,42e,,pp 11683 L0.004				EJL 8/2
8	11240801i-08	il7pest,42e,,pp 11682 L0.01				EJL 8/2
9	11240801i-09	il8pest,42e,,pp 11681 L0.05				EJL 8/2
10	11240801i-10	il9pest,42e,,pp 11680 L0.1				EJL 8/2
11	11240801i-11	il10pest,42e,,pp 11679 L0.2				EJL 8/2
12	11240801i-12	il11pest,42e,,pp 11678 L0.4				EJL 8/2
13	11240801i-13	cicvpest,42e,,pp 11675 L0.05ICV				EJL 8/2
14	11240801i-14	il3chlor,42e,,pp 11694 L0.01				EJL 8/2
15	11240801i-15	il4chlor,42e,,pp 11693 L0.02				EJL 8/2
16	11240801i-16	il5chlor,42e,,pp 11692 L0.1				EJL 8/2
17	11240801i-17	il7chlor,42e,,pp 11691 L0.5				EJL 8/2
18	11240801i-18	il8chlor,42e,,pp 11690 L1.0				EJL 8/2
19	11240801i-19	il9chlor,42e,,pp 11689 L2.0				EJL 8/2
20	11240801i-20	il10chlor,42e,,pp 11688 L5.0				EJL 8/2
21	11240801i-21	cicvchlor,42e,,pp 11670 L1.0ICV				EJL 8/2
22	11240801i-22	il3tox,42e,,pp 11703 L0.02				EJL 8/2
23	11240801i-23	il4tox,42e,,pp 11702 L0.1				EJL 8/2
24	11240801i-24	il7tox,42e,,pp 11701 L1.0				EJL 8/2
25	11240801i-25	il8tox,42e,,pp 11700 L2.0				EJL 8/2
26	11240801i-26	il9tox,42e,,pp 11695 L5.0				EJL 8/2
27	11240801i-27	cicvtox,42e,,pp 11668 L2.0ICV			EJL	EJL 8/2

Dep.: PEST
Inst: PEST_18
Date: **08/15/24**
Run: ical

Method
GC: pest

Seq: WG1961557
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	18240815i-01	blank,42e,,pp 11660 -				
2	18240815i-02	pem-01,42e,,pp 11667 -				PEG 8/16
3	18240815i-03	il1pest,42e,,pp 11687 L0.0005				PEG 8/16
4	18240815i-04	il2pest,42e,,pp 11686 L0.001				PEG 8/16
5	18240815i-05	il3pest,42e,,pp 11685 L0.002				PEG 8/16
6	18240815i-06	il4pest,42e,,pp 11684 L0.003				PEG 8/16
7	18240815i-07	il5pest,42e,,pp 11683 L0.004				PEG 8/16
8	18240815i-08	il7pest,42e,,pp 11682 L0.01				PEG 8/16
9	18240815i-09	il8pest,42e,,pp 11681 L0.05				PEG 8/16
10	18240815i-10	il9pest,42e,,pp 11680 L0.1				PEG 8/16
11	18240815i-11	il10pest,42e,,pp 11679 L0.2				PEG 8/16
12	18240815i-12	il11pest,42e,,pp 11678 L0.4				PEG 8/16
13	18240815i-13	cicvpest,42e,,pp 11675 L0.05ICV				PEG 8/16
14	18240815i-14	il3chlor,42e,,pp 11694 L0.01				PEG 8/16
15	18240815i-15	il4chlor,42e,,pp 11693 L0.02				PEG 8/16
16	18240815i-16	il5chlor,42e,,pp 11692 L0.1				PEG 8/16
17	18240815i-17	il7chlor,42e,,pp 11691 L0.5				PEG 8/16
18	18240815i-18	il8chlor,42e,,pp 11690 L1.0				PEG 8/16
19	18240815i-19	il9chlor,42e,,pp 11689 L2.0				PEG 8/16
20	18240815i-20	il10chlor,42e,,pp 11688 L5.0	not used			PEG 8/16
21	18240815i-21	cicvchlor,42e,,pp 11670 L1.0ICV				PEG 8/16
22	18240815i-22	il3tox,42e,,pp 11703 L0.02				PEG 8/16
23	18240815i-23	il4tox,42e,,pp 11702 L0.1				PEG 8/16
24	18240815i-24	il7tox,42e,,pp 11701 L1.0				PEG 8/16
25	18240815i-25	il8tox,42e,,pp 11700 L2.0				PEG 8/16
26	18240815i-26	il9tox,42e,,pp 11695 L5.0				PEG 8/16
27	18240815i-27	cicvtox,42e,,pp 11668 L2.0ICV				PEG 8/16

Dep.: PEST
Inst: PEST_11
Date: **09/23/24**
Run: a

Method
GC: pest

Seq: wg1974956
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240923a-01	blank				
2	11240923a-02	deg11573 7:05				rmp 9/23
3	11240923a-03	pest11675				rmp 9/23
4	11240923a-04	chlor11670				rmp 9/23
5	11240923a-05	tox11668				rmp 9/23
6	11240923a-06	blank				
7	11240923a-07	WG1974665-1,42,,				rmp 9/23
8	11240923a-08	WG1974665-2,42,,				rmp 9/23
9	11240923a-09	WG1974665-3,42,,				rmp 9/23
10	11240923a-10	L2453051-01,42,,				rmp 9/23
11	11240923a-11	L2453051-02,42,,	5x matrix			
12	11240923a-12	L2453583-05d,42,50,,R3C tox		rmp		rmp 9/23
13	11240923a-13	L2453887-01,42,,,R3C				PEG 9/24
14	11240923a-14	L2453989-09,42,,,R1C				PEG 9/24
15	11240923a-15	L2453124-05,42,,				PEG 9/25
16	11240923a-16	L2453108-05,42,, p				PEG 9/25
17	11240923a-17	WG1974665-4,42,, ms				PEG 9/25
18	11240923a-18	WG1974665-5,42,, dup				PEG 9/25
19	11240923a-19	WG1974662-1,42,, 608				PEG 9/25
20	11240923a-20	WG1974662-2,42,, 608				PEG 9/25
21	11240923a-21	L2453063-01,42,, 608				PEG 9/25
22	11240923a-22	L2453016-02,42,,,R4G 608				PEG 9/25
23	11240923a-23	L2453108-05,42,, 608 p				PEG 9/25
24	11240923a-24	WG1974662-3,42,, 608 ms				PEG 9/25
25	11240923a-25	WG1974662-4,42,, 608 msd				PEG 9/25
26	11240923a-26	WG1974745-1,42,, t	t 20-sep-24 07:35			PEG 9/24
27	11240923a-27	WG1974745-2,42,, t	t 20-sep-24 07:35			PEG 9/24
28	11240923a-28	WG1974745-3,42,, t	t 20-sep-24 07:35			PEG 9/24
29	11240923a-29	L2453195-01,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
30	11240923a-30	L2453195-02,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
31	11240923a-31	L2453204-01,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
32	11240923a-32	L2453204-02,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
33	11240923a-33	L2453204-03,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
34	11240923a-34	L2453209-01,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
35	11240923a-35	L2453209-03,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
36	11240923a-36	L2453209-02,42,,,R3E t	t 20-sep-24 07:35			PEG 9/24
37	11240923a-37	WG1974839-1,42,,	n94			AKM 9/25
38	11240923a-38	WG1974839-2,42,,				AKM 9/25
39	11240923a-39	WG1974839-3,42,,				AKM 9/25
40	11240923a-40	L2453335-05,42,,				AKM 9/25
41	11240923a-41	L2453335-06,42,,			peg	AKM 9/25
42	11240923a-42	pest11675 a: g-chlor, dieldrin, ddd high, b: hept, heptE, ddt, methoxy lo			peg	PEG 9/24
43	11240923a-43	WG1974874-1,42,, t	t 18-sep-24 07:40			PEG 9/24
44	11240923a-44	WG1974874-2,42,, t	t 18-sep-24 07:40			PEG 9/24
45	11240923a-45	WG1974874-3,42,, t	t 18-sep-24 07:40			PEG 9/24

Dep.: PEST
Inst: PEST_11
Date: **09/23/24**
Run: a

Method
GC: pest

Seq: wg1974956
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	11240923a-46	L2453070-06,42,, t	t 18-sep-24 07:40			PEG 9/24
47	11240923a-47	WG1974674-1,42,, t	t 18-sep-24 23:10			PEG 9/24
48	11240923a-48	WG1974674-2,42,, t	t 18-sep-24 23:10			PEG 9/24
49	11240923a-49	WG1974674-3,42,, t	t 18-sep-24 23:10			PEG 9/24
50	11240923a-50	L2453167-02,42,, t	t 18-sep-24 23:10			PEG 9/24
51	11240923a-51	L2453309-01,42,, t	t 18-sep-24 23:10			PEG 9/24
52	11240923a-52	L2453404-01,42,, t	t 18-sep-24 23:10			PEG 9/24
53	11240923a-53	L2453404-04,42,, t	t 18-sep-24 23:10			PEG 9/24
54	11240923a-54	L2453404-07,42,, t	t 18-sep-24 23:10			PEG 9/24
55	11240923a-55	L2453404-10,42,, t	t 18-sep-24 23:10			PEG 9/24
56	11240923a-56	L2453404-13,42,, t	t 18-sep-24 23:10			PEG 9/24
57	11240923a-57	L2453404-19,42,, t	t 18-sep-24 23:10			PEG 9/24
58	11240923a-58	L2453404-22,42,, t	t 18-sep-24 23:10			PEG 9/24
59	11240923a-59	L2453404-25,42,, t	t 18-sep-24 23:10			PEG 9/24
60	11240923a-60	L2453422-01,42,, t	t 18-sep-24 23:10			PEG 9/24
61	11240923a-61	L2453422-03,42,, t	rr past deg			
62	11240923a-62	L2453422-05,42,, t				
63	11240923a-63	L2453422-07,42,, t				
64	11240923a-64	L2453422-09,42,, t				
65	11240923a-65	L2453422-11,42,, t				
66	11240923a-66	L2453422-13,42,, t				
67	11240923a-67	L2453422-17,42,, t				
68	11240923a-68	L2453422-19,42,, t			ejl	

Dep.: PEST
Inst: PEST_18
Date: **09/24/24**
Run: c

Method
GC: pest

Seq: WG1975559
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	18240924c-01	blank				
2	18240924c-02	deg11573 9:52				AKM 9/24
3	18240924c-03	pest11675				AKM 9/24
4	18240924c-04	chlor11670 20%				AKM 9/24
5	18240924c-05	tox11668 b: 20%				AKM 9/24
6	18240924c-06	pest11675 b: hepta, g-chlor, dield, ddd high				AKM 9/24
7	18240924c-07	blank				
8	18240924c-08	L2453335-01,42,, rr		jag		AKM 9/25
9	18240924c-09	L2453335-02,42,, rr				AKM 9/25
10	18240924c-10	L2453335-03,42,, rr				AKM 9/25
11	18240924c-11	L2453335-04,42,, rr				AKM 9/25
12	18240924c-12	L2453342-01,42,,				AKM 9/25
13	18240924c-13	L2453342-02,42,,				AKM 9/25
14	18240924c-14	L2453342-03,42,,				AKM 9/25
15	18240924c-15	L2453342-04,42,,				AKM 9/25
16	18240924c-16	L2453342-05,42,,				AKM 9/25
17	18240924c-17	L2453342-06,42,,				AKM 9/25
18	18240924c-18	L2453342-07,42,,				AKM 9/25
19	18240924c-19	L2453342-08,42,,				AKM 9/25
20	18240924c-20	L2453342-10,42,,				AKM 9/25
21	18240924c-21	L2453397-01,42,,				AKM 9/25
22	18240924c-22	L2453108-07,42,, p				
23	18240924c-23	WG1974942-4,42,, ms				
24	18240924c-24	WG1974942-5,42,, dup				
25	18240924c-25	L2453680-05d,42,5,,R1B IS			akm	jag 9/24
26	18240924c-26	L2453051-02d,42,5, m				jag 9/24
27	18240924c-27	L2453422-03,42,, t	t 18-sep-24 23:10			AKM 9/25
28	18240924c-28	L2453422-05,42,, t	t 18-sep-24 23:10			AKM 9/25
29	18240924c-29	L2453422-07,42,, t	t 18-sep-24 23:10			AKM 9/25
30	18240924c-30	pest11675 a: ala high, end alde low b: 20%				jag 9/24
31	18240924c-31	L2453422-09,42,, t	t 18-sep-24 23:10	jag		AKM 9/25
32	18240924c-32	L2453422-11,42,, t	t 18-sep-24 23:10			AKM 9/25
33	18240924c-33	L2453422-19,42,, t	t 18-sep-24 23:10			AKM 9/25
34	18240924c-34	L2453422-13,42,, t	t 18-sep-24 23:10			AKM 9/25
35	18240924c-35	L2453422-17,42,, t	t 18-sep-24 23:10		akm	AKM 9/25
36	18240924c-36	rvt day 2 blank				
37	18240924c-37	rvt day 2 blank 2				
38	18240924c-38	rvt day 2 blank 3				
39	18240924c-39	rvt day 2 lcs				
40	18240924c-40	rvt day 2 lcs 2	will need rrun			
41	18240924c-41	rvt day 2 lcs 3				
42	18240924c-42	rvt day 2 lcs 4				
43	18240924c-43	rvt day 2 lcs 5				
44	18240924c-44	rvt day 2 lcs 6				
45	18240924c-45	rvt day 2 lcs 7				

Dep.: PEST
Inst: PEST_18
Date: **09/24/24**
Run: c

Method
GC: pest

Seq: WG1975559
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	18240924c-46	rvt day 2 lcs 8				
47	18240924c-47	rvt day 2 lcs 9				
48	18240924c-48	rvt day 2 lcs 10			jag	
49	18240924c-49	L2453311-01,42,,	n161	jag		AKM 9/25
50	18240924c-50	L2453311-02,42,,				
51	18240924c-51	L2453311-03,42,,				
52	18240924c-52	L2453311-04,42,,				
53	18240924c-53	WG1974447-1,42,,				
54	18240924c-54	WG1974447-2,42,,				
55	18240924c-55	WG1974447-3,42,,				
56	18240924c-56	L2453730-01,42,,				
57	18240924c-57	L2453730-02,42,,				
58	18240924c-58	L2453730-03,42,,				
59	18240924c-59	L2453730-04,42,,				
60	18240924c-60	L2453730-05,42,,				
61	18240924c-61	L2453730-06,42,,				
62	18240924c-62	L2453730-07,42,,	inj @ 21:39		jag	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 11:52 am

Work Group: WG1974839 for Department: 2 Organic Preparation

Created: 22-SEP-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453335-05	HRP-MW3-091724	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453335-06	HRP-MW1-091724	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-01	MP-1	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-02	MP-1D	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-03	MW-13D	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-04	MW-13S	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-05	MW-10D	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-06	MW-10S	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-07	MW-6D	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-08	PZ-6	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453342-10	EQUIPMENT BLANK	S	NYTCL-8081	WATER	DONE	U	0924	0924	S0	Amber-A.120
L2453397-01	MAHWAH RO-TYPE II	S	NYTCL-8081	WATER	DONE	U	0924	0924	NC	Amber-A.120
WG1974839-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1974839-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1974839-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1974839-3 WG1974839-2

ORGANIC ELN REPORT

Workgroup: WG1974839

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: Pesticide/PCB
Spike Type: Pesticide
Spike Verify by: LJO
Lims Spikelot: PEST_LVI

Lot #: EJ049
Lot #: PP11735AZ,02/06/2025
Lot #: PP11617AS,12/17/2024

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2453335-05 SAMP	09/22/24 16:05	Luke O'Donnell	140	>5, <9	.25		09/22/24 21:45	Paolo Roffo	1	C / A / #1
L2453335-06 SAMP	09/22/24 16:05	Luke O'Donnell	140	>5, <9	.25		09/22/24 21:45	Paolo Roffo	1	C / A / #1
L2453342-01 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-02 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-03 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-04 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3

Reported: 25-SEP-24 11:52 AM

ORGANIC ELN REPORT

Workgroup: WG1974839

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2453342-05 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-06 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-07 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-08 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453342-10 SAMP	09/23/24 04:22	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
L2453397-01 SAMP	09/23/24 00:26	Amanda Patterson	140	>5, <9	.25		09/23/24 08:56	Tian-Long Chheou	1	H, K, 3
WG1974839-1 BLANK	09/22/24 16:05	Luke O'Donnell	140	>5, <9	.25		09/22/24 21:45 **KD cracked, water in extract**	Paolo Roffo	1	C / A / #1
WG1974839-2 LCS	09/22/24 16:05	Luke O'Donnell	140	>5, <9	.25	.25	09/22/24 21:45	Paolo Roffo	1	C / A / #1

ORGANIC ELN REPORT

Workgroup: WG1974839

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1974839-3 LCSD	09/22/24 16:05	Luke O'Donnell	140	>5, <9	.25	.25	09/22/24 21:45	Paolo Roffo	1	C / A / #1

Reported: 25-SEP-24 11:52 AM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1973830-1	**Date Collected**	: NA
Client ID	: WG1973830-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/20/24 13:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1973931.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1973830-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/20/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1973931.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	18.4	0.500	0.175	
7439-95-4	Magnesium, Total	3.28	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0189	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	21.6	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0227	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.05	0.100	0.0153	
7439-96-5	Manganese, Total	0.0017	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.86	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	12.5	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	1.12	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0192	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	17.9	0.100	0.0350	
7440-47-3	Chromium, Total	0.0024	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0024	0.0100	0.0022	J
7439-89-6	Iron, Total	1.53	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	8.86	0.100	0.0153	
7439-96-5	Manganese, Total	0.0145	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.53	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	13.4	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	0.0053	0.0100	0.0020	J
7440-66-6	Zinc, Total	0.0040	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0244	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	10.7	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0486	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.86	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.06	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	13.5	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0022	0.0050	0.0019	J
7440-39-3	Barium, Total	0.0972	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	101.	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0300	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	15.2	0.100	0.0153	
7439-96-5	Manganese, Total	0.0016	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	3.02	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	4.28	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0055	0.0100	0.0021	J
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	19.8	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.125	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.54	0.100	0.0153	
7439-96-5	Manganese, Total	0.0370	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.791	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	5.93	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0203	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	3.85	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0031	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0176	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	1.43	0.100	0.0153	
7439-96-5	Manganese, Total	0.0020	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.905	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	1.54	2.00	0.120	J
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0110	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	11.8	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0445	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.61	0.100	0.0153	
7439-96-5	Manganese, Total	0.0114	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.06	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	15.2	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0468	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	62.7	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0023	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0341	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	11.0	0.100	0.0153	
7439-96-5	Manganese, Total	0.0837	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	4.71	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.93	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:07
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975268-1	**Date Collected**	: NA
Client ID	: WG1975268-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 12:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0027	0.0050	0.0019	J
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975268-4	**Date Collected**	: 09/16/24 14:00
Client ID	: WG1975268-4 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/24/24 13:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-43-9	Cadmium, Total	ND	0.0050	0.001	U
7440-47-3	Chromium, Total	0.0041	0.0100	0.002	J
7440-50-8	Copper, Total	0.0063	0.0100	0.002	J
7439-92-1	Lead, Total	ND	0.0100	0.003	U
7440-02-0	Nickel, Total	0.221	0.0250	0.002	
7440-22-4	Silver, Total	ND	0.0070	0.003	U
7440-66-6	Zinc, Total	0.0189	0.0050	0.002	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1973830-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/24/24 13:33
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	19.7	0.500	0.175	
7439-95-4	Magnesium, Total	2.50	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0198	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	19.6	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0026	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.27	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.72	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	11.5	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0127	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	16.7	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	0.0218	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	8.93	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0025	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.27	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	12.6	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0220	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	9.60	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.89	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.929	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	12.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0863	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	93.1	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	15.6	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	2.83	2.50	0.237	
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	3.99	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0021	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0045	0.0100	0.0021	J
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	17.2	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	0.0625	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.49	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0331	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.714	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	5.38	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0196	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	3.82	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	1.54	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.890	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	1.54	2.00	0.120	J
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0095	0.0100	0.0021	J
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	10.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.57	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0095	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.972	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	13.7	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0417	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	57.3	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0028	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	11.2	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0729	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	4.28	2.50	0.237	
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.15	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:12
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	0.0444	0.100	0.0350	J
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975196-1	**Date Collected**	: NA
Client ID	: WG1975196-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 12:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975196-4	**Date Collected**	: 09/17/24 12:00
Client ID	: WG1975196-4 DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/24/24 12:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1975466.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	8.30	0.100	0.035	
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.002	U
7439-95-4	Magnesium, Dissolved	5.12	0.100	0.015	
7440-09-7	Potassium, Dissolved	69.9	2.50	0.237	
7440-23-5	Sodium, Dissolved	134.	2.00	0.120	
7440-62-2	Vanadium, Dissolved	0.0062	0.0100	0.002	J

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1878315-1									
Date Analyzed :	09/19/24 17:52									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100							
Antimony	0.500	0.5150	103							
Arsenic	0.500	0.4960	99							
Barium	0.500	0.4930	99							
Beryllium	0.500	0.5010	100							
Cadmium	0.500	0.5050	101							
Calcium	0.500	0.4990	100							
Chromium	0.500	0.4910	98							
Cobalt	0.500	0.5140	103							
Copper	0.500	0.4830	97							
Iron	0.500	0.4920	98							
Lead	0.500	0.5180	104							
Magnesium	0.500	0.5070	101							
Manganese	0.500	0.4930	99							
Nickel	0.500	0.5110	102							
Potassium	5.00	5.1800	104							
Selenium	0.500	0.5140	103							
Silver	0.500	0.5120	102							
Sodium	10.0	9.7600	98							
Thallium	0.500	0.5270	105							
Vanadium	0.500	0.4870	97							
Zinc	0.500	0.5140	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1878315-3			R1878315-6			R1878315-8		R1878315-10	
Date Analyzed:	09/19/24 18:04			09/20/24 10:28			09/20/24 11:37		09/20/24 12:49	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.6320	126	0.5000	0.506	101	0.507	101	0.500	100
Antimony	0.500	0.5160	103	0.5000	0.509	102	0.509	102	0.510	102
Arsenic	0.500	0.4950	99	0.5000	0.503	101	0.498	100	0.493	99
Barium	0.500	0.4980	100	0.5000	0.494	99	0.497	99	0.494	99
Beryllium	0.500	0.5080	102	0.5000	0.510	102	0.508	102	0.498	100
Cadmium	0.500	0.5000	100	0.5000	0.518	104	0.511	102	0.492	98
Calcium	0.500	0.5130	103	0.5000	0.511	102	0.512	102	0.497	99
Chromium	0.500	0.4910	98	0.5000	0.513	103	0.506	101	0.490	98
Cobalt	0.500	0.5150	103	0.5000	0.518	104	0.515	103	0.505	101
Copper	0.500	0.4890	98	0.5000	0.483	97	0.482	96	0.484	97
Iron	0.500	0.5060	101	0.5000	0.507	101	0.505	101	0.526	105
Lead	0.500	0.5160	103	0.5000	0.522	104	0.518	104	0.508	102
Magnesium	0.500	0.5040	101	0.5000	0.518	104	0.510	102	0.502	100
Manganese	0.500	0.4970	99	0.5000	0.502	100	0.499	100	0.485	97
Nickel	0.500	0.5120	102	0.5000	0.519	104	0.514	103	0.503	101
Potassium	5.00	5.1900	104	5.0000	5.20	104	5.16	103	5.17	103
Selenium	0.500	0.5050	101	0.5000	0.514	103	0.512	102	0.511	102
Silver	0.500	0.5060	101	0.5000	0.515	103	0.511	102	0.507	101
Sodium	10.0	9.9600	100	10.0000	9.85	98	9.81	98	9.86	99
Thallium	0.500	0.5260	105	0.5000	0.526	105	0.522	104	0.520	104
Vanadium	0.500	0.4890	98	0.5000	0.504	101	0.500	100	0.488	98
Zinc	0.500	0.5070	101	0.5000	0.530	106	0.522	104	0.527	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1878315-12						
Date Analyzed :				09/20/24 14:07						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.502	100				
Antimony				0.5000	0.517	103				
Arsenic				0.5000	0.504	101				
Barium				0.5000	0.492	98				
Beryllium				0.5000	0.502	100				
Cadmium				0.5000	0.505	101				
Calcium				0.5000	0.498	100				
Chromium				0.5000	0.495	99				
Cobalt				0.5000	0.515	103				
Copper				0.5000	0.487	97				
Iron				0.5000	0.529	106				
Lead				0.5000	0.522	104				
Magnesium				0.5000	0.502	100				
Manganese				0.5000	0.491	98				
Nickel				0.5000	0.518	104				
Potassium				5.0000	5.26	105				
Selenium				0.5000	0.523	105				
Silver				0.5000	0.509	102				
Sodium				10.0000	9.88	99				
Thallium				0.5000	0.531	106				
Vanadium				0.5000	0.490	98				
Zinc				0.5000	0.536	107				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879488-1			R1879488-4			R1879488-6		R1879488-8	
Date Analyzed :	09/24/24 06:17			09/24/24 07:41			09/24/24 08:49		09/24/24 09:40	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4870	97	0.5000	0.490	98	0.477	95	0.474	95
Antimony	0.500	0.5150	103	0.5000	0.510	102	0.508	102	0.502	100
Arsenic	0.500	0.4890	98	0.5000	0.486	97	0.485	97	0.479	96
Barium	0.500	0.5050	101	0.5000	0.500	100	0.497	99	0.488	98
Beryllium	0.500	0.5150	103	0.5000	0.514	103	0.508	102	0.500	100
Cadmium	0.500	0.5100	102	0.5000	0.505	101	0.498	100	0.487	97
Calcium	0.500	0.5000	100	0.5000	0.499	100	0.491	98	0.479	96
Chromium	0.500	0.4970	99	0.5000	0.491	98	0.488	98	0.479	96
Cobalt	0.500	0.5180	104	0.5000	0.517	103	0.509	102	0.501	100
Copper	0.500	0.4990	100	0.5000	0.495	99	0.489	98	0.485	97
Iron	0.500	0.5130	103	0.5000	0.515	103	0.504	101	0.497	99
Lead	0.500	0.5080	102	0.5000	0.503	101	0.499	100	0.490	98
Magnesium	0.500	0.5000	100	0.5000	0.491	98	0.489	98	0.479	96
Manganese	0.500	0.4970	99	0.5000	0.492	98	0.488	98	0.480	96
Nickel	0.500	0.5150	103	0.5000	0.512	102	0.508	102	0.499	100
Potassium	5.00	5.2300	105	5.0000	5.20	104	5.12	102	5.07	101
Selenium	0.500	0.5040	101	0.5000	0.497	99	0.490	98	0.489	98
Silver	0.500	0.5180	104	0.5000	0.510	102	0.507	101	0.501	100
Sodium	10.0	10.1000	101	10.0000	10.0	100	9.94	99	9.75	98
Thallium	0.500	0.5080	102	0.5000	0.506	101	0.499	100	0.495	99
Vanadium	0.500	0.4950	99	0.5000	0.490	98	0.485	97	0.478	96
Zinc	0.500	0.5150	103	0.5000	0.511	102	0.506	101	0.498	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879488-10			R1879488-12		R1879488-14	
Date Analyzed:				09/24/24 10:39			09/24/24 11:30		09/24/24 12:18	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.470	94	0.477	95	0.469	94
Antimony				0.5000	0.501	100	0.506	101	0.492	98
Arsenic				0.5000	0.478	96	0.475	95	0.471	94
Barium				0.5000	0.492	98	0.486	97	0.485	97
Beryllium				0.5000	0.502	100	0.501	100	0.497	99
Cadmium				0.5000	0.486	97	0.493	99	0.487	97
Calcium				0.5000	0.481	96	0.482	96	0.478	96
Chromium				0.5000	0.480	96	0.481	96	0.478	96
Cobalt				0.5000	0.499	100	0.504	101	0.495	99
Copper				0.5000	0.483	97	0.486	97	0.478	96
Iron				0.5000	0.495	99	0.494	99	0.499	100
Lead				0.5000	0.491	98	0.488	98	0.487	97
Magnesium				0.5000	0.483	97	0.482	96	0.481	96
Manganese				0.5000	0.480	96	0.479	96	0.477	95
Nickel				0.5000	0.500	100	0.501	100	0.495	99
Potassium				5.0000	5.04	101	5.08	102	5.01	100
Selenium				0.5000	0.490	98	0.486	97	0.484	97
Silver				0.5000	0.501	100	0.502	100	0.497	99
Sodium				10.0000	9.84	98	9.76	98	9.72	97
Thallium				0.5000	0.494	99	0.490	98	0.488	98
Vanadium				0.5000	0.478	96	0.478	96	0.472	94
Zinc				0.5000	0.498	100	0.498	100	0.493	99

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879488-16			R1879488-18		R1879488-20	
Date Analyzed :				09/24/24 13:08			09/24/24 13:57		09/24/24 14:35	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.472	94	0.475	95	0.477	95
Antimony				0.5000	0.496	99	0.494	99	0.495	99
Arsenic				0.5000	0.472	94	0.477	95	0.476	95
Barium				0.5000	0.483	97	0.488	98	0.485	97
Beryllium				0.5000	0.497	99	0.499	100	0.498	100
Cadmium				0.5000	0.484	97	0.488	98	0.489	98
Calcium				0.5000	0.476	95	0.478	96	0.481	96
Chromium				0.5000	0.476	95	0.476	95	0.479	96
Cobalt				0.5000	0.496	99	0.497	99	0.501	100
Copper				0.5000	0.481	96	0.479	96	0.484	97
Iron				0.5000	0.496	99	0.492	98	0.491	98
Lead				0.5000	0.488	98	0.487	97	0.489	98
Magnesium				0.5000	0.479	96	0.476	95	0.484	97
Manganese				0.5000	0.475	95	0.477	95	0.476	95
Nickel				0.5000	0.496	99	0.494	99	0.498	100
Potassium				5.0000	5.02	100	5.03	101	5.02	100
Selenium				0.5000	0.484	97	0.488	98	0.487	97
Silver				0.5000	0.499	100	0.498	100	0.501	100
Sodium				10.0000	9.73	97	9.79	98	9.76	98
Thallium				0.5000	0.488	98	0.488	98	0.492	98
Vanadium				0.5000	0.474	95	0.474	95	0.475	95
Zinc				0.5000	0.492	98	0.493	99	0.495	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879667-1									
Date Analyzed :	09/24/24 09:24									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4900	98							
Antimony	0.500	0.5040	101							
Arsenic	0.500	0.4900	98							
Barium	0.500	0.4740	95							
Beryllium	0.500	0.4850	97							
Cadmium	0.500	0.5000	100							
Calcium	0.500	0.4840	97							
Chromium	0.500	0.5050	101							
Cobalt	0.500	0.5110	102							
Copper	0.500	0.5000	100							
Iron	0.500	0.4950	99							
Lead	0.500	0.5070	101							
Magnesium	0.500	0.5060	101							
Manganese	0.500	0.4800	96							
Nickel	0.500	0.5080	102							
Potassium	5.00	5.0400	101							
Selenium	0.500	0.4940	99							
Silver	0.500	0.5140	103							
Sodium	10.0	9.7600	98							
Thallium	0.500	0.5070	101							
Vanadium	0.500	0.4970	99							
Zinc	0.500	0.5050	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879667-3			R1879667-6			R1879667-8		R1879667-10	
Date Analyzed:	09/24/24 09:37			09/24/24 11:31			09/24/24 11:45		09/24/24 13:05	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5010	100	0.5000	0.498	100	0.478	96	0.508	102
Antimony	0.500	0.5280	106	0.5000	0.534	107	0.506	101	0.516	103
Arsenic	0.500	0.5140	103	0.5000	0.518	104	0.493	99	0.500	100
Barium	0.500	0.4940	99	0.5000	0.484	97	0.476	95	0.507	101
Beryllium	0.500	0.5010	100	0.5000	0.496	99	0.490	98	0.520	104
Cadmium	0.500	0.5250	105	0.5000	0.526	105	0.499	100	0.504	101
Calcium	0.500	0.4980	100	0.5000	0.489	98	0.483	97	0.518	104
Chromium	0.500	0.5290	106	0.5000	0.537	107	0.502	100	0.520	104
Cobalt	0.500	0.5370	107	0.5000	0.537	107	0.510	102	0.516	103
Copper	0.500	0.5220	104	0.5000	0.527	105	0.497	99	0.506	101
Iron	0.500	0.5170	103	0.5000	0.513	103	0.493	99	0.525	105
Lead	0.500	0.5300	106	0.5000	0.534	107	0.506	101	0.511	102
Magnesium	0.500	0.5260	105	0.5000	0.538	108	0.500	100	0.513	103
Manganese	0.500	0.4980	100	0.5000	0.492	98	0.487	97	0.518	104
Nickel	0.500	0.5320	106	0.5000	0.536	107	0.508	102	0.512	102
Potassium	5.00	5.2200	104	5.0000	5.12	102	5.09	102	5.41	108
Selenium	0.500	0.5150	103	0.5000	0.520	104	0.495	99	0.501	100
Silver	0.500	0.5360	107	0.5000	0.546	109	0.510	102	0.525	105
Sodium	10.0	10.2000	102	10.0000	10.0	100	9.87	99	10.5	105
Thallium	0.500	0.5350	107	0.5000	0.535	107	0.507	101	0.511	102
Vanadium	0.500	0.5190	104	0.5000	0.526	105	0.495	99	0.504	101
Zinc	0.500	0.5300	106	0.5000	0.533	107	0.505	101	0.510	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879667-12			R1879667-14			
Date Analyzed :				09/24/24 13:17			09/24/24 14:18			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.492	98	0.512	102		
Antimony				0.5000	0.536	107	0.536	107		
Arsenic				0.5000	0.522	104	0.520	104		
Barium				0.5000	0.492	98	0.499	100		
Beryllium				0.5000	0.502	100	0.510	102		
Cadmium				0.5000	0.527	105	0.526	105		
Calcium				0.5000	0.497	99	0.506	101		
Chromium				0.5000	0.538	108	0.536	107		
Cobalt				0.5000	0.539	108	0.538	108		
Copper				0.5000	0.527	105	0.521	104		
Iron				0.5000	0.519	104	0.528	106		
Lead				0.5000	0.533	107	0.534	107		
Magnesium				0.5000	0.535	107	0.528	106		
Manganese				0.5000	0.498	100	0.507	101		
Nickel				0.5000	0.536	107	0.534	107		
Potassium				5.0000	5.19	104	5.31	106		
Selenium				0.5000	0.520	104	0.521	104		
Silver				0.5000	0.546	109	0.543	109		
Sodium				10.0000	10.2	102	10.4	104		
Thallium				0.5000	0.536	107	0.535	107		
Vanadium				0.5000	0.525	105	0.518	104		
Zinc				0.5000	0.533	107	0.532	106		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1879667-1									
Date Analyzed	:	09/24/24 09:24									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5040	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1879667-3			R1879667-6			R1879667-8		R1879667-10	
Date Analyzed	:	09/24/24 09:37			09/24/24 11:31			09/24/24 11:45		09/24/24 13:05	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5280	106	0.5000	0.534	107	0.506	101	0.516	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879667-12			R1879667-14		R1879667-16	
Date Analyzed :				09/24/24 13:17			09/24/24 14:18		09/24/24 15:33	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.536	107	0.536	107	0.00160	0

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879667-18			R1879667-20			
Date Analyzed :				09/24/24 15:51			09/24/24 16:36			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.500	100	0.509	102		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1878315-2		R1878315-7		R1878315-9		R1878315-11		WG1973830-1	
Date Analyzed :	09/19/24 17:58		09/20/24 10:34		09/20/24 11:43		09/20/24 12:55		09/20/24 13:04	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1878315-4		R1878315-13							
Date Analyzed	:	09/19/24 18:10		09/20/24 14:13							
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum		0.0318	U	0.0318	U						
Antimony		0.00710	U	0.00710	U						
Arsenic		0.00190	U	0.00190	U						
Barium		0.00210	U	0.00210	U						
Beryllium		0.000900	U	0.000900	U						
Cadmium		0.00100	U	0.00100	U						
Calcium		0.0350	U	0.0350	U						
Chromium		0.00210	U	0.00210	U						
Cobalt		0.00170	U	0.00170	U						
Copper		0.00220	U	0.00220	U						
Iron		0.00900	U	0.00900	U						
Lead		0.00270	U	0.00270	U						
Magnesium		0.0153	U	0.0153	U						
Manganese		0.00160	U	0.00160	U						
Nickel		0.00240	U	0.00240	U						
Potassium		0.237	U	0.237	U						
Selenium		0.00350	U	0.00350	U						
Silver		0.00280	U	0.00280	U						
Sodium		0.120	U	0.120	U						
Thallium		0.00250	U	0.00250	U						
Vanadium		0.00200	U	0.00200	U						
Zinc		0.00210	U	0.00210	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879488-2		R1879488-5		R1879488-7		R1879488-9		WG1975268-1	
Date Analyzed :	09/24/24 06:21		09/24/24 07:45		09/24/24 08:53		09/24/24 09:44		09/24/24 12:29	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00230	J	0.00190	U	0.0027	J
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879488-11		R1879488-13		R1879488-15			
Date Analyzed :			09/24/24 10:43		09/24/24 11:34		09/24/24 12:22			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00355	J	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879488-17		R1879488-19		R1879488-21			
Date Analyzed :			09/24/24 13:12		09/24/24 14:01		09/24/24 14:39			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00210	J	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879667-2		R1879667-7		R1879667-9		R1879667-11		WG1975196-1	
Date Analyzed :	09/24/24 09:31		09/24/24 11:37		09/24/24 11:51		09/24/24 13:11		09/24/24 12:03	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879667-4		R1879667-13		R1879667-15					
Date Analyzed :	09/24/24 09:43		09/24/24 13:23		09/24/24 14:24					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U				
Antimony	0.00710	U	0.00710	U	0.00710	U				
Arsenic	0.00190	U	0.00190	U	0.00190	U				
Barium	0.00210	U	0.00210	U	0.00210	U				
Beryllium	0.000900	U	0.000900	U	0.000900	U				
Cadmium	0.00100	U	0.00100	U	0.00100	U				
Calcium	0.0350	U	0.0350	U	0.0350	U				
Chromium	0.00210	U	0.00210	U	0.00210	U				
Cobalt	0.00170	U	0.00170	U	0.00170	U				
Copper	0.00220	U	0.00220	U	0.00220	U				
Iron	0.00900	U	0.00900	U	0.00900	U				
Lead	0.00270	U	0.00270	U	0.00270	U				
Magnesium	0.0153	U	0.0153	U	0.0153	U				
Manganese	0.00160	U	0.00160	U	0.00160	U				
Nickel	0.00240	U	0.00240	U	0.00240	U				
Potassium	0.237	U	0.237	U	0.237	U				
Selenium	0.00350	U	0.00350	U	0.00350	U				
Silver	0.00280	U	0.00280	U	0.00280	U				
Sodium	0.120	U	0.120	U	0.120	U				
Thallium	0.00250	U	0.00250	U	0.00250	U				
Vanadium	0.00200	U	0.00200	U	0.00200	U				
Zinc	0.00210	U	0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879667-2		R1879667-7		R1879667-9		R1879667-11			
Date Analyzed :	09/24/24 09:31		09/24/24 11:37		09/24/24 11:51		09/24/24 13:11			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879667-4		R1879667-13		R1879667-15		R1879667-17			
Date Analyzed :	09/24/24 09:43		09/24/24 13:23		09/24/24 14:24		09/24/24 15:39			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :			R1879667-19		R1879667-21			
Date Analyzed :			09/24/24 15:57		09/24/24 16:42			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	Q
Antimony			0.00710	U	0.00710	U			

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1878315-5							
Analysis Date :			09/19/24 18:32							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		514.	103						
Antimony			-0.0126							
Arsenic			-0.0000672							
Barium			0.000490							
Beryllium			-0.000468							
Cadmium			0.0000741							
Calcium	500		558.	112						
Chromium			0.00137							
Cobalt			0.00109							
Copper			0.0000740							
Iron	200		183.	92						
Lead			0.00761							
Magnesium	500		471.	94						
Manganese			0.00172							
Nickel			0.00686							
Potassium			-0.0312							
Selenium			-0.00160							
Silver			0.000931							
Sodium			0.0244							
Thallium			-0.000366							
Vanadium			-0.00245							
Zinc			-0.00839							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1879488-3							
Analysis Date :			09/24/24 06:34							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		480.	96						
Antimony			-0.0108							
Arsenic			-0.00291							
Barium			0.00136							
Beryllium			0.0000592							
Cadmium			-0.000580							
Calcium	500		525.	105						
Chromium			-0.000716							
Cobalt			-0.000671							
Copper			0.000188							
Iron	200		174.	87						
Lead			-0.00390							
Magnesium	500		461.	92						
Manganese			-0.000454							
Nickel			-0.000343							
Potassium			-0.0137							
Selenium			-0.00534							
Silver			0.00249							
Sodium			0.0127							
Thallium			0.00169							
Vanadium			0.000907							
Zinc			-0.000820							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1879667-5							
Analysis Date :			09/24/24 10:06							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		484.	97						
Antimony			0.00675							
Arsenic			-0.00594							
Barium			0.00164							
Beryllium			-0.0000883							
Cadmium			0.00306							
Calcium	500		539.	108						
Chromium			-0.000716							
Cobalt			0.000217							
Copper			-0.00913							
Iron	200		180.	90						
Lead			-0.0145							
Magnesium	500		477.	95						
Manganese			0.000293							
Nickel			-0.00759							
Potassium			-0.0132							
Selenium			0.000738							
Silver			0.00284							
Sodium			0.0183							
Thallium			0.000312							
Vanadium			-0.000673							
Zinc			-0.00106							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1879667-5							
Analysis Date :			09/24/24 10:06							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			0.00675							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453053-01		
Matrix Spike	: WG1973830-3	**MS Analysis Date**	: 09/20/24 13:42
Matrix Spike Dup	: WG1973830-4	**MSD Analysis Date**	: 09/20/24 13:48

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.02	101	2	2.01	100	0	75-125	20
Antimony, Total	ND	0.5	0.517	103	0.5	0.515	103	0	75-125	20
Arsenic, Total	ND	0.12	0.123	102	0.12	0.122	102	1	75-125	20
Barium, Total	0.0222	2	2.01	99	2	2.02	100	0	75-125	20
Beryllium, Total	ND	0.05	0.0499	100	0.05	0.0497	99	0	75-125	20
Cadmium, Total	ND	0.053	0.0525	99	0.053	0.0522	98	1	75-125	20
Calcium, Total	18.0	10	28.9	109	10	28.0	100	3	75-125	20
Chromium, Total	ND	0.2	0.197	98	0.2	0.196	98	1	75-125	20
Cobalt, Total	ND	0.5	0.494	99	0.5	0.492	98	0	75-125	20
Copper, Total	ND	0.25	0.256	102	0.25	0.255	102	0	75-125	20
Iron, Total	0.0706	1	1.07	100	1	1.15	108	7	75-125	20
Lead, Total	ND	0.53	0.545	103	0.53	0.535	101	2	75-125	20
Magnesium, Total	3.20	10	13.9	107	10	13.4	102	4	75-125	20
Manganese, Total	0.0487	0.5	0.547	100	0.5	0.542	99	1	75-125	20
Nickel, Total	ND	0.5	0.495	99	0.5	0.494	99	0	75-125	20
Potassium, Total	1.90J	10	12.7	127 Q	10	12.5	125	2	75-125	20
Selenium, Total	ND	0.12	0.126	105	0.12	0.125	104	1	75-125	20
Silver, Total	ND	0.05	0.0530	106	0.05	0.0521	104	2	75-125	20
Sodium, Total	2.41	10	13.1	107	10	12.8	104	2	75-125	20
Thallium, Total	ND	0.12	0.124	103	0.12	0.122	102	2	75-125	20
Vanadium, Total	ND	0.5	0.494	99	0.5	0.490	98	1	75-125	20
Zinc, Total	ND	0.5	0.494	99	0.5	0.494	99	0	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10D	**Matrix**	: WATER
Lab Sample ID	: L2453342-05		
Matrix Spike	: WG1973830-7	**MS Analysis Date**	: 09/24/24 13:22
Matrix Spike Dup	: WG1973830-8	**MSD Analysis Date**	: 09/24/24 13:26

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	1.94	97	2	1.96	98	1	75-125	20
Antimony, Total	ND	0.5	0.443	89	0.5	0.443	89	0	75-125	20
Arsenic, Total	ND	0.12	0.120	100	0.12	0.120	100	0	75-125	20
Barium, Total	0.0055J	2	1.94	97	2	1.96	98	1	75-125	20
Beryllium, Total	ND	0.05	0.0496	99	0.05	0.0501	100	1	75-125	20
Cadmium, Total	ND	0.053	0.0510	96	0.053	0.0510	96	0	75-125	20
Calcium, Total	19.8	10	29.5	97	10	29.8	100	1	75-125	20
Chromium, Total	ND	0.2	0.190	95	0.2	0.191	96	1	75-125	20
Cobalt, Total	ND	0.5	0.480	96	0.5	0.482	96	0	75-125	20
Copper, Total	ND	0.25	0.243	97	0.25	0.244	98	0	75-125	20
Iron, Total	0.125	1	1.09	96	1	1.10	98	1	75-125	20
Lead, Total	ND	0.53	0.519	98	0.53	0.525	99	1	75-125	20
Magnesium, Total	2.54	10	12.4	99	10	12.5	100	1	75-125	20
Manganese, Total	0.0370	0.5	0.524	97	0.5	0.528	98	1	75-125	20
Nickel, Total	ND	0.5	0.481	96	0.5	0.482	96	0	75-125	20
Potassium, Total	0.791J	10	11.1	111	10	11.3	113	2	75-125	20
Selenium, Total	ND	0.12	0.117	98	0.12	0.119	99	2	75-125	20
Silver, Total	ND	0.05	0.0504	101	0.05	0.0502	100	0	75-125	20
Sodium, Total	5.93	10	16.0	101	10	16.2	103	1	75-125	20
Thallium, Total	ND	0.12	0.118	98	0.12	0.121	101	3	75-125	20
Vanadium, Total	ND	0.5	0.483	97	0.5	0.485	97	0	75-125	20
Zinc, Total	ND	0.5	0.488	98	0.5	0.490	98	0	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453016-04		
Matrix Spike	: WG1975268-3	**MS Analysis Date**	: 09/24/24 13:41
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.204	2	2.15	97						75-125	20
Antimony, Total	ND	0.5	0.501	100						75-125	20
Arsenic, Total	ND	0.12	0.127	106						75-125	20
Barium, Total	0.010J	2	1.97	98						75-125	20
Beryllium, Total	ND	0.05	0.0501	100						75-125	20
Cadmium, Total	ND	0.053	0.0524	99						75-125	20
Calcium, Total	6.11	10	15.9	98						75-125	20
Chromium, Total	0.0043J	0.2	0.196	98						75-125	20
Cobalt, Total	ND	0.5	0.492	98						75-125	20
Copper, Total	0.0062J	0.25	0.250	100						75-125	20
Iron, Total	0.018J	1	1.02	102						75-125	20
Lead, Total	ND	0.53	0.527	99						75-125	20
Magnesium, Total	1.99	10	11.4	94						75-125	20
Manganese, Total	0.073	0.5	0.568	99						75-125	20
Nickel, Total	0.222	0.5	0.711	98						75-125	20
Potassium, Total	2.44J	10	12.5	125						75-125	20
Selenium, Total	ND	0.12	0.120	100						75-125	20
Silver, Total	ND	0.05	0.0494	99						75-125	20
Sodium, Total	289	10	291.	20	Q					75-125	20
Thallium, Total	ND	0.12	0.115	96						75-125	20
Vanadium, Total	ND	0.5	0.498	100						75-125	20
Zinc, Total	0.0189	0.5	0.539	104						75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453250-01		
Matrix Spike	: WG1975196-3	**MS Analysis Date**	: 09/24/24 12:40
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	0.814	2	2.75	97					75-125	20
Antimony, Dissolved	ND	0.5	0.530	106					75-125	20
Arsenic, Dissolved	0.016	0.12	0.143	106					75-125	20
Barium, Dissolved	0.018	2	1.93	96					75-125	20
Beryllium, Dissolved	ND	0.05	0.0500	100					75-125	20
Cadmium, Dissolved	ND	0.053	0.0548	103					75-125	20
Calcium, Dissolved	8.72	10	18.6	99					75-125	20
Chromium, Dissolved	ND	0.2	0.203	102					75-125	20
Cobalt, Dissolved	ND	0.5	0.510	102					75-125	20
Copper, Dissolved	0.007J	0.25	0.266	106					75-125	20
Iron, Dissolved	0.016J	1	0.994	99					75-125	20
Lead, Dissolved	ND	0.53	0.543	102					75-125	20
Magnesium, Dissolved	5.34	10	14.9	96					75-125	20
Manganese, Dissolved	ND	0.5	0.490	98					75-125	20
Nickel, Dissolved	0.073	0.5	0.580	101					75-125	20
Potassium, Dissolved	73.8	10	84.3	105					75-125	20
Selenium, Dissolved	ND	0.12	0.126	105					75-125	20
Silver, Dissolved	ND	0.05	0.0523	105					75-125	20
Sodium, Dissolved	142.	10	153.	110					75-125	20
Thallium, Dissolved	ND	0.12	0.118	98					75-125	20
Vanadium, Dissolved	0.0066J	0.5	0.515	103					75-125	20
Zinc, Dissolved	ND	0.5	0.527	105					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 13:37
Dup Sample ID	: WG1975268-4	**DUP Analysis Date**	: 09/24/24 13:45

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Cadmium, Total	ND	ND	NC	20
Chromium, Total	0.0043J	0.0041J	NC	20
Copper, Total	0.0062J	0.0063J	NC	20
Lead, Total	ND	ND	NC	20
Nickel, Total	0.222	0.221	0	20
Silver, Total	ND	ND	NC	20
Zinc, Total	0.0189	0.0189	0	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 12:34
Dup Sample ID	: WG1975196-4	**DUP Analysis Date**	: 09/24/24 12:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Calcium, Dissolved	8.72	8.30	5	20
Cobalt, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	5.34	5.12	4	20
Potassium, Dissolved	73.8	69.9	5	20
Sodium, Dissolved	142	134.	6	20
Vanadium, Dissolved	0.0066J	0.0062J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1973830-2	**LCS Analysis Date**	: 09/20/24 13:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.00	100.					85-115	20
Antimony, Total	0.500	0.516	103.					85-115	20
Arsenic, Total	0.120	0.118	98.					85-115	20
Barium, Total	2.00	1.98	99.					85-115	20
Beryllium, Total	0.0500	0.0496	99.					85-115	20
Cadmium, Total	0.0530	0.0531	100.					85-115	20
Calcium, Total	10.0	9.90	99.					85-115	20
Chromium, Total	0.200	0.198	99.					85-115	20
Cobalt, Total	0.500	0.503	101.					85-115	20
Copper, Total	0.250	0.254	102.					85-115	20
Iron, Total	1.00	1.00	100.					85-115	20
Lead, Total	0.530	0.535	101.					85-115	20
Magnesium, Total	10.0	10.1	101.					85-115	20
Manganese, Total	0.500	0.499	100.					85-115	20
Nickel, Total	0.500	0.508	102.					85-115	20
Potassium, Total	10.0	10.5	105.					85-115	20
Selenium, Total	0.120	0.120	100.					85-115	20
Silver, Total	0.0500	0.0524	105.					85-115	20
Sodium, Total	10.0	10.3	103.					85-115	20
Thallium, Total	0.120	0.121	101.					85-115	20
Vanadium, Total	0.500	0.494	99.					85-115	20
Zinc, Total	0.500	0.499	100.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975268-2	**LCS Analysis Date**	: 09/24/24 12:33
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	1.89	94.					85-115	20
Arsenic, Total	0.120	0.112	93.					85-115	20
Barium, Total	2.00	1.90	95.					85-115	20
Beryllium, Total	0.0500	0.0484	97.					85-115	20
Cadmium, Total	0.0530	0.0504	95.					85-115	20
Calcium, Total	10.0	9.54	95.					85-115	20
Chromium, Total	0.200	0.186	93.					85-115	20
Cobalt, Total	0.500	0.478	96.					85-115	20
Copper, Total	0.250	0.238	95.					85-115	20
Iron, Total	1.00	0.977	98.					85-115	20
Lead, Total	0.530	0.510	96.					85-115	20
Magnesium, Total	10.0	9.51	95.					85-115	20
Manganese, Total	0.500	0.480	96.					85-115	20
Nickel, Total	0.500	0.481	96.					85-115	20
Potassium, Total	10.0	9.77	98.					85-115	20
Selenium, Total	0.120	0.115	96.					85-115	20
Silver, Total	0.0500	0.0498	100.					85-115	20
Sodium, Total	10.0	9.62	96.					85-115	20
Thallium, Total	0.120	0.116	97.					85-115	20
Vanadium, Total	0.500	0.474	95.					85-115	20
Zinc, Total	0.500	0.481	96.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975196-2	**LCS Analysis Date**	: 09/24/24 12:09
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	1.78	89.					85-115	20
Antimony, Dissolved	0.500	0.476	95.					85-115	20
Arsenic, Dissolved	0.120	0.117	98.					85-115	20
Barium, Dissolved	2.00	1.76	88.					85-115	20
Beryllium, Dissolved	0.0500	0.0454	91.					85-115	20
Cadmium, Dissolved	0.0530	0.0521	98.					85-115	20
Calcium, Dissolved	10.0	8.88	89.					85-115	20
Chromium, Dissolved	0.200	0.199	100.					85-115	20
Cobalt, Dissolved	0.500	0.484	97.					85-115	20
Copper, Dissolved	0.250	0.249	100.					85-115	20
Iron, Dissolved	1.00	0.894	89.					85-115	20
Lead, Dissolved	0.530	0.525	99.					85-115	20
Magnesium, Dissolved	10.0	9.87	99.					85-115	20
Manganese, Dissolved	0.500	0.453	91.					85-115	20
Nickel, Dissolved	0.500	0.487	97.					85-115	20
Potassium, Dissolved	10.0	9.25	92.					85-115	20
Selenium, Dissolved	0.120	0.116	97.					85-115	20
Silver, Dissolved	0.0500	0.0518	104.					85-115	20
Sodium, Dissolved	10.0	9.09	91.					85-115	20
Thallium, Dissolved	0.120	0.117	98.					85-115	20
Vanadium, Dissolved	0.500	0.489	98.					85-115	20
Zinc, Dissolved	0.500	0.490	98.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975268-2	**LCS Analysis Date**	: 09/24/24 16:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Antimony, Total	0.500	0.512	102.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453053-01	**Analysis Date**	: 09/20/24 13:36
Serial Dilution ID	: WG1973830-6	**Analysis Date**	: 09/20/24 14:00

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	18.0	18.4	2	20
Magnesium, Total	3.20	3.28	2	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10D	**Matrix**	: WATER
Lab Sample ID	: L2453342-05	**Analysis Date**	: 09/24/24 13:18
Serial Dilution ID	: WG1973830-10	**Analysis Date**	: 09/24/24 13:33

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	19.8	19.7	1	20
Magnesium, Total	2.54	2.50	2	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163355

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1973830-1	09/20/24 08:00	-	50
WG1973830-2	09/20/24 08:00	-	50
WG1973830-3	09/20/24 08:00	-	50
WG1973830-4	09/20/24 08:00	-	50
WG1973830-6	09/20/24 08:00	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-01	09/20/24 08:00	-	50
L2453342-02	09/20/24 08:00	-	50
L2453342-03	09/20/24 08:00	-	50
L2453342-04	09/20/24 08:00	-	50
L2453342-05	09/20/24 08:00	-	50
L2453342-07	09/20/24 08:00	-	50
L2453342-08	09/20/24 08:00	-	50
L2453342-10	09/20/24 08:00	-	50
WG1973830-7	09/20/24 08:00	-	50
WG1973830-8	09/20/24 08:00	-	50
WG1973830-10	09/20/24 08:00	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-06	09/23/24 21:16	-	50
WG1975268-1	09/23/24 21:16	-	50
WG1975268-2	09/23/24 21:16	-	50
WG1975268-3	09/23/24 21:16	-	50
WG1975268-4	09/23/24 21:16	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-01	09/23/24 20:59	-	50
L2453342-02	09/23/24 20:59	-	50
L2453342-03	09/23/24 20:59	-	50
L2453342-04	09/23/24 20:59	-	50
L2453342-05	09/23/24 20:59	-	50
L2453342-06	09/23/24 20:59	-	50
L2453342-07	09/23/24 20:59	-	50
L2453342-08	09/23/24 20:59	-	50
L2453342-10	09/23/24 20:59	-	50
WG1975196-1	09/23/24 20:59	-	50
WG1975196-2	09/23/24 20:59	-	50
WG1975196-3	09/23/24 20:59	-	50
WG1975196-4	09/23/24 20:59	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1975268-2	09/23/24 21:16	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Analysis Method**	: 19,200.7
Start Date	: 09/19/24 17:52	**End Date**	: 09/20/24 14:13

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1878315-1 ICV	1	17:52:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-2 ICB	1	17:58:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-3 ICV	1	18:04:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-4 ICB	1	18:10:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-5 ICSA	1	18:32:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-6 CCV	1	10:28:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-7 CCB	1	10:34:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-8 CCV	1	11:37:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-9 CCB	1	11:43:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-10 CCV	1	12:49:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-11 CCB	1	12:55:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-1 BLANK	1	13:04:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-2 LCS	1	13:10:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-3 MS	1	13:42:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-4 MSD	1	13:48:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-6 SERDIL	5	14:00:56							X						X									
R1878315-12 CCV	1	14:07:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1878315-13 CCB	1	14:13:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/24/24 06:17	**End Date**	: 09/24/24 14:39

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1879488-1 ICV	1	06:17:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-2 ICB	1	06:21:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-3 ICSA	1	06:34:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-4 CCV	1	07:41:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-5 CCB	1	07:45:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-6 CCV	1	08:49:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-7 CCB	1	08:53:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-8 CCV	1	09:40:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-9 CCB	1	09:44:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-10 CCV	1	10:39:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-11 CCB	1	10:43:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-12 CCV	1	11:30:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-13 CCB	1	11:34:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-14 CCV	1	12:18:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-15 CCB	1	12:22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-1 BLANK	1	12:29:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-2 LCS	1	12:33:24	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-06	1	12:45:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-16 CCV	1	13:08:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-17 CCB	1	13:12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-05	1	13:18:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-7 MS	1	13:22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-8 MSD	1	13:26:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1973830-10 SERDIL	5	13:33:57							X						X									
WG1975268-3 MS	1	13:41:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-4 DUP	1	13:45:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-18 CCV	1	13:57:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/24/24 06:17	**End Date**	: 09/24/24 14:39

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1879488-19 CCB	1	14:01:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-10	1	14:07:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-01	1	14:11:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-02	1	14:15:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-03	1	14:19:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-04	1	14:23:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-07	1	14:27:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-08	1	14:31:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-20 CCV	1	14:35:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-21 CCB	1	14:39:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 09/24/24 09:24	**End Date**	: 09/24/24 14:24

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1879667-1 ICV	1	09:24:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-2 ICB	1	09:31:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-3 ICV	1	09:37:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-4 ICB	1	09:43:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-5 ICSA	1	10:06:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-6 CCV	1	11:31:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-7 CCB	1	11:37:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-8 CCV	1	11:45:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-9 CCB	1	11:51:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975196-1 BLANK	1	12:03:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975196-2 LCS	1	12:09:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-01	1	12:16:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-02	1	12:22:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-03	1	12:28:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975196-3 MS	1	12:40:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975196-4 DUP	1	12:47:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-10 CCV	1	13:05:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-11 CCB	1	13:11:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-12 CCV	1	13:17:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-13 CCB	1	13:23:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-04	1	13:41:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-05	1	13:47:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-06	1	13:53:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-07	1	14:00:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-08	1	14:06:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453342-10	1	14:12:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879667-14 CCV	1	14:18:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 09/24/24 09:24	**End Date**	: 09/24/24 14:24

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1879667-15 CCB	1	14:24:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 09/24/24 09:24	**End Date**	: 09/24/24 16:42

Sample Number	Dilution Factor	Analysis Time	Antimony, Total
R1879667-1 ICV	1	09:24:57	X
R1879667-2 ICB	1	09:31:00	X
R1879667-3 ICV	1	09:37:19	X
R1879667-4 ICB	1	09:43:25	X
R1879667-5 ICSA	1	10:06:33	X
R1879667-6 CCV	1	11:31:27	X
R1879667-7 CCB	1	11:37:29	X
R1879667-8 CCV	1	11:45:43	X
R1879667-9 CCB	1	11:51:46	X
R1879667-10 CCV	1	13:05:31	X
R1879667-11 CCB	1	13:11:33	X
R1879667-12 CCV	1	13:17:52	X
R1879667-13 CCB	1	13:23:54	X
R1879667-14 CCV	1	14:18:53	X
R1879667-15 CCB	1	14:24:56	X
R1879667-16 CCV	1	15:33:26	X
R1879667-17 CCB	1	15:39:48	X
R1879667-18 CCV	1	15:51:22	X
R1879667-19 CCB	1	15:57:25	X
WG1975268-2 LCS	1	16:03:58	X
R1879667-20 CCV	1	16:36:44	X
R1879667-21 CCB	1	16:42:47	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: Blank TAA Trace4
Analysis started at: 9/19/2024 5:10:25 PM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.4 %	-1.2 %	0.6 %	0.1 %	0.1 %	-0.6 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	-0.1 %	0.3 %	0.0 %	0.3 %	0.3 %	-1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	-2.3 %	-0.1 %	-0.2 %	-0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.0 %	0.1 %	-0.1 %	-0.4 %	-0.2 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	2.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICAL
Analysis started at: 9/19/2024 5:16:48 PM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9962 ppm	24.6288 ppm	0.9996 ppm	0.9978 ppm	0.9859 ppm	0.9869 ppm	9.8671 ppm
Concentration per Run 2	0.9998 ppm	25.2422 ppm	1.0007 ppm	1.0013 ppm	1.0076 ppm	1.0092 ppm	10.0797 ppm
Concentration per Run 3	1.0039 ppm	25.1289 ppm	0.9998 ppm	1.0009 ppm	1.0064 ppm	1.0038 ppm	10.0532 ppm
Concentration RSD	0.4 %	1.3 %	0.1 %	0.2 %	1.2 %	1.2 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9977 ppm	0.9980 ppm	1.0017 ppm	0.9965 ppm	24.6857 ppm	34.4465 ppm	0.9804 ppm
Concentration per Run 2	1.0007 ppm	0.9998 ppm	1.0041 ppm	1.0040 ppm	25.2226 ppm	35.2543 ppm	1.0105 ppm
Concentration per Run 3	1.0016 ppm	1.0022 ppm	0.9942 ppm	0.9995 ppm	25.0917 ppm	35.2993 ppm	1.0091 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.4 %	1.1 %	1.4 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0159 ppm	0.9867 ppm	1.0003 ppm	24.5679 ppm	1.0003 ppm	0.9966 ppm	0.9997 ppm
Concentration per Run 2	9.9826 ppm	1.0056 ppm	0.9974 ppm	25.2525 ppm	0.9995 ppm	1.0007 ppm	0.9992 ppm
Concentration per Run 3	10.0015 ppm	1.0076 ppm	1.0023 ppm	25.1797 ppm	1.0003 ppm	1.0026 ppm	1.0011 ppm
Concentration RSD	0.2 %	1.2 %	0.3 %	1.5 %	0.0 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9948 ppm	9.9956 ppm	0.9967 ppm	0.9861 ppm	0.9997 ppm	1.0001 ppm	1.0004 ppm
Concentration per Run 2	1.0006 ppm	9.9932 ppm	1.0016 ppm	1.0084 ppm	1.0052 ppm	1.0012 ppm	1.0053 ppm
Concentration per Run 3	1.0046 ppm	10.0112 ppm	1.0018 ppm	1.0055 ppm	0.9951 ppm	0.9987 ppm	0.9943 ppm
Concentration RSD	0.5 %	0.1 %	0.3 %	1.2 %	0.5 %	0.1 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	98.9475 %	97.3307 %	98.1787 %	98.4167 %	90.9934 %	96.9715 %
Concentration per Run 1	0.9979 ppm	99.7662 %	97.2749 %	98.2623 %	99.9660 %	90.9835 %	96.9697 %
Concentration per Run 2	0.9996 ppm	98.5477 %	97.4110 %	98.2809 %	97.6254 %	91.2362 %	96.6799 %
Concentration per Run 3	1.0025 ppm	98.5285 %	97.3061 %	97.9929 %	97.6588 %	90.7604 %	97.2649 %
Concentration RSD	0.2 %	0.7 %	0.1 %	0.2 %	1.4 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICV
Analysis started at: 9/19/2024 5:52:16 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5115 ppm	0.4994 ppm	0.4965 ppm	0.5104 ppm	0.4934 ppm	0.5011 ppm	0.4990 ppm
Concentration per Run 1	0.5106 ppm	0.4936 ppm	0.4960 ppm	0.5087 ppm	0.4845 ppm	0.4930 ppm	0.4918 ppm
Concentration per Run 2	0.5145 ppm	0.5003 ppm	0.4964 ppm	0.5104 ppm	0.4976 ppm	0.5058 ppm	0.5034 ppm
Concentration per Run 3	0.5095 ppm	0.5044 ppm	0.4971 ppm	0.5122 ppm	0.4980 ppm	0.5045 ppm	0.5017 ppm
Recovery Percentage 1	102.307 %	99.883 %	99.303 %	102.083 %	98.674 %	100.219 %	99.792 %
Concentration RSD	0.5 %	1.1 %	0.1 %	0.3 %	1.6 %	1.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5053 ppm	0.5144 ppm	0.4909 ppm	0.4835 ppm	0.4921 ppm	5.1824 ppm	0.4896 ppm
Concentration per Run 1	0.5052 ppm	0.5133 ppm	0.4878 ppm	0.4804 ppm	0.4841 ppm	5.1074 ppm	0.4779 ppm
Concentration per Run 2	0.5057 ppm	0.5139 ppm	0.4928 ppm	0.4855 ppm	0.4950 ppm	5.1957 ppm	0.4926 ppm
Concentration per Run 3	0.5049 ppm	0.5158 ppm	0.4922 ppm	0.4845 ppm	0.4972 ppm	5.2440 ppm	0.4983 ppm
Recovery Percentage 1	101.050 %	102.872 %	98.185 %	96.698 %	98.423 %	103.647 %	97.921 %
Concentration RSD	0.1 %	0.3 %	0.6 %	0.6 %	1.4 %	1.3 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5070 ppm	0.4934 ppm	0.4952 ppm	9.7553 ppm	0.5114 ppm	0.5177 ppm	0.5152 ppm
Concentration per Run 1	0.5086 ppm	0.4854 ppm	0.4944 ppm	9.5628 ppm	0.5100 ppm	0.5171 ppm	0.5130 ppm
Concentration per Run 2	0.5080 ppm	0.4992 ppm	0.4945 ppm	9.8189 ppm	0.5118 ppm	0.5179 ppm	0.5165 ppm
Concentration per Run 3	0.5044 ppm	0.4956 ppm	0.4967 ppm	9.8844 ppm	0.5124 ppm	0.5181 ppm	0.5162 ppm
Recovery Percentage 1	101.401 %	98.684 %	99.043 %	97.553 %	102.286 %	103.543 %	103.047 %
Concentration RSD	0.4 %	1.5 %	0.3 %	1.7 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5139 ppm	5.6406 ppm	0.4857 ppm	0.4673 ppm	0.4967 ppm	0.5267 ppm	0.4873 ppm
Concentration per Run 1	0.5113 ppm	5.6265 ppm	0.4851 ppm	0.4586 ppm	0.4936 ppm	0.5250 ppm	0.4843 ppm
Concentration per Run 2	0.5133 ppm	5.6346 ppm	0.4860 ppm	0.4712 ppm	0.4984 ppm	0.5262 ppm	0.4885 ppm
Concentration per Run 3	0.5170 ppm	5.6608 ppm	0.4860 ppm	0.4720 ppm	0.4981 ppm	0.5289 ppm	0.4891 ppm
Recovery Percentage 1	102.774 %	107.441 %	97.143 %	93.457 %	99.336 %	105.343 %	97.464 %
Concentration RSD	0.6 %	0.3 %	0.1 %	1.6 %	0.5 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5139 ppm	99.9510 %	99.5124 %	101.1300 %	100.7389 %	99.4437 %	100.2932 %
Concentration per Run 1	0.5137 ppm	100.2483 %	99.1627 %	101.4713 %	102.0582 %	99.8117 %	100.5362 %
Concentration per Run 2	0.5150 ppm	99.2615 %	99.7378 %	101.2627 %	99.4949 %	99.5161 %	100.1137 %
Concentration per Run 3	0.5131 ppm	100.3430 %	99.6367 %	100.6560 %	100.6636 %	99.0034 %	100.2295 %
Recovery Percentage 1	102.785 %						
Concentration RSD	0.2 %	0.6 %	0.3 %	0.4 %	1.3 %	0.4 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICB
Analysis started at: 9/19/2024 5:58:20 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0015 ppm	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	-0.0003 ppm	0.0044 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0004 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-0.791 %	1.543 %	-6.976 %	-0.542 %	-0.556 %	0.187 %	0.832 %
Concentration RSD	468.0 %	165.5 %	255.0 %	34.3 %	130.5 %	82.2 %	223.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	-0.0165 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0125 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0011 ppm	-0.0374 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0011 ppm	0.0004 ppm	0.0004 ppm
Recovery Percentage 1	0.650 %	0.419 %	-0.254 %	-0.219 %	-1.514 %	-0.660 %	3.327 %
Concentration RSD	91.8 %	79.6 %	560.9 %	519.3 %	83.4 %	116.4 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0011 ppm	-0.0001 ppm	0.0002 ppm	0.0052 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0021 ppm	-0.0003 ppm	0.0002 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0015 ppm	-0.0001 ppm	0.0002 ppm	0.0078 ppm	-0.0003 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0062 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	1.058 %	-0.806 %	0.406 %	0.258 %	-0.815 %	-2.472 %	-0.004 %
Concentration RSD	128.3 %	219.5 %	21.9 %	62.9 %	59.1 %	76.7 %	27,349.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	-0.0004 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0006 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	-0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	2.832 %	-0.071 %	-0.781 %	-0.070 %	-0.755 %	-1.941 %	0.822 %
Concentration RSD	396.2 %	83.0 %	44.8 %	137.0 %	147.9 %	68.9 %	59.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	100.9904 %	100.8287 %	100.6013 %	100.9971 %	101.1144 %	100.2806 %
Concentration per Run 1	0.0002 ppm	101.6706 %	100.9562 %	101.2941 %	102.0589 %	101.6812 %	100.2488 %
Concentration per Run 2	0.0002 ppm	101.0175 %	100.7187 %	100.4371 %	100.7827 %	101.0105 %	100.4777 %
Concentration per Run 3	0.0000 ppm	100.2831 %	100.8113 %	100.0726 %	100.1497 %	100.6513 %	100.1153 %
Recovery Percentage 1	2.952 %						
Concentration RSD	74.3 %	0.7 %	0.1 %	0.6 %	1.0 %	0.5 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICV
Analysis started at: 9/19/2024 6:04:46 PM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5062 ppm	0.6318 ppm	0.4951 ppm	0.5025 ppm	0.4981 ppm	0.5077 ppm	0.5131 ppm
Concentration per Run 1	0.5065 ppm	0.6261 ppm	0.4957 ppm	0.5032 ppm	0.4937 ppm	0.5024 ppm	0.5080 ppm
Concentration per Run 2	0.5043 ppm	0.6343 ppm	0.4938 ppm	0.5010 ppm	0.4990 ppm	0.5096 ppm	0.5177 ppm
Concentration per Run 3	0.5076 ppm	0.6349 ppm	0.4959 ppm	0.5033 ppm	0.5017 ppm	0.5112 ppm	0.5136 ppm
Recovery Percentage 1	101.234 %	126.355 %	99.028 %	100.494 %	99.629 %	101.549 %	102.621 %
Concentration RSD	0.3 %	0.8 %	0.2 %	0.3 %	0.8 %	0.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5002 ppm	0.5152 ppm	0.4911 ppm	0.4893 ppm	0.5065 ppm	5.1938 ppm	0.4941 ppm
Concentration per Run 1	0.5008 ppm	0.5159 ppm	0.4907 ppm	0.4902 ppm	0.5038 ppm	5.1190 ppm	0.4914 ppm
Concentration per Run 2	0.4995 ppm	0.5142 ppm	0.4911 ppm	0.4875 ppm	0.5080 ppm	5.2584 ppm	0.4938 ppm
Concentration per Run 3	0.5002 ppm	0.5156 ppm	0.4915 ppm	0.4904 ppm	0.5076 ppm	5.2040 ppm	0.4972 ppm
Recovery Percentage 1	100.037 %	103.049 %	98.222 %	97.870 %	101.293 %	103.876 %	98.826 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %	0.5 %	1.4 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5035 ppm	0.4967 ppm	0.4983 ppm	9.9630 ppm	0.5121 ppm	0.5163 ppm	0.5159 ppm
Concentration per Run 1	0.5013 ppm	0.4890 ppm	0.4997 ppm	9.9329 ppm	0.5128 ppm	0.5174 ppm	0.5155 ppm
Concentration per Run 2	0.5071 ppm	0.4999 ppm	0.4964 ppm	9.9382 ppm	0.5113 ppm	0.5155 ppm	0.5155 ppm
Concentration per Run 3	0.5022 ppm	0.5012 ppm	0.4987 ppm	10.0179 ppm	0.5121 ppm	0.5161 ppm	0.5167 ppm
Recovery Percentage 1	100.704 %	99.343 %	99.657 %	99.630 %	102.416 %	103.269 %	103.174 %
Concentration RSD	0.6 %	1.4 %	0.3 %	0.5 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5047 ppm	5.6792 ppm	0.4956 ppm	0.4840 ppm	0.5000 ppm	0.5258 ppm	0.4893 ppm
Concentration per Run 1	0.5055 ppm	5.6840 ppm	0.4971 ppm	0.4792 ppm	0.4986 ppm	0.5263 ppm	0.4882 ppm
Concentration per Run 2	0.5044 ppm	5.6607 ppm	0.4959 ppm	0.4852 ppm	0.5005 ppm	0.5250 ppm	0.4892 ppm
Concentration per Run 3	0.5041 ppm	5.6928 ppm	0.4937 ppm	0.4876 ppm	0.5009 ppm	0.5259 ppm	0.4906 ppm
Recovery Percentage 1	100.934 %	108.174 %	99.115 %	96.800 %	100.001 %	105.151 %	97.863 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.9 %	0.2 %	0.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5072 ppm	99.8712 %	99.8807 %	100.1249 %	100.1784 %	97.7141 %	100.2405 %
Concentration per Run 1	0.5074 ppm	100.8941 %	99.7915 %	100.0050 %	101.5733 %	97.8933 %	100.3419 %
Concentration per Run 2	0.5071 ppm	99.0434 %	99.9245 %	100.3266 %	99.3101 %	97.5184 %	100.2906 %
Concentration per Run 3	0.5072 ppm	99.6760 %	99.9259 %	100.0430 %	99.6517 %	97.7306 %	100.0889 %
Recovery Percentage 1	101.443 %						
Concentration RSD	0.0 %	0.9 %	0.1 %	0.2 %	1.2 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICB
Analysis started at: 9/19/2024 6:10:52 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	-0.0002 ppm	0.0039 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0016 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Recovery Percentage 1	-2.759 %	1.199 %	0.722 %	-0.306 %	-0.165 %	0.041 %	-0.386 %
Concentration RSD	52.1 %	228.4 %	753.4 %	219.4 %	377.3 %	189.9 %	478.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	-0.0006 ppm	-0.0120 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0006 ppm	-0.0255 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0116 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm	0.0005 ppm
Recovery Percentage 1	0.581 %	0.997 %	-1.147 %	1.680 %	-1.267 %	-0.481 %	2.460 %
Concentration RSD	89.7 %	61.1 %	112.2 %	86.2 %	100.2 %	110.0 %	90.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0008 ppm	-0.0002 ppm	0.0002 ppm	0.0021 ppm	-0.0004 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	-0.0025 ppm	-0.0003 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 3	-0.0004 ppm	-0.0002 ppm	0.0001 ppm	0.0044 ppm	-0.0006 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-0.846 %	-1.705 %	0.413 %	0.103 %	-1.466 %	-1.776 %	0.178 %
Concentration RSD	177.4 %	84.3 %	75.0 %	104.4 %	65.4 %	191.7 %	987.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	-0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0023 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0016 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	11.508 %	-0.039 %	0.476 %	-0.020 %	0.146 %	1.018 %	0.199 %
Concentration RSD	127.8 %	425.2 %	92.8 %	2,734.8 %	1,449.5 %	209.6 %	97.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	100.6139 %	99.5482 %	99.6686 %	99.9083 %	99.4513 %	99.1517 %
Concentration per Run 1	0.0001 ppm	100.3557 %	99.9226 %	100.1103 %	100.4979 %	99.9696 %	99.1933 %
Concentration per Run 2	0.0001 ppm	100.6715 %	99.2574 %	99.5202 %	99.3375 %	99.0786 %	99.2127 %
Concentration per Run 3	0.0000 ppm	100.8146 %	99.4646 %	99.3754 %	99.8894 %	99.3056 %	99.0490 %
Recovery Percentage 1	1.441 %						
Concentration RSD	82.6 %	0.2 %	0.3 %	0.4 %	0.6 %	0.5 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LLOQ
Analysis started at: 9/19/2024 6:17:18 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0051 ppm	0.1071 ppm	0.0051 ppm	0.0322 ppm	0.0102 ppm	0.0051 ppm	0.1098 ppm
Concentration per Run 1	0.0050 ppm	0.1084 ppm	0.0040 ppm	0.0324 ppm	0.0101 ppm	0.0050 ppm	0.1070 ppm
Concentration per Run 2	0.0048 ppm	0.1102 ppm	0.0056 ppm	0.0323 ppm	0.0103 ppm	0.0051 ppm	0.1111 ppm
Concentration per Run 3	0.0053 ppm	0.1027 ppm	0.0056 ppm	0.0319 ppm	0.0103 ppm	0.0052 ppm	0.1114 ppm
Recovery Percentage 1	101.431 %	107.088 %	101.339 %	107.459 %	102.113 %	101.703 %	109.820 %
Concentration RSD	4.9 %	3.7 %	18.5 %	0.8 %	1.4 %	2.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0212 ppm	0.0096 ppm	0.0106 ppm	**0.0643 ppm**	2.6340 ppm	0.0109 ppm
Concentration per Run 1	0.0042 ppm	0.0213 ppm	0.0096 ppm	0.0106 ppm	0.0659 ppm	2.5692 ppm	0.0103 ppm
Concentration per Run 2	0.0043 ppm	0.0214 ppm	0.0095 ppm	0.0105 ppm	0.0644 ppm	2.6726 ppm	0.0112 ppm
Concentration per Run 3	0.0041 ppm	0.0209 ppm	0.0097 ppm	0.0106 ppm	0.0625 ppm	2.6603 ppm	0.0111 ppm
Recovery Percentage 1	104.835 %	105.974 %	96.195 %	105.803 %	128.518 %	105.362 %	108.919 %
Concentration RSD	1.8 %	1.3 %	0.8 %	0.6 %	**2.7 %**	2.1 %	4.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1052 ppm	0.0109 ppm	0.0522 ppm	2.0662 ppm	0.0203 ppm	0.0109 ppm	0.0537 ppm
Concentration per Run 1	0.1052 ppm	0.0108 ppm	0.0524 ppm	2.0238 ppm	0.0203 ppm	0.0110 ppm	0.0539 ppm
Concentration per Run 2	0.1053 ppm	0.0109 ppm	0.0523 ppm	2.0926 ppm	0.0204 ppm	0.0109 ppm	0.0544 ppm
Concentration per Run 3	0.1053 ppm	0.0111 ppm	0.0520 ppm	2.0822 ppm	0.0203 ppm	0.0106 ppm	0.0526 ppm
Recovery Percentage 1	105.247 %	109.256 %	104.466 %	103.310 %	101.674 %	108.658 %	107.311 %
Concentration RSD	0.0 %	1.1 %	0.5 %	1.8 %	0.1 %	1.9 %	1.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0105 ppm	0.5740 ppm	0.0521 ppm	0.0100 ppm	0.0527 ppm	**0.0223 ppm**	0.0105 ppm
Concentration per Run 1	0.0096 ppm	0.5779 ppm	0.0524 ppm	0.0098 ppm	0.0524 ppm	0.0224 ppm	0.0106 ppm
Concentration per Run 2	0.0110 ppm	0.5754 ppm	0.0521 ppm	0.0102 ppm	0.0531 ppm	0.0214 ppm	0.0105 ppm
Concentration per Run 3	0.0110 ppm	0.5688 ppm	0.0518 ppm	0.0102 ppm	0.0526 ppm	0.0232 ppm	0.0104 ppm
Recovery Percentage 1	105.153 %	114.808 %	104.236 %	100.320 %	105.358 %	111.595 %	104.758 %
Concentration RSD	7.8 %	0.8 %	0.6 %	2.4 %	0.7 %	3.9 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**0.0072 ppm**	100.2168 %	99.1110 %	99.0715 %	101.1532 %	97.2305 %	98.7499 %
Concentration per Run 1	0.0073 ppm	100.2901 %	99.1288 %	98.6914 %	103.1842 %	96.9199 %	98.9622 %
Concentration per Run 2	0.0072 ppm	100.6491 %	98.8369 %	98.6790 %	100.8266 %	96.9284 %	98.2641 %
Concentration per Run 3	0.0072 ppm	99.7112 %	99.3673 %	99.8439 %	99.4489 %	97.8433 %	99.0232 %
Recovery Percentage 1	144.666 %						
Concentration RSD	**1.0 %**	0.5 %	0.3 %	0.7 %	1.9 %	0.5 %	0.4 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: ICSA
Analysis started at: 9/19/2024 6:32:27 PM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	513.7559 [SIC 500]	-0.0001 ppm	-0.0121 ppm	0.0005 ppm	-0.0005 ppm	557.5856 [SIC 1000]
Concentration per Run 1	0.0010 ppm	513.6456 ppm	0.0036 ppm	-0.0124 ppm	0.0005 ppm	-0.0005 ppm	563.8838 ppm
Concentration per Run 2	0.0007 ppm	516.3981 ppm	-0.0015 ppm	-0.0115 ppm	0.0005 ppm	-0.0005 ppm	559.7792 ppm
Concentration per Run 3	0.0011 ppm	511.2241 ppm	-0.0023 ppm	-0.0126 ppm	0.0005 ppm	-0.0005 ppm	549.0939 ppm
Recovery Percentage 1	13.295 %	513,755.938 %	-1.344 %	-40.497 %	4.900 %	-9.355 %	557,585.643 %
Concentration RSD	21.9 %	0.5 %	4,762.6 %	4.6 %	6.5 %	4.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0011 ppm	0.0014 ppm	0.0001 ppm	182.8364 ppm	-0.0312 ppm	-0.0096 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0012 ppm	0.0001 ppm	181.4142 ppm	-0.0488 ppm	-0.0093 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0012 ppm	0.0003 ppm	185.7278 ppm	-0.0293 ppm	-0.0100 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	0.0017 ppm	-0.0002 ppm	181.3671 ppm	-0.0155 ppm	-0.0094 ppm
Recovery Percentage 1	1.852 %	5.441 %	13.671 %	0.740 %	365,672.709 %	-1.249 %	-95.579 %
Concentration RSD	149.9 %	9.1 %	22.8 %	337.0 %	1.4 %	53.6 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	471.3814 ppm	0.0017 ppm	-0.0011 ppm	0.0244 ppm	0.0069 ppm	0.0076 ppm	-0.0126 ppm
Concentration per Run 1	473.6367 ppm	0.0018 ppm	-0.0011 ppm	0.0234 ppm	0.0068 ppm	0.0068 ppm	-0.0153 ppm
Concentration per Run 2	469.9518 ppm	0.0019 ppm	-0.0008 ppm	0.0260 ppm	0.0076 ppm	0.0084 ppm	-0.0116 ppm
Concentration per Run 3	470.5557 ppm	0.0015 ppm	-0.0012 ppm	0.0240 ppm	0.0062 ppm	0.0077 ppm	-0.0110 ppm
Recovery Percentage 1	471,381.403 %	17.231 %	-2.111 %	1.222 %	27.435 %	76.101 %	-25.272 %
Concentration RSD	0.4 %	10.3 %	19.5 %	5.6 %	10.3 %	10.4 %	18.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	-0.0017 ppm	0.0025 ppm	-0.0004 ppm	-0.0043 ppm	-0.0004 ppm	-0.0024 ppm
Concentration per Run 1	-0.0007 ppm	-0.0015 ppm	0.0024 ppm	-0.0005 ppm	-0.0044 ppm	-0.0016 ppm	-0.0023 ppm
Concentration per Run 2	-0.0024 ppm	-0.0010 ppm	0.0024 ppm	-0.0003 ppm	-0.0040 ppm	0.0006 ppm	-0.0024 ppm
Concentration per Run 3	-0.0017 ppm	-0.0024 ppm	0.0025 ppm	-0.0003 ppm	-0.0044 ppm	-0.0001 ppm	-0.0026 ppm
Recovery Percentage 1	-15.999 %	-0.334 %	4.930 %	-3.672 %	-42.572 %	-1.830 %	-24.473 %
Concentration RSD	53.8 %	42.2 %	1.5 %	23.0 %	5.3 %	300.8 %	6.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0084 ppm	93.9754 %	85.5341 %	87.0716 %	93.7206 %	66.9058 %	85.2393 %
Concentration per Run 1	-0.0083 ppm	93.9533 %	85.3456 %	87.2315 %	94.0601 %	67.0137 %	85.0798 %
Concentration per Run 2	-0.0085 ppm	94.0222 %	85.6296 %	87.2053 %	93.3465 %	66.9229 %	85.4572 %
Concentration per Run 3	-0.0084 ppm	93.9508 %	85.6271 %	86.7780 %	93.7551 %	66.7809 %	85.1808 %
Recovery Percentage 1	-167.766 %						
Concentration RSD	0.8 %	0.0 %	0.2 %	0.3 %	0.4 %	0.2 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LDR Check
Analysis started at: 9/19/2024 7:04:43 PM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0031 ppm	0.1615 ppm	20.6632 ppm	23.5254 [SIC 20]	18.9345 ppm	5.0343 ppm	0.0413 ppm
Concentration per Run 1	0.0030 ppm	0.1588 ppm	24.1831 ppm	27.7237 ppm	19.0795 ppm	4.9860 ppm	0.0412 ppm
Concentration per Run 2	0.0032 ppm	0.1644 ppm	24.0324 ppm	27.4347 ppm	18.9396 ppm	5.0669 ppm	0.0397 ppm
Concentration per Run 3	0.0031 ppm	0.1612 ppm	13.7741 ppm	15.4177 ppm	18.7843 ppm	5.0501 ppm	0.0431 ppm
Recovery Percentage 1	0.000 %	0.000 %	103.316 %	117.627 %	94.672 %	100.686 %	0.000 %
Concentration RSD	2.2 %	1.8 %	28.9 %	29.9 %	0.8 %	0.8 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9128 ppm	4.8078 ppm	-0.0005 ppm	20.2864 [SIC 20]	0.0319 ppm	494.5532 ppm	19.1125 ppm
Concentration per Run 1	5.6509 ppm	5.5879 ppm	-0.0002 ppm	20.5346 ppm	0.0343 ppm	492.3662 ppm	19.2572 ppm
Concentration per Run 2	5.6435 ppm	5.5631 ppm	-0.0008 ppm	20.1542 ppm	0.0302 ppm	518.2165 ppm	18.7822 ppm
Concentration per Run 3	3.4441 ppm	3.2725 ppm	-0.0006 ppm	20.1703 ppm	0.0312 ppm	473.0769 ppm	19.2982 ppm
Recovery Percentage 1	98.256 %	96.157 %	0.000 %	101.432 %	0.000 %	98.911 %	95.563 %
Concentration RSD	25.9 %	27.7 %	63.5 %	1.1 %	6.8 %	4.6 %	1.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1244 ppm	0.0004 ppm	4.9642 ppm	417.8496 ppm	9.2291 ppm	45.0897 ppm	5.0750 ppm
Concentration per Run 1	-0.1259 ppm	0.0005 ppm	5.7786 ppm	429.8745 ppm	10.7070 ppm	52.3077 ppm	5.9933 ppm
Concentration per Run 2	-0.1224 ppm	0.0003 ppm	5.7414 ppm	417.1455 ppm	10.6736 ppm	52.0863 ppm	5.9145 ppm
Concentration per Run 3	-0.1248 ppm	0.0004 ppm	3.3725 ppm	406.5288 ppm	6.3066 ppm	30.8752 ppm	3.3173 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.283 %	83.570 %	92.291 %	90.179 %	101.501 %
Concentration RSD	1.5 %	22.1 %	27.8 %	2.8 %	27.4 %	27.3 %	30.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8924 ppm	21.0972 [SIC 50]	9.0325 ppm	4.7279 ppm	0.0033 ppm	4.1166 ppm	0.0133 ppm
Concentration per Run 1	5.7553 ppm	24.8295 ppm	10.4755 ppm	4.7288 ppm	0.0030 ppm	4.7924 ppm	0.0140 ppm
Concentration per Run 2	5.7068 ppm	24.5716 ppm	10.4287 ppm	4.7390 ppm	0.0036 ppm	4.7775 ppm	0.0144 ppm
Concentration per Run 3	3.2150 ppm	13.8905 ppm	6.1932 ppm	4.7158 ppm	0.0032 ppm	2.7798 ppm	0.0116 ppm
Recovery Percentage 1	97.848 %	105.486 %	90.325 %	94.557 %	0.000 %	82.331 %	0.000 %
Concentration RSD	29.7 %	29.6 %	27.2 %	0.2 %	8.3 %	28.1 %	11.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.6349 ppm	96.1725 %	88.3209 %	95.1342 %	95.5309 %	95.7422 %	87.2860 %
Concentration per Run 1	22.4448 ppm	95.9410 %	88.2849 %	78.4885 %	95.3157 %	81.2616 %	87.0568 %
Concentration per Run 2	22.4835 ppm	97.3277 %	88.4627 %	78.8490 %	96.4515 %	81.6952 %	87.2957 %
Concentration per Run 3	13.9766 ppm	95.2489 %	88.2152 %	128.0652 %	94.8255 %	124.2699 %	87.5055 %
Recovery Percentage 1	98.175 %						
Concentration RSD	25.0 %	1.1 %	0.1 %	30.0 %	0.9 %	25.8 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: SIC Multi
Analysis started at: 9/20/2024 9:46:22 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0015 ppm	0.0128 ppm	-0.0017 ppm	0.0087 ppm	0.0004 ppm	-0.0009 ppm	0.0138 ppm
Concentration per Run 1	0.0015 ppm	0.0119 ppm	-0.0007 ppm	0.0084 ppm	0.0004 ppm	-0.0009 ppm	0.0125 ppm
Concentration per Run 2	0.0018 ppm	0.0141 ppm	-0.0027 ppm	0.0089 ppm	0.0004 ppm	-0.0008 ppm	0.0164 ppm
Concentration per Run 3	0.0012 ppm	0.0124 ppm	-0.0016 ppm	0.0087 ppm	0.0004 ppm	-0.0010 ppm	0.0125 ppm
Recovery Percentage 1	21.274 %	12.792 %	-33.258 %	28.889 %	4.134 %	-18.435 %	13.797 %
Concentration RSD	20.3 %	9.1 %	60.4 %	3.0 %	4.9 %	9.3 %	16.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	-0.0036 ppm	20.1560 ppm	-0.0034 ppm	-0.0102 ppm	-0.0269 ppm	-0.0005 ppm
Concentration per Run 1	-0.0009 ppm	-0.0036 ppm	20.2572 ppm	-0.0033 ppm	-0.0091 ppm	-0.0420 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	-0.0036 ppm	20.1773 ppm	-0.0035 ppm	-0.0103 ppm	-0.0082 ppm	-0.0006 ppm
Concentration per Run 3	-0.0009 ppm	-0.0035 ppm	20.0334 ppm	-0.0034 ppm	-0.0111 ppm	-0.0305 ppm	-0.0006 ppm
Recovery Percentage 1	-23.609 %	-17.787 %	201,559.796 %	-33.898 %	-20.339 %	-1.076 %	-4.500 %
Concentration RSD	4.0 %	1.2 %	0.6 %	3.5 %	9.7 %	63.8 %	67.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0198 ppm	20.1948 [SIC 30]	-0.0021 ppm	0.0111 ppm	0.0010 ppm	0.0036 ppm	-0.0145 ppm
Concentration per Run 1	-0.0193 ppm	20.4229 ppm	-0.0021 ppm	0.0095 ppm	0.0010 ppm	0.0038 ppm	-0.0155 ppm
Concentration per Run 2	-0.0205 ppm	20.0259 ppm	-0.0021 ppm	0.0124 ppm	0.0009 ppm	0.0035 ppm	-0.0134 ppm
Concentration per Run 3	-0.0196 ppm	20.1356 ppm	-0.0021 ppm	0.0113 ppm	0.0012 ppm	0.0036 ppm	-0.0146 ppm
Recovery Percentage 1	-19.812 %	201,947.764 %	-4.188 %	0.553 %	4.082 %	36.331 %	-29.064 %
Concentration RSD	3.1 %	1.0 %	1.5 %	13.1 %	16.2 %	4.0 %	7.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	0.2512 ppm	-0.0024 ppm	0.0001 ppm	19.8756 ppm	-0.0302 ppm	10.1403 [SIC 10]
Concentration per Run 1	0.0000 ppm	0.2511 ppm	-0.0021 ppm	0.0001 ppm	19.8654 ppm	-0.0310 ppm	10.1095 ppm
Concentration per Run 2	-0.0005 ppm	0.2521 ppm	-0.0024 ppm	0.0001 ppm	19.8866 ppm	-0.0303 ppm	10.1922 ppm
Concentration per Run 3	0.0023 ppm	0.2505 ppm	-0.0026 ppm	0.0001 ppm	19.8749 ppm	-0.0292 ppm	10.1193 ppm
Recovery Percentage 1	5.910 %	50.246 %	-4.759 %	1.044 %	198,756.251 %	-150.937 %	101,403.378 %
Concentration RSD	251.0 %	0.3 %	11.2 %	16.4 %	0.1 %	3.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0016 ppm	95.3024 %	99.6441 %	105.0436 %	96.2763 %	101.3101 %	100.0681 %
Concentration per Run 1	-0.0016 ppm	95.3105 %	99.7528 %	105.2828 %	96.7684 %	101.3784 %	100.1128 %
Concentration per Run 2	-0.0015 ppm	94.6917 %	99.4877 %	104.7006 %	96.1241 %	101.2132 %	99.8210 %
Concentration per Run 3	-0.0019 ppm	95.9051 %	99.6919 %	105.1473 %	95.9363 %	101.3389 %	100.2706 %
Recovery Percentage 1	-32.641 %						
Concentration RSD	12.9 %	0.6 %	0.1 %	0.3 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LLOQ 005 Zn pass
Analysis started at: 9/20/2024 9:54:41 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0051 ppm	**0.0132 ppm**	0.0051 ppm	**0.0038 ppm**	0.0050 ppm	0.0051 ppm	0.0145 ppm
Concentration per Run 1	0.0050 ppm	0.0146 ppm	0.0047 ppm	0.0038 ppm	0.0049 ppm	0.0050 ppm	0.0145 ppm
Concentration per Run 2	0.0051 ppm	0.0151 ppm	0.0051 ppm	0.0039 ppm	0.0050 ppm	0.0050 ppm	0.0132 ppm
Concentration per Run 3	0.0052 ppm	0.0100 ppm	0.0056 ppm	0.0039 ppm	0.0052 ppm	0.0051 ppm	0.0157 ppm
Recovery Percentage 1	102.297 %	264.769 %	102.326 %	76.855 %	100.337 %	101.135 %	0.000 %
Concentration RSD	1.6 %	**21.1 %**	9.0 %	**1.1 %**	2.7 %	1.5 %	8.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0053 ppm	0.0052 ppm	0.0052 ppm	0.0047 ppm	0.0052 ppm	0.0271 ppm	**0.0035 ppm**
Concentration per Run 1	0.0052 ppm	0.0051 ppm	0.0052 ppm	0.0044 ppm	0.0054 ppm	0.0234 ppm	0.0037 ppm
Concentration per Run 2	0.0053 ppm	0.0053 ppm	0.0053 ppm	0.0048 ppm	0.0049 ppm	0.0299 ppm	0.0034 ppm
Concentration per Run 3	0.0053 ppm	0.0052 ppm	0.0051 ppm	0.0047 ppm	0.0054 ppm	0.0281 ppm	0.0034 ppm
Recovery Percentage 1	105.254 %	103.848 %	104.003 %	93.118 %	104.931 %	0.000 %	70.166 %
Concentration RSD	0.4 %	1.2 %	2.5 %	4.2 %	5.4 %	12.3 %	**5.8 %**

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0078 ppm	0.0052 ppm	0.0050 ppm	0.1029 ppm	0.0050 ppm	0.0055 ppm	0.0049 ppm
Concentration per Run 1	0.0092 ppm	0.0054 ppm	0.0051 ppm	0.1031 ppm	0.0051 ppm	0.0053 ppm	0.0046 ppm
Concentration per Run 2	0.0071 ppm	0.0052 ppm	0.0050 ppm	0.1012 ppm	0.0049 ppm	0.0057 ppm	0.0061 ppm
Concentration per Run 3	0.0070 ppm	0.0051 ppm	0.0050 ppm	0.1045 ppm	0.0048 ppm	0.0055 ppm	0.0040 ppm
Recovery Percentage 1	0.000 %	104.682 %	100.853 %	0.000 %	99.275 %	109.486 %	97.288 %
Concentration RSD	16.0 %	2.6 %	1.7 %	1.6 %	2.7 %	3.8 %	22.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	**0.0572 ppm**	0.0052 ppm	0.0048 ppm	0.0052 ppm	0.0055 ppm	0.0051 ppm
Concentration per Run 1	0.0054 ppm	0.0569 ppm	0.0054 ppm	0.0048 ppm	0.0051 ppm	0.0054 ppm	0.0051 ppm
Concentration per Run 2	0.0059 ppm	0.0576 ppm	0.0053 ppm	0.0048 ppm	0.0054 ppm	0.0060 ppm	0.0051 ppm
Concentration per Run 3	0.0060 ppm	0.0572 ppm	0.0049 ppm	0.0049 ppm	0.0052 ppm	0.0050 ppm	0.0051 ppm
Recovery Percentage 1	115.546 %	1,144.513 %	104.003 %	96.658 %	104.411 %	109.839 %	102.395 %
Concentration RSD	5.2 %	**0.5 %**	4.6 %	1.2 %	2.5 %	9.2 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0060 ppm	96.1095 %	99.1631 %	103.7059 %	97.0617 %	102.4658 %	99.4508 %
Concentration per Run 1	0.0058 ppm	96.5517 %	99.0515 %	103.9138 %	98.6087 %	102.3343 %	99.4066 %
Concentration per Run 2	0.0060 ppm	95.9605 %	99.4954 %	103.6084 %	97.1193 %	102.4436 %	99.1044 %
Concentration per Run 3	0.0061 ppm	95.8163 %	98.9423 %	103.5956 %	95.4570 %	102.6195 %	99.8413 %
Recovery Percentage 1	119.245 %						
Concentration RSD	2.5 %	0.4 %	0.3 %	0.2 %	1.6 %	0.1 %	0.4 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LLOQ 05 Fe pass
Analysis started at: 9/20/2024 10:01:03 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0493 ppm	0.0519 ppm	0.0473 ppm	0.0462 ppm	0.0475 ppm	0.0486 ppm	0.0567 ppm
Concentration per Run 1	0.0494 ppm	0.0538 ppm	0.0473 ppm	0.0464 ppm	0.0463 ppm	0.0474 ppm	0.0573 ppm
Concentration per Run 2	0.0493 ppm	0.0503 ppm	0.0465 ppm	0.0463 ppm	0.0480 ppm	0.0489 ppm	0.0557 ppm
Concentration per Run 3	0.0492 ppm	0.0517 ppm	0.0481 ppm	0.0460 ppm	0.0482 ppm	0.0494 ppm	0.0572 ppm
Recovery Percentage 1	0.000 %	103.815 %	0.000 %	0.000 %	0.000 %	0.000 %	113.461 %
Concentration RSD	0.3 %	3.4 %	1.7 %	0.5 %	2.2 %	2.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0496 ppm	0.0500 ppm	0.0497 ppm	0.0464 ppm	0.0494 ppm	**0.4928 ppm**	0.0464 ppm
Concentration per Run 1	0.0498 ppm	0.0502 ppm	0.0500 ppm	0.0463 ppm	0.0485 ppm	0.4869 ppm	0.0453 ppm
Concentration per Run 2	0.0495 ppm	0.0498 ppm	0.0495 ppm	0.0462 ppm	0.0496 ppm	0.4820 ppm	0.0463 ppm
Concentration per Run 3	0.0496 ppm	0.0499 ppm	0.0496 ppm	0.0465 ppm	0.0503 ppm	0.5095 ppm	0.0477 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	98.884 %	19.712 %	0.000 %
Concentration RSD	0.3 %	0.4 %	0.5 %	0.3 %	1.8 %	**3.0 %**	2.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0515 ppm	0.0485 ppm	0.0474 ppm	0.9681 ppm	0.0504 ppm	0.0514 ppm	0.0489 ppm
Concentration per Run 1	0.0519 ppm	0.0476 ppm	0.0476 ppm	0.9475 ppm	0.0507 ppm	0.0515 ppm	0.0496 ppm
Concentration per Run 2	0.0513 ppm	0.0486 ppm	0.0473 ppm	0.9731 ppm	0.0502 ppm	0.0517 ppm	0.0490 ppm
Concentration per Run 3	0.0514 ppm	0.0494 ppm	0.0474 ppm	0.9837 ppm	0.0502 ppm	0.0508 ppm	0.0481 ppm
Recovery Percentage 1	103.078 %	0.000 %	0.000 %	96.812 %	0.000 %	0.000 %	97.801 %
Concentration RSD	0.7 %	1.9 %	0.3 %	1.9 %	0.6 %	0.9 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0505 ppm	0.5412 ppm	0.0483 ppm	0.0463 ppm	0.0490 ppm	**0.0515 ppm**	0.0481 ppm
Concentration per Run 1	0.0504 ppm	0.5424 ppm	0.0480 ppm	0.0453 ppm	0.0492 ppm	0.0520 ppm	0.0483 ppm
Concentration per Run 2	0.0514 ppm	0.5417 ppm	0.0486 ppm	0.0467 ppm	0.0488 ppm	0.0513 ppm	0.0477 ppm
Concentration per Run 3	0.0497 ppm	0.5394 ppm	0.0482 ppm	0.0469 ppm	0.0489 ppm	0.0512 ppm	0.0483 ppm
Recovery Percentage 1	0.000 %	108.232 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.7 %	0.3 %	0.6 %	1.9 %	0.4 %	0.8 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0510 ppm	97.3334 %	100.8281 %	105.1949 %	98.8200 %	104.1255 %	101.1476 %
Concentration per Run 1	0.0513 ppm	96.9512 %	100.9083 %	105.1960 %	100.5181 %	104.2715 %	101.1236 %
Concentration per Run 2	0.0510 ppm	98.2033 %	100.9835 %	105.2277 %	98.8033 %	104.1589 %	101.4087 %
Concentration per Run 3	0.0509 ppm	96.8459 %	100.5925 %	105.1609 %	97.1385 %	103.9460 %	100.9104 %
Recovery Percentage 1	102.068 %						
Concentration RSD	0.4 %	0.8 %	0.2 %	0.0 %	1.7 %	0.2 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LDR 500 Ca pass
Analysis started at: 9/20/2024 10:07:17 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0171 ppm	-0.0016 ppm	0.0006 ppm	0.0005 ppm	-0.0004 ppm	521.0936 [SIC 1000]
Concentration per Run 1	0.0003 ppm	0.0212 ppm	-0.0011 ppm	0.0007 ppm	0.0004 ppm	-0.0005 ppm	515.3977 ppm
Concentration per Run 2	0.0000 ppm	0.0158 ppm	-0.0010 ppm	0.0005 ppm	0.0006 ppm	-0.0004 ppm	523.9844 ppm
Concentration per Run 3	0.0001 ppm	0.0142 ppm	-0.0029 ppm	0.0006 ppm	0.0005 ppm	-0.0004 ppm	523.8988 ppm
Concentration RSD	106.3 %	21.6 %	66.5 %	15.2 %	25.3 %	4.7 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	-0.0094 ppm	-0.0054 ppm
Concentration per Run 1	-0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0003 ppm	0.0041 ppm	-0.0053 ppm
Concentration per Run 2	-0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm	-0.0005 ppm	-0.0095 ppm	-0.0052 ppm
Concentration per Run 3	-0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	-0.0228 ppm	-0.0059 ppm
Concentration RSD	3.5 %	35.3 %	56.5 %	21.4 %	260.6 %	142.4 %	7.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0111 ppm	-0.0007 ppm	0.0120 ppm	0.0077 ppm
Concentration per Run 1	-0.0018 ppm	0.0001 ppm	0.0004 ppm	0.0115 ppm	-0.0006 ppm	0.0124 ppm	0.0080 ppm
Concentration per Run 2	0.0026 ppm	0.0003 ppm	0.0002 ppm	0.0077 ppm	-0.0009 ppm	0.0114 ppm	0.0078 ppm
Concentration per Run 3	-0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0140 ppm	-0.0007 ppm	0.0122 ppm	0.0073 ppm
Concentration RSD	1,702.0 %	54.6 %	65.4 %	28.5 %	25.4 %	4.4 %	4.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	0.0063 ppm	0.0002 ppm	-0.0008 ppm	-0.0043 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0018 ppm	0.0062 ppm	0.0003 ppm	-0.0007 ppm	-0.0042 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 2	0.0014 ppm	0.0066 ppm	0.0002 ppm	-0.0009 ppm	-0.0043 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 3	0.0014 ppm	0.0060 ppm	0.0002 ppm	-0.0008 ppm	-0.0045 ppm	0.0011 ppm	0.0003 ppm
Concentration RSD	16.2 %	5.3 %	19.8 %	10.8 %	3.5 %	186.4 %	24.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0037 ppm	89.5649 %	89.0970 %	91.7062 %	91.2907 %	79.1200 %	89.1513 %
Concentration per Run 1	-0.0037 ppm	90.0637 %	88.9475 %	91.3990 %	92.7651 %	78.7803 %	89.2500 %
Concentration per Run 2	-0.0036 ppm	89.0242 %	88.9599 %	91.7110 %	90.4530 %	79.0638 %	89.1203 %
Concentration per Run 3	-0.0037 ppm	89.6070 %	89.3836 %	92.0086 %	90.6541 %	79.5159 %	89.0835 %
Concentration RSD	1.7 %	0.6 %	0.3 %	0.3 %	1.4 %	0.5 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LDR 500 Na pass
Analysis started at: 9/20/2024 10:13:46 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0070 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0149 ppm
Concentration per Run 1	-0.0001 ppm	0.0049 ppm	-0.0009 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 2	-0.0006 ppm	0.0065 ppm	0.0010 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0157 ppm
Concentration per Run 3	-0.0001 ppm	0.0096 ppm	0.0008 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0140 ppm
Concentration RSD	132.1 %	34.1 %	337.2 %	51.0 %	48.7 %	168.8 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0118 ppm	-0.0128 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0023 ppm	-0.0137 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0120 ppm	-0.0117 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0257 ppm	-0.0130 ppm
Concentration RSD	425.6 %	43.2 %	452.4 %	52.2 %	65.3 %	118.6 %	7.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0024 ppm	0.0000 ppm	0.0002 ppm	449.2872 ppm	-0.0008 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0032 ppm	0.0000 ppm	0.0003 ppm	453.9426 ppm	-0.0007 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 2	0.0013 ppm	0.0001 ppm	0.0001 ppm	443.6260 ppm	-0.0010 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 3	0.0028 ppm	0.0001 ppm	0.0002 ppm	450.2929 ppm	-0.0009 ppm	0.0005 ppm	0.0011 ppm
Concentration RSD	39.9 %	178.1 %	59.2 %	1.2 %	20.0 %	25.2 %	6.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	-0.0004 ppm	0.0005 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration RSD	1,795.7 %	287.6 %	40.8 %	130.4 %	235.7 %	921.5 %	158.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	94.4967 %	88.6030 %	94.3467 %	96.1917 %	81.3428 %	88.7370 %
Concentration per Run 1	0.0007 ppm	93.3844 %	88.6531 %	94.4859 %	96.4339 %	81.5804 %	88.2842 %
Concentration per Run 2	0.0008 ppm	95.4586 %	88.7402 %	94.1168 %	96.6447 %	81.1486 %	89.3272 %
Concentration per Run 3	0.0007 ppm	94.6471 %	88.4157 %	94.4374 %	95.4966 %	81.2995 %	88.5995 %
Concentration RSD	4.0 %	1.1 %	0.2 %	0.2 %	0.6 %	0.3 %	0.6 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LDR 20 B
Analysis started at: 9/20/2024 10:20:18 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0050 ppm	0.0020 ppm	19.8585 [SIC 20]	0.0001 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 1	-0.0001 ppm	0.0043 ppm	0.0025 ppm	19.5917 ppm	0.0000 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 2	-0.0004 ppm	0.0054 ppm	0.0021 ppm	19.6472 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 3	-0.0002 ppm	0.0054 ppm	0.0013 ppm	20.3365 ppm	0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	56.4 %	13.2 %	32.3 %	2.1 %	16.5 %	1,924.9 %	17.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0006 ppm	-0.0068 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0111 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	-0.0011 ppm	-0.0148 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	-0.0007 ppm	0.0056 ppm	0.0015 ppm
Concentration RSD	79.0 %	14,133.7 %	77.7 %	8.3 %	98.2 %	160.8 %	10.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0016 ppm	0.0000 ppm	0.0001 ppm	0.0503 ppm	-0.0003 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.0033 ppm	-0.0001 ppm	0.0001 ppm	0.0547 ppm	-0.0002 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0511 ppm	-0.0004 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0453 ppm	-0.0004 ppm	0.0002 ppm	-0.0004 ppm
Concentration RSD	90.0 %	745.2 %	51.9 %	9.4 %	30.5 %	143.1 %	65.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	-0.0011 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0012 ppm	0.0006 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0018 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	-0.0008 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm
Concentration RSD	41.0 %	27.6 %	87.7 %	239.0 %	35.9 %	227.4 %	226.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	97.9586 %	101.1072 %	104.2509 %	99.2591 %	103.2114 %	100.9784 %
Concentration per Run 1	0.0007 ppm	98.2224 %	100.9210 %	104.9010 %	100.0711 %	103.5810 %	100.5970 %
Concentration per Run 2	0.0004 ppm	98.2550 %	100.9225 %	105.4041 %	99.3447 %	104.3208 %	100.8054 %
Concentration per Run 3	0.0005 ppm	97.3985 %	101.4781 %	102.4475 %	98.3614 %	101.7323 %	101.5328 %
Concentration RSD	30.4 %	0.5 %	0.3 %	1.5 %	0.9 %	1.3 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 10:28:06 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5149 ppm	0.5063 ppm	0.5029 ppm	0.5194 ppm	0.4943 ppm	0.5104 ppm	0.5109 ppm
Concentration per Run 1	0.5144 ppm	0.4954 ppm	0.5025 ppm	0.5199 ppm	0.4849 ppm	0.5003 ppm	0.5038 ppm
Concentration per Run 2	0.5147 ppm	0.5156 ppm	0.5018 ppm	0.5175 ppm	0.5012 ppm	0.5172 ppm	0.5125 ppm
Concentration per Run 3	0.5157 ppm	0.5077 ppm	0.5045 ppm	0.5208 ppm	0.4968 ppm	0.5137 ppm	0.5164 ppm
Recovery Percentage 1	102.988 %	101.252 %	100.589 %	103.878 %	98.862 %	102.075 %	102.176 %
Concentration RSD	0.1 %	2.0 %	0.3 %	0.3 %	1.7 %	1.7 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5176 ppm	0.5186 ppm	0.5132 ppm	0.4830 ppm	0.5075 ppm	5.1976 ppm	0.4852 ppm
Concentration per Run 1	0.5167 ppm	0.5176 ppm	0.5156 ppm	0.4814 ppm	0.4957 ppm	5.1102 ppm	0.4756 ppm
Concentration per Run 2	0.5172 ppm	0.5178 ppm	0.5130 ppm	0.4846 ppm	0.5177 ppm	5.2572 ppm	0.4925 ppm
Concentration per Run 3	0.5189 ppm	0.5204 ppm	0.5109 ppm	0.4830 ppm	0.5091 ppm	5.2255 ppm	0.4876 ppm
Recovery Percentage 1	103.518 %	103.716 %	102.632 %	96.604 %	101.495 %	103.952 %	97.047 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.3 %	2.2 %	1.5 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5180 ppm	0.5020 ppm	0.4977 ppm	9.8550 ppm	0.5189 ppm	0.5224 ppm	0.5091 ppm
Concentration per Run 1	0.5235 ppm	0.4901 ppm	0.4963 ppm	9.6845 ppm	0.5192 ppm	0.5217 ppm	0.5084 ppm
Concentration per Run 2	0.5142 ppm	0.5073 ppm	0.4967 ppm	9.9997 ppm	0.5175 ppm	0.5223 ppm	0.5077 ppm
Concentration per Run 3	0.5163 ppm	0.5085 ppm	0.5000 ppm	9.8808 ppm	0.5199 ppm	0.5232 ppm	0.5111 ppm
Recovery Percentage 1	103.601 %	100.395 %	99.533 %	98.550 %	103.773 %	104.481 %	101.812 %
Concentration RSD	0.9 %	2.1 %	0.4 %	1.6 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5138 ppm	5.5870 ppm	0.4918 ppm	0.4692 ppm	0.5127 ppm	0.5257 ppm	0.5036 ppm
Concentration per Run 1	0.5129 ppm	5.5771 ppm	0.4900 ppm	0.4602 ppm	0.5135 ppm	0.5234 ppm	0.5050 ppm
Concentration per Run 2	0.5141 ppm	5.5749 ppm	0.4910 ppm	0.4757 ppm	0.5143 ppm	0.5250 ppm	0.5043 ppm
Concentration per Run 3	0.5144 ppm	5.6088 ppm	0.4943 ppm	0.4716 ppm	0.5105 ppm	0.5287 ppm	0.5014 ppm
Recovery Percentage 1	102.760 %	106.418 %	98.351 %	93.834 %	102.547 %	105.146 %	100.714 %
Concentration RSD	0.2 %	0.3 %	0.5 %	1.7 %	0.4 %	0.5 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5300 ppm	95.4193 %	97.7732 %	101.5233 %	96.0964 %	98.9896 %	97.6594 %
Concentration per Run 1	0.5292 ppm	96.8239 %	97.5811 %	101.5984 %	98.9693 %	98.7663 %	97.4378 %
Concentration per Run 2	0.5291 ppm	94.8164 %	98.0945 %	101.7081 %	94.5062 %	99.2851 %	97.6700 %
Concentration per Run 3	0.5316 ppm	94.6175 %	97.6441 %	101.2635 %	94.8138 %	98.9174 %	97.8703 %
Recovery Percentage 1	105.998 %						
Concentration RSD	0.3 %	1.3 %	0.3 %	0.2 %	2.6 %	0.3 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 10:34:09 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0111 ppm	0.0002 ppm	0.0096 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	0.0136 ppm	0.0009 ppm	0.0103 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	-0.0001 ppm	0.0102 ppm	-0.0004 ppm	0.0093 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 3	-0.0006 ppm	0.0094 ppm	0.0002 ppm	0.0092 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Recovery Percentage 1	-3.993 %	11.065 %	4.581 %	31.946 %	0.193 %	-0.345 %	0.479 %
Concentration RSD	99.4 %	19.9 %	270.9 %	6.2 %	230.4 %	129.4 %	503.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	-0.0127 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	-0.0186 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0026 ppm	-0.0017 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0017 ppm	-0.0179 ppm	0.0005 ppm
Recovery Percentage 1	0.303 %	0.119 %	-0.038 %	-0.473 %	3.664 %	-0.509 %	8.920 %
Concentration RSD	160.9 %	252.3 %	7,937.6 %	110.5 %	37.8 %	75.3 %	38.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0086 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0100 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 2	0.0015 ppm	-0.0002 ppm	0.0002 ppm	0.0064 ppm	-0.0005 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0095 ppm	-0.0003 ppm	0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	0.732 %	-0.860 %	0.342 %	0.431 %	-1.443 %	2.963 %	0.059 %
Concentration RSD	140.5 %	173.0 %	10.4 %	22.7 %	40.1 %	155.4 %	1,972.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	-0.0009 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	6.677 %	-0.191 %	-0.088 %	0.013 %	-0.831 %	0.574 %	-0.016 %
Concentration RSD	44.7 %	25.3 %	1,179.9 %	591.0 %	178.2 %	124.0 %	3,563.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	96.0542 %	99.3346 %	102.4357 %	95.3827 %	102.0102 %	98.2049 %
Concentration per Run 1	0.0005 ppm	95.6359 %	99.4893 %	102.9540 %	96.8860 %	102.2344 %	98.4388 %
Concentration per Run 2	0.0005 ppm	96.9169 %	99.2422 %	102.2527 %	95.0460 %	101.9971 %	98.0422 %
Concentration per Run 3	0.0003 ppm	95.6098 %	99.2722 %	102.1003 %	94.2160 %	101.7990 %	98.1337 %
Recovery Percentage 1	8.985 %						
Concentration RSD	27.0 %	0.8 %	0.1 %	0.4 %	1.4 %	0.2 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-1 WG1973498
Analysis started at: 9/20/2024 10:40:33 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0050 ppm	-0.0008 ppm	0.0058 ppm	0.0001 ppm	0.0000 ppm	0.0133 ppm
Concentration per Run 1	-0.0001 ppm	0.0028 ppm	0.0002 ppm	0.0062 ppm	0.0001 ppm	0.0000 ppm	0.0131 ppm
Concentration per Run 2	-0.0002 ppm	0.0086 ppm	-0.0014 ppm	0.0058 ppm	0.0001 ppm	0.0000 ppm	0.0162 ppm
Concentration per Run 3	-0.0004 ppm	0.0037 ppm	-0.0013 ppm	0.0054 ppm	0.0001 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	-3.369 %	5.024 %	-15.845 %	19.266 %	0.873 %	0.146 %	13.328 %
Concentration RSD	73.8 %	62.0 %	112.0 %	6.3 %	23.6 %	374.1 %	20.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm	-0.0028 ppm	-0.0269 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0030 ppm	-0.0287 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	-0.0028 ppm	-0.0106 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0002 ppm	-0.0025 ppm	-0.0416 ppm	-0.0002 ppm
Recovery Percentage 1	-0.130 %	0.288 %	-6.646 %	1.428 %	-5.518 %	-1.078 %	0.732 %
Concentration RSD	268.8 %	212.9 %	11.1 %	39.7 %	9.7 %	57.8 %	495.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0012 ppm	-0.0002 ppm	0.0001 ppm	0.0013 ppm	-0.0006 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0011 ppm	-0.0004 ppm	0.0002 ppm	0.0016 ppm	-0.0007 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0017 ppm	-0.0005 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 3	0.0022 ppm	0.0000 ppm	-0.0001 ppm	0.0040 ppm	-0.0006 ppm	0.0002 ppm	0.0006 ppm
Recovery Percentage 1	1.198 %	-1.562 %	0.104 %	0.065 %	-2.415 %	2.026 %	0.738 %
Concentration RSD	82.1 %	135.7 %	291.8 %	219.6 %	23.2 %	214.3 %	162.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	-0.0012 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0015 ppm	-0.0013 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	-0.0007 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	9.565 %	-0.235 %	-0.697 %	-0.124 %	-0.664 %	0.833 %	-0.730 %
Concentration RSD	93.0 %	40.5 %	82.1 %	220.6 %	209.5 %	123.0 %	117.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.9266 %	100.3879 %	103.9107 %	98.2596 %	104.4543 %	100.6922 %
Concentration per Run 1	0.0003 ppm	100.9351 %	99.9630 %	104.0646 %	102.6496 %	104.8248 %	100.3665 %
Concentration per Run 2	0.0003 ppm	96.0714 %	100.3207 %	103.8552 %	95.9633 %	104.4390 %	100.8385 %
Concentration per Run 3	0.0002 ppm	96.7733 %	100.8799 %	103.8124 %	96.1660 %	104.0991 %	100.8716 %
Recovery Percentage 1	5.346 %						
Concentration RSD	29.1 %	2.7 %	0.5 %	0.1 %	3.9 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-2 WG1973498
Analysis started at: 9/20/2024 10:46:57 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0524 ppm	2.0800 ppm	0.1236 ppm	1.0216 ppm	2.0481 ppm	0.0520 ppm	10.6441 ppm
Concentration per Run 1	0.0524 ppm	2.0548 ppm	0.1241 ppm	1.0220 ppm	1.9876 ppm	0.0513 ppm	10.4603 ppm
Concentration per Run 2	0.0519 ppm	2.0766 ppm	0.1229 ppm	1.0227 ppm	2.0362 ppm	0.0518 ppm	10.6271 ppm
Concentration per Run 3	0.0528 ppm	2.1086 ppm	0.1237 ppm	1.0202 ppm	2.1205 ppm	0.0530 ppm	10.8450 ppm
Concentration RSD	0.9 %	1.3 %	0.5 %	0.1 %	3.3 %	1.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0570 ppm	0.5263 ppm	0.2112 ppm	0.2615 ppm	1.0537 ppm	10.8174 ppm	-0.0003 ppm
Concentration per Run 1	0.0570 ppm	0.5270 ppm	0.2103 ppm	0.2614 ppm	1.0388 ppm	10.7360 ppm	-0.0002 ppm
Concentration per Run 2	0.0569 ppm	0.5257 ppm	0.2112 ppm	0.2609 ppm	1.0470 ppm	10.8810 ppm	-0.0008 ppm
Concentration per Run 3	0.0571 ppm	0.5262 ppm	0.2120 ppm	0.2623 ppm	1.0755 ppm	10.8353 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %	1.8 %	0.7 %	133.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.8693 ppm	0.5275 ppm	1.0393 ppm	10.6056 ppm	0.5310 ppm	0.5643 ppm	0.5225 ppm
Concentration per Run 1	10.8549 ppm	0.5194 ppm	1.0401 ppm	10.5536 ppm	0.5324 ppm	0.5650 ppm	0.5224 ppm
Concentration per Run 2	10.8760 ppm	0.5280 ppm	1.0383 ppm	10.5824 ppm	0.5306 ppm	0.5637 ppm	0.5229 ppm
Concentration per Run 3	10.8771 ppm	0.5351 ppm	1.0395 ppm	10.6808 ppm	0.5301 ppm	0.5641 ppm	0.5221 ppm
Concentration RSD	0.1 %	1.5 %	0.1 %	0.6 %	0.2 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1239 ppm	1.0763 ppm	1.0442 ppm	0.9862 ppm	1.0664 ppm	0.1261 ppm	0.5252 ppm
Concentration per Run 1	0.1227 ppm	1.0778 ppm	1.0473 ppm	0.9755 ppm	1.0631 ppm	0.1278 ppm	0.5239 ppm
Concentration per Run 2	0.1240 ppm	1.0758 ppm	1.0424 ppm	0.9857 ppm	1.0658 ppm	0.1255 ppm	0.5248 ppm
Concentration per Run 3	0.1249 ppm	1.0752 ppm	1.0428 ppm	0.9975 ppm	1.0703 ppm	0.1251 ppm	0.5268 ppm
Concentration RSD	0.9 %	0.1 %	0.3 %	1.1 %	0.3 %	1.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5382 ppm	96.7262 %	98.1707 %	101.1900 %	98.4748 %	97.7629 %	98.1027 %
Concentration per Run 1	0.5388 ppm	97.5335 %	98.3994 %	101.1862 %	100.5417 %	97.8522 %	98.4534 %
Concentration per Run 2	0.5366 ppm	96.5484 %	97.9692 %	101.2509 %	98.4018 %	97.7531 %	98.0663 %
Concentration per Run 3	0.5392 ppm	96.0968 %	98.1436 %	101.1329 %	96.4808 %	97.6834 %	97.7885 %
Concentration RSD	0.3 %	0.8 %	0.2 %	0.1 %	2.1 %	0.1 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2452799-01 WG1973498
Analysis started at: 9/20/2024 10:53:10 AM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0148 ppm	0.0001 ppm	0.0047 ppm	0.0012 ppm	0.0000 ppm	0.0474 ppm
Concentration per Run 1	-0.0001 ppm	0.0183 ppm	-0.0008 ppm	0.0049 ppm	0.0012 ppm	0.0000 ppm	0.0467 ppm
Concentration per Run 2	0.0003 ppm	0.0101 ppm	0.0004 ppm	0.0045 ppm	0.0012 ppm	0.0000 ppm	0.0466 ppm
Concentration per Run 3	0.0000 ppm	0.0162 ppm	0.0007 ppm	0.0046 ppm	0.0013 ppm	0.0000 ppm	0.0488 ppm
Concentration RSD	273.4 %	28.7 %	777.1 %	5.4 %	3.8 %	157.2 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0153 ppm	-0.0128 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0143 ppm	-0.0079 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0161 ppm	-0.0084 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0004 ppm	0.0156 ppm	-0.0222 ppm	-0.0013 ppm
Concentration RSD	8,301.0 %	82.1 %	31.2 %	16.0 %	5.9 %	63.0 %	410.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0093 ppm	0.0002 ppm	0.0007 ppm	0.0092 ppm	-0.0005 ppm	0.0022 ppm	0.0008 ppm
Concentration per Run 1	0.0089 ppm	0.0002 ppm	0.0008 ppm	0.0095 ppm	-0.0005 ppm	0.0022 ppm	0.0017 ppm
Concentration per Run 2	0.0099 ppm	0.0002 ppm	0.0008 ppm	0.0115 ppm	-0.0005 ppm	0.0023 ppm	-0.0002 ppm
Concentration per Run 3	0.0091 ppm	0.0000 ppm	0.0006 ppm	0.0066 ppm	-0.0004 ppm	0.0021 ppm	0.0008 ppm
Concentration RSD	5.4 %	74.3 %	11.3 %	26.9 %	12.2 %	4.3 %	125.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	0.0151 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0011 ppm	0.0153 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	0.0150 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.0149 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	40.0 %	1.4 %	33.4 %	2.9 %	31.7 %	826.0 %	152.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0029 ppm	97.3959 %	99.9694 %	102.6581 %	97.8694 %	103.3778 %	99.6587 %
Concentration per Run 1	0.0029 ppm	98.8780 %	99.7889 %	102.7225 %	100.2535 %	103.3836 %	99.5112 %
Concentration per Run 2	0.0029 ppm	97.4023 %	99.7962 %	102.7134 %	97.4752 %	103.5577 %	99.6657 %
Concentration per Run 3	0.0029 ppm	95.9073 %	100.3232 %	102.5385 %	95.8795 %	103.1920 %	99.7992 %
Concentration RSD	1.5 %	1.5 %	0.3 %	0.1 %	2.3 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2452868-06 WG1973498
Analysis started at: 9/20/2024 10:59:33 AM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0059 ppm	0.0003 ppm	0.0033 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 1	0.0000 ppm	0.0065 ppm	0.0009 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 2	-0.0002 ppm	0.0046 ppm	-0.0002 ppm	0.0030 ppm	0.0000 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 3	0.0001 ppm	0.0064 ppm	0.0002 ppm	0.0032 ppm	0.0002 ppm	0.0000 ppm	0.0117 ppm
Concentration RSD	321.1 %	18.1 %	187.8 %	10.9 %	72.3 %	165.6 %	26.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm	-0.0010 ppm	-0.0368 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0384 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	-0.0009 ppm	-0.0434 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0006 ppm	-0.0001 ppm	-0.0019 ppm	-0.0285 ppm	-0.0005 ppm
Concentration RSD	85.5 %	183.2 %	18.0 %	313.1 %	92.2 %	20.5 %	33.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0021 ppm	-0.0003 ppm	0.0002 ppm	0.0045 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0041 ppm	-0.0003 ppm	0.0003 ppm	0.0072 ppm	-0.0008 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 2	0.0010 ppm	-0.0003 ppm	0.0002 ppm	0.0023 ppm	-0.0006 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0040 ppm	-0.0005 ppm	-0.0001 ppm	0.0005 ppm
Concentration RSD	79.5 %	16.7 %	27.3 %	55.7 %	24.3 %	443.9 %	315.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	0.0038 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0040 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0022 ppm	0.0035 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0026 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration RSD	79.7 %	6.1 %	138.3 %	29.9 %	106.9 %	2.3 %	131.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.5011 %	100.1973 %	103.1828 %	97.6531 %	103.6189 %	100.1653 %
Concentration per Run 1	0.0004 ppm	96.8884 %	100.4415 %	103.2260 %	97.3423 %	104.0994 %	100.2735 %
Concentration per Run 2	0.0003 ppm	99.1440 %	99.9858 %	103.3351 %	99.3214 %	103.4816 %	100.1220 %
Concentration per Run 3	0.0003 ppm	96.4709 %	100.1646 %	102.9872 %	96.2956 %	103.2756 %	100.1005 %
Concentration RSD	2.5 %	1.5 %	0.2 %	0.2 %	1.6 %	0.4 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453058-01 WG1973498
Analysis started at: 9/20/2024 11:05:57 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0026 ppm	-0.0004 ppm	0.0131 ppm	0.0217 ppm	0.0000 ppm	18.1610 ppm
Concentration per Run 1	-0.0006 ppm	0.0052 ppm	0.0001 ppm	0.0131 ppm	0.0212 ppm	0.0000 ppm	17.6413 ppm
Concentration per Run 2	0.0001 ppm	0.0024 ppm	-0.0009 ppm	0.0130 ppm	0.0221 ppm	0.0000 ppm	18.4389 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0130 ppm	0.0219 ppm	0.0000 ppm	18.4028 ppm
Concentration RSD	202.9 %	97.7 %	124.3 %	0.4 %	2.1 %	49.2 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0826 ppm	1.7127 ppm	-0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0802 ppm	1.6728 ppm	-0.0014 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0846 ppm	1.7686 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0831 ppm	1.6965 ppm	-0.0008 ppm
Concentration RSD	19.4 %	17.8 %	143.9 %	21.7 %	2.7 %	2.9 %	28.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2615 ppm	0.0562 ppm	0.0003 ppm	2.3710 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	3.2626 ppm	0.0541 ppm	0.0002 ppm	2.3222 ppm	-0.0003 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	3.2655 ppm	0.0572 ppm	0.0004 ppm	2.3988 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	3.2563 ppm	0.0572 ppm	0.0002 ppm	2.3921 ppm	-0.0007 ppm	-0.0003 ppm	0.0005 ppm
Concentration RSD	0.1 %	3.2 %	48.1 %	1.8 %	38.1 %	900.3 %	60.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	4.4514 ppm	-0.0003 ppm	0.0530 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0020 ppm	4.4480 ppm	-0.0001 ppm	0.0517 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	4.4740 ppm	-0.0001 ppm	0.0536 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0019 ppm	4.4323 ppm	-0.0008 ppm	0.0536 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration RSD	78.6 %	0.5 %	120.0 %	2.1 %	45.4 %	687.6 %	17.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	98.2435 %	98.8773 %	101.8911 %	98.2034 %	99.9015 %	98.1620 %
Concentration per Run 1	0.0015 ppm	100.4876 %	98.7589 %	102.1407 %	101.2667 %	100.2053 %	98.0686 %
Concentration per Run 2	0.0014 ppm	96.8964 %	99.2269 %	101.5812 %	96.3810 %	99.8879 %	98.6743 %
Concentration per Run 3	0.0014 ppm	97.3464 %	98.6461 %	101.9515 %	96.9624 %	99.6114 %	97.7432 %
Concentration RSD	3.1 %	2.0 %	0.3 %	0.3 %	2.7 %	0.3 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-3 WG1973498
Analysis started at: 9/20/2024 11:12:17 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0517 ppm	2.0442 ppm	0.1212 ppm	1.0121 ppm	2.0482 ppm	0.0514 ppm	28.2395 ppm
Concentration per Run 1	0.0515 ppm	2.0189 ppm	0.1199 ppm	1.0127 ppm	2.0191 ppm	0.0510 ppm	28.0275 ppm
Concentration per Run 2	0.0516 ppm	2.0626 ppm	0.1213 ppm	1.0133 ppm	2.0619 ppm	0.0517 ppm	28.3258 ppm
Concentration per Run 3	0.0520 ppm	2.0512 ppm	0.1223 ppm	1.0105 ppm	2.0637 ppm	0.0515 ppm	28.3651 ppm
Concentration RSD	0.6 %	1.1 %	1.0 %	0.1 %	1.2 %	0.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0544 ppm	0.5029 ppm	0.2047 ppm	0.2554 ppm	1.1156 ppm	12.3204 ppm	-0.0012 ppm
Concentration per Run 1	0.0544 ppm	0.5033 ppm	0.2045 ppm	0.2562 ppm	1.1057 ppm	12.1853 ppm	-0.0014 ppm
Concentration per Run 2	0.0544 ppm	0.5031 ppm	0.2060 ppm	0.2549 ppm	1.1236 ppm	12.3291 ppm	-0.0011 ppm
Concentration per Run 3	0.0544 ppm	0.5024 ppm	0.2037 ppm	0.2551 ppm	1.1176 ppm	12.4468 ppm	-0.0013 ppm
Concentration RSD	0.0 %	0.1 %	0.6 %	0.3 %	0.8 %	1.1 %	13.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.6940 ppm	0.5676 ppm	0.9935 ppm	12.7033 ppm	0.5068 ppm	0.5374 ppm	0.5102 ppm
Concentration per Run 1	13.6656 ppm	0.5636 ppm	0.9923 ppm	12.5659 ppm	0.5068 ppm	0.5373 ppm	0.5100 ppm
Concentration per Run 2	13.7542 ppm	0.5686 ppm	0.9929 ppm	12.8057 ppm	0.5068 ppm	0.5380 ppm	0.5115 ppm
Concentration per Run 3	13.6624 ppm	0.5705 ppm	0.9952 ppm	12.7385 ppm	0.5069 ppm	0.5370 ppm	0.5092 ppm
Concentration RSD	0.4 %	0.6 %	0.2 %	1.0 %	0.0 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1234 ppm	5.4440 ppm	0.9966 ppm	1.0114 ppm	1.0312 ppm	0.1213 ppm	0.5090 ppm
Concentration per Run 1	0.1219 ppm	5.4499 ppm	0.9968 ppm	1.0006 ppm	1.0311 ppm	0.1213 ppm	0.5086 ppm
Concentration per Run 2	0.1250 ppm	5.4485 ppm	0.9978 ppm	1.0186 ppm	1.0373 ppm	0.1218 ppm	0.5120 ppm
Concentration per Run 3	0.1232 ppm	5.4336 ppm	0.9953 ppm	1.0148 ppm	1.0252 ppm	0.1210 ppm	0.5062 ppm
Concentration RSD	1.3 %	0.2 %	0.1 %	0.9 %	0.6 %	0.3 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5169 ppm	97.6001 %	98.5120 %	101.7551 %	97.9014 %	97.0959 %	97.8984 %
Concentration per Run 1	0.5166 ppm	97.4670 %	98.4142 %	101.4581 %	98.7687 %	96.7714 %	97.8700 %
Concentration per Run 2	0.5161 ppm	97.7975 %	98.6633 %	101.7672 %	97.3971 %	97.3322 %	97.6625 %
Concentration per Run 3	0.5181 ppm	97.5358 %	98.4585 %	102.0402 %	97.5384 %	97.1841 %	98.1627 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.3 %	0.8 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-4 WG1973498
Analysis started at: 9/20/2024 11:18:30 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0529 ppm	2.1179 ppm	0.1262 ppm	1.0548 ppm	2.1155 ppm	0.0532 ppm	29.1374 ppm
Concentration per Run 1	0.0527 ppm	2.1016 ppm	0.1235 ppm	1.0357 ppm	2.1084 ppm	0.0525 ppm	28.7251 ppm
Concentration per Run 2	0.0527 ppm	2.1174 ppm	0.1269 ppm	1.0704 ppm	2.1527 ppm	0.0535 ppm	29.3336 ppm
Concentration per Run 3	0.0532 ppm	2.1349 ppm	0.1281 ppm	1.0583 ppm	2.0855 ppm	0.0535 ppm	29.3536 ppm
Concentration RSD	0.5 %	0.8 %	1.9 %	1.7 %	1.6 %	1.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0566 ppm	0.5234 ppm	0.2102 ppm	0.2635 ppm	1.1504 ppm	12.6590 ppm	-0.0003 ppm
Concentration per Run 1	0.0556 ppm	0.5142 ppm	0.2100 ppm	0.2633 ppm	1.1349 ppm	12.5210 ppm	-0.0005 ppm
Concentration per Run 2	0.0573 ppm	0.5310 ppm	0.2101 ppm	0.2632 ppm	1.1569 ppm	12.7318 ppm	0.0002 ppm
Concentration per Run 3	0.0569 ppm	0.5250 ppm	0.2104 ppm	0.2639 ppm	1.1596 ppm	12.7243 ppm	-0.0006 ppm
Concentration RSD	1.5 %	1.6 %	0.1 %	0.1 %	1.2 %	0.9 %	130.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.1025 ppm	0.5864 ppm	1.0338 ppm	13.0912 ppm	0.5267 ppm	0.5600 ppm	0.5322 ppm
Concentration per Run 1	14.0914 ppm	0.5774 ppm	1.0141 ppm	13.0191 ppm	0.5164 ppm	0.5511 ppm	0.5227 ppm
Concentration per Run 2	14.1254 ppm	0.5883 ppm	1.0487 ppm	13.1231 ppm	0.5343 ppm	0.5681 ppm	0.5414 ppm
Concentration per Run 3	14.0907 ppm	0.5935 ppm	1.0385 ppm	13.1314 ppm	0.5293 ppm	0.5609 ppm	0.5326 ppm
Concentration RSD	0.1 %	1.4 %	1.7 %	0.5 %	1.8 %	1.5 %	1.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1278 ppm	5.6394 ppm	1.0378 ppm	1.0480 ppm	1.0600 ppm	0.1255 ppm	0.5235 ppm
Concentration per Run 1	0.1239 ppm	5.5383 ppm	1.0187 ppm	1.0369 ppm	1.0607 ppm	0.1230 ppm	0.5240 ppm
Concentration per Run 2	0.1290 ppm	5.7226 ppm	1.0528 ppm	1.0523 ppm	1.0605 ppm	0.1272 ppm	0.5246 ppm
Concentration per Run 3	0.1307 ppm	5.6572 ppm	1.0420 ppm	1.0547 ppm	1.0589 ppm	0.1262 ppm	0.5219 ppm
Concentration RSD	2.8 %	1.7 %	1.7 %	0.9 %	0.1 %	1.8 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5372 ppm	96.9235 %	98.6211 %	100.5230 %	97.7606 %	96.4689 %	97.8218 %
Concentration per Run 1	0.5283 ppm	97.5896 %	98.5980 %	102.1522 %	99.0957 %	97.9499 %	97.7586 %
Concentration per Run 2	0.5427 ppm	96.4988 %	98.7587 %	99.3259 %	97.0791 %	95.2154 %	97.9031 %
Concentration per Run 3	0.5406 ppm	96.6823 %	98.5068 %	100.0910 %	97.1069 %	96.2415 %	97.8038 %
Concentration RSD	1.4 %	0.6 %	0.1 %	1.5 %	1.2 %	1.4 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-5 WG1973498
Analysis started at: 9/20/2024 11:24:42 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0498 ppm	1.9753 ppm	0.1193 ppm	1.0047 ppm	1.9598 ppm	0.0497 ppm	27.6459 ppm
Concentration per Run 1	0.0499 ppm	1.9500 ppm	0.1207 ppm	1.0047 ppm	1.9576 ppm	0.0491 ppm	27.3534 ppm
Concentration per Run 2	0.0493 ppm	1.9785 ppm	0.1194 ppm	1.0067 ppm	1.9616 ppm	0.0497 ppm	27.6690 ppm
Concentration per Run 3	0.0503 ppm	1.9974 ppm	0.1176 ppm	1.0027 ppm	1.9602 ppm	0.0502 ppm	27.9154 ppm
Concentration RSD	1.0 %	1.2 %	1.3 %	0.2 %	0.1 %	1.1 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0529 ppm	0.4894 ppm	0.1976 ppm	0.2474 ppm	1.0775 ppm	12.0956 ppm	-0.0003 ppm
Concentration per Run 1	0.0529 ppm	0.4894 ppm	0.1959 ppm	0.2475 ppm	1.0646 ppm	11.9904 ppm	-0.0004 ppm
Concentration per Run 2	0.0528 ppm	0.4896 ppm	0.1986 ppm	0.2474 ppm	1.0747 ppm	12.1453 ppm	0.0003 ppm
Concentration per Run 3	0.0529 ppm	0.4892 ppm	0.1985 ppm	0.2475 ppm	1.0933 ppm	12.1509 ppm	-0.0009 ppm
Concentration RSD	0.1 %	0.0 %	0.8 %	0.0 %	1.4 %	0.8 %	199.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.4829 ppm	0.5507 ppm	0.9793 ppm	12.4989 ppm	0.4920 ppm	0.5305 ppm	0.4954 ppm
Concentration per Run 1	13.4175 ppm	0.5456 ppm	0.9790 ppm	12.4146 ppm	0.4914 ppm	0.5300 ppm	0.4954 ppm
Concentration per Run 2	13.5076 ppm	0.5504 ppm	0.9809 ppm	12.4928 ppm	0.4930 ppm	0.5310 ppm	0.4984 ppm
Concentration per Run 3	13.5236 ppm	0.5562 ppm	0.9780 ppm	12.5892 ppm	0.4917 ppm	0.5304 ppm	0.4924 ppm
Concentration RSD	0.4 %	1.0 %	0.1 %	0.7 %	0.2 %	0.1 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1208 ppm	5.2751 ppm	0.9971 ppm	0.9970 ppm	1.0156 ppm	0.1191 ppm	0.4927 ppm
Concentration per Run 1	0.1198 ppm	5.2763 ppm	0.9966 ppm	0.9881 ppm	1.0125 ppm	0.1176 ppm	0.4907 ppm
Concentration per Run 2	0.1210 ppm	5.2858 ppm	0.9978 ppm	0.9979 ppm	1.0178 ppm	0.1201 ppm	0.4941 ppm
Concentration per Run 3	0.1215 ppm	5.2632 ppm	0.9968 ppm	1.0049 ppm	1.0167 ppm	0.1195 ppm	0.4932 ppm
Concentration RSD	0.7 %	0.2 %	0.1 %	0.8 %	0.3 %	1.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5014 ppm	97.7078 %	99.0359 %	101.6473 %	98.2303 %	97.5105 %	98.6092 %
Concentration per Run 1	0.5019 ppm	97.9047 %	99.0640 %	101.8322 %	99.5377 %	97.6974 %	98.8494 %
Concentration per Run 2	0.5011 ppm	97.6824 %	99.3406 %	101.2722 %	98.0200 %	97.1260 %	98.7317 %
Concentration per Run 3	0.5012 ppm	97.5363 %	98.7032 %	101.8375 %	97.1332 %	97.7081 %	98.2466 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.3 %	1.2 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973498-6D5 WG1973498
Analysis started at: 9/20/2024 11:30:55 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0065 ppm	-0.0007 ppm	0.0048 ppm	0.0044 ppm	0.0000 ppm	3.7373 ppm
Concentration per Run 1	-0.0003 ppm	0.0067 ppm	0.0002 ppm	0.0049 ppm	0.0043 ppm	0.0000 ppm	3.6812 ppm
Concentration per Run 2	-0.0003 ppm	0.0072 ppm	-0.0008 ppm	0.0048 ppm	0.0044 ppm	0.0000 ppm	3.7480 ppm
Concentration per Run 3	0.0003 ppm	0.0056 ppm	-0.0014 ppm	0.0045 ppm	0.0045 ppm	0.0000 ppm	3.7828 ppm
Concentration RSD	342.2 %	12.1 %	120.3 %	4.9 %	2.0 %	189.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0159 ppm	0.3240 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0152 ppm	0.3172 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0160 ppm	0.3243 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0166 ppm	0.3306 ppm	0.0007 ppm
Concentration RSD	61.1 %	72.5 %	17.5 %	74.3 %	4.4 %	2.1 %	205.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6613 ppm	0.0112 ppm	0.0010 ppm	0.4804 ppm	-0.0005 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.6631 ppm	0.0110 ppm	0.0011 ppm	0.4736 ppm	-0.0006 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 2	0.6612 ppm	0.0113 ppm	0.0011 ppm	0.4867 ppm	-0.0003 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 3	0.6595 ppm	0.0113 ppm	0.0008 ppm	0.4808 ppm	-0.0004 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	0.3 %	1.7 %	18.2 %	1.4 %	29.6 %	51.6 %	10.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.8909 ppm	0.0004 ppm	0.0108 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.8891 ppm	0.0004 ppm	0.0106 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.8904 ppm	0.0005 ppm	0.0108 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.8931 ppm	0.0002 ppm	0.0109 ppm	-0.0003 ppm	-0.0008 ppm	-0.0001 ppm
Concentration RSD	269.2 %	0.2 %	39.9 %	1.5 %	699.6 %	448.2 %	564.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	96.8593 %	99.5284 %	102.4790 %	96.8112 %	102.0226 %	99.2287 %
Concentration per Run 1	0.0007 ppm	97.7957 %	99.1453 %	102.3268 %	98.9925 %	101.8867 %	98.8813 %
Concentration per Run 2	0.0007 ppm	96.8705 %	99.4899 %	102.8998 %	96.4308 %	102.7632 %	99.7187 %
Concentration per Run 3	0.0007 ppm	95.9115 %	99.9501 %	102.2105 %	95.0102 %	101.4178 %	99.0861 %
Concentration RSD	4.2 %	1.0 %	0.4 %	0.4 %	2.1 %	0.7 %	0.4 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 11:37:19 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5106 ppm	0.5070 ppm	0.4977 ppm	0.5060 ppm	0.4968 ppm	0.5078 ppm	0.5123 ppm
Concentration per Run 1	0.5105 ppm	0.4949 ppm	0.4976 ppm	0.5043 ppm	0.4860 ppm	0.4959 ppm	0.4992 ppm
Concentration per Run 2	0.5112 ppm	0.5118 ppm	0.4976 ppm	0.5070 ppm	0.5017 ppm	0.5118 ppm	0.5180 ppm
Concentration per Run 3	0.5101 ppm	0.5143 ppm	0.4978 ppm	0.5068 ppm	0.5027 ppm	0.5157 ppm	0.5197 ppm
Recovery Percentage 1	102.120 %	101.396 %	99.534 %	101.210 %	99.357 %	101.561 %	102.456 %
Concentration RSD	0.1 %	2.1 %	0.0 %	0.3 %	1.9 %	2.1 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5109 ppm	0.5153 ppm	0.5059 ppm	0.4823 ppm	0.5046 ppm	5.1649 ppm	0.4857 ppm
Concentration per Run 1	0.5118 ppm	0.5147 ppm	0.5075 ppm	0.4817 ppm	0.4928 ppm	5.0501 ppm	0.4749 ppm
Concentration per Run 2	0.5101 ppm	0.5157 ppm	0.5053 ppm	0.4839 ppm	0.5080 ppm	5.2272 ppm	0.4908 ppm
Concentration per Run 3	0.5109 ppm	0.5155 ppm	0.5048 ppm	0.4814 ppm	0.5130 ppm	5.2173 ppm	0.4915 ppm
Recovery Percentage 1	102.184 %	103.054 %	101.174 %	96.465 %	100.921 %	103.297 %	97.149 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	2.1 %	1.9 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5095 ppm	0.4991 ppm	0.4946 ppm	9.8061 ppm	0.5143 ppm	0.5181 ppm	0.5087 ppm
Concentration per Run 1	0.5109 ppm	0.4896 ppm	0.4936 ppm	9.5843 ppm	0.5139 ppm	0.5178 ppm	0.5075 ppm
Concentration per Run 2	0.5075 ppm	0.5029 ppm	0.4951 ppm	9.9061 ppm	0.5146 ppm	0.5183 ppm	0.5077 ppm
Concentration per Run 3	0.5102 ppm	0.5047 ppm	0.4950 ppm	9.9278 ppm	0.5144 ppm	0.5182 ppm	0.5108 ppm
Recovery Percentage 1	101.905 %	99.810 %	98.914 %	98.061 %	102.859 %	103.621 %	101.734 %
Concentration RSD	0.4 %	1.7 %	0.2 %	2.0 %	0.1 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5121 ppm	5.5707 ppm	0.4882 ppm	0.4703 ppm	0.5089 ppm	0.5225 ppm	0.5003 ppm
Concentration per Run 1	0.5097 ppm	5.5536 ppm	0.4884 ppm	0.4600 ppm	0.5102 ppm	0.5210 ppm	0.5017 ppm
Concentration per Run 2	0.5148 ppm	5.5820 ppm	0.4866 ppm	0.4747 ppm	0.5092 ppm	0.5231 ppm	0.4997 ppm
Concentration per Run 3	0.5118 ppm	5.5765 ppm	0.4894 ppm	0.4761 ppm	0.5073 ppm	0.5234 ppm	0.4995 ppm
Recovery Percentage 1	102.418 %	106.109 %	97.631 %	94.053 %	101.786 %	104.508 %	100.061 %
Concentration RSD	0.5 %	0.3 %	0.3 %	1.9 %	0.3 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5221 ppm	95.8576 %	97.6394 %	100.5514 %	96.0468 %	98.0885 %	97.1574 %
Concentration per Run 1	0.5232 ppm	95.8796 %	97.9076 %	100.6642 %	97.8946 %	98.2217 %	97.1721 %
Concentration per Run 2	0.5212 ppm	96.0393 %	97.7094 %	100.4102 %	95.6186 %	97.9010 %	97.1766 %
Concentration per Run 3	0.5220 ppm	95.6538 %	97.3013 %	100.5797 %	94.6272 %	98.1428 %	97.1236 %
Recovery Percentage 1	104.428 %						
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	1.7 %	0.2 %	0.0 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 11:43:21 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0080 ppm	-0.0007 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0083 ppm	-0.0010 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0104 ppm	-0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0054 ppm	-0.0008 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	0.442 %	8.009 %	-14.495 %	5.537 %	0.524 %	-0.183 %	-0.086 %
Concentration RSD	463.0 %	31.2 %	46.2 %	7.0 %	104.3 %	243.8 %	933.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0244 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	-0.0185 ppm	0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0019 ppm	-0.0270 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	-0.0278 ppm	0.0006 ppm
Recovery Percentage 1	-0.292 %	0.739 %	-0.225 %	-1.294 %	1.400 %	-0.978 %	6.577 %
Concentration RSD	426.4 %	25.2 %	604.1 %	87.8 %	159.3 %	21.0 %	84.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0037 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0014 ppm	0.0001 ppm	0.0004 ppm	0.0033 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	-0.0001 ppm	0.0003 ppm	0.0042 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	0.0003 ppm	0.0035 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-0.388 %	0.040 %	0.713 %	0.183 %	-0.694 %	4.025 %	0.192 %
Concentration RSD	334.2 %	3,053.3 %	20.4 %	13.4 %	40.1 %	46.2 %	72.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm
Recovery Percentage 1	5.428 %	-0.197 %	0.085 %	-0.199 %	-1.486 %	0.949 %	0.933 %
Concentration RSD	64.3 %	39.3 %	48.2 %	104.4 %	73.4 %	166.0 %	81.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	97.1712 %	100.5673 %	103.3413 %	97.3702 %	103.0542 %	99.5075 %
Concentration per Run 1	0.0002 ppm	97.8130 %	100.8780 %	103.3066 %	99.1948 %	103.0371 %	99.6534 %
Concentration per Run 2	0.0002 ppm	96.9980 %	100.4496 %	103.5148 %	96.7923 %	103.1204 %	99.2931 %
Concentration per Run 3	0.0001 ppm	96.7025 %	100.3743 %	103.2026 %	96.1234 %	103.0050 %	99.5759 %
Recovery Percentage 1	3.112 %						
Concentration RSD	47.4 %	0.6 %	0.3 %	0.2 %	1.7 %	0.1 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-1 WG1973898
Analysis started at: 9/20/2024 11:51:58 AM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0168 ppm	-0.0010 ppm	0.0041 ppm	0.0001 ppm	0.0000 ppm	0.0124 ppm
Concentration per Run 1	-0.0004 ppm	0.0150 ppm	-0.0018 ppm	0.0040 ppm	0.0001 ppm	0.0000 ppm	0.0126 ppm
Concentration per Run 2	-0.0001 ppm	0.0176 ppm	-0.0009 ppm	0.0043 ppm	0.0001 ppm	0.0000 ppm	0.0100 ppm
Concentration per Run 3	-0.0003 ppm	0.0178 ppm	-0.0003 ppm	0.0040 ppm	0.0001 ppm	0.0000 ppm	0.0145 ppm
Recovery Percentage 1	-3.737 %	16.797 %	-19.722 %	13.707 %	1.031 %	-0.010 %	12.378 %
Concentration RSD	62.3 %	9.3 %	76.3 %	3.4 %	39.5 %	1,338.2 %	18.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0052 ppm	-0.0016 ppm	-0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0004 ppm	0.0048 ppm	-0.0284 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0058 ppm	0.0148 ppm	-0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0050 ppm	0.0088 ppm	-0.0026 ppm
Recovery Percentage 1	0.443 %	-0.589 %	-6.644 %	4.300 %	10.378 %	-0.065 %	-30.888 %
Concentration RSD	73.7 %	35.9 %	45.7 %	11.3 %	9.8 %	1,445.6 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0033 ppm	-0.0001 ppm	0.0004 ppm	136.7501 ppm	-0.0009 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.0029 ppm	-0.0001 ppm	0.0004 ppm	136.9443 ppm	-0.0013 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0034 ppm	-0.0001 ppm	0.0003 ppm	135.4608 ppm	-0.0006 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 3	0.0035 ppm	-0.0002 ppm	0.0005 ppm	137.8452 ppm	-0.0009 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	3.284 %	-1.144 %	0.724 %	6,837.505 %	-3.701 %	-1.857 %	1.655 %
Concentration RSD	9.7 %	44.7 %	23.5 %	0.9 %	35.0 %	99.3 %	28.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	0.0388 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0022 ppm	-0.0002 ppm
Concentration per Run 1	-0.0017 ppm	0.0390 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	0.0386 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0022 ppm	-0.0004 ppm
Concentration per Run 3	-0.0003 ppm	0.0389 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0027 ppm	-0.0001 ppm
Recovery Percentage 1	-3.702 %	7.768 %	0.659 %	0.026 %	2.374 %	-11.086 %	-1.628 %
Concentration RSD	363.7 %	0.5 %	31.2 %	1,168.2 %	39.7 %	21.2 %	113.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	93.7694 %	92.7743 %	94.7236 %	93.4880 %	85.6569 %	91.9273 %
Concentration per Run 1	0.0005 ppm	93.5690 %	92.6949 %	94.8214 %	94.5540 %	85.8641 %	91.9172 %
Concentration per Run 2	0.0005 ppm	93.8575 %	92.9545 %	94.6758 %	92.9377 %	85.3367 %	91.9615 %
Concentration per Run 3	0.0005 ppm	93.8817 %	92.6735 %	94.6737 %	92.9724 %	85.7700 %	91.9032 %
Recovery Percentage 1	9.985 %						
Concentration RSD	6.1 %	0.2 %	0.2 %	0.1 %	1.0 %	0.3 %	0.0 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-2 WG1973898
Analysis started at: 9/20/2024 11:58:30 AM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0514 ppm	2.0286 ppm	0.1148 ppm	0.9156 ppm	2.0248 ppm	0.0514 ppm	10.0692 ppm
Concentration per Run 1	0.0512 ppm	2.0124 ppm	0.1153 ppm	0.9128 ppm	1.9922 ppm	0.0510 ppm	10.0234 ppm
Concentration per Run 2	0.0516 ppm	2.0385 ppm	0.1139 ppm	0.9136 ppm	2.0695 ppm	0.0517 ppm	10.0706 ppm
Concentration per Run 3	0.0515 ppm	2.0349 ppm	0.1152 ppm	0.9204 ppm	2.0127 ppm	0.0517 ppm	10.1136 ppm
Concentration RSD	0.3 %	0.7 %	0.7 %	0.5 %	2.0 %	0.8 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.5039 ppm	0.2039 ppm	0.2521 ppm	1.0360 ppm	10.1023 ppm	0.0014 ppm
Concentration per Run 1	0.0531 ppm	0.5021 ppm	0.2049 ppm	0.2500 ppm	1.0259 ppm	10.0489 ppm	0.0015 ppm
Concentration per Run 2	0.0531 ppm	0.5036 ppm	0.2032 ppm	0.2524 ppm	1.0422 ppm	10.1350 ppm	0.0019 ppm
Concentration per Run 3	0.0530 ppm	0.5061 ppm	0.2035 ppm	0.2539 ppm	1.0399 ppm	10.1230 ppm	0.0007 ppm
Concentration RSD	0.1 %	0.4 %	0.5 %	0.8 %	0.9 %	0.5 %	46.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8718 ppm	0.5157 ppm	0.9789 ppm	9.9007 ppm	0.5037 ppm	0.5298 ppm	0.4907 ppm
Concentration per Run 1	9.8855 ppm	0.5119 ppm	0.9767 ppm	9.8009 ppm	0.5035 ppm	0.5282 ppm	0.4881 ppm
Concentration per Run 2	9.8710 ppm	0.5158 ppm	0.9765 ppm	9.9788 ppm	0.5023 ppm	0.5295 ppm	0.4903 ppm
Concentration per Run 3	9.8589 ppm	0.5193 ppm	0.9835 ppm	9.9225 ppm	0.5055 ppm	0.5317 ppm	0.4936 ppm
Concentration RSD	0.1 %	0.7 %	0.4 %	0.9 %	0.3 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1088 ppm	0.5423 ppm	0.9546 ppm	0.9487 ppm	1.0071 ppm	0.1149 ppm	0.5120 ppm
Concentration per Run 1	0.1094 ppm	0.5400 ppm	0.9543 ppm	0.9412 ppm	1.0062 ppm	0.1147 ppm	0.5127 ppm
Concentration per Run 2	0.1089 ppm	0.5416 ppm	0.9535 ppm	0.9548 ppm	1.0064 ppm	0.1148 ppm	0.5125 ppm
Concentration per Run 3	0.1080 ppm	0.5454 ppm	0.9559 ppm	0.9500 ppm	1.0088 ppm	0.1153 ppm	0.5108 ppm
Concentration RSD	0.6 %	0.5 %	0.1 %	0.7 %	0.1 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5112 ppm	94.5882 %	95.8884 %	97.7743 %	93.0190 %	91.6307 %	94.6107 %
Concentration per Run 1	0.5121 ppm	94.0690 %	95.2768 %	97.9335 %	93.6552 %	91.8499 %	94.2822 %
Concentration per Run 2	0.5107 ppm	95.5527 %	95.7050 %	97.8979 %	93.1779 %	91.3235 %	94.3884 %
Concentration per Run 3	0.5107 ppm	94.1430 %	96.6834 %	97.4914 %	92.2238 %	91.7188 %	95.1615 %
Concentration RSD	0.2 %	0.9 %	0.8 %	0.3 %	0.8 %	0.3 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2451391-25 WG1973498
Analysis started at: 9/20/2024 12:04:43 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0581 ppm	0.0191 ppm	0.0167 ppm	0.1557 ppm	-0.0001 ppm	66.3975 ppm
Concentration per Run 1	-0.0003 ppm	0.0609 ppm	0.0183 ppm	0.0169 ppm	0.1496 ppm	-0.0001 ppm	63.6800 ppm
Concentration per Run 2	0.0001 ppm	0.0567 ppm	0.0190 ppm	0.0166 ppm	0.1619 ppm	-0.0001 ppm	69.1728 ppm
Concentration per Run 3	-0.0002 ppm	0.0566 ppm	0.0200 ppm	0.0167 ppm	0.1556 ppm	0.0000 ppm	66.3399 ppm
Concentration RSD	166.5 %	4.2 %	4.5 %	0.9 %	3.9 %	38.8 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0039 ppm	0.1929 ppm	0.5636 ppm	0.0016 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	-0.0005 ppm	0.0039 ppm	0.1846 ppm	0.5530 ppm	0.0014 ppm
Concentration per Run 2	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0039 ppm	0.2012 ppm	0.5591 ppm	0.0020 ppm
Concentration per Run 3	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0038 ppm	0.1928 ppm	0.5788 ppm	0.0013 ppm
Concentration RSD	2.1 %	307.1 %	448.6 %	1.3 %	4.3 %	2.4 %	23.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.7529 ppm	0.0613 ppm	0.0008 ppm	9.2601 ppm	-0.0004 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	9.8895 ppm	0.0588 ppm	0.0008 ppm	8.9032 ppm	-0.0005 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	9.7165 ppm	0.0639 ppm	0.0009 ppm	9.6324 ppm	0.0001 ppm	-0.0005 ppm	0.0022 ppm
Concentration per Run 3	9.6526 ppm	0.0611 ppm	0.0007 ppm	9.2447 ppm	-0.0006 ppm	0.0003 ppm	0.0017 ppm
Concentration RSD	1.3 %	4.2 %	7.9 %	3.9 %	110.9 %	3,873.7 %	32.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	7.7009 ppm	-0.0004 ppm	0.2958 ppm	0.0011 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0011 ppm	7.7146 ppm	-0.0004 ppm	0.2842 ppm	0.0012 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	7.6899 ppm	-0.0002 ppm	0.3078 ppm	0.0010 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	7.6983 ppm	-0.0006 ppm	0.2956 ppm	0.0011 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	104.8 %	0.2 %	47.0 %	4.0 %	10.9 %	226.2 %	150.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0104 ppm	95.5331 %	97.3488 %	99.7193 %	95.7354 %	96.0365 %	96.5544 %
Concentration per Run 1	0.0103 ppm	98.1596 %	96.1727 %	99.7349 %	99.5045 %	95.7122 %	95.9238 %
Concentration per Run 2	0.0104 ppm	92.0920 %	97.7649 %	99.9438 %	92.2047 %	96.0214 %	96.5139 %
Concentration per Run 3	0.0105 ppm	96.3476 %	98.1087 %	99.4792 %	95.4969 %	96.3760 %	97.2255 %
Concentration RSD	0.9 %	3.3 %	1.1 %	0.2 %	3.8 %	0.3 %	0.7 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2451391-26 WG1973498
Analysis started at: 9/20/2024 12:10:59 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	13.1580 ppm	0.0201 ppm	0.0282 ppm	0.2094 ppm	0.0008 ppm	160.2293 ppm
Concentration per Run 1	0.0000 ppm	12.8802 ppm	0.0209 ppm	0.0282 ppm	0.2050 ppm	0.0008 ppm	155.9798 ppm
Concentration per Run 2	0.0000 ppm	12.9618 ppm	0.0191 ppm	0.0283 ppm	0.2063 ppm	0.0008 ppm	157.8296 ppm
Concentration per Run 3	0.0000 ppm	13.6319 ppm	0.0202 ppm	0.0281 ppm	0.2170 ppm	0.0008 ppm	166.8785 ppm
Concentration RSD	302.5 %	3.1 %	4.4 %	0.3 %	3.2 %	2.0 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0007 ppm	0.0144 ppm	0.0175 ppm	0.0770 ppm	34.5693 ppm	2.5801 ppm	0.0270 ppm
Concentration per Run 1	-0.0007 ppm	0.0144 ppm	0.0175 ppm	0.0772 ppm	33.7951 ppm	2.5062 ppm	0.0267 ppm
Concentration per Run 2	-0.0006 ppm	0.0144 ppm	0.0175 ppm	0.0768 ppm	34.0365 ppm	2.5530 ppm	0.0264 ppm
Concentration per Run 3	-0.0007 ppm	0.0144 ppm	0.0174 ppm	0.0769 ppm	35.8761 ppm	2.6810 ppm	0.0278 ppm
Concentration RSD	2.8 %	0.1 %	0.1 %	0.3 %	3.3 %	3.5 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	39.7965 ppm	1.5636 ppm	0.0007 ppm	17.0969 ppm	0.0249 ppm	0.0134 ppm	0.0023 ppm
Concentration per Run 1	39.7199 ppm	1.5298 ppm	0.0006 ppm	16.7352 ppm	0.0252 ppm	0.0132 ppm	0.0026 ppm
Concentration per Run 2	39.8623 ppm	1.5416 ppm	0.0006 ppm	16.8036 ppm	0.0248 ppm	0.0141 ppm	0.0027 ppm
Concentration per Run 3	39.8073 ppm	1.6194 ppm	0.0008 ppm	17.7517 ppm	0.0248 ppm	0.0130 ppm	0.0016 ppm
Concentration RSD	0.2 %	3.1 %	18.8 %	3.3 %	1.0 %	4.1 %	27.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	19.4301 ppm	-0.0003 ppm	0.6303 ppm	0.1517 ppm	-0.0013 ppm	0.0270 ppm
Concentration per Run 1	0.0008 ppm	19.4569 ppm	-0.0001 ppm	0.6167 ppm	0.1516 ppm	-0.0023 ppm	0.0270 ppm
Concentration per Run 2	0.0003 ppm	19.4487 ppm	-0.0007 ppm	0.6207 ppm	0.1520 ppm	-0.0020 ppm	0.0271 ppm
Concentration per Run 3	-0.0001 ppm	19.3848 ppm	-0.0003 ppm	0.6534 ppm	0.1517 ppm	0.0003 ppm	0.0270 ppm
Concentration RSD	149.2 %	0.2 %	86.8 %	3.2 %	0.1 %	106.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0915 ppm	110.3869 %	109.4820 %	112.0010 %	99.1117 %	90.0053 %	96.2781 %
Concentration per Run 1	0.0913 ppm	112.2173 %	109.5295 %	111.9370 %	101.7341 %	89.8335 %	96.1563 %
Concentration per Run 2	0.0917 ppm	111.2827 %	109.4917 %	111.9035 %	100.3446 %	89.8700 %	96.6060 %
Concentration per Run 3	0.0914 ppm	107.6608 %	109.4247 %	112.1625 %	95.2565 %	90.3123 %	96.0721 %
Concentration RSD	0.2 %	2.2 %	0.0 %	0.1 %	3.4 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2448058-04 WG1973898
Analysis started at: 9/20/2024 12:17:18 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0121 ppm	-0.0020 ppm	0.0066 ppm	0.0736 ppm	0.0000 ppm	3.1759 ppm
Concentration per Run 1	0.0002 ppm	0.0159 ppm	-0.0016 ppm	0.0065 ppm	0.0735 ppm	0.0000 ppm	3.1725 ppm
Concentration per Run 2	0.0002 ppm	0.0066 ppm	-0.0008 ppm	0.0067 ppm	0.0738 ppm	0.0000 ppm	3.1982 ppm
Concentration per Run 3	0.0000 ppm	0.0140 ppm	-0.0036 ppm	0.0065 ppm	0.0734 ppm	0.0000 ppm	3.1571 ppm
Concentration RSD	94.3 %	40.5 %	70.3 %	1.4 %	0.3 %	191.1 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0008 ppm	0.0010 ppm	0.1312 ppm	-0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0010 ppm	0.1499 ppm	-0.0027 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0007 ppm	0.0011 ppm	0.1288 ppm	-0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0009 ppm	0.1149 ppm	-0.0018 ppm
Concentration RSD	102.2 %	104.2 %	19.7 %	10.4 %	11.0 %	13.5 %	22.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2317 ppm	0.0125 ppm	0.0002 ppm	136.4515 ppm	0.0014 ppm	-0.0006 ppm	0.0015 ppm
Concentration per Run 1	1.2237 ppm	0.0124 ppm	0.0002 ppm	134.7178 ppm	0.0015 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 2	1.2350 ppm	0.0123 ppm	0.0002 ppm	137.3182 ppm	0.0016 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 3	1.2365 ppm	0.0126 ppm	0.0003 ppm	137.3185 ppm	0.0011 ppm	-0.0009 ppm	0.0016 ppm
Concentration RSD	0.6 %	1.3 %	22.4 %	1.1 %	16.6 %	68.0 %	30.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.2655 ppm	0.0008 ppm	0.0166 ppm	-0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.2672 ppm	0.0012 ppm	0.0166 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	0.2652 ppm	0.0004 ppm	0.0167 ppm	0.0000 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.2642 ppm	0.0008 ppm	0.0166 ppm	-0.0002 ppm	-0.0019 ppm	-0.0001 ppm
Concentration RSD	48.2 %	0.6 %	45.6 %	0.5 %	252.2 %	27.8 %	189.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0048 ppm	93.7107 %	92.8488 %	95.1308 %	91.5621 %	85.5034 %	91.5912 %
Concentration per Run 1	0.0049 ppm	93.4835 %	92.7726 %	94.9740 %	91.9259 %	85.2512 %	91.4633 %
Concentration per Run 2	0.0049 ppm	93.4090 %	93.0405 %	95.1358 %	91.0874 %	85.4489 %	91.5947 %
Concentration per Run 3	0.0048 ppm	94.2396 %	92.7333 %	95.2824 %	91.6731 %	85.8101 %	91.7155 %
Concentration RSD	1.4 %	0.5 %	0.2 %	0.2 %	0.5 %	0.3 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-3 WG1973898
Analysis started at: 9/20/2024 12:23:48 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0506 ppm	1.9449 ppm	0.1153 ppm	0.9108 ppm	1.9588 ppm	0.0498 ppm	12.6098 ppm
Concentration per Run 1	0.0506 ppm	1.9488 ppm	0.1164 ppm	0.9114 ppm	1.9666 ppm	0.0500 ppm	12.6363 ppm
Concentration per Run 2	0.0504 ppm	1.9354 ppm	0.1138 ppm	0.9092 ppm	1.9419 ppm	0.0496 ppm	12.5808 ppm
Concentration per Run 3	0.0509 ppm	1.9507 ppm	0.1157 ppm	0.9118 ppm	1.9680 ppm	0.0499 ppm	12.6122 ppm
Concentration RSD	0.5 %	0.4 %	1.2 %	0.2 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0509 ppm	0.4756 ppm	0.1959 ppm	0.2481 ppm	0.9931 ppm	9.9807 ppm	-0.0018 ppm
Concentration per Run 1	0.0509 ppm	0.4757 ppm	0.1958 ppm	0.2487 ppm	0.9938 ppm	9.8929 ppm	-0.0024 ppm
Concentration per Run 2	0.0510 ppm	0.4756 ppm	0.1958 ppm	0.2476 ppm	0.9912 ppm	9.9960 ppm	-0.0017 ppm
Concentration per Run 3	0.0507 ppm	0.4755 ppm	0.1960 ppm	0.2480 ppm	0.9944 ppm	10.0533 ppm	-0.0012 ppm
Concentration RSD	0.3 %	0.0 %	0.1 %	0.2 %	0.2 %	0.8 %	34.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.4913 ppm	0.5007 ppm	0.9477 ppm	137.0564 ppm	0.4750 ppm	0.4958 ppm	0.4799 ppm
Concentration per Run 1	10.4274 ppm	0.5035 ppm	0.9484 ppm	137.1415 ppm	0.4748 ppm	0.4951 ppm	0.4808 ppm
Concentration per Run 2	10.5467 ppm	0.4987 ppm	0.9467 ppm	138.0091 ppm	0.4749 ppm	0.4963 ppm	0.4777 ppm
Concentration per Run 3	10.4999 ppm	0.5000 ppm	0.9480 ppm	136.0187 ppm	0.4753 ppm	0.4961 ppm	0.4812 ppm
Concentration RSD	0.6 %	0.5 %	0.1 %	0.7 %	0.1 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1115 ppm	0.7862 ppm	0.9041 ppm	0.9302 ppm	0.9822 ppm	0.1037 ppm	0.4958 ppm
Concentration per Run 1	0.1104 ppm	0.7863 ppm	0.9045 ppm	0.9280 ppm	0.9810 ppm	0.1036 ppm	0.4943 ppm
Concentration per Run 2	0.1127 ppm	0.7838 ppm	0.9058 ppm	0.9294 ppm	0.9806 ppm	0.1040 ppm	0.4959 ppm
Concentration per Run 3	0.1114 ppm	0.7886 ppm	0.9019 ppm	0.9331 ppm	0.9851 ppm	0.1034 ppm	0.4972 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.3 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4983 ppm	95.4030 %	93.3412 %	95.2493 %	93.9062 %	85.4539 %	91.7424 %
Concentration per Run 1	0.4977 ppm	94.8673 %	93.5864 %	95.1364 %	93.4080 %	85.2720 %	91.9734 %
Concentration per Run 2	0.5002 ppm	95.6826 %	92.9948 %	95.3579 %	94.1926 %	85.6187 %	91.6228 %
Concentration per Run 3	0.4972 ppm	95.6591 %	93.4423 %	95.2537 %	94.1179 %	85.4711 %	91.6309 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.1 %	0.5 %	0.2 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-4 WG1973898
Analysis started at: 9/20/2024 12:30:10 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0094 ppm	-0.0011 ppm	0.0072 ppm	0.0485 ppm	0.0000 ppm	3.0203 ppm
Concentration per Run 1	0.0004 ppm	0.0083 ppm	-0.0010 ppm	0.0072 ppm	0.0482 ppm	0.0000 ppm	3.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0085 ppm	-0.0010 ppm	0.0071 ppm	0.0487 ppm	0.0000 ppm	3.0283 ppm
Concentration per Run 3	0.0001 ppm	0.0114 ppm	-0.0014 ppm	0.0072 ppm	0.0485 ppm	0.0000 ppm	3.0324 ppm
Concentration RSD	153.4 %	18.6 %	21.6 %	0.5 %	0.6 %	286.2 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0004 ppm	0.1245 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0011 ppm	0.0012 ppm	0.1149 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0003 ppm	0.1365 ppm	-0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0009 ppm	-0.0001 ppm	0.1222 ppm	-0.0008 ppm
Concentration RSD	72.9 %	195.3 %	39.5 %	21.5 %	150.3 %	8.8 %	20.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.1957 ppm	0.0119 ppm	0.0004 ppm	129.1368 ppm	0.0003 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 1	1.1916 ppm	0.0117 ppm	0.0004 ppm	130.5836 ppm	0.0003 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	1.2020 ppm	0.0120 ppm	0.0004 ppm	129.9282 ppm	0.0004 ppm	-0.0004 ppm	0.0013 ppm
Concentration per Run 3	1.1935 ppm	0.0119 ppm	0.0005 ppm	126.8985 ppm	0.0002 ppm	-0.0001 ppm	0.0017 ppm
Concentration RSD	0.5 %	1.4 %	9.1 %	1.5 %	30.2 %	112.3 %	23.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.2568 ppm	0.0007 ppm	0.0153 ppm	-0.0001 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0012 ppm	0.2562 ppm	0.0006 ppm	0.0153 ppm	-0.0001 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.2567 ppm	0.0005 ppm	0.0154 ppm	0.0001 ppm	-0.0015 ppm	-0.0004 ppm
Concentration per Run 3	-0.0002 ppm	0.2574 ppm	0.0010 ppm	0.0154 ppm	-0.0003 ppm	-0.0020 ppm	0.0000 ppm
Concentration RSD	1,056.7 %	0.2 %	40.4 %	0.4 %	157.0 %	13.8 %	106.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0049 ppm	94.8233 %	93.3907 %	95.1769 %	93.4404 %	85.6676 %	92.5164 %
Concentration per Run 1	0.0050 ppm	95.0967 %	93.6679 %	95.2354 %	94.3755 %	85.5832 %	92.5628 %
Concentration per Run 2	0.0049 ppm	94.5879 %	93.1157 %	95.3681 %	92.6743 %	86.0518 %	92.4038 %
Concentration per Run 3	0.0047 ppm	94.7854 %	93.3885 %	94.9270 %	93.2714 %	85.3677 %	92.5826 %
Concentration RSD	3.3 %	0.3 %	0.3 %	0.2 %	0.9 %	0.4 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-5 WG1973898
Analysis started at: 9/20/2024 12:36:40 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0515 ppm	2.1077 ppm	0.1231 ppm	1.0092 ppm	2.1505 ppm	0.0531 ppm	13.7419 ppm
Concentration per Run 1	0.0512 ppm	2.1019 ppm	0.1234 ppm	1.0088 ppm	2.1742 ppm	0.0530 ppm	13.7169 ppm
Concentration per Run 2	0.0516 ppm	2.1043 ppm	0.1233 ppm	1.0108 ppm	2.1002 ppm	0.0530 ppm	13.6947 ppm
Concentration per Run 3	0.0517 ppm	2.1170 ppm	0.1227 ppm	1.0081 ppm	2.1770 ppm	0.0532 ppm	13.8142 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.1 %	2.0 %	0.3 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0547 ppm	0.5059 ppm	0.2074 ppm	0.2672 ppm	1.0597 ppm	11.1589 ppm	-0.0016 ppm
Concentration per Run 1	0.0547 ppm	0.5056 ppm	0.2066 ppm	0.2660 ppm	1.0574 ppm	11.1609 ppm	-0.0022 ppm
Concentration per Run 2	0.0548 ppm	0.5065 ppm	0.2078 ppm	0.2682 ppm	1.0605 ppm	11.1176 ppm	-0.0014 ppm
Concentration per Run 3	0.0546 ppm	0.5057 ppm	0.2077 ppm	0.2672 ppm	1.0611 ppm	11.1983 ppm	-0.0013 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.4 %	0.2 %	0.4 %	28.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.2918 ppm	0.5303 ppm	1.0495 ppm	146.6602 ppm	0.5067 ppm	0.5255 ppm	0.5080 ppm
Concentration per Run 1	11.3058 ppm	0.5292 ppm	1.0488 ppm	150.6608 ppm	0.5058 ppm	0.5248 ppm	0.5068 ppm
Concentration per Run 2	11.2925 ppm	0.5287 ppm	1.0514 ppm	145.5035 ppm	0.5081 ppm	0.5262 ppm	0.5086 ppm
Concentration per Run 3	11.2773 ppm	0.5330 ppm	1.0483 ppm	143.8161 ppm	0.5062 ppm	0.5255 ppm	0.5085 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	2.4 %	0.2 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1199 ppm	1.3065 ppm	1.0113 ppm	1.0300 ppm	1.0819 ppm	0.1106 ppm	0.5263 ppm
Concentration per Run 1	0.1210 ppm	1.3036 ppm	1.0103 ppm	1.0289 ppm	1.0778 ppm	0.1110 ppm	0.5255 ppm
Concentration per Run 2	0.1195 ppm	1.3099 ppm	1.0119 ppm	1.0293 ppm	1.0838 ppm	0.1104 ppm	0.5273 ppm
Concentration per Run 3	0.1190 ppm	1.3061 ppm	1.0117 ppm	1.0317 ppm	1.0841 ppm	0.1105 ppm	0.5263 ppm
Concentration RSD	0.9 %	0.2 %	0.1 %	0.1 %	0.3 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5222 ppm	96.9349 %	93.5160 %	94.5050 %	95.4751 %	83.9732 %	91.7007 %
Concentration per Run 1	0.5225 ppm	96.9331 %	93.2473 %	94.4990 %	95.6516 %	83.8272 %	91.6688 %
Concentration per Run 2	0.5216 ppm	97.8914 %	93.4671 %	94.3940 %	96.3664 %	84.0254 %	91.5777 %
Concentration per Run 3	0.5224 ppm	95.9800 %	93.8337 %	94.6221 %	94.4075 %	84.0669 %	91.8558 %
Concentration RSD	0.1 %	1.0 %	0.3 %	0.1 %	1.0 %	0.2 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973898-6D5 WG1973898
Analysis started at: 9/20/2024 12:43:03 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0056 ppm	-0.0004 ppm	0.0021 ppm	0.0146 ppm	0.0000 ppm	0.6319 ppm
Concentration per Run 1	0.0000 ppm	0.0051 ppm	0.0002 ppm	0.0022 ppm	0.0144 ppm	0.0000 ppm	0.6204 ppm
Concentration per Run 2	0.0001 ppm	0.0066 ppm	-0.0006 ppm	0.0022 ppm	0.0147 ppm	0.0000 ppm	0.6375 ppm
Concentration per Run 3	0.0000 ppm	0.0052 ppm	-0.0009 ppm	0.0020 ppm	0.0148 ppm	0.0000 ppm	0.6378 ppm
Concentration RSD	306.7 %	14.6 %	134.7 %	6.3 %	1.3 %	166.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0059 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0066 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0114 ppm	-0.0012 ppm
Concentration RSD	685.5 %	1,212.9 %	41.4 %	30.7 %	154.5 %	97.8 %	243.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.2632 ppm	0.0024 ppm	0.0004 ppm	27.5592 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.2627 ppm	0.0024 ppm	0.0003 ppm	27.0193 ppm	0.0000 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.2648 ppm	0.0025 ppm	0.0004 ppm	27.6713 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.2620 ppm	0.0024 ppm	0.0004 ppm	27.9871 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration RSD	0.6 %	2.6 %	4.5 %	1.8 %	94.6 %	480.1 %	3,120.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.0567 ppm	0.0001 ppm	0.0033 ppm	0.0001 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0569 ppm	0.0001 ppm	0.0032 ppm	0.0000 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0569 ppm	0.0000 ppm	0.0033 ppm	-0.0001 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 3	0.0018 ppm	0.0563 ppm	0.0002 ppm	0.0033 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration RSD	394.9 %	0.6 %	72.4 %	1.6 %	346.0 %	64.1 %	120.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	100.9296 %	100.7793 %	101.3700 %	101.2945 %	98.8692 %	99.5969 %
Concentration per Run 1	0.0014 ppm	100.6791 %	100.8518 %	101.2573 %	102.6627 %	99.0143 %	99.7888 %
Concentration per Run 2	0.0015 ppm	100.9931 %	100.9968 %	101.6884 %	101.1146 %	99.0905 %	99.5829 %
Concentration per Run 3	0.0015 ppm	101.1165 %	100.4892 %	101.1643 %	100.1063 %	98.5030 %	99.4189 %
Concentration RSD	3.2 %	0.2 %	0.3 %	0.3 %	1.3 %	0.3 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 12:49:27 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5072 ppm	0.4996 ppm	0.4929 ppm	0.5047 ppm	0.4938 ppm	0.4983 ppm	0.4971 ppm
Concentration per Run 1	0.5059 ppm	0.4901 ppm	0.4946 ppm	0.5049 ppm	0.4833 ppm	0.4893 ppm	0.4868 ppm
Concentration per Run 2	0.5075 ppm	0.5035 ppm	0.4919 ppm	0.5052 ppm	0.4973 ppm	0.5018 ppm	0.5005 ppm
Concentration per Run 3	0.5081 ppm	0.5053 ppm	0.4921 ppm	0.5041 ppm	0.5008 ppm	0.5037 ppm	0.5041 ppm
Recovery Percentage 1	101.437 %	99.930 %	98.572 %	100.950 %	98.758 %	99.655 %	99.423 %
Concentration RSD	0.2 %	1.7 %	0.3 %	0.1 %	1.9 %	1.6 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4920 ppm	0.5049 ppm	0.4897 ppm	0.4838 ppm	0.5259 ppm	5.1736 ppm	0.4961 ppm
Concentration per Run 1	0.4924 ppm	0.5057 ppm	0.4918 ppm	0.4826 ppm	0.5153 ppm	5.0830 ppm	0.4839 ppm
Concentration per Run 2	0.4910 ppm	0.5043 ppm	0.4874 ppm	0.4827 ppm	0.5315 ppm	5.1991 ppm	0.4985 ppm
Concentration per Run 3	0.4927 ppm	0.5047 ppm	0.4898 ppm	0.4861 ppm	0.5308 ppm	5.2389 ppm	0.5059 ppm
Recovery Percentage 1	98.402 %	100.985 %	97.936 %	96.757 %	105.170 %	103.473 %	99.222 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.4 %	1.7 %	1.6 %	2.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5022 ppm	0.4850 ppm	0.4873 ppm	9.8553 ppm	0.5034 ppm	0.5085 ppm	0.5095 ppm
Concentration per Run 1	0.5018 ppm	0.4780 ppm	0.4879 ppm	9.6288 ppm	0.5033 ppm	0.5095 ppm	0.5123 ppm
Concentration per Run 2	0.5030 ppm	0.4880 ppm	0.4865 ppm	9.9104 ppm	0.5032 ppm	0.5070 ppm	0.5085 ppm
Concentration per Run 3	0.5020 ppm	0.4892 ppm	0.4875 ppm	10.0268 ppm	0.5037 ppm	0.5090 ppm	0.5078 ppm
Recovery Percentage 1	100.448 %	97.009 %	97.458 %	98.553 %	100.677 %	101.704 %	101.905 %
Concentration RSD	0.1 %	1.3 %	0.2 %	2.1 %	0.1 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5107 ppm	5.5719 ppm	0.4781 ppm	0.4673 ppm	0.4961 ppm	0.5200 ppm	0.4876 ppm
Concentration per Run 1	0.5112 ppm	5.5837 ppm	0.4773 ppm	0.4575 ppm	0.4976 ppm	0.5193 ppm	0.4881 ppm
Concentration per Run 2	0.5103 ppm	5.5658 ppm	0.4778 ppm	0.4705 ppm	0.4926 ppm	0.5202 ppm	0.4854 ppm
Concentration per Run 3	0.5106 ppm	5.5661 ppm	0.4790 ppm	0.4741 ppm	0.4980 ppm	0.5205 ppm	0.4893 ppm
Recovery Percentage 1	102.136 %	106.131 %	95.610 %	93.470 %	99.215 %	104.001 %	97.517 %
Concentration RSD	0.1 %	0.2 %	0.2 %	1.9 %	0.6 %	0.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5274 ppm	101.1741 %	101.2189 %	102.4807 %	101.3304 %	100.9898 %	100.3575 %
Concentration per Run 1	0.5278 ppm	100.8656 %	101.2028 %	102.4752 %	102.7950 %	101.0326 %	100.2625 %
Concentration per Run 2	0.5257 ppm	100.5278 %	100.9455 %	102.5326 %	100.2799 %	100.8895 %	100.6869 %
Concentration per Run 3	0.5288 ppm	102.1290 %	101.5084 %	102.4342 %	100.9164 %	101.0472 %	100.1231 %
Recovery Percentage 1	105.483 %						
Concentration RSD	0.3 %	0.8 %	0.3 %	0.0 %	1.3 %	0.1 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 12:55:30 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0061 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0068 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	0.0003 ppm	0.0084 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0031 ppm	-0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	1.151 %	6.097 %	-1.822 %	1.884 %	0.467 %	-0.235 %	-0.422 %
Concentration RSD	330.1 %	44.8 %	217.3 %	29.4 %	210.9 %	68.0 %	154.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0357 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0491 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0012 ppm	-0.0312 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm	-0.0268 ppm	0.0006 ppm
Recovery Percentage 1	-0.139 %	0.014 %	1.250 %	2.119 %	2.084 %	-1.428 %	2.431 %
Concentration RSD	256.3 %	5,352.8 %	133.7 %	37.6 %	60.6 %	33.0 %	194.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0140 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0145 ppm	-0.0002 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	0.0004 ppm	0.0123 ppm	-0.0002 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0152 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	-0.105 %	1.120 %	0.559 %	0.699 %	-1.186 %	2.240 %	0.576 %
Concentration RSD	604.8 %	28.8 %	40.4 %	10.8 %	66.8 %	214.8 %	306.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	6.732 %	-0.279 %	0.078 %	0.060 %	0.302 %	-3.012 %	-1.742 %
Concentration RSD	144.0 %	9.9 %	586.4 %	608.6 %	773.3 %	46.7 %	96.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	100.0612 %	100.0723 %	102.6780 %	99.8975 %	102.7385 %	98.6594 %
Concentration per Run 1	0.0002 ppm	99.6694 %	100.0827 %	101.2419 %	101.2484 %	101.2355 %	98.6958 %
Concentration per Run 2	0.0004 ppm	100.2129 %	100.0689 %	103.4004 %	98.9406 %	103.5721 %	99.2886 %
Concentration per Run 3	0.0002 ppm	100.3013 %	100.0652 %	103.3917 %	99.5034 %	103.4078 %	97.9938 %
Recovery Percentage 1	5.048 %						
Concentration RSD	35.2 %	0.3 %	0.0 %	1.2 %	1.2 %	1.3 %	0.7 %

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-1 WG1973830
Analysis started at: 9/20/2024 1:04:24 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0047 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 1	-0.0001 ppm	0.0029 ppm	-0.0005 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 2	-0.0001 ppm	0.0049 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 3	0.0000 ppm	0.0062 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	-0.728 %	4.667 %	-10.596 %	1.049 %	-0.132 %	-0.481 %	9.420 %
Concentration RSD	46.0 %	34.9 %	57.0 %	30.2 %	287.7 %	51.5 %	15.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0003 ppm	-0.0003 ppm	-0.0097 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0008 ppm	0.0004 ppm	-0.0005 ppm	-0.0204 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0003 ppm	0.0001 ppm	-0.0020 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0003 ppm	-0.0005 ppm	-0.0067 ppm	-0.0007 ppm
Recovery Percentage 1	0.315 %	0.397 %	-7.021 %	3.415 %	-0.592 %	-0.389 %	-9.408 %
Concentration RSD	152.1 %	184.2 %	14.4 %	13.2 %	109.7 %	98.3 %	55.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0031 ppm	0.0001 ppm	0.0002 ppm	0.0074 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0030 ppm	-0.0001 ppm	0.0004 ppm	0.0075 ppm	-0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	0.0042 ppm	0.0002 ppm	0.0002 ppm	0.0029 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 3	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0117 ppm	-0.0001 ppm	0.0006 ppm	-0.0005 ppm
Recovery Percentage 1	3.051 %	0.513 %	0.441 %	0.368 %	-0.606 %	5.876 %	0.006 %
Concentration RSD	37.0 %	247.7 %	95.4 %	59.4 %	78.9 %	14.7 %	20,131.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0016 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	14.264 %	0.006 %	0.202 %	1.099 %	0.743 %	-1.259 %	0.254 %
Concentration RSD	22.2 %	2,005.6 %	291.7 %	34.4 %	122.4 %	186.6 %	793.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	100.2749 %	101.1769 %	101.6029 %	100.5935 %	103.7360 %	101.1117 %
Concentration per Run 1	0.0011 ppm	100.5902 %	101.0851 %	101.4127 %	101.0067 %	103.8405 %	101.2580 %
Concentration per Run 2	0.0012 ppm	100.2917 %	101.3166 %	101.8477 %	100.4896 %	103.6066 %	101.2331 %
Concentration per Run 3	0.0012 ppm	99.9428 %	101.1289 %	101.5483 %	100.2841 %	103.7609 %	100.8441 %
Recovery Percentage 1	22.884 %						
Concentration RSD	1.5 %	0.3 %	0.1 %	0.2 %	0.4 %	0.1 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-2 WG1973830
Analysis started at: 9/20/2024 1:10:50 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0524 ppm	2.0044 ppm	0.1184 ppm	0.9808 ppm	1.9772 ppm	0.0496 ppm	9.8957 ppm
Concentration per Run 1	0.0526 ppm	1.9605 ppm	0.1181 ppm	0.9797 ppm	1.9371 ppm	0.0488 ppm	9.7130 ppm
Concentration per Run 2	0.0523 ppm	2.0140 ppm	0.1185 ppm	0.9823 ppm	1.9931 ppm	0.0497 ppm	9.9534 ppm
Concentration per Run 3	0.0523 ppm	2.0386 ppm	0.1185 ppm	0.9803 ppm	2.0015 ppm	0.0503 ppm	10.0206 ppm
Concentration RSD	0.3 %	2.0 %	0.2 %	0.1 %	1.8 %	1.6 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.5026 ppm	0.1977 ppm	0.2543 ppm	1.0018 ppm	10.5417 ppm	-0.0010 ppm
Concentration per Run 1	0.0531 ppm	0.5027 ppm	0.1974 ppm	0.2549 ppm	0.9809 ppm	10.3838 ppm	-0.0010 ppm
Concentration per Run 2	0.0531 ppm	0.5027 ppm	0.1980 ppm	0.2543 ppm	1.0049 ppm	10.5687 ppm	-0.0012 ppm
Concentration per Run 3	0.0532 ppm	0.5025 ppm	0.1977 ppm	0.2538 ppm	1.0197 ppm	10.6725 ppm	-0.0008 ppm
Concentration RSD	0.0 %	0.0 %	0.2 %	0.2 %	2.0 %	1.4 %	21.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1131 ppm	0.4987 ppm	0.9866 ppm	10.3043 ppm	0.5076 ppm	0.5353 ppm	0.5158 ppm
Concentration per Run 1	10.1054 ppm	0.4892 ppm	0.9856 ppm	10.1139 ppm	0.5067 ppm	0.5351 ppm	0.5155 ppm
Concentration per Run 2	10.1377 ppm	0.5021 ppm	0.9864 ppm	10.3235 ppm	0.5081 ppm	0.5350 ppm	0.5159 ppm
Concentration per Run 3	10.0963 ppm	0.5049 ppm	0.9876 ppm	10.4755 ppm	0.5082 ppm	0.5357 ppm	0.5161 ppm
Concentration RSD	0.2 %	1.7 %	0.1 %	1.8 %	0.2 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1196 ppm	1.1034 ppm	0.9797 ppm	0.9413 ppm	1.0000 ppm	0.1206 ppm	0.4943 ppm
Concentration per Run 1	0.1183 ppm	1.1030 ppm	0.9804 ppm	0.9242 ppm	0.9952 ppm	0.1198 ppm	0.4929 ppm
Concentration per Run 2	0.1204 ppm	1.1037 ppm	0.9802 ppm	0.9438 ppm	1.0032 ppm	0.1206 ppm	0.4956 ppm
Concentration per Run 3	0.1202 ppm	1.1034 ppm	0.9784 ppm	0.9559 ppm	1.0015 ppm	0.1215 ppm	0.4946 ppm
Concentration RSD	1.0 %	0.0 %	0.1 %	1.7 %	0.4 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4990 ppm	101.2216 %	100.3735 %	101.0111 %	102.3284 %	98.1699 %	100.2972 %
Concentration per Run 1	0.4990 ppm	101.6783 %	100.1190 %	101.0507 %	104.5353 %	98.4816 %	100.3070 %
Concentration per Run 2	0.4985 ppm	100.3446 %	100.3950 %	101.0141 %	101.4190 %	98.1065 %	100.1681 %
Concentration per Run 3	0.4994 ppm	101.6420 %	100.6065 %	100.9686 %	101.0309 %	97.9217 %	100.4164 %
Concentration RSD	0.1 %	0.8 %	0.2 %	0.0 %	1.9 %	0.3 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2452763-02 WG1973830
Analysis started at: 9/20/2024 1:17:00 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0031 ppm	0.3690 ppm	0.0016 ppm	0.7685 ppm	0.0432 ppm	-0.0001 ppm	77.1059 ppm
Concentration per Run 1	0.0031 ppm	0.3653 ppm	0.0022 ppm	0.7678 ppm	0.0425 ppm	0.0000 ppm	76.3275 ppm
Concentration per Run 2	0.0032 ppm	0.3690 ppm	0.0017 ppm	0.7700 ppm	0.0435 ppm	-0.0001 ppm	77.3283 ppm
Concentration per Run 3	0.0029 ppm	0.3725 ppm	0.0010 ppm	0.7678 ppm	0.0436 ppm	-0.0001 ppm	77.6619 ppm
Concentration RSD	5.5 %	1.0 %	35.4 %	0.2 %	1.3 %	42.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0003 ppm	0.0003 ppm	0.0850 ppm	0.6048 ppm	18.8238 ppm	-0.0003 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0002 ppm	0.0850 ppm	0.5945 ppm	18.6793 ppm	-0.0008 ppm
Concentration per Run 2	-0.0005 ppm	0.0002 ppm	0.0007 ppm	0.0848 ppm	0.6063 ppm	18.7848 ppm	-0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0853 ppm	0.6138 ppm	19.0073 ppm	0.0002 ppm
Concentration RSD	2.6 %	58.4 %	101.8 %	0.3 %	1.6 %	0.9 %	165.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	17.1142 ppm	0.0303 ppm	0.0024 ppm	338.2765 ppm	0.0017 ppm	0.0038 ppm	0.0017 ppm
Concentration per Run 1	17.1460 ppm	0.0300 ppm	0.0025 ppm	343.5237 ppm	0.0016 ppm	0.0034 ppm	0.0017 ppm
Concentration per Run 2	17.0566 ppm	0.0303 ppm	0.0024 ppm	339.7293 ppm	0.0019 ppm	0.0040 ppm	0.0017 ppm
Concentration per Run 3	17.1400 ppm	0.0305 ppm	0.0022 ppm	331.5764 ppm	0.0016 ppm	0.0038 ppm	0.0016 ppm
Concentration RSD	0.3 %	0.8 %	5.3 %	1.8 %	9.6 %	8.0 %	3.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	1.1456 ppm	0.0007 ppm	0.6292 ppm	0.0015 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	1.1432 ppm	0.0009 ppm	0.6204 ppm	0.0018 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0007 ppm	1.1466 ppm	0.0004 ppm	0.6315 ppm	0.0015 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	1.1471 ppm	0.0007 ppm	0.6357 ppm	0.0013 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	907.7 %	0.2 %	39.2 %	1.3 %	16.5 %	64.3 %	161.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0865 ppm	96.8649 %	90.8549 %	90.8501 %	98.8179 %	79.5423 %	90.6856 %
Concentration per Run 1	0.0867 ppm	96.6596 %	90.9855 %	90.9208 %	100.2163 %	79.5955 %	90.6133 %
Concentration per Run 2	0.0865 ppm	96.8502 %	91.1100 %	90.9384 %	98.4212 %	79.6278 %	90.6153 %
Concentration per Run 3	0.0864 ppm	97.0848 %	90.4690 %	90.6912 %	97.8163 %	79.4036 %	90.8284 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.2 %	1.3 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2452825-01 WG1973830
Analysis started at: 9/20/2024 1:23:25 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.1554 ppm	0.0003 ppm	0.0313 ppm	0.1316 ppm	0.0000 ppm	32.8941 ppm
Concentration per Run 1	-0.0008 ppm	0.1556 ppm	-0.0004 ppm	0.0316 ppm	0.1301 ppm	0.0000 ppm	32.5322 ppm
Concentration per Run 2	-0.0005 ppm	0.1534 ppm	0.0010 ppm	0.0314 ppm	0.1325 ppm	0.0000 ppm	32.9751 ppm
Concentration per Run 3	-0.0005 ppm	0.1572 ppm	0.0004 ppm	0.0310 ppm	0.1323 ppm	-0.0001 ppm	33.1749 ppm
Concentration RSD	23.5 %	1.2 %	200.8 %	1.0 %	1.0 %	112.8 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0262 ppm	0.4658 ppm	7.7956 ppm	0.0015 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0260 ppm	0.4597 ppm	7.7481 ppm	0.0018 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0263 ppm	0.4678 ppm	7.8071 ppm	0.0017 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0262 ppm	0.4699 ppm	7.8317 ppm	0.0011 ppm
Concentration RSD	13.9 %	121.7 %	43.5 %	0.7 %	1.2 %	0.6 %	22.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.1423 ppm	0.0093 ppm	0.0014 ppm	21.3762 ppm	0.0019 ppm	0.0028 ppm	0.0005 ppm
Concentration per Run 1	9.1559 ppm	0.0092 ppm	0.0014 ppm	21.2550 ppm	0.0019 ppm	0.0032 ppm	0.0006 ppm
Concentration per Run 2	9.1348 ppm	0.0093 ppm	0.0014 ppm	21.4939 ppm	0.0021 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 3	9.1363 ppm	0.0095 ppm	0.0014 ppm	21.3797 ppm	0.0019 ppm	0.0031 ppm	0.0008 ppm
Concentration RSD	0.1 %	1.6 %	2.3 %	0.6 %	7.4 %	16.9 %	92.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	0.4857 ppm	0.0004 ppm	0.1419 ppm	0.0017 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.4841 ppm	0.0003 ppm	0.1404 ppm	0.0016 ppm	-0.0016 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	0.4844 ppm	0.0005 ppm	0.1424 ppm	0.0018 ppm	-0.0020 ppm	-0.0002 ppm
Concentration per Run 3	-0.0019 ppm	0.4886 ppm	0.0006 ppm	0.1428 ppm	0.0016 ppm	-0.0012 ppm	0.0002 ppm
Concentration RSD	367.8 %	0.5 %	35.8 %	0.9 %	7.6 %	26.4 %	358.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0382 ppm	101.2747 %	98.8374 %	98.1121 %	103.4447 %	95.8034 %	98.8029 %
Concentration per Run 1	0.0382 ppm	101.2252 %	98.4495 %	98.2089 %	104.5645 %	95.8386 %	98.7476 %
Concentration per Run 2	0.0381 ppm	101.3555 %	99.1490 %	98.2469 %	103.3526 %	95.9358 %	98.8732 %
Concentration per Run 3	0.0383 ppm	101.2435 %	98.9137 %	97.8804 %	102.4171 %	95.6358 %	98.7880 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.2 %	1.0 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2452844-01 WG1973830
Analysis started at: 9/20/2024 1:29:44 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	1.7911 ppm	0.0061 ppm	0.1198 ppm	0.0222 ppm	0.0002 ppm	8.0097 ppm
Concentration per Run 1	0.0000 ppm	1.7818 ppm	0.0055 ppm	0.1200 ppm	0.0221 ppm	0.0002 ppm	7.9769 ppm
Concentration per Run 2	0.0001 ppm	1.7931 ppm	0.0071 ppm	0.1206 ppm	0.0222 ppm	0.0002 ppm	7.9944 ppm
Concentration per Run 3	-0.0003 ppm	1.7983 ppm	0.0058 ppm	0.1189 ppm	0.0223 ppm	0.0002 ppm	8.0577 ppm
Concentration RSD	286.9 %	0.5 %	14.3 %	0.7 %	0.5 %	5.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0036 ppm	0.0058 ppm	0.0905 ppm	2.9403 ppm	363.8965 ppm	0.0027 ppm
Concentration per Run 1	0.0018 ppm	0.0035 ppm	0.0057 ppm	0.0903 ppm	2.9326 ppm	369.2160 ppm	0.0027 ppm
Concentration per Run 2	0.0018 ppm	0.0038 ppm	0.0058 ppm	0.0907 ppm	2.9299 ppm	352.0832 ppm	0.0028 ppm
Concentration per Run 3	0.0018 ppm	0.0037 ppm	0.0058 ppm	0.0904 ppm	2.9583 ppm	370.3903 ppm	0.0027 ppm
Concentration RSD	0.9 %	3.7 %	1.0 %	0.2 %	0.5 %	2.8 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.3509 ppm	0.3424 ppm	0.0014 ppm	26.5370 ppm	0.0072 ppm	0.0040 ppm	0.0007 ppm
Concentration per Run 1	14.3752 ppm	0.3416 ppm	0.0013 ppm	26.2486 ppm	0.0071 ppm	0.0040 ppm	0.0003 ppm
Concentration per Run 2	14.3247 ppm	0.3411 ppm	0.0014 ppm	26.6889 ppm	0.0076 ppm	0.0040 ppm	0.0006 ppm
Concentration per Run 3	14.3527 ppm	0.3445 ppm	0.0015 ppm	26.6735 ppm	0.0070 ppm	0.0040 ppm	0.0012 ppm
Concentration RSD	0.2 %	0.5 %	8.9 %	0.9 %	4.4 %	0.8 %	63.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	2.2153 ppm	0.0023 ppm	0.0311 ppm	0.0322 ppm	-0.0062 ppm	0.0041 ppm
Concentration per Run 1	0.0003 ppm	2.2169 ppm	0.0026 ppm	0.0309 ppm	0.0323 ppm	-0.0067 ppm	0.0042 ppm
Concentration per Run 2	0.0019 ppm	2.2207 ppm	0.0024 ppm	0.0311 ppm	0.0320 ppm	-0.0062 ppm	0.0041 ppm
Concentration per Run 3	0.0002 ppm	2.2084 ppm	0.0020 ppm	0.0312 ppm	0.0323 ppm	-0.0056 ppm	0.0041 ppm
Concentration RSD	114.6 %	0.3 %	13.6 %	0.5 %	0.5 %	9.2 %	1.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2534 ppm	97.4848 %	93.7731 %	95.3986 %	95.4267 %	82.5337 %	89.9094 %
Concentration per Run 1	0.2539 ppm	97.3851 %	93.6811 %	95.4905 %	95.9625 %	82.9339 %	89.7454 %
Concentration per Run 2	0.2534 ppm	97.6951 %	93.7888 %	95.2803 %	95.6800 %	82.5110 %	89.9923 %
Concentration per Run 3	0.2531 ppm	97.3742 %	93.8494 %	95.4251 %	94.6376 %	82.1561 %	89.9904 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.1 %	0.7 %	0.5 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-01 WG1973830
Analysis started at: 9/20/2024 1:36:07 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0054 ppm	0.0005 ppm	0.0115 ppm	0.0222 ppm	0.0000 ppm	18.0045 ppm
Concentration per Run 1	0.0000 ppm	0.0061 ppm	0.0011 ppm	0.0116 ppm	0.0223 ppm	0.0000 ppm	18.0676 ppm
Concentration per Run 2	-0.0003 ppm	0.0056 ppm	-0.0009 ppm	0.0117 ppm	0.0220 ppm	0.0000 ppm	17.8926 ppm
Concentration per Run 3	-0.0001 ppm	0.0046 ppm	0.0011 ppm	0.0111 ppm	0.0222 ppm	0.0000 ppm	18.0534 ppm
Concentration RSD	122.8 %	14.3 %	251.4 %	2.9 %	0.8 %	2,108.0 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0706 ppm	1.8970 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0707 ppm	1.9176 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0701 ppm	1.9007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0711 ppm	1.8726 ppm	0.0003 ppm
Concentration RSD	28.9 %	231.7 %	40.1 %	7.3 %	0.7 %	1.2 %	168.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2046 ppm	0.0487 ppm	0.0003 ppm	2.4147 ppm	-0.0004 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	3.2006 ppm	0.0483 ppm	0.0002 ppm	2.4206 ppm	-0.0004 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 2	3.2121 ppm	0.0488 ppm	0.0003 ppm	2.4127 ppm	-0.0005 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 3	3.2012 ppm	0.0489 ppm	0.0002 ppm	2.4108 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	0.2 %	0.6 %	9.2 %	0.2 %	12.1 %	78.4 %	70.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	4.5854 ppm	-0.0005 ppm	0.0542 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0021 ppm	4.5979 ppm	-0.0008 ppm	0.0543 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0004 ppm	4.5779 ppm	-0.0003 ppm	0.0541 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0020 ppm	4.5806 ppm	-0.0004 ppm	0.0541 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration RSD	63.2 %	0.2 %	46.7 %	0.3 %	86.1 %	317.8 %	132.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	103.3130 %	102.2897 %	102.9551 %	103.3866 %	102.0114 %	102.0173 %
Concentration per Run 1	0.0017 ppm	103.3943 %	102.1317 %	102.6059 %	103.1906 %	101.6516 %	102.3672 %
Concentration per Run 2	0.0018 ppm	103.5136 %	102.5306 %	103.2635 %	104.1428 %	102.1556 %	102.1282 %
Concentration per Run 3	0.0018 ppm	103.0311 %	102.2069 %	102.9960 %	102.8262 %	102.2269 %	101.5564 %
Concentration RSD	2.6 %	0.2 %	0.2 %	0.3 %	0.7 %	0.3 %	0.4 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-3 WG1973830
Analysis started at: 9/20/2024 1:42:26 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0530 ppm	2.0210 ppm	0.1229 ppm	1.0441 ppm	2.0087 ppm	0.0499 ppm	28.9447 ppm
Concentration per Run 1	0.0529 ppm	1.9981 ppm	0.1244 ppm	1.0440 ppm	1.9928 ppm	0.0494 ppm	28.7040 ppm
Concentration per Run 2	0.0531 ppm	2.0307 ppm	0.1213 ppm	1.0433 ppm	2.0110 ppm	0.0501 ppm	29.0454 ppm
Concentration per Run 3	0.0531 ppm	2.0344 ppm	0.1229 ppm	1.0450 ppm	2.0222 ppm	0.0502 ppm	29.0849 ppm
Concentration RSD	0.2 %	1.0 %	1.3 %	0.1 %	0.7 %	0.9 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0525 ppm	0.4940 ppm	0.1966 ppm	0.2558 ppm	1.0710 ppm	12.7062 ppm	-0.0010 ppm
Concentration per Run 1	0.0527 ppm	0.4948 ppm	0.1968 ppm	0.2557 ppm	1.0605 ppm	12.6040 ppm	-0.0009 ppm
Concentration per Run 2	0.0525 ppm	0.4939 ppm	0.1968 ppm	0.2564 ppm	1.0748 ppm	12.7307 ppm	-0.0017 ppm
Concentration per Run 3	0.0523 ppm	0.4932 ppm	0.1964 ppm	0.2553 ppm	1.0776 ppm	12.7840 ppm	-0.0003 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.2 %	0.9 %	0.7 %	74.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.8764 ppm	0.5472 ppm	1.0058 ppm	13.1181 ppm	0.4954 ppm	0.5450 ppm	0.5170 ppm
Concentration per Run 1	13.8387 ppm	0.5425 ppm	1.0042 ppm	13.0172 ppm	0.4950 ppm	0.5459 ppm	0.5156 ppm
Concentration per Run 2	13.8851 ppm	0.5489 ppm	1.0056 ppm	13.1772 ppm	0.4955 ppm	0.5442 ppm	0.5176 ppm
Concentration per Run 3	13.9055 ppm	0.5502 ppm	1.0075 ppm	13.1599 ppm	0.4957 ppm	0.5449 ppm	0.5179 ppm
Concentration RSD	0.2 %	0.8 %	0.2 %	0.7 %	0.1 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1263 ppm	5.9037 ppm	1.0046 ppm	1.0334 ppm	1.0319 ppm	0.1236 ppm	0.4936 ppm
Concentration per Run 1	0.1270 ppm	5.9007 ppm	1.0041 ppm	1.0241 ppm	1.0321 ppm	0.1237 ppm	0.4942 ppm
Concentration per Run 2	0.1271 ppm	5.8924 ppm	1.0052 ppm	1.0370 ppm	1.0332 ppm	0.1238 ppm	0.4939 ppm
Concentration per Run 3	0.1248 ppm	5.9179 ppm	1.0044 ppm	1.0392 ppm	1.0302 ppm	0.1232 ppm	0.4927 ppm
Concentration RSD	1.0 %	0.2 %	0.1 %	0.8 %	0.1 %	0.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4942 ppm	98.6379 %	98.0925 %	98.9396 %	99.9286 %	95.7809 %	97.4114 %
Concentration per Run 1	0.4949 ppm	98.6643 %	97.9447 %	98.7581 %	100.9072 %	95.6517 %	97.3549 %
Concentration per Run 2	0.4952 ppm	99.0887 %	98.2933 %	99.0470 %	99.9108 %	95.8469 %	97.3701 %
Concentration per Run 3	0.4926 ppm	98.1606 %	98.0395 %	99.0139 %	98.9678 %	95.8441 %	97.5090 %
Concentration RSD	0.3 %	0.5 %	0.2 %	0.2 %	1.0 %	0.1 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-4 WG1973830
Analysis started at: 9/20/2024 1:48:36 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.0131 ppm	0.1220 ppm	1.0253 ppm	2.0227 ppm	0.0497 ppm	27.9991 ppm
Concentration per Run 1	0.0522 ppm	1.9898 ppm	0.1211 ppm	1.0231 ppm	2.0207 ppm	0.0492 ppm	27.6900 ppm
Concentration per Run 2	0.0520 ppm	2.0124 ppm	0.1244 ppm	1.0263 ppm	2.0035 ppm	0.0497 ppm	27.9489 ppm
Concentration per Run 3	0.0521 ppm	2.0371 ppm	0.1204 ppm	1.0265 ppm	2.0440 ppm	0.0503 ppm	28.3583 ppm
Concentration RSD	0.2 %	1.2 %	1.7 %	0.2 %	1.0 %	1.0 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0522 ppm	0.4919 ppm	0.1959 ppm	0.2550 ppm	1.1484 ppm	12.4786 ppm	-0.0008 ppm
Concentration per Run 1	0.0519 ppm	0.4911 ppm	0.1956 ppm	0.2557 ppm	1.1356 ppm	12.3854 ppm	-0.0012 ppm
Concentration per Run 2	0.0524 ppm	0.4922 ppm	0.1964 ppm	0.2552 ppm	1.1481 ppm	12.6138 ppm	-0.0005 ppm
Concentration per Run 3	0.0523 ppm	0.4924 ppm	0.1957 ppm	0.2542 ppm	1.1616 ppm	12.4366 ppm	-0.0005 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %	0.3 %	1.1 %	1.0 %	53.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.4480 ppm	0.5422 ppm	0.9884 ppm	12.8150 ppm	0.4943 ppm	0.5352 ppm	0.5155 ppm
Concentration per Run 1	13.4382 ppm	0.5371 ppm	0.9863 ppm	12.7328 ppm	0.4930 ppm	0.5341 ppm	0.5146 ppm
Concentration per Run 2	13.4579 ppm	0.5419 ppm	0.9879 ppm	12.8859 ppm	0.4946 ppm	0.5354 ppm	0.5154 ppm
Concentration per Run 3	13.4478 ppm	0.5476 ppm	0.9909 ppm	12.8264 ppm	0.4952 ppm	0.5362 ppm	0.5165 ppm
Concentration RSD	0.1 %	1.0 %	0.2 %	0.6 %	0.2 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1252 ppm	5.7213 ppm	0.9856 ppm	1.0111 ppm	1.0121 ppm	0.1222 ppm	0.4897 ppm
Concentration per Run 1	0.1239 ppm	5.7099 ppm	0.9852 ppm	1.0038 ppm	1.0099 ppm	0.1223 ppm	0.4879 ppm
Concentration per Run 2	0.1269 ppm	5.7240 ppm	0.9849 ppm	1.0120 ppm	1.0157 ppm	0.1230 ppm	0.4915 ppm
Concentration per Run 3	0.1250 ppm	5.7301 ppm	0.9867 ppm	1.0175 ppm	1.0107 ppm	0.1214 ppm	0.4898 ppm
Concentration RSD	1.2 %	0.2 %	0.1 %	0.7 %	0.3 %	0.7 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4936 ppm	100.7737 %	99.4203 %	100.1499 %	100.9340 %	96.7378 %	98.6723 %
Concentration per Run 1	0.4929 ppm	101.0983 %	99.9174 %	100.3934 %	102.1851 %	96.8149 %	99.1871 %
Concentration per Run 2	0.4934 ppm	100.9223 %	99.1963 %	100.0215 %	101.2703 %	96.6607 %	98.2666 %
Concentration per Run 3	0.4946 ppm	100.3006 %	99.1473 %	100.0347 %	99.3466 %	96.7377 %	98.5633 %
Concentration RSD	0.2 %	0.4 %	0.4 %	0.2 %	1.4 %	0.1 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-5 WG1973830
Analysis started at: 9/20/2024 1:54:46 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0492 ppm	1.9581 ppm	0.1168 ppm	0.9977 ppm	1.9614 ppm	0.0485 ppm	27.7220 ppm
Concentration per Run 1	0.0492 ppm	1.9519 ppm	0.1183 ppm	1.0017 ppm	1.9598 ppm	0.0483 ppm	27.6321 ppm
Concentration per Run 2	0.0491 ppm	1.9567 ppm	0.1153 ppm	0.9960 ppm	2.0070 ppm	0.0485 ppm	27.7174 ppm
Concentration per Run 3	0.0492 ppm	1.9658 ppm	0.1168 ppm	0.9955 ppm	1.9173 ppm	0.0486 ppm	27.8164 ppm
Concentration RSD	0.1 %	0.4 %	1.3 %	0.3 %	2.3 %	0.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0511 ppm	0.4798 ppm	0.1916 ppm	0.2473 ppm	1.0437 ppm	12.1881 ppm	-0.0005 ppm
Concentration per Run 1	0.0511 ppm	0.4807 ppm	0.1932 ppm	0.2464 ppm	1.0381 ppm	12.1199 ppm	-0.0016 ppm
Concentration per Run 2	0.0513 ppm	0.4792 ppm	0.1905 ppm	0.2477 ppm	1.0464 ppm	12.2141 ppm	-0.0006 ppm
Concentration per Run 3	0.0510 ppm	0.4796 ppm	0.1913 ppm	0.2478 ppm	1.0466 ppm	12.2303 ppm	0.0006 ppm
Concentration RSD	0.3 %	0.2 %	0.7 %	0.3 %	0.5 %	0.5 %	215.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.2916 ppm	0.5310 ppm	0.9626 ppm	12.6220 ppm	0.4829 ppm	0.5218 ppm	0.4919 ppm
Concentration per Run 1	13.2650 ppm	0.5286 ppm	0.9638 ppm	12.5638 ppm	0.4844 ppm	0.5222 ppm	0.4937 ppm
Concentration per Run 2	13.2380 ppm	0.5308 ppm	0.9617 ppm	12.6346 ppm	0.4816 ppm	0.5219 ppm	0.4917 ppm
Concentration per Run 3	13.3719 ppm	0.5336 ppm	0.9625 ppm	12.6676 ppm	0.4825 ppm	0.5212 ppm	0.4902 ppm
Concentration RSD	0.5 %	0.5 %	0.1 %	0.4 %	0.3 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1200 ppm	5.5695 ppm	0.9741 ppm	0.9893 ppm	0.9945 ppm	0.1180 ppm	0.4808 ppm
Concentration per Run 1	0.1193 ppm	5.5902 ppm	0.9748 ppm	0.9831 ppm	1.0001 ppm	0.1186 ppm	0.4835 ppm
Concentration per Run 2	0.1201 ppm	5.5523 ppm	0.9755 ppm	0.9923 ppm	0.9916 ppm	0.1175 ppm	0.4789 ppm
Concentration per Run 3	0.1205 ppm	5.5659 ppm	0.9721 ppm	0.9926 ppm	0.9919 ppm	0.1180 ppm	0.4799 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.5 %	0.5 %	0.5 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4846 ppm	99.0284 %	97.7868 %	99.1244 %	99.8335 %	95.3649 %	96.9993 %
Concentration per Run 1	0.4841 ppm	99.0372 %	97.8894 %	98.7915 %	100.1115 %	95.1101 %	96.7809 %
Concentration per Run 2	0.4860 ppm	99.2117 %	98.0969 %	99.4746 %	99.7884 %	95.8325 %	97.3016 %
Concentration per Run 3	0.4838 ppm	98.8362 %	97.3743 %	99.1072 %	99.6007 %	95.1523 %	96.9155 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1973830-6D5 WG1973830
Analysis started at: 9/20/2024 2:00:56 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0061 ppm	-0.0002 ppm	0.0046 ppm	0.0045 ppm	0.0000 ppm	3.6846 ppm
Concentration per Run 1	0.0002 ppm	0.0028 ppm	-0.0012 ppm	0.0046 ppm	0.0044 ppm	0.0000 ppm	3.6365 ppm
Concentration per Run 2	-0.0002 ppm	0.0054 ppm	0.0007 ppm	0.0046 ppm	0.0045 ppm	0.0000 ppm	3.7116 ppm
Concentration per Run 3	-0.0003 ppm	0.0101 ppm	0.0000 ppm	0.0045 ppm	0.0045 ppm	0.0000 ppm	3.7055 ppm
Concentration RSD	239.1 %	60.4 %	584.2 %	1.8 %	0.9 %	189.7 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0152 ppm	0.3508 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0151 ppm	0.3394 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0152 ppm	0.3547 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0154 ppm	0.3582 ppm	0.0002 ppm
Concentration RSD	47.6 %	16.8 %	689.2 %	13.8 %	1.0 %	2.9 %	570.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6554 ppm	0.0099 ppm	0.0012 ppm	0.4815 ppm	-0.0002 ppm	0.0002 ppm	0.0010 ppm
Concentration per Run 1	0.6531 ppm	0.0097 ppm	0.0014 ppm	0.4791 ppm	-0.0004 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 2	0.6556 ppm	0.0100 ppm	0.0010 ppm	0.4815 ppm	-0.0002 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.6574 ppm	0.0100 ppm	0.0011 ppm	0.4839 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm
Concentration RSD	0.3 %	1.5 %	19.7 %	0.5 %	91.3 %	295.7 %	21.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.9161 ppm	0.0009 ppm	0.0109 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0019 ppm	0.9134 ppm	0.0008 ppm	0.0108 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	0.9177 ppm	0.0010 ppm	0.0109 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.9173 ppm	0.0010 ppm	0.0110 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration RSD	59.8 %	0.3 %	12.3 %	0.9 %	255.3 %	108.8 %	285.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	99.5623 %	100.5222 %	102.2040 %	100.2601 %	101.8816 %	100.9017 %
Concentration per Run 1	0.0009 ppm	100.1962 %	100.7507 %	102.3536 %	101.3296 %	102.2686 %	100.7667 %
Concentration per Run 2	0.0008 ppm	98.9339 %	100.5878 %	102.0324 %	99.7202 %	101.6110 %	101.2880 %
Concentration per Run 3	0.0006 ppm	99.5569 %	100.2282 %	102.2261 %	99.7304 %	101.7653 %	100.6505 %
Concentration RSD	16.1 %	0.6 %	0.3 %	0.2 %	0.9 %	0.3 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 2:07:17 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5095 ppm	0.5019 ppm	0.5035 ppm	0.5129 ppm	0.4926 ppm	0.5022 ppm	0.4986 ppm
Concentration per Run 1	0.5100 ppm	0.4958 ppm	0.5034 ppm	0.5117 ppm	0.4823 ppm	0.4918 ppm	0.4885 ppm
Concentration per Run 2	0.5083 ppm	0.5019 ppm	0.5033 ppm	0.5134 ppm	0.4947 ppm	0.5054 ppm	0.5021 ppm
Concentration per Run 3	0.5102 ppm	0.5080 ppm	0.5040 ppm	0.5134 ppm	0.5008 ppm	0.5093 ppm	0.5050 ppm
Recovery Percentage 1	101.898 %	100.377 %	100.710 %	102.571 %	98.516 %	100.434 %	99.711 %
Concentration RSD	0.2 %	1.2 %	0.1 %	0.2 %	1.9 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5050 ppm	0.5154 ppm	0.4951 ppm	0.4867 ppm	0.5291 ppm	5.2563 ppm	0.4932 ppm
Concentration per Run 1	0.5038 ppm	0.5143 ppm	0.4958 ppm	0.4874 ppm	0.5185 ppm	5.1868 ppm	0.4834 ppm
Concentration per Run 2	0.5055 ppm	0.5162 ppm	0.4941 ppm	0.4856 ppm	0.5317 ppm	5.3025 ppm	0.4977 ppm
Concentration per Run 3	0.5056 ppm	0.5158 ppm	0.4954 ppm	0.4870 ppm	0.5371 ppm	5.2797 ppm	0.4985 ppm
Recovery Percentage 1	100.993 %	103.088 %	99.022 %	97.332 %	105.818 %	105.127 %	98.644 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	1.8 %	1.2 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5026 ppm	0.4913 ppm	0.4985 ppm	9.8815 ppm	0.5184 ppm	0.5219 ppm	0.5167 ppm
Concentration per Run 1	0.4985 ppm	0.4815 ppm	0.4969 ppm	9.6947 ppm	0.5176 ppm	0.5201 ppm	0.5152 ppm
Concentration per Run 2	0.5025 ppm	0.4961 ppm	0.4988 ppm	9.9433 ppm	0.5188 ppm	0.5226 ppm	0.5174 ppm
Concentration per Run 3	0.5068 ppm	0.4962 ppm	0.4997 ppm	10.0066 ppm	0.5189 ppm	0.5230 ppm	0.5176 ppm
Recovery Percentage 1	100.518 %	98.252 %	99.695 %	98.815 %	103.689 %	104.379 %	103.340 %
Concentration RSD	0.8 %	1.7 %	0.3 %	1.7 %	0.1 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5230 ppm	5.6912 ppm	0.4869 ppm	0.4672 ppm	0.5014 ppm	0.5307 ppm	0.4903 ppm
Concentration per Run 1	0.5219 ppm	5.6841 ppm	0.4853 ppm	0.4578 ppm	0.5029 ppm	0.5293 ppm	0.4917 ppm
Concentration per Run 2	0.5230 ppm	5.6919 ppm	0.4873 ppm	0.4698 ppm	0.5006 ppm	0.5311 ppm	0.4896 ppm
Concentration per Run 3	0.5240 ppm	5.6976 ppm	0.4882 ppm	0.4741 ppm	0.5009 ppm	0.5316 ppm	0.4895 ppm
Recovery Percentage 1	104.591 %	108.404 %	97.387 %	93.443 %	100.288 %	106.138 %	98.051 %
Concentration RSD	0.2 %	0.1 %	0.3 %	1.8 %	0.3 %	0.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5358 ppm	97.6445 %	98.0927 %	99.8815 %	98.6960 %	97.6078 %	98.8536 %
Concentration per Run 1	0.5340 ppm	98.2725 %	98.0850 %	99.9380 %	100.4725 %	97.5235 %	98.7073 %
Concentration per Run 2	0.5360 ppm	96.9743 %	98.2535 %	99.9315 %	98.0835 %	97.6981 %	98.8752 %
Concentration per Run 3	0.5373 ppm	97.6868 %	97.9395 %	99.7751 %	97.5320 %	97.6018 %	98.9783 %
Recovery Percentage 1	107.150 %						
Concentration RSD	0.3 %	0.7 %	0.2 %	0.1 %	1.6 %	0.1 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 2:13:20 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0117 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0097 ppm	0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0121 ppm	-0.0010 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0134 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0026 ppm
Recovery Percentage 1	-0.904 %	11.714 %	0.749 %	4.190 %	-0.129 %	0.254 %	-0.409 %
Concentration RSD	187.4 %	15.9 %	2,495.3 %	22.2 %	766.8 %	182.2 %	463.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0012 ppm	-0.0134 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm	-0.0220 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0004 ppm	-0.0161 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0019 ppm	-0.0020 ppm	0.0000 ppm
Recovery Percentage 1	0.752 %	0.287 %	1.798 %	-1.391 %	2.366 %	-0.535 %	-0.790 %
Concentration RSD	103.4 %	49.5 %	59.8 %	23.5 %	64.5 %	76.6 %	345.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0058 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	0.0005 ppm	0.0074 ppm	-0.0003 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0099 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0011 ppm
Recovery Percentage 1	0.252 %	-0.610 %	1.032 %	0.289 %	-1.269 %	0.715 %	0.468 %
Concentration RSD	264.8 %	192.7 %	15.6 %	88.6 %	21.7 %	496.4 %	398.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0010 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	-0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	4.452 %	-0.058 %	0.562 %	-0.137 %	-0.843 %	0.664 %	0.487 %
Concentration RSD	221.5 %	688.0 %	67.3 %	65.8 %	41.2 %	188.5 %	163.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	96.0737 %	98.5140 %	103.1213 %	97.0720 %	102.4682 %	98.7123 %
Concentration per Run 1	0.0003 ppm	94.1878 %	98.6287 %	103.0170 %	96.9303 %	102.2598 %	98.3956 %
Concentration per Run 2	0.0004 ppm	97.2131 %	98.6776 %	103.2310 %	96.9113 %	102.6551 %	99.0216 %
Concentration per Run 3	0.0003 ppm	96.8202 %	98.2358 %	103.1159 %	97.3745 %	102.4898 %	98.7198 %
Recovery Percentage 1	6.842 %						
Concentration RSD	25.0 %	1.7 %	0.2 %	0.1 %	0.3 %	0.2 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-17 WG1974186
Analysis started at: 9/20/2024 2:19:46 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0090 ppm	-0.0004 ppm	0.0006 ppm	0.0022 ppm	0.0001 ppm	0.0059 ppm
Concentration per Run 1	-0.0001 ppm	0.0130 ppm	0.0003 ppm	0.0008 ppm	0.0022 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 2	-0.0001 ppm	0.0063 ppm	-0.0007 ppm	0.0004 ppm	0.0022 ppm	0.0001 ppm	0.0048 ppm
Concentration per Run 3	0.0001 ppm	0.0078 ppm	-0.0007 ppm	0.0006 ppm	0.0021 ppm	0.0001 ppm	0.0048 ppm
Recovery Percentage 1	-0.365 %	9.033 %	-7.237 %	1.992 %	21.899 %	1.737 %	5.909 %
Concentration RSD	424.4 %	39.0 %	146.5 %	36.6 %	3.4 %	31.9 %	32.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0008 ppm	-0.0003 ppm	0.0005 ppm	-0.0019 ppm	-0.0096 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0004 ppm	-0.0008 ppm	0.0100 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	-0.0003 ppm	0.0004 ppm	-0.0022 ppm	-0.0187 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	-0.0004 ppm	0.0007 ppm	-0.0026 ppm	-0.0201 ppm	-0.0001 ppm
Recovery Percentage 1	2.052 %	4.066 %	-3.015 %	5.192 %	-3.774 %	-0.384 %	-4.483 %
Concentration RSD	23.1 %	13.6 %	31.0 %	30.2 %	50.9 %	177.0 %	82.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0012 ppm	0.0009 ppm	0.0001 ppm	0.0075 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.0020 ppm	0.0009 ppm	0.0000 ppm	0.0101 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	0.0009 ppm	0.0001 ppm	0.0076 ppm	0.0005 ppm	0.0009 ppm	0.0013 ppm
Concentration per Run 3	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0049 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	1.231 %	8.908 %	0.125 %	0.377 %	1.705 %	4.053 %	1.454 %
Concentration RSD	52.4 %	4.9 %	85.9 %	34.3 %	16.0 %	127.0 %	71.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	-0.0022 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0009 ppm	-0.0025 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 2	-0.0002 ppm	-0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0009 ppm	-0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Recovery Percentage 1	5.189 %	-0.442 %	0.285 %	-0.187 %	-1.389 %	0.902 %	6.306 %
Concentration RSD	126.6 %	13.2 %	204.2 %	162.3 %	125.6 %	257.9 %	15.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	99.6462 %	100.7230 %	102.5695 %	99.7417 %	103.8213 %	100.9672 %
Concentration per Run 1	0.0014 ppm	100.3034 %	100.7593 %	102.4035 %	99.8656 %	103.8133 %	100.8814 %
Concentration per Run 2	0.0014 ppm	98.4765 %	100.6474 %	102.6264 %	99.4306 %	103.6055 %	101.0981 %
Concentration per Run 3	0.0015 ppm	100.1587 %	100.7624 %	102.6784 %	99.9290 %	104.0452 %	100.9221 %
Recovery Percentage 1	28.507 %						
Concentration RSD	4.5 %	1.0 %	0.1 %	0.1 %	0.3 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-18 WG1974186
Analysis started at: 9/20/2024 2:26:11 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0520 ppm	2.0083 ppm	0.1214 ppm	1.0020 ppm	1.9670 ppm	0.0498 ppm	10.1458 ppm
Concentration per Run 1	0.0522 ppm	1.9785 ppm	0.1211 ppm	1.0027 ppm	1.9936 ppm	0.0493 ppm	10.0945 ppm
Concentration per Run 2	0.0518 ppm	2.0107 ppm	0.1209 ppm	1.0009 ppm	1.9598 ppm	0.0497 ppm	10.1026 ppm
Concentration per Run 3	0.0521 ppm	2.0357 ppm	0.1223 ppm	1.0023 ppm	1.9476 ppm	0.0504 ppm	10.2403 ppm
Concentration RSD	0.4 %	1.4 %	0.7 %	0.1 %	1.2 %	1.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0534 ppm	0.5021 ppm	0.1985 ppm	0.2529 ppm	1.0032 ppm	10.7255 ppm	-0.0010 ppm
Concentration per Run 1	0.0534 ppm	0.5019 ppm	0.1972 ppm	0.2524 ppm	0.9977 ppm	10.5780 ppm	-0.0008 ppm
Concentration per Run 2	0.0535 ppm	0.5025 ppm	0.2000 ppm	0.2532 ppm	0.9970 ppm	10.7436 ppm	-0.0008 ppm
Concentration per Run 3	0.0533 ppm	0.5019 ppm	0.1984 ppm	0.2530 ppm	1.0149 ppm	10.8547 ppm	-0.0013 ppm
Concentration RSD	0.2 %	0.1 %	0.7 %	0.2 %	1.0 %	1.3 %	27.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3139 ppm	0.5001 ppm	1.0091 ppm	10.5319 ppm	0.5088 ppm	0.5483 ppm	0.5117 ppm
Concentration per Run 1	10.3288 ppm	0.4954 ppm	1.0085 ppm	10.3945 ppm	0.5096 ppm	0.5488 ppm	0.5112 ppm
Concentration per Run 2	10.3216 ppm	0.4989 ppm	1.0086 ppm	10.5399 ppm	0.5084 ppm	0.5479 ppm	0.5116 ppm
Concentration per Run 3	10.2914 ppm	0.5058 ppm	1.0102 ppm	10.6614 ppm	0.5085 ppm	0.5483 ppm	0.5123 ppm
Concentration RSD	0.2 %	1.1 %	0.1 %	1.3 %	0.1 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1228 ppm	1.1365 ppm	1.0014 ppm	0.9611 ppm	1.0248 ppm	0.1233 ppm	0.4943 ppm
Concentration per Run 1	0.1247 ppm	1.1393 ppm	1.0009 ppm	0.9500 ppm	1.0180 ppm	0.1232 ppm	0.4907 ppm
Concentration per Run 2	0.1228 ppm	1.1335 ppm	1.0005 ppm	0.9619 ppm	1.0327 ppm	0.1233 ppm	0.4978 ppm
Concentration per Run 3	0.1208 ppm	1.1366 ppm	1.0027 ppm	0.9713 ppm	1.0238 ppm	0.1234 ppm	0.4944 ppm
Concentration RSD	1.6 %	0.3 %	0.1 %	1.1 %	0.7 %	0.1 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5028 ppm	99.9836 %	99.6831 %	101.4599 %	101.4740 %	98.1552 %	100.1441 %
Concentration per Run 1	0.5025 ppm	99.9553 %	99.3100 %	101.2828 %	102.2768 %	98.1097 %	100.4735 %
Concentration per Run 2	0.5036 ppm	99.6609 %	99.9627 %	101.4728 %	101.6659 %	98.2198 %	99.8424 %
Concentration per Run 3	0.5023 ppm	100.3344 %	99.7767 %	101.6242 %	100.4791 %	98.1361 %	100.1163 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.2 %	0.9 %	0.1 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-02 WG1974186
Analysis started at: 9/20/2024 2:32:24 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0024 ppm	0.0011 ppm	0.0321 ppm	0.0235 ppm	0.0000 ppm	10.1652 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0018 ppm	0.0326 ppm	0.0234 ppm	0.0000 ppm	10.0894 ppm
Concentration per Run 2	-0.0001 ppm	0.0068 ppm	0.0016 ppm	0.0320 ppm	0.0235 ppm	0.0000 ppm	10.1528 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0317 ppm	0.0236 ppm	0.0000 ppm	10.2535 ppm
Concentration RSD	1.2 %	161.5 %	101.5 %	1.5 %	0.5 %	418.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0069 ppm	-0.0005 ppm	0.0003 ppm	2.6187 ppm	0.9687 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0069 ppm	-0.0004 ppm	0.0003 ppm	2.6031 ppm	0.9654 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0067 ppm	-0.0005 ppm	0.0005 ppm	2.6115 ppm	0.9734 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0070 ppm	-0.0005 ppm	0.0002 ppm	2.6415 ppm	0.9673 ppm	-0.0002 ppm
Concentration RSD	34.7 %	2.3 %	14.5 %	41.3 %	0.8 %	0.4 %	258.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.4547 ppm	0.1051 ppm	0.0009 ppm	8.1096 ppm	0.0014 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 1	4.4567 ppm	0.1042 ppm	0.0010 ppm	8.0830 ppm	0.0016 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	4.4648 ppm	0.1050 ppm	0.0009 ppm	8.0822 ppm	0.0013 ppm	-0.0017 ppm	0.0012 ppm
Concentration per Run 3	4.4427 ppm	0.1061 ppm	0.0008 ppm	8.1636 ppm	0.0014 ppm	-0.0012 ppm	-0.0005 ppm
Concentration RSD	0.3 %	0.9 %	13.0 %	0.6 %	10.2 %	22.1 %	354.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0022 ppm	7.7802 ppm	0.0001 ppm	0.0378 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0020 ppm	7.8149 ppm	0.0002 ppm	0.0377 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0012 ppm	7.7499 ppm	-0.0001 ppm	0.0378 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0033 ppm	7.7757 ppm	0.0001 ppm	0.0380 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration RSD	48.0 %	0.4 %	249.0 %	0.4 %	211.0 %	138.7 %	1,283.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0073 ppm	100.0014 %	99.6136 %	101.6739 %	100.5680 %	99.5840 %	100.8312 %
Concentration per Run 1	0.0071 ppm	100.4831 %	99.5579 %	101.3391 %	101.3663 %	99.2501 %	100.8353 %
Concentration per Run 2	0.0074 ppm	99.4490 %	99.5255 %	102.0511 %	100.5783 %	99.7552 %	100.3668 %
Concentration per Run 3	0.0073 ppm	100.0720 %	99.7574 %	101.6315 %	99.7595 %	99.7468 %	101.2914 %
Concentration RSD	1.7 %	0.5 %	0.1 %	0.4 %	0.8 %	0.3 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-03 WG1974186
Analysis started at: 9/20/2024 2:38:43 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0136 ppm	0.0255 ppm	0.0000 ppm	29.2653 ppm
Concentration per Run 1	-0.0003 ppm	0.0034 ppm	0.0006 ppm	0.0133 ppm	0.0254 ppm	0.0000 ppm	29.1219 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	-0.0010 ppm	0.0136 ppm	0.0255 ppm	0.0000 ppm	29.3379 ppm
Concentration per Run 3	0.0001 ppm	-0.0032 ppm	-0.0007 ppm	0.0138 ppm	0.0257 ppm	0.0000 ppm	29.3362 ppm
Concentration RSD	467.7 %	1,240.1 %	228.0 %	1.7 %	0.5 %	33.5 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm	0.0090 ppm	1.1912 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0010 ppm	0.0086 ppm	1.1950 ppm	-0.0013 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0094 ppm	1.1780 ppm	-0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0011 ppm	0.0090 ppm	1.2006 ppm	-0.0006 ppm
Concentration RSD	11.0 %	829.7 %	3.9 %	10.0 %	4.4 %	1.0 %	44.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.5374 ppm	0.0007 ppm	0.0005 ppm	3.7309 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	8.5437 ppm	0.0008 ppm	0.0006 ppm	3.7223 ppm	-0.0003 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	8.5393 ppm	0.0007 ppm	0.0004 ppm	3.7270 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 3	8.5293 ppm	0.0008 ppm	0.0004 ppm	3.7434 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm
Concentration RSD	0.1 %	8.5 %	31.0 %	0.3 %	510.0 %	132.0 %	26.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0028 ppm	2.9921 ppm	-0.0001 ppm	0.0565 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0027 ppm	2.9884 ppm	0.0001 ppm	0.0562 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0037 ppm	2.9932 ppm	-0.0002 ppm	0.0566 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0018 ppm	2.9947 ppm	0.0000 ppm	0.0567 ppm	-0.0002 ppm	0.0005 ppm	0.0002 ppm
Concentration RSD	34.2 %	0.1 %	252.7 %	0.4 %	15.2 %	158.5 %	83.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0038 ppm	100.3592 %	100.1505 %	101.9738 %	101.3696 %	98.3412 %	100.6548 %
Concentration per Run 1	0.0037 ppm	100.7877 %	99.7326 %	102.1405 %	101.7944 %	98.2843 %	99.9890 %
Concentration per Run 2	0.0037 ppm	99.9266 %	100.4537 %	102.0402 %	101.1784 %	98.4803 %	101.2298 %
Concentration per Run 3	0.0039 ppm	100.3632 %	100.2652 %	101.7408 %	101.1361 %	98.2590 %	100.7455 %
Concentration RSD	3.0 %	0.4 %	0.4 %	0.2 %	0.4 %	0.1 %	0.6 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-04 WG1974186
Analysis started at: 9/20/2024 2:45:02 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0040 ppm	0.0007 ppm	0.0075 ppm	0.0252 ppm	0.0000 ppm	14.8284 ppm
Concentration per Run 1	0.0000 ppm	0.0064 ppm	0.0007 ppm	0.0072 ppm	0.0250 ppm	0.0000 ppm	14.8183 ppm
Concentration per Run 2	0.0000 ppm	0.0021 ppm	0.0003 ppm	0.0075 ppm	0.0253 ppm	0.0000 ppm	14.8349 ppm
Concentration per Run 3	-0.0005 ppm	0.0035 ppm	0.0010 ppm	0.0077 ppm	0.0251 ppm	0.0000 ppm	14.8319 ppm
Concentration RSD	184.3 %	54.7 %	51.5 %	2.9 %	0.5 %	514.9 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0019 ppm	-0.0003 ppm	0.0003 ppm	2.8959 ppm	0.8404 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0019 ppm	-0.0001 ppm	0.0004 ppm	2.8860 ppm	0.8655 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0018 ppm	-0.0005 ppm	0.0004 ppm	2.9078 ppm	0.8219 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0020 ppm	-0.0004 ppm	0.0001 ppm	2.8939 ppm	0.8339 ppm	0.0011 ppm
Concentration RSD	28.4 %	5.1 %	60.0 %	65.4 %	0.4 %	2.7 %	60.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.4428 ppm	0.2057 ppm	0.0002 ppm	7.1813 ppm	-0.0002 ppm	-0.0018 ppm	0.0003 ppm
Concentration per Run 1	5.4419 ppm	0.2052 ppm	0.0001 ppm	7.1530 ppm	0.0001 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	5.4420 ppm	0.2064 ppm	0.0002 ppm	7.2339 ppm	-0.0004 ppm	-0.0020 ppm	0.0005 ppm
Concentration per Run 3	5.4444 ppm	0.2055 ppm	0.0002 ppm	7.1569 ppm	-0.0002 ppm	-0.0023 ppm	0.0004 ppm
Concentration RSD	0.0 %	0.3 %	19.5 %	0.6 %	163.9 %	30.2 %	78.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	9.6565 ppm	-0.0003 ppm	0.0758 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	9.6596 ppm	-0.0003 ppm	0.0755 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0020 ppm	9.6623 ppm	0.0002 ppm	0.0763 ppm	0.0002 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	9.6477 ppm	-0.0007 ppm	0.0758 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	113.7 %	0.1 %	164.0 %	0.5 %	317.1 %	96.8 %	55.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	100.6408 %	99.5438 %	101.2366 %	102.7720 %	97.5228 %	100.7252 %
Concentration per Run 1	0.0010 ppm	100.1315 %	99.3450 %	101.3086 %	102.8974 %	97.4490 %	101.1708 %
Concentration per Run 2	0.0010 ppm	101.3239 %	99.9387 %	101.0672 %	102.9014 %	97.5313 %	100.6463 %
Concentration per Run 3	0.0011 ppm	100.4670 %	99.3477 %	101.3339 %	102.5173 %	97.5882 %	100.3586 %
Concentration RSD	7.7 %	0.6 %	0.3 %	0.1 %	0.2 %	0.1 %	0.4 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-01 WG1974186
Analysis started at: 9/20/2024 2:51:21 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0041 ppm	0.0002 ppm	0.0103 ppm	0.0210 ppm	0.0000 ppm	17.0544 ppm
Concentration per Run 1	0.0001 ppm	0.0066 ppm	0.0015 ppm	0.0103 ppm	0.0208 ppm	0.0000 ppm	16.9186 ppm
Concentration per Run 2	-0.0002 ppm	0.0010 ppm	-0.0010 ppm	0.0107 ppm	0.0209 ppm	0.0000 ppm	17.0719 ppm
Concentration per Run 3	-0.0002 ppm	0.0045 ppm	0.0001 ppm	0.0099 ppm	0.0213 ppm	0.0000 ppm	17.1727 ppm
Concentration RSD	147.4 %	70.4 %	694.4 %	3.9 %	1.2 %	1,159.7 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0691 ppm	1.6959 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0675 ppm	1.6643 ppm	-0.0005 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0695 ppm	1.7069 ppm	-0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0704 ppm	1.7165 ppm	0.0003 ppm
Concentration RSD	8.5 %	131.0 %	2,105.4 %	26.2 %	2.1 %	1.6 %	167.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.0206 ppm	0.0492 ppm	0.0002 ppm	2.2746 ppm	-0.0006 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 1	3.0154 ppm	0.0488 ppm	0.0003 ppm	2.2456 ppm	-0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	3.0283 ppm	0.0492 ppm	0.0001 ppm	2.2733 ppm	-0.0005 ppm	-0.0008 ppm	0.0005 ppm
Concentration per Run 3	3.0180 ppm	0.0494 ppm	0.0002 ppm	2.3048 ppm	-0.0006 ppm	0.0005 ppm	0.0010 ppm
Concentration RSD	0.2 %	0.6 %	30.8 %	1.3 %	24.3 %	464.8 %	75.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	4.3599 ppm	-0.0001 ppm	0.0509 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0019 ppm	4.3674 ppm	0.0002 ppm	0.0503 ppm	-0.0002 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	-0.0002 ppm	4.3746 ppm	-0.0002 ppm	0.0509 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	4.3377 ppm	-0.0003 ppm	0.0514 ppm	-0.0001 ppm	0.0012 ppm	0.0003 ppm
Concentration RSD	140.2 %	0.4 %	226.2 %	1.0 %	95.9 %	512.0 %	78.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	100.7386 %	100.3477 %	102.2602 %	101.7456 %	99.1387 %	100.8981 %
Concentration per Run 1	0.0017 ppm	100.9237 %	100.2753 %	102.1511 %	102.8056 %	98.8688 %	100.9999 %
Concentration per Run 2	0.0017 ppm	100.0550 %	100.5795 %	102.0550 %	101.5579 %	99.1079 %	100.0888 %
Concentration per Run 3	0.0017 ppm	101.2372 %	100.1881 %	102.5745 %	100.8734 %	99.4394 %	101.6055 %
Concentration RSD	0.7 %	0.6 %	0.2 %	0.3 %	1.0 %	0.3 %	0.8 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-19 WG1974186
Analysis started at: 9/20/2024 2:57:42 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	1.9375 ppm	0.1217 ppm	1.0118 ppm	1.9247 ppm	0.0486 ppm	26.6976 ppm
Concentration per Run 1	0.0504 ppm	1.9085 ppm	0.1222 ppm	1.0127 ppm	1.9175 ppm	0.0478 ppm	26.3846 ppm
Concentration per Run 2	0.0500 ppm	1.9421 ppm	0.1216 ppm	1.0109 ppm	1.9155 ppm	0.0486 ppm	26.7907 ppm
Concentration per Run 3	0.0500 ppm	1.9620 ppm	0.1212 ppm	1.0118 ppm	1.9412 ppm	0.0492 ppm	26.9176 ppm
Concentration RSD	0.4 %	1.4 %	0.4 %	0.1 %	0.7 %	1.5 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0514 ppm	0.4815 ppm	0.1922 ppm	0.2448 ppm	1.0373 ppm	12.4241 ppm	-0.0013 ppm
Concentration per Run 1	0.0514 ppm	0.4807 ppm	0.1914 ppm	0.2450 ppm	1.0223 ppm	12.3200 ppm	-0.0013 ppm
Concentration per Run 2	0.0515 ppm	0.4827 ppm	0.1927 ppm	0.2454 ppm	1.0373 ppm	12.3931 ppm	-0.0010 ppm
Concentration per Run 3	0.0512 ppm	0.4812 ppm	0.1926 ppm	0.2440 ppm	1.0523 ppm	12.5593 ppm	-0.0015 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %	0.3 %	1.4 %	1.0 %	20.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.0051 ppm	0.5304 ppm	0.9859 ppm	12.6880 ppm	0.4919 ppm	0.5352 ppm	0.4971 ppm
Concentration per Run 1	12.9693 ppm	0.5251 ppm	0.9849 ppm	12.5232 ppm	0.4914 ppm	0.5349 ppm	0.4980 ppm
Concentration per Run 2	13.0041 ppm	0.5314 ppm	0.9868 ppm	12.6482 ppm	0.4930 ppm	0.5356 ppm	0.4971 ppm
Concentration per Run 3	13.0419 ppm	0.5348 ppm	0.9859 ppm	12.8926 ppm	0.4912 ppm	0.5351 ppm	0.4961 ppm
Concentration RSD	0.3 %	0.9 %	0.1 %	1.5 %	0.2 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1257 ppm	5.5001 ppm	0.9740 ppm	0.9890 ppm	1.0071 ppm	0.1209 ppm	0.4775 ppm
Concentration per Run 1	0.1247 ppm	5.5047 ppm	0.9733 ppm	0.9774 ppm	1.0040 ppm	0.1213 ppm	0.4759 ppm
Concentration per Run 2	0.1258 ppm	5.4972 ppm	0.9760 ppm	0.9899 ppm	1.0100 ppm	0.1210 ppm	0.4785 ppm
Concentration per Run 3	0.1266 ppm	5.4984 ppm	0.9728 ppm	0.9998 ppm	1.0073 ppm	0.1205 ppm	0.4780 ppm
Concentration RSD	0.8 %	0.1 %	0.2 %	1.1 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4857 ppm	100.9566 %	99.6181 %	101.4746 %	102.5707 %	96.3582 %	100.4446 %
Concentration per Run 1	0.4849 ppm	100.8557 %	99.5985 %	101.5855 %	103.4197 %	96.5892 %	100.5787 %
Concentration per Run 2	0.4871 ppm	100.5724 %	99.7001 %	101.4518 %	102.1216 %	96.2624 %	100.2963 %
Concentration per Run 3	0.4851 ppm	101.4416 %	99.5558 %	101.3865 %	102.1709 %	96.2231 %	100.4588 %
Concentration RSD	0.2 %	0.4 %	0.1 %	0.1 %	0.7 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-20 WG1974186
Analysis started at: 9/20/2024 3:03:52 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0524 ppm	2.0382 ppm	0.1243 ppm	1.0392 ppm	2.0286 ppm	0.0510 ppm	28.0085 ppm
Concentration per Run 1	0.0522 ppm	2.0239 ppm	0.1250 ppm	1.0371 ppm	2.0005 ppm	0.0507 ppm	27.8638 ppm
Concentration per Run 2	0.0525 ppm	2.0471 ppm	0.1238 ppm	1.0407 ppm	2.0278 ppm	0.0509 ppm	27.9866 ppm
Concentration per Run 3	0.0524 ppm	2.0435 ppm	0.1242 ppm	1.0399 ppm	2.0573 ppm	0.0513 ppm	28.1752 ppm
Concentration RSD	0.3 %	0.6 %	0.5 %	0.2 %	1.4 %	0.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0534 ppm	0.5014 ppm	0.2015 ppm	0.2559 ppm	1.0925 ppm	12.7439 ppm	-0.0013 ppm
Concentration per Run 1	0.0535 ppm	0.5018 ppm	0.2021 ppm	0.2552 ppm	1.0869 ppm	12.6058 ppm	-0.0012 ppm
Concentration per Run 2	0.0535 ppm	0.5012 ppm	0.2007 ppm	0.2561 ppm	1.0917 ppm	12.9263 ppm	-0.0010 ppm
Concentration per Run 3	0.0533 ppm	0.5012 ppm	0.2018 ppm	0.2563 ppm	1.0988 ppm	12.6995 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	0.2 %	0.5 %	1.3 %	19.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.4339 ppm	0.5562 ppm	1.0138 ppm	13.1217 ppm	0.5111 ppm	0.5493 ppm	0.5197 ppm
Concentration per Run 1	13.4377 ppm	0.5525 ppm	1.0131 ppm	12.9745 ppm	0.5114 ppm	0.5508 ppm	0.5176 ppm
Concentration per Run 2	13.4477 ppm	0.5551 ppm	1.0140 ppm	13.3123 ppm	0.5110 ppm	0.5484 ppm	0.5201 ppm
Concentration per Run 3	13.4162 ppm	0.5611 ppm	1.0142 ppm	13.0785 ppm	0.5109 ppm	0.5489 ppm	0.5213 ppm
Concentration RSD	0.1 %	0.8 %	0.1 %	1.3 %	0.1 %	0.2 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1301 ppm	5.7358 ppm	1.0024 ppm	1.0240 ppm	1.0448 ppm	0.1240 ppm	0.5026 ppm
Concentration per Run 1	0.1306 ppm	5.7336 ppm	1.0028 ppm	1.0140 ppm	1.0439 ppm	0.1236 ppm	0.5020 ppm
Concentration per Run 2	0.1301 ppm	5.7373 ppm	1.0012 ppm	1.0306 ppm	1.0435 ppm	0.1239 ppm	0.5021 ppm
Concentration per Run 3	0.1295 ppm	5.7364 ppm	1.0034 ppm	1.0273 ppm	1.0469 ppm	0.1245 ppm	0.5038 ppm
Concentration RSD	0.4 %	0.0 %	0.1 %	0.9 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5056 ppm	99.9768 %	99.1062 %	100.3584 %	100.9095 %	95.4149 %	98.9561 %
Concentration per Run 1	0.5063 ppm	99.6766 %	98.9868 %	100.3436 %	101.3566 %	95.2381 %	99.0601 %
Concentration per Run 2	0.5060 ppm	100.8081 %	99.0335 %	100.2998 %	101.4249 %	95.6288 %	98.9436 %
Concentration per Run 3	0.5045 ppm	99.4458 %	99.2982 %	100.4318 %	99.9470 %	95.3777 %	98.8645 %
Concentration RSD	0.2 %	0.7 %	0.2 %	0.1 %	0.8 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-21 WG1974186
Analysis started at: 9/20/2024 3:10:01 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0500 ppm	2.0344 ppm	0.1211 ppm	1.0136 ppm	2.0141 ppm	0.0510 ppm	26.9857 ppm
Concentration per Run 1	0.0501 ppm	2.0248 ppm	0.1229 ppm	1.0171 ppm	1.9980 ppm	0.0510 ppm	26.8372 ppm
Concentration per Run 2	0.0499 ppm	2.0421 ppm	0.1201 ppm	1.0113 ppm	2.0310 ppm	0.0511 ppm	27.0871 ppm
Concentration per Run 3	0.0499 ppm	2.0362 ppm	0.1202 ppm	1.0123 ppm	2.0134 ppm	0.0510 ppm	27.0329 ppm
Concentration RSD	0.3 %	0.4 %	1.3 %	0.3 %	0.8 %	0.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0522 ppm	0.4888 ppm	0.1963 ppm	0.2523 ppm	1.0855 ppm	12.5185 ppm	-0.0005 ppm
Concentration per Run 1	0.0524 ppm	0.4901 ppm	0.1960 ppm	0.2532 ppm	1.0820 ppm	12.5046 ppm	-0.0008 ppm
Concentration per Run 2	0.0523 ppm	0.4883 ppm	0.1962 ppm	0.2508 ppm	1.0923 ppm	12.4985 ppm	-0.0008 ppm
Concentration per Run 3	0.0520 ppm	0.4880 ppm	0.1969 ppm	0.2529 ppm	1.0823 ppm	12.5523 ppm	0.0002 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.5 %	0.5 %	0.2 %	128.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.1699 ppm	0.5539 ppm	0.9843 ppm	12.8960 ppm	0.4965 ppm	0.5335 ppm	0.5007 ppm
Concentration per Run 1	13.2149 ppm	0.5525 ppm	0.9867 ppm	12.8935 ppm	0.4972 ppm	0.5337 ppm	0.5009 ppm
Concentration per Run 2	13.1582 ppm	0.5542 ppm	0.9826 ppm	12.9069 ppm	0.4968 ppm	0.5337 ppm	0.5020 ppm
Concentration per Run 3	13.1368 ppm	0.5552 ppm	0.9836 ppm	12.8877 ppm	0.4956 ppm	0.5331 ppm	0.4991 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	0.2 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1245 ppm	5.2736 ppm	0.9926 ppm	1.0211 ppm	1.0198 ppm	0.1216 ppm	0.4914 ppm
Concentration per Run 1	0.1237 ppm	5.2859 ppm	0.9943 ppm	1.0184 ppm	1.0211 ppm	0.1225 ppm	0.4918 ppm
Concentration per Run 2	0.1243 ppm	5.2655 ppm	0.9919 ppm	1.0229 ppm	1.0159 ppm	0.1208 ppm	0.4896 ppm
Concentration per Run 3	0.1256 ppm	5.2693 ppm	0.9916 ppm	1.0220 ppm	1.0225 ppm	0.1214 ppm	0.4929 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.2 %	0.3 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4940 ppm	99.2341 %	99.1447 %	100.7415 %	100.3550 %	96.3276 %	98.8815 %
Concentration per Run 1	0.4944 ppm	99.3575 %	98.8888 %	100.4194 %	101.2253 %	95.7758 %	98.6193 %
Concentration per Run 2	0.4939 ppm	98.9661 %	99.0385 %	100.8961 %	99.8941 %	96.6030 %	99.1674 %
Concentration per Run 3	0.4936 ppm	99.3788 %	99.5067 %	100.9091 %	99.9455 %	96.6040 %	98.8579 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.3 %	0.8 %	0.5 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: WG1974186-22D5 WG1974186
Analysis started at: 9/20/2024 3:16:11 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0043 ppm	-0.0004 ppm	0.0045 ppm	0.0040 ppm	0.0000 ppm	3.2049 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	-0.0007 ppm	0.0047 ppm	0.0040 ppm	0.0000 ppm	3.1830 ppm
Concentration per Run 2	-0.0003 ppm	0.0034 ppm	0.0000 ppm	0.0044 ppm	0.0039 ppm	0.0000 ppm	3.1978 ppm
Concentration per Run 3	0.0000 ppm	0.0070 ppm	-0.0005 ppm	0.0045 ppm	0.0040 ppm	0.0000 ppm	3.2339 ppm
Concentration RSD	164.6 %	56.5 %	103.4 %	4.3 %	1.2 %	523.9 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0140 ppm	0.2964 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0146 ppm	0.2845 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0131 ppm	0.2881 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0142 ppm	0.3165 ppm	-0.0014 ppm
Concentration RSD	56.8 %	138.6 %	132.1 %	186.1 %	5.6 %	5.9 %	225.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6077 ppm	0.0092 ppm	0.0012 ppm	0.4222 ppm	-0.0003 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	0.6038 ppm	0.0091 ppm	0.0014 ppm	0.4198 ppm	-0.0005 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 2	0.6044 ppm	0.0093 ppm	0.0012 ppm	0.4230 ppm	-0.0003 ppm	-0.0005 ppm	0.0016 ppm
Concentration per Run 3	0.6148 ppm	0.0093 ppm	0.0010 ppm	0.4239 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm
Concentration RSD	1.0 %	0.8 %	15.9 %	0.5 %	86.6 %	2,202.1 %	9.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.8931 ppm	0.0011 ppm	0.0095 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0013 ppm	0.8826 ppm	0.0010 ppm	0.0094 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.8952 ppm	0.0012 ppm	0.0094 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.9016 ppm	0.0010 ppm	0.0095 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	376.7 %	1.1 %	9.2 %	0.6 %	183.4 %	150.6 %	101.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	100.6709 %	101.7762 %	103.4342 %	101.7862 %	102.8173 %	102.3486 %
Concentration per Run 1	0.0007 ppm	100.6329 %	101.9377 %	103.4565 %	102.2952 %	103.0263 %	101.9503 %
Concentration per Run 2	0.0008 ppm	100.6437 %	101.7041 %	103.6935 %	101.8838 %	103.0736 %	102.2270 %
Concentration per Run 3	0.0007 ppm	100.7360 %	101.6869 %	103.1527 %	101.1795 %	102.3520 %	102.8684 %
Concentration RSD	6.6 %	0.1 %	0.1 %	0.3 %	0.6 %	0.4 %	0.5 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 3:22:32 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4989 ppm	0.5001 ppm	0.4917 ppm	0.5015 ppm	0.4871 ppm	0.4979 ppm	0.4927 ppm
Concentration per Run 1	0.4989 ppm	0.4931 ppm	0.4904 ppm	0.5008 ppm	0.4784 ppm	0.4875 ppm	0.4802 ppm
Concentration per Run 2	0.4982 ppm	0.5022 ppm	0.4929 ppm	0.5012 ppm	0.4915 ppm	0.5045 ppm	0.4964 ppm
Concentration per Run 3	0.4996 ppm	0.5052 ppm	0.4918 ppm	0.5025 ppm	0.4913 ppm	0.5018 ppm	0.5014 ppm
Recovery Percentage 1	99.777 %	100.029 %	98.338 %	100.299 %	97.411 %	99.588 %	98.532 %
Concentration RSD	0.1 %	1.3 %	0.3 %	0.2 %	1.5 %	1.8 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4933 ppm	0.5034 ppm	0.4888 ppm	0.4780 ppm	0.5248 ppm	5.1854 ppm	0.4877 ppm
Concentration per Run 1	0.4929 ppm	0.5033 ppm	0.4886 ppm	0.4785 ppm	0.5135 ppm	5.1177 ppm	0.4805 ppm
Concentration per Run 2	0.4940 ppm	0.5035 ppm	0.4907 ppm	0.4766 ppm	0.5324 ppm	5.2364 ppm	0.4899 ppm
Concentration per Run 3	0.4930 ppm	0.5034 ppm	0.4872 ppm	0.4789 ppm	0.5285 ppm	5.2023 ppm	0.4927 ppm
Recovery Percentage 1	98.662 %	100.682 %	97.766 %	95.600 %	104.962 %	103.709 %	97.540 %
Concentration RSD	0.1 %	0.0 %	0.4 %	0.3 %	1.9 %	1.2 %	1.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4924 ppm	0.4855 ppm	0.4853 ppm	9.8141 ppm	0.5051 ppm	0.5097 ppm	0.5055 ppm
Concentration per Run 1	0.4910 ppm	0.4771 ppm	0.4851 ppm	9.6540 ppm	0.5055 ppm	0.5085 ppm	0.5050 ppm
Concentration per Run 2	0.4933 ppm	0.4907 ppm	0.4854 ppm	9.9029 ppm	0.5048 ppm	0.5105 ppm	0.5054 ppm
Concentration per Run 3	0.4929 ppm	0.4889 ppm	0.4852 ppm	9.8855 ppm	0.5051 ppm	0.5100 ppm	0.5063 ppm
Recovery Percentage 1	98.481 %	97.108 %	97.053 %	98.141 %	101.030 %	101.932 %	101.109 %
Concentration RSD	0.3 %	1.5 %	0.0 %	1.4 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5108 ppm	5.5487 ppm	0.4762 ppm	0.4616 ppm	0.4952 ppm	0.5181 ppm	0.4847 ppm
Concentration per Run 1	0.5114 ppm	5.5514 ppm	0.4752 ppm	0.4533 ppm	0.4951 ppm	0.5187 ppm	0.4860 ppm
Concentration per Run 2	0.5103 ppm	5.5459 ppm	0.4764 ppm	0.4658 ppm	0.4959 ppm	0.5176 ppm	0.4856 ppm
Concentration per Run 3	0.5106 ppm	5.5488 ppm	0.4769 ppm	0.4656 ppm	0.4946 ppm	0.5180 ppm	0.4826 ppm
Recovery Percentage 1	102.153 %	105.689 %	95.237 %	92.312 %	99.043 %	103.623 %	96.943 %
Concentration RSD	0.1 %	0.0 %	0.2 %	1.5 %	0.1 %	0.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5229 ppm	99.7124 %	100.1896 %	102.1146 %	100.1051 %	99.9294 %	100.2629 %
Concentration per Run 1	0.5231 ppm	100.0102 %	100.2284 %	101.9808 %	101.7498 %	99.4607 %	100.1373 %
Concentration per Run 2	0.5234 ppm	99.3846 %	100.1851 %	102.2100 %	98.8556 %	100.0292 %	100.3341 %
Concentration per Run 3	0.5222 ppm	99.7425 %	100.1553 %	102.1530 %	99.7098 %	100.2983 %	100.3173 %
Recovery Percentage 1	104.582 %						
Concentration RSD	0.1 %	0.3 %	0.0 %	0.1 %	1.5 %	0.4 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 3:28:35 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0079 ppm	-0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0003 ppm	0.0120 ppm	0.0008 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0002 ppm	0.0064 ppm	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0052 ppm	-0.0015 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0033 ppm
Recovery Percentage 1	0.883 %	7.875 %	-4.981 %	3.669 %	0.341 %	-0.035 %	-0.399 %
Concentration RSD	346.4 %	46.2 %	460.9 %	9.2 %	69.8 %	767.6 %	639.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm	-0.0217 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm	-0.0123 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm	0.0046 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	-0.0575 ppm	-0.0012 ppm
Recovery Percentage 1	-0.368 %	-0.092 %	0.598 %	0.244 %	3.563 %	-0.870 %	-4.396 %
Concentration RSD	165.9 %	226.5 %	166.0 %	51.5 %	46.5 %	147.6 %	159.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0082 ppm	-0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0103 ppm	-0.0001 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 2	-0.0023 ppm	0.0000 ppm	0.0003 ppm	0.0076 ppm	-0.0003 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0067 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-1.163 %	0.087 %	0.758 %	0.410 %	-0.922 %	0.746 %	1.252 %
Concentration RSD	97.0 %	179.4 %	21.6 %	23.3 %	51.9 %	726.2 %	61.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	-0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	-0.0011 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0018 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0015 ppm	-0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0000 ppm
Recovery Percentage 1	13.565 %	-0.191 %	0.717 %	0.049 %	-0.435 %	-1.128 %	-1.354 %
Concentration RSD	40.2 %	20.4 %	10.5 %	420.6 %	346.8 %	410.2 %	62.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.3490 %	99.7486 %	101.0234 %	98.7327 %	100.7355 %	99.3500 %
Concentration per Run 1	0.0003 ppm	99.0120 %	99.8027 %	101.2717 %	100.4732 %	100.9862 %	99.6544 %
Concentration per Run 2	0.0004 ppm	98.4293 %	99.4462 %	100.8752 %	97.9810 %	100.6226 %	99.1055 %
Concentration per Run 3	0.0002 ppm	97.6058 %	99.9967 %	100.9233 %	97.7440 %	100.5978 %	99.2901 %
Recovery Percentage 1	6.290 %						
Concentration RSD	22.1 %	0.7 %	0.3 %	0.2 %	1.5 %	0.2 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: L2453053-05 WG1974186
Analysis started at: 9/20/2024 3:39:59 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0031 ppm	0.0010 ppm	0.0311 ppm	0.0233 ppm	0.0000 ppm	10.1542 ppm
Concentration per Run 1	0.0002 ppm	0.0045 ppm	0.0005 ppm	0.0315 ppm	0.0232 ppm	0.0000 ppm	10.1415 ppm
Concentration per Run 2	-0.0003 ppm	0.0025 ppm	0.0013 ppm	0.0309 ppm	0.0234 ppm	0.0000 ppm	10.1479 ppm
Concentration per Run 3	0.0000 ppm	0.0023 ppm	0.0012 ppm	0.0310 ppm	0.0234 ppm	0.0000 ppm	10.1732 ppm
Concentration RSD	801.5 %	38.6 %	43.4 %	0.9 %	0.4 %	20.6 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0069 ppm	-0.0006 ppm	0.0006 ppm	2.5546 ppm	0.9454 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0067 ppm	-0.0009 ppm	0.0007 ppm	2.5524 ppm	0.9286 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0069 ppm	-0.0005 ppm	0.0004 ppm	2.5477 ppm	0.9496 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0069 ppm	-0.0005 ppm	0.0006 ppm	2.5639 ppm	0.9579 ppm	-0.0006 ppm
Concentration RSD	47.0 %	1.7 %	32.6 %	24.3 %	0.3 %	1.6 %	5,407.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5249 ppm	0.1045 ppm	0.0001 ppm	7.9691 ppm	0.0013 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 1	4.5256 ppm	0.1041 ppm	0.0003 ppm	7.9443 ppm	0.0015 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 2	4.5387 ppm	0.1044 ppm	0.0001 ppm	7.9567 ppm	0.0013 ppm	-0.0015 ppm	0.0004 ppm
Concentration per Run 3	4.5105 ppm	0.1049 ppm	0.0001 ppm	8.0064 ppm	0.0011 ppm	-0.0021 ppm	0.0005 ppm
Concentration RSD	0.3 %	0.4 %	76.4 %	0.4 %	16.8 %	19.1 %	192.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	7.7620 ppm	-0.0004 ppm	0.0375 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	7.7634 ppm	-0.0003 ppm	0.0373 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0030 ppm	7.7599 ppm	-0.0006 ppm	0.0375 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	7.7626 ppm	-0.0002 ppm	0.0376 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration RSD	198.9 %	0.0 %	50.3 %	0.4 %	2,804.6 %	56.1 %	40.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0071 ppm	99.9689 %	99.8228 %	101.0300 %	101.4012 %	100.1640 %	100.1500 %
Concentration per Run 1	0.0071 ppm	100.0781 %	99.8719 %	100.9990 %	101.5923 %	100.3624 %	100.2228 %
Concentration per Run 2	0.0071 ppm	100.1573 %	99.8607 %	100.9860 %	101.9012 %	100.1169 %	100.1168 %
Concentration per Run 3	0.0071 ppm	99.6714 %	99.7359 %	101.1049 %	100.7101 %	100.0128 %	100.1103 %
Concentration RSD	0.4 %	0.3 %	0.1 %	0.1 %	0.6 %	0.2 %	0.1 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCV
Analysis started at: 9/20/2024 3:49:02 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5028 ppm	0.4945 ppm	0.4896 ppm	0.5003 ppm	0.4864 ppm	0.4949 ppm	0.4905 ppm
Concentration per Run 1	0.5030 ppm	0.4811 ppm	0.4878 ppm	0.4996 ppm	0.4780 ppm	0.4845 ppm	0.4807 ppm
Concentration per Run 2	0.5028 ppm	0.5006 ppm	0.4910 ppm	0.5006 ppm	0.4913 ppm	0.5013 ppm	0.4979 ppm
Concentration per Run 3	0.5026 ppm	0.5017 ppm	0.4900 ppm	0.5006 ppm	0.4898 ppm	0.4990 ppm	0.4930 ppm
Recovery Percentage 1	100.559 %	98.892 %	97.912 %	100.052 %	97.276 %	98.982 %	98.109 %
Concentration RSD	0.0 %	2.3 %	0.3 %	0.1 %	1.5 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4938 ppm	0.5033 ppm	0.4849 ppm	0.4784 ppm	0.5210 ppm	5.1423 ppm	0.4866 ppm
Concentration per Run 1	0.4931 ppm	0.5027 ppm	0.4862 ppm	0.4773 ppm	0.5109 ppm	5.0447 ppm	0.4778 ppm
Concentration per Run 2	0.4954 ppm	0.5044 ppm	0.4861 ppm	0.4792 ppm	0.5270 ppm	5.1972 ppm	0.4903 ppm
Concentration per Run 3	0.4930 ppm	0.5027 ppm	0.4823 ppm	0.4789 ppm	0.5252 ppm	5.1850 ppm	0.4918 ppm
Recovery Percentage 1	98.764 %	100.654 %	96.973 %	95.688 %	104.210 %	102.846 %	97.326 %
Concentration RSD	0.3 %	0.2 %	0.5 %	0.2 %	1.7 %	1.6 %	1.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4981 ppm	0.4845 ppm	0.4842 ppm	9.7220 ppm	0.5025 ppm	0.5077 ppm	0.5042 ppm
Concentration per Run 1	0.4983 ppm	0.4737 ppm	0.4843 ppm	9.5549 ppm	0.5021 ppm	0.5073 ppm	0.5041 ppm
Concentration per Run 2	0.5015 ppm	0.4903 ppm	0.4848 ppm	9.8241 ppm	0.5041 ppm	0.5087 ppm	0.5040 ppm
Concentration per Run 3	0.4945 ppm	0.4895 ppm	0.4834 ppm	9.7871 ppm	0.5012 ppm	0.5072 ppm	0.5044 ppm
Recovery Percentage 1	99.616 %	96.899 %	96.836 %	97.220 %	100.499 %	101.548 %	100.834 %
Concentration RSD	0.7 %	1.9 %	0.1 %	1.5 %	0.3 %	0.2 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5080 ppm	5.5310 ppm	0.4757 ppm	0.4608 ppm	0.4900 ppm	0.5173 ppm	0.4807 ppm
Concentration per Run 1	0.5088 ppm	5.5297 ppm	0.4743 ppm	0.4523 ppm	0.4916 ppm	0.5170 ppm	0.4824 ppm
Concentration per Run 2	0.5063 ppm	5.5324 ppm	0.4777 ppm	0.4651 ppm	0.4903 ppm	0.5179 ppm	0.4802 ppm
Concentration per Run 3	0.5090 ppm	5.5308 ppm	0.4751 ppm	0.4649 ppm	0.4881 ppm	0.5169 ppm	0.4794 ppm
Recovery Percentage 1	101.609 %	105.352 %	95.139 %	92.153 %	97.998 %	103.451 %	96.131 %
Concentration RSD	0.3 %	0.0 %	0.4 %	1.6 %	0.4 %	0.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5225 ppm	99.4361 %	100.0819 %	102.5734 %	100.0639 %	100.5081 %	100.6750 %
Concentration per Run 1	0.5215 ppm	100.8201 %	100.1961 %	102.5783 %	103.0139 %	100.2160 %	100.5951 %
Concentration per Run 2	0.5242 ppm	98.6411 %	100.0704 %	102.4443 %	98.3355 %	100.5356 %	100.4946 %
Concentration per Run 3	0.5217 ppm	98.8471 %	99.9792 %	102.6975 %	98.8423 %	100.7728 %	100.9353 %
Recovery Percentage 1	104.491 %						
Concentration RSD	0.3 %	1.2 %	0.1 %	0.1 %	2.6 %	0.3 %	0.2 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: CCB
Analysis started at: 9/20/2024 3:55:05 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0069 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0055 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0075 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0077 ppm	0.0005 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0025 ppm
Recovery Percentage 1	-1.068 %	6.925 %	6.397 %	1.507 %	0.041 %	0.288 %	0.176 %
Concentration RSD	234.4 %	17.6 %	38.6 %	41.3 %	339.8 %	58.6 %	1,259.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm	-0.0062 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	-0.0092 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0022 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	-0.0096 ppm	-0.0014 ppm
Recovery Percentage 1	0.248 %	-0.100 %	1.485 %	-0.004 %	3.575 %	-0.248 %	-6.767 %
Concentration RSD	417.7 %	415.8 %	227.6 %	8,453.8 %	23.5 %	89.2 %	95.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	0.0001 ppm	0.0004 ppm	0.0073 ppm	-0.0004 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0015 ppm	0.0001 ppm	0.0004 ppm	0.0076 ppm	-0.0006 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 2	0.0020 ppm	0.0000 ppm	0.0005 ppm	0.0107 ppm	-0.0004 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0011 ppm	0.0001 ppm	0.0003 ppm	0.0037 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm
Recovery Percentage 1	1.506 %	0.525 %	0.774 %	0.367 %	-1.572 %	3.319 %	1.068 %
Concentration RSD	31.1 %	71.2 %	38.0 %	47.8 %	58.8 %	94.5 %	44.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	-0.0009 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	0.0012 ppm	-0.0012 ppm	0.0005 ppm	0.0000 ppm	-0.0004 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0023 ppm	-0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	12.624 %	-0.176 %	0.731 %	0.024 %	-1.105 %	0.077 %	-1.872 %
Concentration RSD	77.2 %	35.0 %	58.5 %	1,425.2 %	198.3 %	3,835.5 %	54.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.1987 %	98.4176 %	102.9449 %	97.5909 %	102.7211 %	97.8317 %
Concentration per Run 1	0.0004 ppm	97.7240 %	98.4255 %	102.3309 %	99.4787 %	102.1921 %	97.9594 %
Concentration per Run 2	0.0004 ppm	96.8397 %	98.4055 %	103.1999 %	96.9006 %	103.0919 %	97.5228 %
Concentration per Run 3	0.0003 ppm	97.0324 %	98.4218 %	103.3039 %	96.3933 %	102.8793 %	98.0128 %
Recovery Percentage 1	6.583 %						
Concentration RSD	15.8 %	0.5 %	0.0 %	0.5 %	1.7 %	0.5 %	0.3 %

ICP DataTrace 4

9/20/2024 4:21:17 PM

LabBook: WG1973931_09192024T4.imexp

Sample: LLOQ
Analysis started at: 9/20/2024 4:01:31 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0050 ppm	0.1076 ppm	0.0047 ppm	0.0319 ppm	0.0103 ppm	0.0052 ppm	0.1149 ppm
Concentration per Run 1	0.0049 ppm	0.1076 ppm	0.0057 ppm	0.0317 ppm	0.0102 ppm	0.0051 ppm	0.1108 ppm
Concentration per Run 2	0.0052 ppm	0.1080 ppm	0.0046 ppm	0.0319 ppm	0.0103 ppm	0.0052 ppm	0.1195 ppm
Concentration per Run 3	0.0048 ppm	0.1073 ppm	0.0039 ppm	0.0319 ppm	0.0104 ppm	0.0052 ppm	0.1143 ppm
Recovery Percentage 1	99.581 %	107.650 %	94.320 %	106.172 %	102.732 %	103.272 %	114.868 %
Concentration RSD	4.7 %	0.3 %	19.3 %	0.4 %	1.1 %	1.0 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0210 ppm	0.0096 ppm	0.0103 ppm	**0.0722 ppm**	2.6650 ppm	0.0095 ppm
Concentration per Run 1	0.0042 ppm	0.0211 ppm	0.0093 ppm	0.0103 ppm	0.0705 ppm	2.6232 ppm	0.0098 ppm
Concentration per Run 2	0.0042 ppm	0.0209 ppm	0.0099 ppm	0.0102 ppm	0.0732 ppm	2.6818 ppm	0.0090 ppm
Concentration per Run 3	0.0042 ppm	0.0210 ppm	0.0095 ppm	0.0104 ppm	0.0730 ppm	2.6899 ppm	0.0098 ppm
Recovery Percentage 1	104.195 %	105.062 %	95.543 %	103.188 %	144.491 %	106.598 %	95.478 %
Concentration RSD	0.2 %	0.5 %	3.1 %	0.8 %	**2.1 %**	1.4 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1072 ppm	0.0109 ppm	0.0510 ppm	2.0695 ppm	0.0200 ppm	0.0105 ppm	0.0530 ppm
Concentration per Run 1	0.1057 ppm	0.0106 ppm	0.0510 ppm	2.0458 ppm	0.0200 ppm	0.0108 ppm	0.0535 ppm
Concentration per Run 2	0.1075 ppm	0.0110 ppm	0.0510 ppm	2.0796 ppm	0.0201 ppm	0.0103 ppm	0.0530 ppm
Concentration per Run 3	0.1084 ppm	0.0110 ppm	0.0509 ppm	2.0830 ppm	0.0200 ppm	0.0105 ppm	0.0526 ppm
Recovery Percentage 1	107.200 %	108.785 %	101.932 %	103.474 %	100.184 %	105.444 %	106.064 %
Concentration RSD	1.3 %	2.4 %	0.1 %	1.0 %	0.3 %	2.7 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0111 ppm	0.5575 ppm	0.0517 ppm	0.0101 ppm	0.0517 ppm	**0.0209 ppm**	0.0101 ppm
Concentration per Run 1	0.0116 ppm	0.5575 ppm	0.0512 ppm	0.0099 ppm	0.0519 ppm	0.0218 ppm	0.0102 ppm
Concentration per Run 2	0.0088 ppm	0.5583 ppm	0.0520 ppm	0.0101 ppm	0.0516 ppm	0.0205 ppm	0.0102 ppm
Concentration per Run 3	0.0127 ppm	0.5567 ppm	0.0520 ppm	0.0101 ppm	0.0517 ppm	0.0202 ppm	0.0101 ppm
Recovery Percentage 1	110.505 %	111.504 %	103.489 %	100.556 %	103.447 %	104.270 %	101.378 %
Concentration RSD	17.9 %	0.1 %	0.8 %	1.2 %	0.3 %	4.0 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**0.0074 ppm**	97.0741 %	101.0637 %	103.0210 %	98.5091 %	101.7412 %	101.3376 %
Concentration per Run 1	0.0073 ppm	98.2838 %	101.3546 %	103.0791 %	100.7908 %	101.7199 %	101.5611 %
Concentration per Run 2	0.0074 ppm	95.5831 %	100.7242 %	102.8258 %	97.2734 %	101.4458 %	101.1446 %
Concentration per Run 3	0.0074 ppm	97.3554 %	101.1122 %	103.1580 %	97.4632 %	102.0579 %	101.3070 %
Recovery Percentage 1	147.090 %						
Concentration RSD	**0.6 %**	1.4 %	0.3 %	0.2 %	2.0 %	0.3 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: Blank DMC Trace9
Analysis started at: 9/24/2024 6:10:19 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.5 %	-3.6 %	-0.3 %	0.1 %	-1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.2 %	0.2 %	-3.4 %	0.0 %	0.8 %	-0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	5.3 %	-0.4 %	3.2 %	-0.2 %	0.4 %	-11.6 %	-2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-6.2 %	0.0 %	0.2 %	-0.5 %	-0.1 %	7.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: ICAL
Analysis started at: 9/24/2024 6:14:03 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9970 ppm	25.0661 ppm	0.9968 ppm	1.0063 ppm	1.0037 ppm	1.0015 ppm	10.0365 ppm
Concentration per Run 2	1.0011 ppm	24.8750 ppm	0.9969 ppm	0.9929 ppm	0.9905 ppm	0.9961 ppm	9.9578 ppm
Concentration per Run 3	1.0019 ppm	25.0590 ppm	1.0063 ppm	1.0008 ppm	1.0058 ppm	1.0024 ppm	10.0057 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.7 %	0.8 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9911 ppm	0.9984 ppm	1.0031 ppm	1.0081 ppm	25.1468 ppm	35.0141 ppm	1.0065 ppm
Concentration per Run 2	1.0025 ppm	1.0000 ppm	0.9978 ppm	0.9957 ppm	24.6940 ppm	34.9336 ppm	0.9986 ppm
Concentration per Run 3	1.0065 ppm	1.0016 ppm	0.9990 ppm	0.9962 ppm	25.1592 ppm	35.0523 ppm	0.9949 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.7 %	1.1 %	0.2 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0093 ppm	1.0028 ppm	0.9942 ppm	25.1250 ppm	1.0069 ppm	0.9968 ppm	0.9971 ppm
Concentration per Run 2	9.9755 ppm	0.9945 ppm	0.9982 ppm	24.8074 ppm	0.9940 ppm	1.0005 ppm	0.9971 ppm
Concentration per Run 3	10.0152 ppm	1.0027 ppm	1.0076 ppm	25.0676 ppm	0.9992 ppm	1.0026 ppm	1.0058 ppm
Concentration RSD	0.2 %	0.5 %	0.7 %	0.7 %	0.6 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9934 ppm	9.9965 ppm	1.0007 ppm	1.0031 ppm	1.0032 ppm	0.9974 ppm	1.0015 ppm
Concentration per Run 2	0.9979 ppm	9.9524 ppm	0.9968 ppm	0.9975 ppm	0.9934 ppm	0.9984 ppm	0.9980 ppm
Concentration per Run 3	1.0087 ppm	10.0511 ppm	1.0025 ppm	0.9994 ppm	1.0034 ppm	1.0043 ppm	1.0005 ppm
Concentration RSD	0.8 %	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	102.3684 %	103.4753 %	98.2735 %	99.4501 %	102.2060 %	99.5891 %
Concentration per Run 1	1.0042 ppm	102.4493 %	102.7561 %	98.7243 %	99.8949 %	101.6069 %	100.1680 %
Concentration per Run 2	0.9953 ppm	102.4607 %	104.3021 %	97.2020 %	99.3510 %	102.7344 %	98.5476 %
Concentration per Run 3	1.0004 ppm	102.1952 %	103.3678 %	98.8942 %	99.1044 %	102.2767 %	100.0518 %
Concentration RSD	0.4 %	0.1 %	0.8 %	0.9 %	0.4 %	0.6 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: ICV
Analysis started at: 9/24/2024 6:17:55 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5177 ppm	0.4869 ppm	0.4890 ppm	0.5029 ppm	0.5049 ppm	0.5148 ppm	0.5001 ppm
Concentration per Run 1	0.5133 ppm	0.4774 ppm	0.4931 ppm	0.4986 ppm	0.5067 ppm	0.5155 ppm	0.5000 ppm
Concentration per Run 2	0.5213 ppm	0.4804 ppm	0.4868 ppm	0.5077 ppm	0.5045 ppm	0.5126 ppm	0.4998 ppm
Concentration per Run 3	0.5185 ppm	0.5030 ppm	0.4872 ppm	0.5024 ppm	0.5035 ppm	0.5163 ppm	0.5005 ppm
Recovery Percentage 1	103.537 %	97.383 %	97.800 %	100.586 %	100.979 %	102.959 %	100.012 %
Concentration RSD	0.8 %	2.9 %	0.7 %	0.9 %	0.3 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5099 ppm	0.5182 ppm	0.4972 ppm	0.4991 ppm	0.5133 ppm	5.2314 ppm	0.5005 ppm
Concentration per Run 1	0.5143 ppm	0.5188 ppm	0.4927 ppm	0.4951 ppm	0.5113 ppm	5.2526 ppm	0.4985 ppm
Concentration per Run 2	0.5123 ppm	0.5216 ppm	0.5007 ppm	0.5036 ppm	0.5094 ppm	5.2177 ppm	0.4984 ppm
Concentration per Run 3	0.5032 ppm	0.5141 ppm	0.4981 ppm	0.4986 ppm	0.5192 ppm	5.2239 ppm	0.5046 ppm
Recovery Percentage 1	101.986 %	103.631 %	99.435 %	99.826 %	102.658 %	104.628 %	100.099 %
Concentration RSD	1.2 %	0.7 %	0.8 %	0.9 %	1.0 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5000 ppm	0.4971 ppm	0.5017 ppm	10.1188 ppm	0.5148 ppm	0.5083 ppm	0.5154 ppm
Concentration per Run 1	0.5004 ppm	0.4974 ppm	0.4972 ppm	10.1287 ppm	0.5133 ppm	0.5099 ppm	0.5075 ppm
Concentration per Run 2	0.5011 ppm	0.4962 ppm	0.5037 ppm	10.1098 ppm	0.5169 ppm	0.5063 ppm	0.5222 ppm
Concentration per Run 3	0.4985 ppm	0.4978 ppm	0.5041 ppm	10.1179 ppm	0.5140 ppm	0.5085 ppm	0.5164 ppm
Recovery Percentage 1	100.002 %	99.421 %	100.331 %	101.188 %	102.952 %	101.654 %	103.073 %
Concentration RSD	0.3 %	0.2 %	0.8 %	0.1 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5043 ppm	5.4417 ppm	0.4905 ppm	0.4809 ppm	0.5079 ppm	0.5081 ppm	0.4953 ppm
Concentration per Run 1	0.5085 ppm	5.4141 ppm	0.4863 ppm	0.4810 ppm	0.5049 ppm	0.5106 ppm	0.4935 ppm
Concentration per Run 2	0.5014 ppm	5.4710 ppm	0.4958 ppm	0.4807 ppm	0.5107 ppm	0.5044 ppm	0.4970 ppm
Concentration per Run 3	0.5030 ppm	5.4398 ppm	0.4893 ppm	0.4809 ppm	0.5083 ppm	0.5093 ppm	0.4955 ppm
Recovery Percentage 1	100.857 %	103.651 %	98.093 %	96.174 %	101.588 %	101.620 %	99.067 %
Concentration RSD	0.7 %	0.5 %	1.0 %	0.0 %	0.6 %	0.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5149 ppm	103.2501 %	102.4482 %	101.5068 %	100.6881 %	101.4044 %	101.7279 %
Concentration per Run 1	0.5119 ppm	103.6077 %	102.8511 %	101.5251 %	100.9325 %	101.6828 %	101.9884 %
Concentration per Run 2	0.5178 ppm	102.3899 %	102.2266 %	101.6488 %	100.0159 %	101.5312 %	101.8381 %
Concentration per Run 3	0.5150 ppm	103.7527 %	102.2669 %	101.3466 %	101.1160 %	100.9992 %	101.3572 %
Recovery Percentage 1	102.983 %						
Concentration RSD	0.6 %	0.7 %	0.3 %	0.1 %	0.6 %	0.4 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: ICB
Analysis started at: 9/24/2024 6:21:49 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0004 ppm	0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0005 ppm	-0.0035 ppm	0.0004 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0008 ppm	-0.0099 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0002 ppm	0.0146 ppm	0.0014 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0040 ppm
Recovery Percentage 1	7.193 %	0.386 %	23.107 %	3.185 %	-0.373 %	-0.743 %	-0.607 %
Concentration RSD	65.0 %	3,298.6 %	57.5 %	110.9 %	332.3 %	112.4 %	540.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	-0.0005 ppm	0.0033 ppm	-0.0097 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0003 ppm	0.0018 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	-0.0007 ppm	-0.0003 ppm	-0.0009 ppm	0.0032 ppm	-0.0027 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	0.0000 ppm	-0.0005 ppm	0.0048 ppm	-0.0254 ppm	0.0005 ppm
Recovery Percentage 1	2.092 %	-2.252 %	-2.141 %	-5.434 %	6.517 %	-0.388 %	14.635 %
Concentration RSD	104.4 %	132.0 %	80.1 %	58.0 %	45.4 %	140.9 %	32.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0001 ppm	0.0011 ppm	-0.0050 ppm	0.0006 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	0.0009 ppm	-0.0037 ppm	0.0010 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0022 ppm	0.0000 ppm	0.0012 ppm	-0.0050 ppm	0.0002 ppm	-0.0001 ppm	-0.0038 ppm
Concentration per Run 3	0.0011 ppm	-0.0002 ppm	0.0013 ppm	-0.0063 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm
Recovery Percentage 1	1.227 %	-1.203 %	2.233 %	-0.251 %	2.202 %	0.611 %	0.907 %
Concentration RSD	71.4 %	98.5 %	17.8 %	26.1 %	74.3 %	341.7 %	897.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0010 ppm	-0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0029 ppm	-0.0014 ppm	-0.0018 ppm	0.0001 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0018 ppm	0.0007 ppm	-0.0009 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0023 ppm	-0.0011 ppm	0.0002 ppm	0.0008 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	4.520 %	-0.205 %	-2.499 %	1.395 %	6.800 %	-1.060 %	-1.192 %
Concentration RSD	524.2 %	151.4 %	36.3 %	46.9 %	29.9 %	272.0 %	96.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	101.9667 %	100.5794 %	100.9570 %	101.4477 %	100.4951 %	101.8968 %
Concentration per Run 1	-0.0011 ppm	102.1774 %	101.0422 %	100.4260 %	101.8983 %	101.1425 %	101.2043 %
Concentration per Run 2	-0.0015 ppm	101.0263 %	100.3627 %	101.4069 %	100.3464 %	100.1157 %	102.3913 %
Concentration per Run 3	-0.0012 ppm	102.6964 %	100.3333 %	101.0383 %	102.0985 %	100.2271 %	102.0947 %
Recovery Percentage 1	-24.668 %						
Concentration RSD	16.5 %	0.8 %	0.4 %	0.5 %	0.9 %	0.6 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ
Analysis started at: 9/24/2024 6:30:07 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.1059 ppm	0.0065 ppm	0.0322 ppm	0.0100 ppm	0.0051 ppm	0.1025 ppm
Concentration per Run 1	0.0056 ppm	0.1121 ppm	0.0073 ppm	0.0316 ppm	0.0102 ppm	0.0050 ppm	0.1053 ppm
Concentration per Run 2	0.0054 ppm	0.1074 ppm	0.0054 ppm	0.0342 ppm	0.0099 ppm	0.0051 ppm	0.1006 ppm
Concentration per Run 3	0.0054 ppm	0.0981 ppm	0.0068 ppm	0.0306 ppm	0.0099 ppm	0.0051 ppm	0.1017 ppm
Recovery Percentage 1	109.443 %	105.872 %	129.735 %	107.214 %	99.768 %	101.092 %	102.516 %
Concentration RSD	2.2 %	6.7 %	15.3 %	5.8 %	1.7 %	1.3 %	2.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0202 ppm	0.0095 ppm	0.0102 ppm	0.0518 ppm	2.6359 ppm	0.0103 ppm
Concentration per Run 1	0.0039 ppm	0.0198 ppm	0.0093 ppm	0.0098 ppm	0.0516 ppm	2.6312 ppm	0.0097 ppm
Concentration per Run 2	0.0040 ppm	0.0208 ppm	0.0098 ppm	0.0105 ppm	0.0518 ppm	2.6314 ppm	0.0094 ppm
Concentration per Run 3	0.0043 ppm	0.0200 ppm	0.0094 ppm	0.0104 ppm	0.0521 ppm	2.6450 ppm	0.0118 ppm
Recovery Percentage 1	102.090 %	101.050 %	94.816 %	102.189 %	103.649 %	105.434 %	102.948 %
Concentration RSD	4.4 %	2.5 %	2.9 %	3.8 %	0.4 %	0.3 %	12.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1011 ppm	0.0105 ppm	0.0517 ppm	2.0438 ppm	0.0202 ppm	0.0096 ppm	0.0506 ppm
Concentration per Run 1	0.1005 ppm	0.0106 ppm	0.0505 ppm	2.0462 ppm	0.0209 ppm	0.0100 ppm	0.0495 ppm
Concentration per Run 2	0.0996 ppm	0.0103 ppm	0.0526 ppm	2.0419 ppm	0.0203 ppm	0.0087 ppm	0.0519 ppm
Concentration per Run 3	0.1032 ppm	0.0106 ppm	0.0519 ppm	2.0433 ppm	0.0195 ppm	0.0100 ppm	0.0503 ppm
Recovery Percentage 1	101.057 %	105.173 %	103.327 %	102.191 %	101.144 %	95.701 %	101.151 %
Concentration RSD	1.9 %	1.5 %	2.1 %	0.1 %	3.4 %	7.6 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0101 ppm	0.5187 ppm	0.0499 ppm	0.0100 ppm	0.0515 ppm	0.0207 ppm	0.0098 ppm
Concentration per Run 1	0.0083 ppm	0.5173 ppm	0.0484 ppm	0.0101 ppm	0.0517 ppm	0.0204 ppm	0.0101 ppm
Concentration per Run 2	0.0119 ppm	0.5213 ppm	0.0513 ppm	0.0100 ppm	0.0513 ppm	0.0206 ppm	0.0096 ppm
Concentration per Run 3	0.0103 ppm	0.5174 ppm	0.0502 ppm	0.0100 ppm	0.0513 ppm	0.0212 ppm	0.0099 ppm
Recovery Percentage 1	101.343 %	103.732 %	99.898 %	100.399 %	102.908 %	103.594 %	98.450 %
Concentration RSD	17.6 %	0.4 %	2.9 %	0.9 %	0.5 %	2.0 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0046 ppm	104.4629 %	102.7048 %	102.2250 %	102.1010 %	101.6849 %	102.1586 %
Concentration per Run 1	0.0045 ppm	104.6240 %	102.4737 %	102.1813 %	102.2111 %	101.8054 %	102.1382 %
Concentration per Run 2	0.0046 ppm	104.1331 %	102.7289 %	102.4791 %	101.6533 %	101.6621 %	101.7589 %
Concentration per Run 3	0.0048 ppm	104.6317 %	102.9119 %	102.0145 %	102.4386 %	101.5873 %	102.5787 %
Recovery Percentage 1	92.498 %						
Concentration RSD	4.3 %	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: ICSA
Analysis started at: 9/24/2024 6:34:08 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	479.5879 ppm	-0.0029 ppm	-0.0053 ppm	0.0014 ppm	0.0001 ppm	524.8546 ppm
Concentration per Run 1	0.0029 ppm	481.3343 ppm	-0.0040 ppm	-0.0070 ppm	0.0012 ppm	0.0000 ppm	526.2111 ppm
Concentration per Run 2	0.0026 ppm	477.7057 ppm	0.0022 ppm	-0.0024 ppm	0.0015 ppm	0.0001 ppm	523.2974 ppm
Concentration per Run 3	0.0019 ppm	479.7237 ppm	-0.0070 ppm	-0.0066 ppm	0.0013 ppm	0.0001 ppm	525.0551 ppm
Recovery Percentage 1	35.565 %		-58.173 %	-17.750 %	13.623 %	1.481 %	
Concentration RSD	21.5 %	0.4 %	161.8 %	47.8 %	10.1 %	19.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0007 ppm	-0.0007 ppm	0.0002 ppm	174.1568 ppm	-0.0137 ppm	0.0015 ppm
Concentration per Run 1	-0.0006 ppm	-0.0007 ppm	-0.0008 ppm	0.0002 ppm	173.8052 ppm	-0.0051 ppm	0.0042 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm	174.4253 ppm	-0.0070 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0008 ppm	-0.0013 ppm	0.0002 ppm	174.2398 ppm	-0.0290 ppm	0.0003 ppm
Recovery Percentage 1	-11.597 %	-3.357 %	-7.158 %	1.883 %		-0.549 %	30.272 %
Concentration RSD	34.3 %	14.5 %	87.0 %	14.4 %	0.2 %	97.0 %	152.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	461.4660 ppm	-0.0005 ppm	-0.0013 ppm	0.0127 ppm	-0.0003 ppm	-0.0039 ppm	-0.0108 ppm
Concentration per Run 1	460.3319 ppm	-0.0007 ppm	-0.0015 ppm	0.0120 ppm	0.0000 ppm	-0.0074 ppm	-0.0116 ppm
Concentration per Run 2	462.2340 ppm	-0.0002 ppm	-0.0013 ppm	0.0149 ppm	0.0005 ppm	-0.0054 ppm	-0.0117 ppm
Concentration per Run 3	461.8322 ppm	-0.0004 ppm	-0.0010 ppm	0.0113 ppm	-0.0015 ppm	0.0011 ppm	-0.0092 ppm
Recovery Percentage 1		-4.545 %	-2.501 %	0.636 %	-1.374 %	-39.045 %	-21.678 %
Concentration RSD	0.2 %	56.4 %	16.9 %	14.8 %	303.2 %	113.9 %	13.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0053 ppm	0.0063 ppm	-0.0012 ppm	-0.0005 ppm	0.0011 ppm	0.0017 ppm	0.0009 ppm
Concentration per Run 1	-0.0149 ppm	0.0026 ppm	-0.0005 ppm	-0.0006 ppm	0.0008 ppm	0.0019 ppm	0.0008 ppm
Concentration per Run 2	-0.0033 ppm	0.0103 ppm	-0.0021 ppm	-0.0004 ppm	0.0010 ppm	0.0035 ppm	0.0009 ppm
Concentration per Run 3	0.0021 ppm	0.0059 ppm	-0.0009 ppm	-0.0004 ppm	0.0014 ppm	-0.0003 ppm	0.0010 ppm
Recovery Percentage 1	-53.460 %	1.256 %	-2.339 %	-4.679 %	10.587 %	8.432 %	9.067 %
Concentration RSD	162.6 %	61.4 %	72.3 %	22.0 %	26.3 %	113.4 %	10.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	92.3579 %	101.2513 %	80.7251 %	89.5085 %	101.4512 %	91.6418 %
Concentration per Run 1	-0.0010 ppm	91.7855 %	101.4283 %	80.2840 %	89.0199 %	101.7961 %	91.2777 %
Concentration per Run 2	-0.0004 ppm	92.9115 %	100.9242 %	81.0372 %	90.0392 %	101.0190 %	91.9275 %
Concentration per Run 3	-0.0010 ppm	92.3768 %	101.4012 %	80.8540 %	89.4664 %	101.5385 %	91.7202 %
Recovery Percentage 1	-16.404 %						
Concentration RSD	40.8 %	0.6 %	0.3 %	0.5 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: SIC Multi
Analysis started at: 9/24/2024 6:38:03 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0408 ppm	-0.0033 ppm	0.0105 ppm	0.0002 ppm	0.0002 ppm	0.0261 ppm
Concentration per Run 1	0.0003 ppm	0.0385 ppm	-0.0046 ppm	0.0112 ppm	0.0003 ppm	0.0000 ppm	0.0245 ppm
Concentration per Run 2	0.0003 ppm	0.0376 ppm	-0.0023 ppm	0.0101 ppm	0.0001 ppm	0.0005 ppm	0.0251 ppm
Concentration per Run 3	-0.0001 ppm	0.0463 ppm	-0.0030 ppm	0.0102 ppm	0.0001 ppm	0.0003 ppm	0.0288 ppm
Recovery Percentage 1	2.151 %	40.797 %	-66.343 %	34.993 %	1.841 %	6.047 %	26.130 %
Concentration RSD	164.4 %	11.8 %	36.7 %	5.8 %	53.5 %	114.0 %	8.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0055 ppm	**19.7978 ppm**	-0.0026 ppm	0.0150 ppm	-0.0072 ppm	0.0007 ppm
Concentration per Run 1	-0.0002 ppm	-0.0059 ppm	19.8016 ppm	-0.0024 ppm	0.0158 ppm	-0.0037 ppm	-0.0010 ppm
Concentration per Run 2	-0.0002 ppm	-0.0058 ppm	19.8165 ppm	-0.0024 ppm	0.0146 ppm	-0.0051 ppm	0.0014 ppm
Concentration per Run 3	-0.0003 ppm	-0.0048 ppm	19.7754 ppm	-0.0032 ppm	0.0148 ppm	-0.0129 ppm	0.0018 ppm
Recovery Percentage 1	-5.106 %	-27.529 %	197,977.960 %	-26.316 %	30.087 %	-0.290 %	14.766 %
Concentration RSD	17.4 %	10.4 %	**0.1 %**	17.3 %	4.3 %	68.7 %	202.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0189 ppm	**19.9377 ppm**	-0.0018 ppm	0.0055 ppm	0.0002 ppm	-0.0004 ppm	-0.0132 ppm
Concentration per Run 1	0.0239 ppm	19.9117 ppm	-0.0015 ppm	0.0140 ppm	-0.0007 ppm	-0.0019 ppm	-0.0102 ppm
Concentration per Run 2	0.0170 ppm	19.8544 ppm	-0.0019 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	-0.0152 ppm
Concentration per Run 3	0.0158 ppm	20.0469 ppm	-0.0019 ppm	0.0023 ppm	0.0008 ppm	-0.0005 ppm	-0.0143 ppm
Recovery Percentage 1	18.898 %	199,376.901 %	-3.519 %	0.275 %	0.750 %	-4.451 %	-26.479 %
Concentration RSD	23.4 %	**0.5 %**	14.3 %	135.2 %	416.2 %	343.4 %	20.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.2209 ppm	0.0035 ppm	0.0002 ppm	**19.5785 ppm**	**0.0090 ppm**	**9.8332 ppm**
Concentration per Run 1	0.0033 ppm	0.1803 ppm	0.0028 ppm	0.0000 ppm	19.6112 ppm	0.0096 ppm	9.8274 ppm
Concentration per Run 2	0.0028 ppm	0.2307 ppm	0.0035 ppm	0.0002 ppm	19.5860 ppm	0.0044 ppm	9.8482 ppm
Concentration per Run 3	0.0004 ppm	0.2518 ppm	0.0041 ppm	0.0003 ppm	19.5384 ppm	0.0131 ppm	9.8239 ppm
Recovery Percentage 1	21.724 %	44.187 %	6.946 %	1.646 %	195,785.412 %	45.083 %	98,331.703 %
Concentration RSD	70.1 %	16.6 %	19.3 %	85.9 %	**0.2 %**	**48.6 %**	**0.1 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0025 ppm	105.7888 %	103.8272 %	115.3468 %	103.2394 %	102.3751 %	104.3837 %
Concentration per Run 1	-0.0025 ppm	105.6387 %	104.3810 %	115.2056 %	102.9930 %	103.4688 %	104.3810 %
Concentration per Run 2	-0.0024 ppm	104.9409 %	103.3632 %	115.4504 %	102.4882 %	101.5012 %	104.5417 %
Concentration per Run 3	-0.0026 ppm	106.7867 %	103.7373 %	115.3843 %	104.2369 %	102.1554 %	104.2284 %
Recovery Percentage 1	-50.367 %						
Concentration RSD	3.5 %	0.9 %	0.5 %	0.1 %	0.9 %	1.0 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR Check
Analysis started at: 9/24/2024 6:41:59 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	0.0100 ppm	22.0417 ppm	23.3425 [SIC 20]	18.6511 ppm	4.7576 ppm	0.0500 ppm
Concentration per Run 1	0.0027 ppm	0.0250 ppm	22.0161 ppm	23.1189 ppm	18.6520 ppm	4.7516 ppm	0.0480 ppm
Concentration per Run 2	0.0026 ppm	0.0111 ppm	22.0885 ppm	23.5422 ppm	18.6655 ppm	4.7618 ppm	0.0524 ppm
Concentration per Run 3	0.0034 ppm	-0.0060 ppm	22.0205 ppm	23.3664 ppm	18.6358 ppm	4.7594 ppm	0.0495 ppm
Recovery Percentage 1			110.209 %	116.712 %	93.256 %		
Concentration RSD	15.9 %	154.5 %	0.2 %	0.9 %	0.1 %	0.1 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.7992 ppm	4.8635 ppm	0.0001 ppm	18.2804 ppm	0.0105 ppm	497.7529 ppm	17.9973 ppm
Concentration per Run 1	4.7722 ppm	4.8404 ppm	0.0005 ppm	18.2219 ppm	0.0120 ppm	495.5253 ppm	17.9516 ppm
Concentration per Run 2	4.8122 ppm	4.8716 ppm	0.0003 ppm	18.2900 ppm	0.0082 ppm	500.0399 ppm	17.9922 ppm
Concentration per Run 3	4.8132 ppm	4.8787 ppm	-0.0005 ppm	18.3293 ppm	0.0114 ppm	497.6934 ppm	18.0482 ppm
Recovery Percentage 1	95.984 %	97.271 %		91.402 %		99.551 %	89.987 %
Concentration RSD	0.5 %	0.4 %	498.3 %	0.3 %	19.3 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0004 ppm	4.9889 ppm	454.0960 ppm	9.4100 ppm	49.4684 ppm	4.8467 ppm
Concentration per Run 1	0.0034 ppm	0.0004 ppm	4.9151 ppm	453.2242 ppm	9.3085 ppm	49.4506 ppm	4.8276 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	5.0113 ppm	454.8090 ppm	9.5084 ppm	49.5817 ppm	4.8486 ppm
Concentration per Run 3	-0.0017 ppm	0.0004 ppm	5.0402 ppm	454.2549 ppm	9.4131 ppm	49.3729 ppm	4.8638 ppm
Recovery Percentage 1		0.000 %	99.777 %	90.819 %	94.100 %	98.937 %	96.933 %
Concentration RSD	200.0 %	28.9 %	1.3 %	0.2 %	1.1 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.0176 [SIC 20]	20.1555 [SIC 50]	9.5409 ppm	4.6043 ppm	0.0134 ppm	4.6134 ppm	0.0018 ppm
Concentration per Run 1	5.0147 ppm	19.9074 ppm	9.5492 ppm	4.5955 ppm	0.0150 ppm	4.6115 ppm	0.0028 ppm
Concentration per Run 2	5.0299 ppm	20.3919 ppm	9.5458 ppm	4.6142 ppm	0.0135 ppm	4.6219 ppm	0.0013 ppm
Concentration per Run 3	5.0083 ppm	20.1672 ppm	9.5277 ppm	4.6033 ppm	0.0116 ppm	4.6067 ppm	0.0013 ppm
Recovery Percentage 1	100.353 %	100.778 %	95.409 %	92.086 %	0.000 %	92.267 %	0.000 %
Concentration RSD	0.2 %	1.2 %	0.1 %	0.2 %	12.6 %	0.2 %	48.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.4777 ppm	94.7329 %	101.6534 %	85.8291 %	91.6261 %	100.5045 %	89.8589 %
Concentration per Run 1	19.4393 ppm	94.5773 %	102.6381 %	86.2867 %	91.5536 %	101.2922 %	90.3211 %
Concentration per Run 2	19.5632 ppm	95.3171 %	101.2196 %	85.3939 %	92.0828 %	100.2001 %	89.4330 %
Concentration per Run 3	19.4305 ppm	94.3044 %	101.1026 %	85.8066 %	91.2419 %	100.0213 %	89.8227 %
Recovery Percentage 1	97.388 %						
Concentration RSD	0.4 %	0.6 %	0.8 %	0.5 %	0.5 %	0.7 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: xLLOQ 0.005ppm
Analysis started at: 9/24/2024 7:09:07 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0059 ppm	0.0144 ppm	0.0047 ppm	0.0058 ppm	0.0049 ppm	0.0051 ppm	0.0120 ppm
Concentration per Run 1	0.0055 ppm	0.0062 ppm	0.0059 ppm	0.0061 ppm	0.0050 ppm	0.0051 ppm	0.0094 ppm
Concentration per Run 2	0.0065 ppm	0.0228 ppm	0.0057 ppm	0.0053 ppm	0.0048 ppm	0.0051 ppm	0.0129 ppm
Concentration per Run 3	0.0059 ppm	0.0141 ppm	0.0026 ppm	0.0060 ppm	0.0049 ppm	0.0051 ppm	0.0138 ppm
Recovery Percentage 1	118.935 %	0.000 %	94.923 %	0.000 %	0.000 %	102.247 %	0.000 %
Concentration RSD	8.6 %	57.9 %	38.8 %	6.9 %	2.0 %	0.2 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0054 ppm	0.0048 ppm	0.0052 ppm	0.0050 ppm	0.0091 ppm	0.0400 ppm	0.0068 ppm
Concentration per Run 1	0.0052 ppm	0.0042 ppm	0.0050 ppm	0.0050 ppm	0.0102 ppm	0.0643 ppm	0.0078 ppm
Concentration per Run 2	0.0056 ppm	0.0042 ppm	0.0053 ppm	0.0050 ppm	0.0094 ppm	0.0242 ppm	0.0067 ppm
Concentration per Run 3	0.0053 ppm	0.0059 ppm	0.0052 ppm	0.0049 ppm	0.0076 ppm	0.0313 ppm	0.0059 ppm
Recovery Percentage 1	107.520 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.0 %	19.6 %	3.2 %	0.3 %	15.0 %	53.6 %	14.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0060 ppm	0.0050 ppm	0.0049 ppm	0.1076 ppm	0.0056 ppm	0.0048 ppm	0.0067 ppm
Concentration per Run 1	0.0070 ppm	0.0049 ppm	0.0048 ppm	0.1086 ppm	0.0056 ppm	0.0041 ppm	0.0048 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0052 ppm	0.1109 ppm	0.0051 ppm	0.0052 ppm	0.0086 ppm
Concentration per Run 3	0.0058 ppm	0.0051 ppm	0.0047 ppm	0.1033 ppm	0.0061 ppm	0.0052 ppm	0.0066 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	15.4 %	1.6 %	4.7 %	3.6 %	8.7 %	13.1 %	28.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	0.0545 ppm	0.0038 ppm	0.0051 ppm	0.0054 ppm	0.0053 ppm	0.0046 ppm
Concentration per Run 1	0.0007 ppm	0.0513 ppm	0.0046 ppm	0.0050 ppm	0.0055 ppm	0.0053 ppm	0.0043 ppm
Concentration per Run 2	0.0013 ppm	0.0543 ppm	0.0037 ppm	0.0051 ppm	0.0056 ppm	0.0045 ppm	0.0048 ppm
Concentration per Run 3	0.0063 ppm	0.0578 ppm	0.0032 ppm	0.0050 ppm	0.0050 ppm	0.0062 ppm	0.0048 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	112.2 %	6.0 %	17.7 %	1.3 %	5.9 %	16.3 %	7.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0047 ppm	102.3510 %	101.4307 %	102.6079 %	101.5044 %	101.6372 %	103.5815 %
Concentration per Run 1	0.0046 ppm	106.1590 %	101.7654 %	103.3049 %	105.0295 %	101.9186 %	104.5204 %
Concentration per Run 2	0.0046 ppm	98.9864 %	99.9307 %	102.2007 %	98.2402 %	100.4821 %	102.8268 %
Concentration per Run 3	0.0048 ppm	101.9077 %	102.5960 %	102.3181 %	101.2436 %	102.5107 %	103.3973 %
Recovery Percentage 1	93.008 %						
Concentration RSD	3.2 %	3.5 %	1.3 %	0.6 %	3.4 %	1.0 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ 0.01ppm As soil TCLP
Analysis started at: 9/24/2024 7:13:05 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0108 ppm	0.0140 ppm	0.0113 ppm	0.0113 ppm	0.0103 ppm	0.0105 ppm	0.0173 ppm
Concentration per Run 1	0.0108 ppm	0.0072 ppm	0.0095 ppm	0.0105 ppm	0.0103 ppm	0.0105 ppm	0.0175 ppm
Concentration per Run 2	0.0107 ppm	0.0249 ppm	0.0126 ppm	0.0124 ppm	0.0102 ppm	0.0106 ppm	0.0175 ppm
Concentration per Run 3	0.0108 ppm	0.0100 ppm	0.0117 ppm	0.0109 ppm	0.0104 ppm	0.0104 ppm	0.0169 ppm
Recovery Percentage 1	0.000 %	0.000 %	112.577 %	112.726 %	103.057 %	0.000 %	0.000 %
Concentration RSD	0.3 %	67.8 %	14.1 %	9.1 %	0.8 %	0.8 %	2.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0101 ppm	0.0098 ppm	0.0101 ppm	0.0131 ppm	0.1018 ppm	**0.0121 ppm**
Concentration per Run 1	0.0104 ppm	0.0098 ppm	0.0096 ppm	0.0098 ppm	0.0123 ppm	0.1095 ppm	0.0120 ppm
Concentration per Run 2	0.0105 ppm	0.0109 ppm	0.0101 ppm	0.0102 ppm	0.0134 ppm	0.1164 ppm	0.0132 ppm
Concentration per Run 3	0.0104 ppm	0.0097 ppm	0.0098 ppm	0.0101 ppm	0.0135 ppm	0.0794 ppm	0.0111 ppm
Recovery Percentage 1	0.000 %	101.153 %	98.083 %	100.554 %	0.000 %	0.000 %	121.014 %
Concentration RSD	0.7 %	6.5 %	2.5 %	2.4 %	5.1 %	19.3 %	**8.7 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0107 ppm	0.0104 ppm	0.0100 ppm	0.2175 ppm	0.0115 ppm	0.0106 ppm	0.0092 ppm
Concentration per Run 1	0.0111 ppm	0.0104 ppm	0.0099 ppm	0.2219 ppm	0.0124 ppm	0.0089 ppm	0.0086 ppm
Concentration per Run 2	0.0111 ppm	0.0103 ppm	0.0096 ppm	0.2145 ppm	0.0123 ppm	0.0109 ppm	0.0108 ppm
Concentration per Run 3	0.0098 ppm	0.0104 ppm	0.0104 ppm	0.2163 ppm	0.0099 ppm	0.0121 ppm	0.0081 ppm
Recovery Percentage 1	0.000 %	103.558 %	0.000 %	0.000 %	115.094 %	106.220 %	0.000 %
Concentration RSD	6.9 %	0.6 %	4.0 %	1.8 %	12.3 %	14.9 %	15.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0105 ppm	0.1072 ppm	0.0084 ppm	0.0104 ppm	0.0107 ppm	0.0107 ppm	0.0098 ppm
Concentration per Run 1	0.0103 ppm	0.1072 ppm	0.0088 ppm	0.0104 ppm	0.0106 ppm	0.0098 ppm	0.0095 ppm
Concentration per Run 2	0.0119 ppm	0.1093 ppm	0.0081 ppm	0.0105 ppm	0.0108 ppm	0.0117 ppm	0.0101 ppm
Concentration per Run 3	0.0092 ppm	0.1052 ppm	0.0084 ppm	0.0105 ppm	0.0106 ppm	0.0107 ppm	0.0098 ppm
Recovery Percentage 1	104.768 %	0.000 %	84.235 %	104.270 %	106.586 %	107.267 %	97.898 %
Concentration RSD	12.9 %	1.9 %	3.9 %	0.6 %	1.4 %	8.9 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0098 ppm	103.9548 %	101.4031 %	102.1831 %	102.4945 %	101.0850 %	102.6385 %
Concentration per Run 1	0.0100 ppm	103.8311 %	101.3744 %	101.5550 %	102.6091 %	100.9061 %	101.8612 %
Concentration per Run 2	0.0097 ppm	103.8704 %	101.8918 %	102.3320 %	102.5281 %	101.8750 %	102.8159 %
Concentration per Run 3	0.0096 ppm	104.1631 %	100.9430 %	102.6623 %	102.3463 %	100.4739 %	103.2384 %
Recovery Percentage 1	97.546 %						
Concentration RSD	1.9 %	0.2 %	0.5 %	0.6 %	0.1 %	0.7 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 20 As pass
Analysis started at: 9/24/2024 7:16:57 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0066 ppm	19.3466 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	19.2915 ppm	0.0030 ppm	-0.0003 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 2	0.0004 ppm	-0.0033 ppm	19.3751 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0226 ppm	19.3733 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0083 ppm
Concentration RSD	14.9 %	213.2 %	0.2 %	88.6 %	85.4 %	30,750.4 %	99.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0003 ppm	-0.0003 ppm	-0.0002 ppm	0.0059 ppm	-0.0106 ppm	0.0015 ppm
Concentration per Run 1	-0.0005 ppm	-0.0009 ppm	-0.0004 ppm	-0.0001 ppm	0.0055 ppm	-0.0060 ppm	0.0023 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0053 ppm	-0.0349 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm	0.0069 ppm	0.0090 ppm	0.0020 ppm
Concentration RSD	38.0 %	143.6 %	134.7 %	102.7 %	14.9 %	210.1 %	84.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0069 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	-0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0136 ppm	0.0011 ppm	-0.0019 ppm	0.0005 ppm
Concentration per Run 3	0.0016 ppm	0.0004 ppm	0.0003 ppm	0.0067 ppm	-0.0004 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	259.4 %	104.5 %	105.2 %	96.4 %	217.7 %	1,367.3 %	1,787.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	-0.0036 ppm	-0.0007 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0014 ppm	-0.0021 ppm	-0.0009 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 2	-0.0042 ppm	-0.0056 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0034 ppm	-0.0030 ppm	-0.0007 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	49.0 %	51.6 %	22.7 %	22.3 %	89.7 %	67.3 %	132.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	105.8432 %	103.8553 %	104.2191 %	103.5720 %	103.2442 %	104.2046 %
Concentration per Run 1	-0.0004 ppm	106.7522 %	104.3795 %	104.6635 %	104.4324 %	103.8426 %	104.3453 %
Concentration per Run 2	-0.0006 ppm	104.9640 %	103.7474 %	104.2909 %	102.6388 %	103.3252 %	104.4167 %
Concentration per Run 3	-0.0009 ppm	105.8133 %	103.4390 %	103.7029 %	103.6447 %	102.5647 %	103.8516 %
Concentration RSD	36.3 %	0.8 %	0.5 %	0.5 %	0.9 %	0.6 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 20 B pass
Analysis started at: 9/24/2024 7:20:50 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0020 ppm	0.0007 ppm	19.6259 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0053 ppm	0.0023 ppm	19.5766 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0005 ppm	19.6704 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0008 ppm	19.6306 ppm	-0.0002 ppm	0.0000 ppm	0.0051 ppm
Concentration RSD	127.3 %	143.1 %	231.5 %	0.2 %	264.8 %	558.8 %	101.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	-0.0005 ppm	-0.0003 ppm	0.0047 ppm	0.0081 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0006 ppm	-0.0005 ppm	0.0054 ppm	0.0084 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0014 ppm	-0.0005 ppm	-0.0007 ppm	0.0023 ppm	0.0071 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0064 ppm	0.0089 ppm	0.0011 ppm
Concentration RSD	314.3 %	89.2 %	42.7 %	126.9 %	45.8 %	11.5 %	88.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 1	-0.0014 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0014 ppm	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0003 ppm	-0.0012 ppm	0.0021 ppm
Concentration per Run 3	0.0019 ppm	0.0001 ppm	-0.0008 ppm	-0.0011 ppm	0.0011 ppm	-0.0014 ppm	-0.0005 ppm
Concentration RSD	273.6 %	152.3 %	112.8 %	409.7 %	51.4 %	76.6 %	135.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0024 ppm	-0.0023 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0049 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 2	-0.0017 ppm	0.0021 ppm	-0.0031 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	-0.0044 ppm	-0.0029 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	104.6 %	160.7 %	55.1 %	54.8 %	127.7 %	34.9 %	45.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	105.7874 %	101.8473 %	104.1934 %	103.9832 %	101.4748 %	104.6960 %
Concentration per Run 1	-0.0011 ppm	105.9539 %	101.3479 %	104.7559 %	104.5148 %	101.0164 %	105.5060 %
Concentration per Run 2	-0.0009 ppm	105.5386 %	102.3027 %	103.8451 %	103.4326 %	101.6611 %	103.9776 %
Concentration per Run 3	-0.0010 ppm	105.8698 %	101.8913 %	103.9791 %	104.0023 %	101.7470 %	104.6043 %
Concentration RSD	6.6 %	0.2 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 200 Fe pass
Analysis started at: 9/24/2024 7:24:42 AM
Rack 1
Vial 5
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0152 ppm	-0.0007 ppm	0.0157 ppm	0.0000 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0003 ppm	0.0239 ppm	-0.0010 ppm	0.0171 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0013 ppm	0.0101 ppm	-0.0007 ppm	0.0150 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	0.0010 ppm	0.0118 ppm	-0.0003 ppm	0.0151 ppm	0.0001 ppm	0.0001 ppm	0.0062 ppm
Recovery Percentage 1	12.652 %		-13.254 %	52.495 %	0.357 %	1.029 %	
Concentration RSD	57.9 %	49.4 %	56.5 %	7.7 %	238.0 %	90.6 %	104.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0014 ppm	-0.0005 ppm	0.0005 ppm	197.2082 ppm	-0.0229 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	-0.0012 ppm	-0.0005 ppm	0.0007 ppm	197.6653 ppm	-0.0169 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0019 ppm	-0.0006 ppm	0.0006 ppm	196.2737 ppm	-0.0285 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0012 ppm	-0.0004 ppm	0.0002 ppm	197.6856 ppm	-0.0232 ppm	0.0027 ppm
Recovery Percentage 1	2.557 %	-7.129 %	-4.796 %	4.896 %		-0.915 %	36.365 %
Concentration RSD	38.0 %	31.2 %	19.5 %	58.8 %	0.4 %	25.4 %	76.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0017 ppm	-0.0012 ppm	-0.0013 ppm	0.0029 ppm	-0.0005 ppm	0.0006 ppm	-0.0023 ppm
Concentration per Run 1	-0.0023 ppm	-0.0013 ppm	-0.0015 ppm	-0.0047 ppm	-0.0007 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 2	-0.0018 ppm	-0.0011 ppm	-0.0012 ppm	0.0063 ppm	0.0000 ppm	-0.0005 ppm	-0.0023 ppm
Concentration per Run 3	-0.0008 ppm	-0.0013 ppm	-0.0012 ppm	0.0071 ppm	-0.0008 ppm	0.0007 ppm	-0.0048 ppm
Recovery Percentage 1		-12.382 %	-2.622 %	0.146 %	-2.026 %	5.733 %	-4.522 %
Concentration RSD	46.8 %	7.2 %	9.8 %	225.2 %	95.0 %	172.3 %	112.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0006 ppm	-0.0014 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0023 ppm	-0.0010 ppm	-0.0005 ppm	0.0004 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0016 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0016 ppm	-0.0003 ppm	-0.0022 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0001 ppm
Recovery Percentage 1	12.787 %	-0.113 %	-2.841 %	3.252 %	5.754 %	4.313 %	2.392 %
Concentration RSD	92.8 %	70.6 %	61.7 %	30.8 %	54.6 %	62.7 %	51.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	104.8431 %	103.4274 %	99.1611 %	101.9619 %	102.9953 %	102.6033 %
Concentration per Run 1	-0.0013 ppm	105.1342 %	102.7142 %	99.3115 %	102.0027 %	102.9064 %	102.6204 %
Concentration per Run 2	-0.0014 ppm	104.8665 %	103.8843 %	99.5032 %	102.2171 %	103.1952 %	102.9200 %
Concentration per Run 3	-0.0012 ppm	104.5286 %	103.6838 %	98.6687 %	101.6658 %	102.8842 %	102.2694 %
Recovery Percentage 1	-25.622 %						
Concentration RSD	4.9 %	0.3 %	0.6 %	0.4 %	0.3 %	0.2 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: XLDR 1000 Ca
Analysis started at: 9/24/2024 7:28:35 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0168 ppm	0.0022 ppm	0.0097 ppm	0.0007 ppm	0.0000 ppm	886.0642 [SIC 1000]
Concentration per Run 1	-0.0002 ppm	0.0177 ppm	0.0008 ppm	0.0082 ppm	0.0007 ppm	0.0000 ppm	886.2550 ppm
Concentration per Run 2	0.0002 ppm	0.0229 ppm	0.0034 ppm	0.0094 ppm	0.0007 ppm	0.0000 ppm	887.3409 ppm
Concentration per Run 3	0.0002 ppm	0.0097 ppm	0.0025 ppm	0.0114 ppm	0.0008 ppm	0.0000 ppm	884.5968 ppm
Concentration RSD	421.2 %	39.6 %	58.5 %	16.9 %	9.2 %	98.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0005 ppm	0.0107 ppm	0.0228 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0015 ppm	0.0003 ppm	0.0109 ppm	0.0122 ppm	0.0015 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	-0.0006 ppm	0.0009 ppm	0.0094 ppm	0.0332 ppm	-0.0012 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0117 ppm	0.0231 ppm	-0.0020 ppm
Concentration RSD	26.1 %	380.9 %	48.6 %	71.8 %	10.8 %	46.0 %	324.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0068 ppm	0.0004 ppm	0.0003 ppm	0.0157 ppm	0.0000 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0046 ppm	0.0006 ppm	0.0007 ppm	0.0158 ppm	0.0000 ppm	0.0014 ppm	-0.0023 ppm
Concentration per Run 2	0.0096 ppm	0.0006 ppm	0.0008 ppm	0.0221 ppm	0.0001 ppm	0.0006 ppm	0.0018 ppm
Concentration per Run 3	0.0063 ppm	0.0002 ppm	-0.0005 ppm	0.0092 ppm	-0.0002 ppm	0.0006 ppm	-0.0003 ppm
Concentration RSD	36.9 %	47.8 %	224.7 %	41.2 %	5,888.5 %	55.9 %	861.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0070 ppm	-0.0021 ppm	-0.0014 ppm	0.0017 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	-0.0010 ppm	0.0084 ppm	-0.0019 ppm	-0.0013 ppm	0.0018 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0045 ppm	0.0071 ppm	-0.0022 ppm	-0.0014 ppm	0.0014 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.0056 ppm	-0.0021 ppm	-0.0014 ppm	0.0018 ppm	0.0009 ppm	0.0005 ppm
Concentration RSD	297.1 %	19.9 %	6.6 %	4.0 %	14.0 %	40.7 %	27.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	95.5925 %	102.5580 %	84.8923 %	93.3640 %	102.8042 %	94.0518 %
Concentration per Run 1	0.0014 ppm	95.5091 %	102.7329 %	84.9321 %	93.1878 %	103.1321 %	93.9132 %
Concentration per Run 2	0.0010 ppm	95.7141 %	102.3852 %	84.9809 %	93.3688 %	102.8577 %	94.3244 %
Concentration per Run 3	0.0012 ppm	95.5543 %	102.5560 %	84.7640 %	93.5354 %	102.4229 %	93.9179 %
Concentration RSD	18.2 %	0.1 %	0.2 %	0.1 %	0.2 %	0.3 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 500 Fe pass
Analysis started at: 9/24/2024 7:34:29 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0299 ppm	-0.0039 ppm	0.0050 ppm	0.0003 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	0.0003 ppm	0.0273 ppm	-0.0002 ppm	0.0042 ppm	0.0004 ppm	0.0001 ppm	0.0100 ppm
Concentration per Run 2	0.0002 ppm	0.0334 ppm	-0.0076 ppm	0.0055 ppm	0.0003 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 3	0.0007 ppm	0.0289 ppm	-0.0039 ppm	0.0054 ppm	0.0001 ppm	0.0000 ppm	0.0054 ppm
Concentration RSD	63.7 %	10.7 %	95.7 %	14.2 %	50.1 %	197.1 %	34.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0036 ppm	-0.0007 ppm	-0.0019 ppm	489.6768 ppm	-0.0680 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0037 ppm	-0.0005 ppm	-0.0030 ppm	490.4056 ppm	-0.0696 ppm	0.0006 ppm
Concentration per Run 2	0.0005 ppm	-0.0034 ppm	-0.0010 ppm	-0.0021 ppm	492.3491 ppm	-0.0685 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0036 ppm	-0.0006 ppm	-0.0005 ppm	486.2759 ppm	-0.0658 ppm	0.0018 ppm
Concentration RSD	42.3 %	3.5 %	34.3 %	66.8 %	0.6 %	2.9 %	116.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0029 ppm	-0.0031 ppm	-0.0034 ppm	0.0093 ppm	-0.0013 ppm	0.0008 ppm	-0.0071 ppm
Concentration per Run 1	-0.0003 ppm	-0.0031 ppm	-0.0038 ppm	0.0137 ppm	-0.0014 ppm	0.0016 ppm	-0.0079 ppm
Concentration per Run 2	-0.0020 ppm	-0.0031 ppm	-0.0031 ppm	0.0093 ppm	-0.0014 ppm	0.0005 ppm	-0.0074 ppm
Concentration per Run 3	-0.0063 ppm	-0.0032 ppm	-0.0033 ppm	0.0050 ppm	-0.0010 ppm	0.0002 ppm	-0.0060 ppm
Concentration RSD	108.1 %	2.2 %	11.3 %	46.6 %	16.8 %	99.9 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0015 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0014 ppm	0.0023 ppm
Concentration per Run 1	0.0031 ppm	-0.0014 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0027 ppm	0.0027 ppm
Concentration per Run 2	-0.0044 ppm	-0.0016 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0013 ppm	0.0021 ppm
Concentration per Run 3	-0.0010 ppm	-0.0015 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0021 ppm
Concentration RSD	481.0 %	4.9 %	305.1 %	7.6 %	26.5 %	93.5 %	15.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0025 ppm	102.1286 %	103.5945 %	92.5933 %	99.4890 %	102.7188 %	100.5343 %
Concentration per Run 1	-0.0027 ppm	103.2642 %	103.8580 %	92.5119 %	100.4394 %	103.3983 %	100.8415 %
Concentration per Run 2	-0.0023 ppm	101.7690 %	103.0045 %	92.6077 %	99.0911 %	102.3140 %	100.3251 %
Concentration per Run 3	-0.0026 ppm	101.3527 %	103.9210 %	92.6603 %	98.9365 %	102.4441 %	100.4362 %
Concentration RSD	9.3 %	1.0 %	0.5 %	0.1 %	0.8 %	0.6 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 7:41:14 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5103 ppm	0.4901 ppm	0.4864 ppm	0.4986 ppm	0.5001 ppm	0.5144 ppm	0.4993 ppm
Concentration per Run 1	0.5060 ppm	0.4918 ppm	0.4884 ppm	0.4991 ppm	0.5024 ppm	0.5164 ppm	0.5008 ppm
Concentration per Run 2	0.5123 ppm	0.4942 ppm	0.4882 ppm	0.4971 ppm	0.4985 ppm	0.5137 ppm	0.4976 ppm
Concentration per Run 3	0.5125 ppm	0.4843 ppm	0.4827 ppm	0.4997 ppm	0.4995 ppm	0.5132 ppm	0.4994 ppm
Recovery Percentage 1	102.058 %	98.018 %	97.287 %	99.722 %	100.021 %	102.888 %	99.853 %
Concentration RSD	0.7 %	1.0 %	0.7 %	0.3 %	0.4 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5046 ppm	0.5168 ppm	0.4909 ppm	0.4953 ppm	0.5151 ppm	5.1973 ppm	0.4969 ppm
Concentration per Run 1	0.4989 ppm	0.5140 ppm	0.4877 ppm	0.4955 ppm	0.5115 ppm	5.2221 ppm	0.4952 ppm
Concentration per Run 2	0.5098 ppm	0.5185 ppm	0.4883 ppm	0.4945 ppm	0.5170 ppm	5.1709 ppm	0.4974 ppm
Concentration per Run 3	0.5053 ppm	0.5180 ppm	0.4967 ppm	0.4958 ppm	0.5168 ppm	5.1988 ppm	0.4981 ppm
Recovery Percentage 1	100.930 %	103.366 %	98.183 %	99.053 %	103.021 %	103.946 %	99.387 %
Concentration RSD	1.1 %	0.5 %	1.0 %	0.1 %	0.6 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4912 ppm	0.4925 ppm	0.4975 ppm	10.0340 ppm	0.5121 ppm	0.5033 ppm	0.5106 ppm
Concentration per Run 1	0.4897 ppm	0.4943 ppm	0.4952 ppm	10.0252 ppm	0.5118 ppm	0.5025 ppm	0.5123 ppm
Concentration per Run 2	0.4936 ppm	0.4922 ppm	0.4968 ppm	10.0883 ppm	0.5080 ppm	0.5056 ppm	0.5094 ppm
Concentration per Run 3	0.4901 ppm	0.4910 ppm	0.5005 ppm	9.9885 ppm	0.5165 ppm	0.5017 ppm	0.5099 ppm
Recovery Percentage 1	98.235 %	98.505 %	99.500 %	100.340 %	102.417 %	100.656 %	102.112 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.5 %	0.8 %	0.4 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4974 ppm	5.3749 ppm	0.4859 ppm	0.4806 ppm	0.5024 ppm	0.5059 ppm	0.4899 ppm
Concentration per Run 1	0.4948 ppm	5.3320 ppm	0.4871 ppm	0.4824 ppm	0.4984 ppm	0.5068 ppm	0.4893 ppm
Concentration per Run 2	0.5021 ppm	5.3796 ppm	0.4834 ppm	0.4797 ppm	0.5024 ppm	0.5080 ppm	0.4904 ppm
Concentration per Run 3	0.4953 ppm	5.4129 ppm	0.4874 ppm	0.4798 ppm	0.5064 ppm	0.5030 ppm	0.4902 ppm
Recovery Percentage 1	99.480 %	102.378 %	97.188 %	96.119 %	100.477 %	101.185 %	97.989 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.3 %	0.8 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5108 ppm	103.6705 %	102.4987 %	102.0801 %	101.4165 %	102.1092 %	102.4652 %
Concentration per Run 1	0.5105 ppm	103.7917 %	102.9027 %	102.3689 %	101.7819 %	102.6381 %	102.8728 %
Concentration per Run 2	0.5091 ppm	103.4904 %	101.5760 %	102.2177 %	100.9205 %	101.3802 %	102.3329 %
Concentration per Run 3	0.5128 ppm	103.7295 %	103.0172 %	101.6539 %	101.5472 %	102.3093 %	102.1898 %
Recovery Percentage 1	102.162 %						
Concentration RSD	0.4 %	0.2 %	0.8 %	0.4 %	0.4 %	0.6 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 7:45:13 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0060 ppm	0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	0.0005 ppm	0.0052 ppm	0.0006 ppm	0.0035 ppm	-0.0002 ppm	0.0001 ppm	-0.0028 ppm
Concentration per Run 2	0.0003 ppm	0.0092 ppm	-0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0004 ppm	0.0037 ppm	0.0006 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	-0.0046 ppm
Recovery Percentage 1	5.663 %	6.027 %	6.190 %	2.984 %	-1.361 %	0.696 %	-1.860 %
Concentration RSD	30.6 %	47.5 %	157.5 %	253.9 %	97.8 %	354.2 %	178.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm	0.0045 ppm	-0.0029 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0008 ppm	0.0003 ppm	-0.0007 ppm	0.0051 ppm	0.0123 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	-0.0003 ppm	-0.0003 ppm	0.0042 ppm	-0.0058 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0043 ppm	-0.0151 ppm	0.0010 ppm
Recovery Percentage 1	-2.377 %	3.599 %	-0.889 %	-3.196 %	9.066 %	-0.116 %	3.807 %
Concentration RSD	64.4 %	42.7 %	371.1 %	101.7 %	10.6 %	482.4 %	427.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0009 ppm	0.0004 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	-0.0022 ppm	0.0000 ppm	0.0012 ppm	0.0060 ppm	0.0005 ppm	-0.0006 ppm	-0.0023 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0012 ppm	-0.0009 ppm	0.0006 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 3	-0.0013 ppm	0.0001 ppm	0.0010 ppm	-0.0078 ppm	0.0001 ppm	-0.0009 ppm	-0.0003 ppm
Recovery Percentage 1	-0.311 %	1.051 %	2.246 %	-0.045 %	1.569 %	-2.205 %	-1.282 %
Concentration RSD	813.7 %	74.3 %	7.9 %	775.0 %	60.1 %	443.9 %	240.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	-0.0033 ppm	-0.0016 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0042 ppm	-0.0048 ppm	-0.0015 ppm	0.0002 ppm	0.0006 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	-0.0012 ppm	-0.0022 ppm	0.0000 ppm	0.0006 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	-0.0008 ppm	-0.0040 ppm	-0.0009 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	-0.0008 ppm
Recovery Percentage 1	-17.543 %	-0.665 %	-3.100 %	1.279 %	6.240 %	0.596 %	-3.468 %
Concentration RSD	121.6 %	57.0 %	41.4 %	94.4 %	2.4 %	566.7 %	119.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	103.3705 %	102.2999 %	102.4371 %	102.4602 %	102.7048 %	103.5850 %
Concentration per Run 1	-0.0012 ppm	102.9611 %	102.7125 %	102.6099 %	101.9175 %	102.6255 %	104.0074 %
Concentration per Run 2	-0.0016 ppm	102.7980 %	101.4559 %	102.1717 %	101.9262 %	102.0867 %	102.8568 %
Concentration per Run 3	-0.0015 ppm	104.3524 %	102.7312 %	102.5296 %	103.5370 %	103.4022 %	103.8908 %
Recovery Percentage 1	-28.731 %						
Concentration RSD	16.3 %	0.8 %	0.7 %	0.2 %	0.9 %	0.6 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-1 WG1974842
Analysis started at: 9/24/2024 8:10:13 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0110 ppm	0.0004 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0010 ppm	0.0068 ppm	0.0008 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0189 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 3	0.0000 ppm	0.0075 ppm	0.0005 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0049 ppm
Recovery Percentage 1	5.203 %	11.050 %	8.773 %	3.558 %	-0.503 %	0.676 %	5.867 %
Concentration RSD	145.8 %	61.3 %	85.9 %	59.7 %	79.5 %	113.3 %	51.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0012 ppm	-0.0001 ppm	0.0015 ppm	-0.0118 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0006 ppm	-0.0011 ppm	-0.0001 ppm	0.0017 ppm	-0.0042 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	-0.0012 ppm	-0.0004 ppm	0.0012 ppm	-0.0072 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0002 ppm	0.0016 ppm	-0.0240 ppm	-0.0003 ppm
Recovery Percentage 1	1.174 %	-1.581 %	-11.598 %	-1.069 %	3.025 %	-0.470 %	1.531 %
Concentration RSD	169.8 %	88.4 %	1.9 %	254.3 %	16.7 %	90.8 %	893.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0031 ppm	-0.0003 ppm	-0.0005 ppm	-0.0018 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0055 ppm	-0.0004 ppm	0.0002 ppm	-0.0025 ppm
Concentration per Run 2	0.0039 ppm	0.0000 ppm	-0.0001 ppm	-0.0078 ppm	-0.0005 ppm	-0.0010 ppm	0.0037 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	-0.0005 ppm	-0.0070 ppm	-0.0001 ppm	-0.0007 ppm	-0.0066 ppm
Recovery Percentage 1	2.255 %	-0.242 %	0.038 %	-0.155 %	-1.356 %	-5.117 %	-3.602 %
Concentration RSD	77.4 %	241.6 %	2,994.1 %	240.0 %	59.2 %	121.0 %	287.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0062 ppm	-0.0018 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	-0.0077 ppm	-0.0028 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 2	-0.0006 ppm	-0.0063 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	-0.0004 ppm	-0.0046 ppm	-0.0021 ppm	0.0002 ppm	0.0006 ppm	-0.0007 ppm	-0.0005 ppm
Recovery Percentage 1	-3.712 %	-1.239 %	-3.667 %	0.296 %	3.805 %	1.672 %	-6.175 %
Concentration RSD	53.5 %	25.2 %	60.6 %	568.1 %	45.9 %	267.2 %	40.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	101.1502 %	100.5726 %	100.4301 %	101.8968 %	101.4918 %	101.7390 %
Concentration per Run 1	-0.0012 ppm	101.7860 %	100.6859 %	100.0765 %	103.0265 %	101.9063 %	101.9952 %
Concentration per Run 2	-0.0011 ppm	100.5202 %	99.9646 %	100.9630 %	101.2190 %	100.6595 %	102.2795 %
Concentration per Run 3	-0.0012 ppm	101.1445 %	101.0673 %	100.2509 %	101.4449 %	101.9098 %	100.9424 %
Recovery Percentage 1	-23.703 %						
Concentration RSD	5.0 %	0.6 %	0.6 %	0.5 %	1.0 %	0.7 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-2 WG1974842
Analysis started at: 9/24/2024 8:14:12 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	1.8744 ppm	0.1154 ppm	0.9512 ppm	1.8998 ppm	0.0486 ppm	9.6175 ppm
Concentration per Run 1	0.0505 ppm	1.8521 ppm	0.1162 ppm	0.9553 ppm	1.9020 ppm	0.0486 ppm	9.5901 ppm
Concentration per Run 2	0.0503 ppm	1.8634 ppm	0.1148 ppm	0.9449 ppm	1.8950 ppm	0.0485 ppm	9.6036 ppm
Concentration per Run 3	0.0503 ppm	1.9078 ppm	0.1153 ppm	0.9532 ppm	1.9024 ppm	0.0488 ppm	9.6587 ppm
Concentration RSD	0.3 %	1.6 %	0.6 %	0.6 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0522 ppm	0.4861 ppm	0.1890 ppm	0.2390 ppm	0.9788 ppm	9.8709 ppm	0.0011 ppm
Concentration per Run 1	0.0521 ppm	0.4918 ppm	0.1911 ppm	0.2408 ppm	0.9761 ppm	9.8198 ppm	0.0005 ppm
Concentration per Run 2	0.0522 ppm	0.4843 ppm	0.1869 ppm	0.2376 ppm	0.9759 ppm	9.8878 ppm	0.0000 ppm
Concentration per Run 3	0.0522 ppm	0.4821 ppm	0.1889 ppm	0.2386 ppm	0.9845 ppm	9.9050 ppm	0.0026 ppm
Concentration RSD	0.1 %	1.0 %	1.1 %	0.7 %	0.5 %	0.5 %	130.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6943 ppm	0.4826 ppm	0.9331 ppm	9.6781 ppm	0.4874 ppm	0.5180 ppm	0.4147 ppm
Concentration per Run 1	9.7811 ppm	0.4822 ppm	0.9345 ppm	9.6389 ppm	0.4921 ppm	0.5185 ppm	0.4063 ppm
Concentration per Run 2	9.6693 ppm	0.4815 ppm	0.9281 ppm	9.6306 ppm	0.4856 ppm	0.5195 ppm	0.4166 ppm
Concentration per Run 3	9.6326 ppm	0.4842 ppm	0.9366 ppm	9.7649 ppm	0.4845 ppm	0.5161 ppm	0.4214 ppm
Concentration RSD	0.8 %	0.3 %	0.5 %	0.8 %	0.8 %	0.3 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1135 ppm	0.5580 ppm	0.9221 ppm	0.9201 ppm	0.9724 ppm	0.1182 ppm	0.4795 ppm
Concentration per Run 1	0.1153 ppm	0.5616 ppm	0.9253 ppm	0.9174 ppm	0.9786 ppm	0.1176 ppm	0.4856 ppm
Concentration per Run 2	0.1103 ppm	0.5556 ppm	0.9196 ppm	0.9149 ppm	0.9698 ppm	0.1181 ppm	0.4767 ppm
Concentration per Run 3	0.1148 ppm	0.5570 ppm	0.9214 ppm	0.9278 ppm	0.9686 ppm	0.1187 ppm	0.4761 ppm
Concentration RSD	2.4 %	0.6 %	0.3 %	0.7 %	0.6 %	0.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4899 ppm	102.9279 %	102.7993 %	101.3645 %	100.8461 %	102.3378 %	102.0515 %
Concentration per Run 1	0.4951 ppm	101.3261 %	102.9886 %	101.5426 %	99.7661 %	102.5372 %	101.8733 %
Concentration per Run 2	0.4864 ppm	104.1392 %	103.0235 %	100.6947 %	102.0117 %	102.4712 %	101.4414 %
Concentration per Run 3	0.4883 ppm	103.3185 %	102.3858 %	101.8563 %	100.7605 %	102.0049 %	102.8397 %
Concentration RSD	0.9 %	1.4 %	0.3 %	0.6 %	1.1 %	0.3 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450787-01 WG1974842
Analysis started at: 9/24/2024 8:18:06 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0315 ppm	0.0015 ppm	0.0148 ppm	0.0244 ppm	0.0000 ppm	15.0880 ppm
Concentration per Run 1	0.0011 ppm	0.0319 ppm	0.0015 ppm	0.0158 ppm	0.0242 ppm	0.0000 ppm	15.0904 ppm
Concentration per Run 2	0.0005 ppm	0.0418 ppm	0.0026 ppm	0.0134 ppm	0.0245 ppm	0.0000 ppm	15.1444 ppm
Concentration per Run 3	-0.0007 ppm	0.0209 ppm	0.0003 ppm	0.0152 ppm	0.0247 ppm	0.0000 ppm	15.0292 ppm
Concentration RSD	336.2 %	33.1 %	76.3 %	8.3 %	1.0 %	198.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0081 ppm	0.0336 ppm	2.1751 ppm	0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0077 ppm	0.0355 ppm	2.2012 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0083 ppm	0.0347 ppm	2.1814 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0085 ppm	0.0306 ppm	2.1427 ppm	0.0015 ppm
Concentration RSD	6,264.5 %	4,479.5 %	86.6 %	5.2 %	7.9 %	1.4 %	30.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4635 ppm	0.0009 ppm	0.0049 ppm	95.7484 ppm	0.0005 ppm	0.0004 ppm	0.0045 ppm
Concentration per Run 1	3.4777 ppm	0.0010 ppm	0.0049 ppm	95.3771 ppm	0.0001 ppm	-0.0005 ppm	0.0052 ppm
Concentration per Run 2	3.4733 ppm	0.0009 ppm	0.0041 ppm	96.3262 ppm	0.0013 ppm	0.0013 ppm	0.0032 ppm
Concentration per Run 3	3.4394 ppm	0.0008 ppm	0.0058 ppm	95.5420 ppm	0.0000 ppm	0.0003 ppm	0.0051 ppm
Concentration RSD	0.6 %	13.2 %	16.6 %	0.5 %	145.9 %	231.8 %	25.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	1.5353 ppm	0.0035 ppm	0.0830 ppm	0.0008 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 1	-0.0047 ppm	1.5428 ppm	0.0047 ppm	0.0828 ppm	0.0010 ppm	0.0034 ppm	-0.0003 ppm
Concentration per Run 2	-0.0037 ppm	1.5350 ppm	0.0034 ppm	0.0835 ppm	0.0005 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0006 ppm	1.5280 ppm	0.0022 ppm	0.0827 ppm	0.0008 ppm	0.0007 ppm	-0.0007 ppm
Concentration RSD	108.3 %	0.5 %	35.9 %	0.5 %	31.4 %	68.1 %	57.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0031 ppm	100.4584 %	100.7277 %	97.8564 %	98.9306 %	100.6812 %	101.1318 %
Concentration per Run 1	0.0030 ppm	100.4534 %	100.7577 %	98.0790 %	99.1592 %	100.8764 %	101.6278 %
Concentration per Run 2	0.0029 ppm	99.9119 %	100.6115 %	97.2063 %	98.4184 %	100.6056 %	100.3356 %
Concentration per Run 3	0.0033 ppm	101.0100 %	100.8141 %	98.2840 %	99.2144 %	100.5617 %	101.4320 %
Concentration RSD	6.2 %	0.5 %	0.1 %	0.6 %	0.4 %	0.2 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450787-02 WG1974842
Analysis started at: 9/24/2024 8:22:00 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0272 ppm	0.0010 ppm	0.0130 ppm	0.0127 ppm	0.0000 ppm	6.8358 ppm
Concentration per Run 1	0.0002 ppm	0.0282 ppm	0.0005 ppm	0.0129 ppm	0.0126 ppm	0.0000 ppm	6.8373 ppm
Concentration per Run 2	0.0003 ppm	0.0237 ppm	0.0023 ppm	0.0115 ppm	0.0126 ppm	0.0000 ppm	6.8123 ppm
Concentration per Run 3	0.0010 ppm	0.0298 ppm	0.0002 ppm	0.0146 ppm	0.0128 ppm	0.0001 ppm	6.8577 ppm
Concentration RSD	92.4 %	11.6 %	110.7 %	11.8 %	1.0 %	137.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0091 ppm	0.1375 ppm	1.7393 ppm	0.0022 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0004 ppm	0.0095 ppm	0.1409 ppm	1.7392 ppm	0.0015 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0085 ppm	0.1368 ppm	1.7421 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0093 ppm	0.1347 ppm	1.7366 ppm	0.0030 ppm
Concentration RSD	1,295.4 %	599.8 %	28.4 %	5.5 %	2.3 %	0.2 %	36.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4771 ppm	0.0047 ppm	0.0039 ppm	103.0234 ppm	0.0017 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	1.4859 ppm	0.0046 ppm	0.0041 ppm	102.6870 ppm	0.0009 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 2	1.4803 ppm	0.0047 ppm	0.0036 ppm	103.1333 ppm	0.0024 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 3	1.4651 ppm	0.0048 ppm	0.0042 ppm	103.2500 ppm	0.0020 ppm	0.0012 ppm	-0.0014 ppm
Concentration RSD	0.7 %	2.5 %	8.6 %	0.3 %	44.6 %	65.1 %	671.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	1.7570 ppm	-0.0007 ppm	0.0363 ppm	0.0004 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 1	-0.0028 ppm	1.7660 ppm	-0.0024 ppm	0.0363 ppm	0.0003 ppm	0.0017 ppm	-0.0002 ppm
Concentration per Run 2	-0.0032 ppm	1.7575 ppm	0.0001 ppm	0.0363 ppm	0.0002 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 3	0.0027 ppm	1.7474 ppm	0.0002 ppm	0.0364 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm
Concentration RSD	303.8 %	0.5 %	210.0 %	0.2 %	74.8 %	32.0 %	71.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	101.6900 %	102.4547 %	97.3119 %	100.0077 %	102.3124 %	100.4576 %
Concentration per Run 1	0.0018 ppm	101.1805 %	101.7937 %	97.6004 %	100.1345 %	101.6136 %	100.7409 %
Concentration per Run 2	0.0018 ppm	100.8757 %	103.1479 %	97.5272 %	98.8114 %	102.8023 %	100.8802 %
Concentration per Run 3	0.0013 ppm	103.0139 %	102.4227 %	96.8082 %	101.0770 %	102.5212 %	99.7517 %
Concentration RSD	17.5 %	1.1 %	0.7 %	0.4 %	1.1 %	0.6 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450791-01 WG1974842
Analysis started at: 9/24/2024 8:25:54 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1181 ppm	0.0009 ppm	0.0520 ppm	0.0015 ppm	0.0001 ppm	0.0555 ppm
Concentration per Run 1	0.0000 ppm	0.0965 ppm	0.0027 ppm	0.0510 ppm	0.0015 ppm	0.0001 ppm	0.0612 ppm
Concentration per Run 2	0.0002 ppm	0.1265 ppm	-0.0003 ppm	0.0519 ppm	0.0016 ppm	0.0001 ppm	0.0497 ppm
Concentration per Run 3	0.0005 ppm	0.1312 ppm	0.0003 ppm	0.0531 ppm	0.0015 ppm	0.0001 ppm	0.0557 ppm
Concentration RSD	104.7 %	15.9 %	174.5 %	2.0 %	4.7 %	30.8 %	10.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.1837 ppm	0.0398 ppm	1.0378 ppm	0.0006 ppm
Concentration per Run 1	0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.1843 ppm	0.0425 ppm	1.0415 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0002 ppm	0.1834 ppm	0.0389 ppm	1.0471 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.1833 ppm	0.0379 ppm	1.0248 ppm	0.0006 ppm
Concentration RSD	149.1 %	71.4 %	1,691.3 %	0.3 %	6.0 %	1.1 %	73.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0225 ppm	0.0003 ppm	0.0000 ppm	0.9976 ppm	0.0004 ppm	-0.0002 ppm	-0.0015 ppm
Concentration per Run 1	0.0189 ppm	0.0005 ppm	-0.0002 ppm	1.0028 ppm	0.0002 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 2	0.0239 ppm	0.0001 ppm	0.0002 ppm	0.9964 ppm	0.0009 ppm	0.0008 ppm	-0.0026 ppm
Concentration per Run 3	0.0247 ppm	0.0004 ppm	0.0000 ppm	0.9937 ppm	0.0001 ppm	0.0003 ppm	-0.0021 ppm
Concentration RSD	14.1 %	66.1 %	1,452.7 %	0.5 %	118.2 %	727.4 %	91.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.3249 ppm	-0.0011 ppm	0.0012 ppm	0.0037 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0021 ppm	0.3310 ppm	-0.0008 ppm	0.0012 ppm	0.0036 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	-0.0020 ppm	0.3235 ppm	-0.0008 ppm	0.0012 ppm	0.0041 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.3204 ppm	-0.0018 ppm	0.0011 ppm	0.0034 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	334.0 %	1.7 %	50.1 %	6.8 %	9.1 %	53.6 %	74.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	105.1776 %	103.4172 %	103.9659 %	103.3622 %	102.9652 %	104.1159 %
Concentration per Run 1	0.0022 ppm	104.5780 %	103.2177 %	104.5677 %	103.0664 %	103.2334 %	104.1896 %
Concentration per Run 2	0.0016 ppm	106.2031 %	104.1920 %	104.4842 %	104.3352 %	103.4482 %	105.0084 %
Concentration per Run 3	0.0018 ppm	104.7519 %	102.8420 %	102.8459 %	102.6850 %	102.2138 %	103.1498 %
Concentration RSD	15.5 %	0.8 %	0.7 %	0.9 %	0.8 %	0.6 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-01 WG1974842
Analysis started at: 9/24/2024 8:29:48 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.4621 ppm	0.0022 ppm	0.0149 ppm	0.0235 ppm	0.0001 ppm	23.6176 ppm
Concentration per Run 1	0.0003 ppm	0.4622 ppm	0.0016 ppm	0.0154 ppm	0.0234 ppm	0.0001 ppm	23.5973 ppm
Concentration per Run 2	0.0001 ppm	0.4647 ppm	0.0030 ppm	0.0148 ppm	0.0235 ppm	0.0001 ppm	23.5723 ppm
Concentration per Run 3	0.0002 ppm	0.4594 ppm	0.0020 ppm	0.0145 ppm	0.0236 ppm	0.0000 ppm	23.6834 ppm
Concentration RSD	38.2 %	0.6 %	32.9 %	3.2 %	0.6 %	40.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm	0.8924 ppm	1.5114 ppm	0.0027 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0028 ppm	0.8889 ppm	1.4999 ppm	0.0027 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0022 ppm	0.8933 ppm	1.5357 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0031 ppm	0.8948 ppm	1.4985 ppm	0.0032 ppm
Concentration RSD	71.2 %	117.9 %	139.7 %	15.4 %	0.3 %	1.4 %	15.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8965 ppm	0.0656 ppm	-0.0002 ppm	16.4169 ppm	0.0014 ppm	0.0018 ppm	0.0004 ppm
Concentration per Run 1	4.9237 ppm	0.0656 ppm	0.0001 ppm	16.4084 ppm	0.0016 ppm	0.0017 ppm	0.0038 ppm
Concentration per Run 2	4.8913 ppm	0.0659 ppm	-0.0005 ppm	16.3687 ppm	0.0014 ppm	0.0011 ppm	-0.0032 ppm
Concentration per Run 3	4.8745 ppm	0.0652 ppm	-0.0002 ppm	16.4738 ppm	0.0011 ppm	0.0026 ppm	0.0004 ppm
Concentration RSD	0.5 %	0.5 %	160.5 %	0.3 %	19.0 %	42.5 %	948.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	1.2924 ppm	-0.0023 ppm	0.1273 ppm	0.0068 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 1	-0.0010 ppm	1.2982 ppm	-0.0024 ppm	0.1266 ppm	0.0062 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 2	0.0012 ppm	1.2913 ppm	-0.0025 ppm	0.1273 ppm	0.0072 ppm	-0.0010 ppm	0.0007 ppm
Concentration per Run 3	-0.0072 ppm	1.2877 ppm	-0.0019 ppm	0.1280 ppm	0.0070 ppm	0.0000 ppm	0.0008 ppm
Concentration RSD	188.2 %	0.4 %	13.7 %	0.5 %	7.6 %	92.0 %	21.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0042 ppm	102.2224 %	102.6037 %	100.7322 %	101.0834 %	102.3293 %	102.5016 %
Concentration per Run 1	0.0042 ppm	101.4095 %	103.8647 %	102.0588 %	100.6647 %	103.4812 %	103.8353 %
Concentration per Run 2	0.0041 ppm	103.0812 %	103.1871 %	100.0954 %	101.6164 %	102.8020 %	101.9978 %
Concentration per Run 3	0.0044 ppm	102.1766 %	100.7594 %	100.0424 %	100.9693 %	100.7049 %	101.6718 %
Concentration RSD	3.3 %	0.8 %	1.6 %	1.1 %	0.5 %	1.4 %	1.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-3 WG1974842
Analysis started at: 9/24/2024 8:33:43 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	2.4016 ppm	0.1221 ppm	0.9862 ppm	1.9755 ppm	0.0504 ppm	32.8992 ppm
Concentration per Run 1	0.0509 ppm	2.4171 ppm	0.1211 ppm	0.9865 ppm	1.9727 ppm	0.0504 ppm	33.0040 ppm
Concentration per Run 2	0.0515 ppm	2.4033 ppm	0.1252 ppm	0.9853 ppm	1.9771 ppm	0.0505 ppm	32.9362 ppm
Concentration per Run 3	0.0517 ppm	2.3844 ppm	0.1201 ppm	0.9866 ppm	1.9766 ppm	0.0503 ppm	32.7575 ppm
Concentration RSD	0.7 %	0.7 %	2.2 %	0.1 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.4920 ppm	0.1929 ppm	0.2467 ppm	1.8681 ppm	11.6068 ppm	0.0046 ppm
Concentration per Run 1	0.0524 ppm	0.4922 ppm	0.1917 ppm	0.2469 ppm	1.8732 ppm	11.6007 ppm	0.0051 ppm
Concentration per Run 2	0.0524 ppm	0.4938 ppm	0.1934 ppm	0.2464 ppm	1.8675 ppm	11.6404 ppm	0.0039 ppm
Concentration per Run 3	0.0517 ppm	0.4902 ppm	0.1934 ppm	0.2469 ppm	1.8636 ppm	11.5793 ppm	0.0049 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %	0.1 %	0.3 %	0.3 %	13.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.4839 ppm	0.5589 ppm	0.9091 ppm	25.9161 ppm	0.4940 ppm	0.5263 ppm	0.4350 ppm
Concentration per Run 1	14.4568 ppm	0.5599 ppm	0.9004 ppm	26.0345 ppm	0.4897 ppm	0.5297 ppm	0.4274 ppm
Concentration per Run 2	14.5019 ppm	0.5614 ppm	0.9109 ppm	25.8487 ppm	0.4967 ppm	0.5248 ppm	0.4358 ppm
Concentration per Run 3	14.4930 ppm	0.5553 ppm	0.9160 ppm	25.8652 ppm	0.4955 ppm	0.5245 ppm	0.4417 ppm
Concentration RSD	0.2 %	0.6 %	0.9 %	0.4 %	0.7 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1190 ppm	1.9242 ppm	0.8955 ppm	1.0644 ppm	0.9883 ppm	0.1205 ppm	0.4925 ppm
Concentration per Run 1	0.1199 ppm	1.9214 ppm	0.8937 ppm	1.0652 ppm	0.9852 ppm	0.1211 ppm	0.4928 ppm
Concentration per Run 2	0.1191 ppm	1.9274 ppm	0.8959 ppm	1.0643 ppm	0.9896 ppm	0.1208 ppm	0.4931 ppm
Concentration per Run 3	0.1179 ppm	1.9237 ppm	0.8970 ppm	1.0636 ppm	0.9900 ppm	0.1195 ppm	0.4916 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.1 %	0.3 %	0.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5053 ppm	102.7179 %	102.7639 %	99.9582 %	100.5074 %	101.4891 %	101.5484 %
Concentration per Run 1	0.5042 ppm	102.9883 %	102.5053 %	99.0333 %	101.2943 %	101.8870 %	100.8644 %
Concentration per Run 2	0.5088 ppm	102.1243 %	102.7863 %	100.6533 %	99.9444 %	101.6572 %	102.0352 %
Concentration per Run 3	0.5030 ppm	103.0411 %	103.0001 %	100.1881 %	100.2835 %	100.9231 %	101.7455 %
Concentration RSD	0.6 %	0.5 %	0.2 %	0.8 %	0.7 %	0.5 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-4 WG1974842
Analysis started at: 9/24/2024 8:37:37 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	2.4145 ppm	0.1199 ppm	0.9868 ppm	1.9709 ppm	0.0502 ppm	33.1743 ppm
Concentration per Run 1	0.0505 ppm	2.4141 ppm	0.1184 ppm	0.9815 ppm	1.9601 ppm	0.0501 ppm	33.1221 ppm
Concentration per Run 2	0.0504 ppm	2.4246 ppm	0.1210 ppm	0.9862 ppm	1.9907 ppm	0.0504 ppm	33.3259 ppm
Concentration per Run 3	0.0513 ppm	2.4047 ppm	0.1203 ppm	0.9927 ppm	1.9618 ppm	0.0502 ppm	33.0748 ppm
Concentration RSD	1.0 %	0.4 %	1.1 %	0.6 %	0.9 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.4883 ppm	0.1917 ppm	0.2449 ppm	1.9011 ppm	11.6220 ppm	0.0028 ppm
Concentration per Run 1	0.0523 ppm	0.4870 ppm	0.1927 ppm	0.2439 ppm	1.8999 ppm	11.5963 ppm	0.0036 ppm
Concentration per Run 2	0.0520 ppm	0.4879 ppm	0.1916 ppm	0.2438 ppm	1.9122 ppm	11.6817 ppm	0.0019 ppm
Concentration per Run 3	0.0520 ppm	0.4900 ppm	0.1910 ppm	0.2470 ppm	1.8913 ppm	11.5881 ppm	0.0029 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.8 %	0.6 %	0.4 %	30.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5114 ppm	0.5600 ppm	0.9113 ppm	26.1195 ppm	0.4884 ppm	0.5231 ppm	0.4359 ppm
Concentration per Run 1	14.5095 ppm	0.5592 ppm	0.8993 ppm	26.0958 ppm	0.4878 ppm	0.5187 ppm	0.4335 ppm
Concentration per Run 2	14.5256 ppm	0.5616 ppm	0.9101 ppm	26.2948 ppm	0.4908 ppm	0.5255 ppm	0.4269 ppm
Concentration per Run 3	14.4992 ppm	0.5592 ppm	0.9245 ppm	25.9680 ppm	0.4865 ppm	0.5249 ppm	0.4474 ppm
Concentration RSD	0.1 %	0.2 %	1.4 %	0.6 %	0.5 %	0.7 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1166 ppm	1.9482 ppm	0.8976 ppm	1.0676 ppm	0.9833 ppm	0.1185 ppm	0.4907 ppm
Concentration per Run 1	0.1151 ppm	1.9451 ppm	0.8913 ppm	1.0643 ppm	0.9878 ppm	0.1172 ppm	0.4906 ppm
Concentration per Run 2	0.1184 ppm	1.9523 ppm	0.8970 ppm	1.0754 ppm	0.9836 ppm	0.1198 ppm	0.4902 ppm
Concentration per Run 3	0.1162 ppm	1.9473 ppm	0.9045 ppm	1.0631 ppm	0.9784 ppm	0.1185 ppm	0.4913 ppm
Concentration RSD	1.4 %	0.2 %	0.7 %	0.6 %	0.5 %	1.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5008 ppm	102.2825 %	102.2321 %	100.0750 %	100.1026 %	101.4269 %	101.3016 %
Concentration per Run 1	0.5002 ppm	102.5470 %	102.7649 %	99.7698 %	100.3427 %	102.1391 %	100.8581 %
Concentration per Run 2	0.4998 ppm	102.8853 %	101.4283 %	100.4764 %	100.5247 %	100.9658 %	101.6217 %
Concentration per Run 3	0.5023 ppm	101.4152 %	102.5030 %	99.9789 %	99.4405 %	101.1759 %	101.4251 %
Concentration RSD	0.3 %	0.8 %	0.7 %	0.4 %	0.6 %	0.6 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-5 WG1974842
Analysis started at: 9/24/2024 8:41:32 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	2.5094 ppm	0.1279 ppm	1.0540 ppm	2.0741 ppm	0.0529 ppm	34.2145 ppm
Concentration per Run 1	0.0496 ppm	2.5146 ppm	0.1286 ppm	1.0567 ppm	2.0624 ppm	0.0527 ppm	34.1817 ppm
Concentration per Run 2	0.0493 ppm	2.5228 ppm	0.1272 ppm	1.0511 ppm	2.0801 ppm	0.0530 ppm	34.3173 ppm
Concentration per Run 3	0.0497 ppm	2.4907 ppm	0.1280 ppm	1.0541 ppm	2.0798 ppm	0.0531 ppm	34.1444 ppm
Concentration RSD	0.5 %	0.7 %	0.6 %	0.3 %	0.5 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0540 ppm	0.5090 ppm	0.2002 ppm	0.2542 ppm	1.9532 ppm	12.5168 ppm	0.0031 ppm
Concentration per Run 1	0.0530 ppm	0.5054 ppm	0.1996 ppm	0.2543 ppm	1.9423 ppm	12.4719 ppm	0.0049 ppm
Concentration per Run 2	0.0540 ppm	0.5077 ppm	0.1989 ppm	0.2531 ppm	1.9634 ppm	12.5571 ppm	0.0019 ppm
Concentration per Run 3	0.0550 ppm	0.5141 ppm	0.2021 ppm	0.2553 ppm	1.9540 ppm	12.5213 ppm	0.0027 ppm
Concentration RSD	1.9 %	0.9 %	0.8 %	0.4 %	0.5 %	0.3 %	49.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1655 ppm	0.5851 ppm	0.9821 ppm	27.1451 ppm	0.5100 ppm	0.5476 ppm	0.3762 ppm
Concentration per Run 1	15.1157 ppm	0.5858 ppm	0.9692 ppm	27.0426 ppm	0.5114 ppm	0.5438 ppm	0.3548 ppm
Concentration per Run 2	15.1657 ppm	0.5850 ppm	0.9796 ppm	27.4169 ppm	0.5074 ppm	0.5508 ppm	0.3797 ppm
Concentration per Run 3	15.2151 ppm	0.5845 ppm	0.9974 ppm	26.9760 ppm	0.5111 ppm	0.5482 ppm	0.3941 ppm
Concentration RSD	0.3 %	0.1 %	1.5 %	0.9 %	0.4 %	0.6 %	5.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1244 ppm	2.3711 ppm	1.0113 ppm	1.1447 ppm	1.0589 ppm	0.1249 ppm	0.5094 ppm
Concentration per Run 1	0.1228 ppm	2.3689 ppm	1.0081 ppm	1.1385 ppm	1.0554 ppm	0.1232 ppm	0.5078 ppm
Concentration per Run 2	0.1260 ppm	2.3601 ppm	1.0118 ppm	1.1484 ppm	1.0593 ppm	0.1255 ppm	0.5081 ppm
Concentration per Run 3	0.1243 ppm	2.3844 ppm	1.0138 ppm	1.1472 ppm	1.0622 ppm	0.1259 ppm	0.5122 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	0.5 %	0.3 %	1.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5240 ppm	102.4325 %	102.0331 %	99.1482 %	100.2296 %	101.2041 %	100.4946 %
Concentration per Run 1	0.5256 ppm	102.2148 %	102.4686 %	99.6390 %	100.2808 %	102.3171 %	101.1206 %
Concentration per Run 2	0.5232 ppm	102.8564 %	101.9275 %	99.1694 %	100.6130 %	100.9528 %	100.3782 %
Concentration per Run 3	0.5232 ppm	102.2263 %	101.7032 %	98.6362 %	99.7948 %	100.3423 %	99.9851 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.5 %	0.4 %	1.0 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-6D5 WG1974842
Analysis started at: 9/24/2024 8:45:24 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0929 ppm	0.0028 ppm	0.0049 ppm	0.0047 ppm	-0.0001 ppm	4.7194 ppm
Concentration per Run 1	0.0001 ppm	0.0908 ppm	0.0046 ppm	0.0058 ppm	0.0048 ppm	-0.0001 ppm	4.7397 ppm
Concentration per Run 2	-0.0002 ppm	0.1060 ppm	0.0028 ppm	0.0048 ppm	0.0046 ppm	0.0000 ppm	4.7275 ppm
Concentration per Run 3	0.0004 ppm	0.0817 ppm	0.0009 ppm	0.0041 ppm	0.0047 ppm	0.0000 ppm	4.6910 ppm
Concentration RSD	276.1 %	13.3 %	65.3 %	17.3 %	1.9 %	36.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.1827 ppm	0.2971 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.1827 ppm	0.3188 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	-0.0008 ppm	0.0002 ppm	-0.0002 ppm	0.1846 ppm	0.3060 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	0.0007 ppm	0.1807 ppm	0.2666 ppm	0.0006 ppm
Concentration RSD	116.3 %	161.4 %	1,149.3 %	280.9 %	1.0 %	9.2 %	73.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9673 ppm	0.0133 ppm	0.0049 ppm	3.2937 ppm	0.0013 ppm	0.0008 ppm	0.0082 ppm
Concentration per Run 1	0.9667 ppm	0.0134 ppm	0.0055 ppm	3.3163 ppm	0.0013 ppm	0.0010 ppm	0.0082 ppm
Concentration per Run 2	0.9622 ppm	0.0132 ppm	0.0044 ppm	3.3049 ppm	0.0006 ppm	0.0019 ppm	0.0115 ppm
Concentration per Run 3	0.9730 ppm	0.0132 ppm	0.0048 ppm	3.2597 ppm	0.0020 ppm	-0.0003 ppm	0.0048 ppm
Concentration RSD	0.6 %	0.7 %	11.2 %	0.9 %	55.2 %	133.8 %	40.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.2498 ppm	0.0209 ppm	0.0256 ppm	0.0020 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.0036 ppm	0.2493 ppm	0.0219 ppm	0.0257 ppm	0.0021 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	0.2488 ppm	0.0212 ppm	0.0256 ppm	0.0022 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0045 ppm	0.2513 ppm	0.0197 ppm	0.0256 ppm	0.0016 ppm	0.0013 ppm	-0.0003 ppm
Concentration RSD	2,637.5 %	0.5 %	5.2 %	0.2 %	15.7 %	326.0 %	83.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	103.4348 %	102.4009 %	104.1652 %	101.3221 %	101.8095 %	104.4007 %
Concentration per Run 1	-0.0001 ppm	103.9885 %	102.1993 %	111.8870 %	102.0790 %	101.6736 %	110.6952 %
Concentration per Run 2	-0.0003 ppm	104.3530 %	102.0254 %	99.5274 %	102.4537 %	101.6194 %	100.2100 %
Concentration per Run 3	-0.0003 ppm	101.9630 %	102.9780 %	101.0811 %	99.4336 %	102.1356 %	102.2969 %
Concentration RSD	55.6 %	1.2 %	0.5 %	6.5 %	1.6 %	0.3 %	5.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 8:49:16 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5074 ppm	0.4766 ppm	0.4852 ppm	0.4946 ppm	0.4971 ppm	0.5082 ppm	0.4911 ppm
Concentration per Run 1	0.5020 ppm	0.4861 ppm	0.4859 ppm	0.4906 ppm	0.4967 ppm	0.5090 ppm	0.4911 ppm
Concentration per Run 2	0.5099 ppm	0.4692 ppm	0.4871 ppm	0.4967 ppm	0.4967 ppm	0.5075 ppm	0.4914 ppm
Concentration per Run 3	0.5104 ppm	0.4745 ppm	0.4825 ppm	0.4966 ppm	0.4979 ppm	0.5081 ppm	0.4907 ppm
Recovery Percentage 1	101.480 %	95.324 %	97.032 %	98.926 %	99.419 %	101.638 %	98.211 %
Concentration RSD	0.9 %	1.8 %	0.5 %	0.7 %	0.1 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4975 ppm	0.5093 ppm	0.4883 ppm	0.4892 ppm	0.5044 ppm	5.1222 ppm	0.4907 ppm
Concentration per Run 1	0.4936 ppm	0.5073 ppm	0.4832 ppm	0.4861 ppm	0.5087 ppm	5.1571 ppm	0.4911 ppm
Concentration per Run 2	0.4986 ppm	0.5110 ppm	0.4916 ppm	0.4896 ppm	0.5023 ppm	5.0938 ppm	0.4916 ppm
Concentration per Run 3	0.5004 ppm	0.5097 ppm	0.4902 ppm	0.4920 ppm	0.5021 ppm	5.1155 ppm	0.4896 ppm
Recovery Percentage 1	99.506 %	101.863 %	97.665 %	97.849 %	100.878 %	102.443 %	98.149 %
Concentration RSD	0.7 %	0.4 %	0.9 %	0.6 %	0.7 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4891 ppm	0.4885 ppm	0.4928 ppm	9.9432 ppm	0.5078 ppm	0.4994 ppm	0.5082 ppm
Concentration per Run 1	0.4815 ppm	0.4888 ppm	0.4846 ppm	9.9239 ppm	0.5022 ppm	0.5021 ppm	0.5014 ppm
Concentration per Run 2	0.4937 ppm	0.4871 ppm	0.4947 ppm	9.9693 ppm	0.5111 ppm	0.5026 ppm	0.5108 ppm
Concentration per Run 3	0.4921 ppm	0.4895 ppm	0.4992 ppm	9.9363 ppm	0.5102 ppm	0.4935 ppm	0.5124 ppm
Recovery Percentage 1	97.813 %	97.692 %	98.566 %	99.432 %	101.562 %	99.876 %	101.643 %
Concentration RSD	1.4 %	0.3 %	1.5 %	0.2 %	1.0 %	1.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4905 ppm	5.2977 ppm	0.4887 ppm	0.4757 ppm	0.4988 ppm	0.4995 ppm	0.4853 ppm
Concentration per Run 1	0.4924 ppm	5.2298 ppm	0.4834 ppm	0.4761 ppm	0.4930 ppm	0.5012 ppm	0.4823 ppm
Concentration per Run 2	0.4937 ppm	5.3256 ppm	0.4934 ppm	0.4754 ppm	0.5020 ppm	0.5009 ppm	0.4857 ppm
Concentration per Run 3	0.4852 ppm	5.3377 ppm	0.4891 ppm	0.4757 ppm	0.5013 ppm	0.4963 ppm	0.4880 ppm
Recovery Percentage 1	98.090 %	100.909 %	97.732 %	95.146 %	99.754 %	99.893 %	97.065 %
Concentration RSD	0.9 %	1.1 %	1.0 %	0.1 %	1.0 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5062 ppm	105.0862 %	104.4116 %	103.0521 %	102.4957 %	103.2776 %	103.1332 %
Concentration per Run 1	0.5020 ppm	106.4745 %	104.6752 %	103.2113 %	103.9487 %	103.7350 %	103.4360 %
Concentration per Run 2	0.5077 ppm	104.5755 %	104.5863 %	101.8907 %	101.9092 %	103.2000 %	102.1347 %
Concentration per Run 3	0.5088 ppm	104.2086 %	103.9733 %	104.0542 %	101.6293 %	102.8978 %	103.8289 %
Recovery Percentage 1	101.237 %						
Concentration RSD	0.7 %	1.2 %	0.4 %	1.1 %	1.2 %	0.4 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 8:53:10 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0023 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0006 ppm	0.0069 ppm	0.0027 ppm	0.0026 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 2	0.0004 ppm	-0.0092 ppm	0.0032 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	-0.0003 ppm	0.0014 ppm	0.0010 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	3.728 %	-0.316 %	45.990 %	5.413 %	-0.695 %	-0.247 %	1.339 %
Concentration RSD	179.0 %	2,598.0 %	51.1 %	52.1 %	320.6 %	284.3 %	177.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0029 ppm	-0.0236 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0003 ppm	0.0014 ppm	-0.0017 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	0.0000 ppm	-0.0004 ppm	0.0029 ppm	-0.0126 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0002 ppm	0.0043 ppm	-0.0566 ppm	0.0006 ppm
Recovery Percentage 1	0.957 %	-1.751 %	-1.746 %	-2.927 %	5.752 %	-0.946 %	25.773 %
Concentration RSD	52.3 %	236.2 %	79.7 %	27.2 %	50.7 %	122.7 %	60.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0001 ppm	0.0014 ppm	0.0030 ppm	0.0004 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 1	-0.0021 ppm	-0.0001 ppm	0.0020 ppm	-0.0062 ppm	0.0004 ppm	-0.0014 ppm	0.0009 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0011 ppm	0.0041 ppm	-0.0001 ppm	0.0004 ppm	-0.0036 ppm
Concentration per Run 3	-0.0026 ppm	-0.0001 ppm	0.0009 ppm	0.0111 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-1.134 %	-0.525 %	2.746 %	0.149 %	1.554 %	-0.628 %	-1.729 %
Concentration RSD	187.8 %	103.6 %	42.6 %	290.0 %	128.1 %	1,831.1 %	274.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	-0.0018 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	-0.0016 ppm	-0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	-0.0022 ppm	0.0008 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 3	-0.0032 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	-11.527 %	-0.363 %	1.102 %	1.462 %	3.595 %	1.187 %	-3.012 %
Concentration RSD	197.6 %	46.1 %	91.0 %	8.0 %	44.6 %	138.6 %	122.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	103.8987 %	101.8880 %	102.5903 %	103.1935 %	101.7245 %	103.4500 %
Concentration per Run 1	-0.0015 ppm	103.7067 %	101.8158 %	102.9370 %	102.9608 %	101.7011 %	103.4988 %
Concentration per Run 2	-0.0012 ppm	104.1566 %	102.5610 %	102.4061 %	103.7280 %	102.3059 %	103.6448 %
Concentration per Run 3	-0.0016 ppm	103.8328 %	101.2872 %	102.4279 %	102.8917 %	101.1665 %	103.2065 %
Recovery Percentage 1	-28.090 %						
Concentration RSD	14.9 %	0.2 %	0.6 %	0.3 %	0.4 %	0.6 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: xLLOQ 0.005ppm
Analysis started at: 9/24/2024 9:05:16 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0057 ppm	0.0109 ppm	0.0074 ppm	0.0056 ppm	0.0049 ppm	0.0051 ppm	0.0098 ppm
Concentration per Run 1	0.0058 ppm	0.0140 ppm	0.0062 ppm	0.0055 ppm	0.0049 ppm	0.0051 ppm	0.0093 ppm
Concentration per Run 2	0.0057 ppm	0.0224 ppm	0.0083 ppm	0.0060 ppm	0.0049 ppm	0.0052 ppm	0.0106 ppm
Concentration per Run 3	0.0055 ppm	-0.0037 ppm	0.0078 ppm	0.0054 ppm	0.0050 ppm	0.0051 ppm	0.0096 ppm
Recovery Percentage 1	113.164 %	0.000 %	148.613 %	0.000 %	0.000 %	102.756 %	0.000 %
Concentration RSD	2.2 %	122.6 %	15.1 %	5.6 %	0.6 %	1.1 %	6.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0059 ppm	0.0052 ppm	0.0049 ppm	0.0087 ppm	0.0346 ppm	0.0066 ppm
Concentration per Run 1	0.0052 ppm	0.0060 ppm	0.0054 ppm	0.0049 ppm	0.0088 ppm	0.0390 ppm	0.0081 ppm
Concentration per Run 2	0.0052 ppm	0.0066 ppm	0.0050 ppm	0.0049 ppm	0.0084 ppm	0.0224 ppm	0.0068 ppm
Concentration per Run 3	0.0054 ppm	0.0052 ppm	0.0052 ppm	0.0050 ppm	0.0088 ppm	0.0423 ppm	0.0051 ppm
Recovery Percentage 1	104.833 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.2 %	12.1 %	4.2 %	1.0 %	2.4 %	30.9 %	22.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0072 ppm	0.0048 ppm	0.0050 ppm	0.1098 ppm	0.0056 ppm	0.0044 ppm	0.0050 ppm
Concentration per Run 1	0.0089 ppm	0.0044 ppm	0.0050 ppm	0.1131 ppm	0.0054 ppm	0.0044 ppm	0.0060 ppm
Concentration per Run 2	0.0054 ppm	0.0049 ppm	0.0051 ppm	0.1117 ppm	0.0051 ppm	0.0040 ppm	0.0014 ppm
Concentration per Run 3	0.0074 ppm	0.0051 ppm	0.0048 ppm	0.1046 ppm	0.0064 ppm	0.0047 ppm	0.0076 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	24.5 %	7.1 %	2.8 %	4.2 %	11.9 %	7.2 %	64.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.0539 ppm	0.0048 ppm	0.0052 ppm	0.0053 ppm	0.0054 ppm	0.0045 ppm
Concentration per Run 1	-0.0005 ppm	0.0536 ppm	0.0051 ppm	0.0051 ppm	0.0051 ppm	0.0057 ppm	0.0046 ppm
Concentration per Run 2	0.0023 ppm	0.0541 ppm	0.0040 ppm	0.0051 ppm	0.0054 ppm	0.0069 ppm	0.0045 ppm
Concentration per Run 3	0.0049 ppm	0.0539 ppm	0.0054 ppm	0.0052 ppm	0.0053 ppm	0.0038 ppm	0.0043 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	118.3 %	0.4 %	14.6 %	1.2 %	3.4 %	28.6 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0042 ppm	101.3581 %	100.5122 %	100.4726 %	100.2486 %	100.6077 %	100.1983 %
Concentration per Run 1	0.0044 ppm	100.6633 %	100.5155 %	100.7691 %	99.6695 %	100.6701 %	101.0892 %
Concentration per Run 2	0.0041 ppm	102.0520 %	100.4055 %	100.4707 %	100.9290 %	100.7067 %	99.7564 %
Concentration per Run 3	0.0040 ppm	101.3591 %	100.6157 %	100.1780 %	100.1473 %	100.4465 %	99.7494 %
Recovery Percentage 1	83.966 %						
Concentration RSD	5.3 %	0.7 %	0.1 %	0.3 %	0.6 %	0.1 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450791-02 WG1974842
Analysis started at: 9/24/2024 9:09:21 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0017 ppm	0.0019 ppm	0.0434 ppm	-0.0001 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 1	0.0009 ppm	0.0013 ppm	0.0001 ppm	0.0437 ppm	-0.0003 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	0.0002 ppm	-0.0028 ppm	0.0032 ppm	0.0424 ppm	0.0000 ppm	-0.0001 ppm	0.0035 ppm
Concentration per Run 3	-0.0001 ppm	-0.0036 ppm	0.0023 ppm	0.0442 ppm	-0.0001 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	135.2 %	156.3 %	85.1 %	2.1 %	119.1 %	71.6 %	29.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0048 ppm	3.3058 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0072 ppm	3.3314 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0027 ppm	3.3081 ppm	0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	0.0044 ppm	3.2779 ppm	-0.0012 ppm
Concentration RSD	121.1 %	14.1 %	107.3 %	3,965.7 %	47.2 %	0.8 %	323.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	0.0001 ppm	21.0578 ppm	-0.0001 ppm	0.0007 ppm	-0.0025 ppm
Concentration per Run 1	0.0014 ppm	-0.0001 ppm	0.0003 ppm	21.1317 ppm	-0.0007 ppm	-0.0001 ppm	-0.0032 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0004 ppm	21.0744 ppm	-0.0003 ppm	0.0020 ppm	-0.0025 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	-0.0005 ppm	20.9672 ppm	0.0006 ppm	0.0000 ppm	-0.0020 ppm
Concentration RSD	44.1 %	539.6 %	648.2 %	0.4 %	546.0 %	182.6 %	24.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.1085 ppm	-0.0022 ppm	0.0001 ppm	0.0030 ppm	0.0012 ppm	0.0010 ppm
Concentration per Run 1	-0.0013 ppm	0.1079 ppm	-0.0019 ppm	0.0001 ppm	0.0034 ppm	0.0010 ppm	0.0009 ppm
Concentration per Run 2	0.0017 ppm	0.1097 ppm	-0.0021 ppm	0.0001 ppm	0.0032 ppm	0.0016 ppm	0.0010 ppm
Concentration per Run 3	-0.0048 ppm	0.1080 ppm	-0.0026 ppm	0.0000 ppm	0.0024 ppm	0.0011 ppm	0.0010 ppm
Concentration RSD	225.4 %	0.9 %	16.3 %	64.3 %	16.7 %	25.8 %	6.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0011 ppm	103.7882 %	102.2171 %	102.3132 %	101.6235 %	101.3628 %	102.5228 %
Concentration per Run 1	-0.0011 ppm	102.8343 %	102.1009 %	102.3399 %	100.6933 %	101.2713 %	102.4637 %
Concentration per Run 2	-0.0012 ppm	103.9320 %	101.9434 %	102.0285 %	101.8573 %	100.9693 %	102.6196 %
Concentration per Run 3	-0.0011 ppm	104.5983 %	102.6070 %	102.5711 %	102.3199 %	101.8479 %	102.4851 %
Concentration RSD	5.3 %	0.9 %	0.3 %	0.3 %	0.8 %	0.4 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-03 WG1974842
Analysis started at: 9/24/2024 9:13:16 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.2083 ppm	0.0013 ppm	0.0148 ppm	0.0210 ppm	0.0000 ppm	23.4767 ppm
Concentration per Run 1	0.0000 ppm	0.2235 ppm	0.0011 ppm	0.0160 ppm	0.0211 ppm	0.0000 ppm	23.4124 ppm
Concentration per Run 2	-0.0003 ppm	0.2059 ppm	0.0032 ppm	0.0135 ppm	0.0209 ppm	0.0000 ppm	23.4982 ppm
Concentration per Run 3	0.0001 ppm	0.1955 ppm	-0.0004 ppm	0.0149 ppm	0.0211 ppm	0.0000 ppm	23.5196 ppm
Concentration RSD	234.4 %	6.8 %	137.6 %	8.6 %	0.5 %	149.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0026 ppm	0.3880 ppm	1.4922 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm	0.0027 ppm	0.3853 ppm	1.4971 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0026 ppm	0.3862 ppm	1.5083 ppm	0.0030 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0024 ppm	0.3925 ppm	1.4713 ppm	0.0027 ppm
Concentration RSD	77.4 %	288.8 %	20.7 %	6.2 %	1.0 %	1.3 %	16.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7325 ppm	0.0299 ppm	0.0001 ppm	16.3735 ppm	0.0013 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 1	4.7682 ppm	0.0301 ppm	-0.0001 ppm	16.3277 ppm	0.0017 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 2	4.7311 ppm	0.0298 ppm	0.0005 ppm	16.4027 ppm	-0.0001 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 3	4.6981 ppm	0.0299 ppm	0.0000 ppm	16.3900 ppm	0.0023 ppm	0.0012 ppm	-0.0016 ppm
Concentration RSD	0.7 %	0.5 %	283.0 %	0.2 %	96.0 %	76.0 %	671.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	1.0096 ppm	-0.0024 ppm	0.1263 ppm	0.0039 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 1	-0.0036 ppm	1.0180 ppm	-0.0018 ppm	0.1262 ppm	0.0037 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0015 ppm	1.0066 ppm	-0.0031 ppm	0.1262 ppm	0.0041 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 3	-0.0028 ppm	1.0041 ppm	-0.0024 ppm	0.1266 ppm	0.0038 ppm	0.0012 ppm	0.0007 ppm
Concentration RSD	40.2 %	0.7 %	28.4 %	0.2 %	5.7 %	47.2 %	37.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	102.9276 %	101.5413 %	100.5806 %	102.2659 %	101.0739 %	102.1806 %
Concentration per Run 1	0.0009 ppm	102.3221 %	102.1167 %	100.5014 %	102.2559 %	101.5583 %	102.1739 %
Concentration per Run 2	0.0010 ppm	103.3969 %	100.8226 %	100.8430 %	102.4869 %	100.4238 %	102.4060 %
Concentration per Run 3	0.0008 ppm	103.0637 %	101.6846 %	100.3974 %	102.0548 %	101.2397 %	101.9619 %
Concentration RSD	8.6 %	0.5 %	0.6 %	0.2 %	0.2 %	0.6 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-04 WG1974842
Analysis started at: 9/24/2024 9:17:10 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.4633 ppm	0.0007 ppm	0.0158 ppm	0.0239 ppm	0.0000 ppm	24.5557 ppm
Concentration per Run 1	0.0003 ppm	0.4616 ppm	0.0004 ppm	0.0142 ppm	0.0237 ppm	0.0000 ppm	24.5930 ppm
Concentration per Run 2	0.0003 ppm	0.4707 ppm	0.0023 ppm	0.0164 ppm	0.0239 ppm	0.0000 ppm	24.4527 ppm
Concentration per Run 3	-0.0002 ppm	0.4576 ppm	-0.0006 ppm	0.0168 ppm	0.0240 ppm	0.0000 ppm	24.6214 ppm
Concentration RSD	250.1 %	1.5 %	203.7 %	9.1 %	0.6 %	60.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0029 ppm	0.8459 ppm	1.5595 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0029 ppm	0.8474 ppm	1.5791 ppm	0.0038 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0027 ppm	0.8419 ppm	1.5353 ppm	0.0046 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	0.0009 ppm	0.0031 ppm	0.8483 ppm	1.5641 ppm	0.0031 ppm
Concentration RSD	125.4 %	1,544.4 %	91.2 %	6.4 %	0.4 %	1.4 %	20.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.0795 ppm	0.0540 ppm	0.0003 ppm	17.5057 ppm	0.0015 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	5.0957 ppm	0.0539 ppm	0.0004 ppm	17.5416 ppm	0.0021 ppm	0.0014 ppm	-0.0016 ppm
Concentration per Run 2	5.0639 ppm	0.0538 ppm	0.0004 ppm	17.5222 ppm	0.0012 ppm	0.0014 ppm	-0.0017 ppm
Concentration per Run 3	5.0790 ppm	0.0543 ppm	0.0002 ppm	17.4534 ppm	0.0011 ppm	-0.0005 ppm	0.0026 ppm
Concentration RSD	0.3 %	0.5 %	35.3 %	0.3 %	36.3 %	140.5 %	961.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	1.3053 ppm	-0.0028 ppm	0.1325 ppm	0.0071 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	-0.0006 ppm	1.3046 ppm	-0.0021 ppm	0.1322 ppm	0.0069 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 2	0.0011 ppm	1.3080 ppm	-0.0028 ppm	0.1321 ppm	0.0071 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0028 ppm	1.3033 ppm	-0.0036 ppm	0.1331 ppm	0.0074 ppm	0.0017 ppm	0.0007 ppm
Concentration RSD	151.8 %	0.2 %	26.6 %	0.4 %	3.5 %	230.4 %	7.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	103.4118 %	101.5093 %	103.9466 %	102.7775 %	101.5527 %	104.6276 %
Concentration per Run 1	0.0050 ppm	102.4970 %	102.0947 %	100.0924 %	102.4543 %	102.4048 %	102.1723 %
Concentration per Run 2	0.0047 ppm	104.3117 %	101.4991 %	101.2887 %	103.7316 %	101.1978 %	102.3183 %
Concentration per Run 3	0.0048 ppm	103.4268 %	100.9340 %	110.4588 %	102.1466 %	101.0555 %	109.3923 %
Concentration RSD	2.3 %	0.9 %	0.6 %	5.5 %	0.8 %	0.7 %	3.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-02 WG1974842
Analysis started at: 9/24/2024 9:21:03 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.2219 ppm	0.0028 ppm	0.0158 ppm	0.0208 ppm	0.0000 ppm	23.5196 ppm
Concentration per Run 1	0.0010 ppm	0.2213 ppm	0.0031 ppm	0.0165 ppm	0.0211 ppm	0.0000 ppm	23.4247 ppm
Concentration per Run 2	0.0003 ppm	0.2255 ppm	0.0026 ppm	0.0159 ppm	0.0206 ppm	0.0001 ppm	23.7105 ppm
Concentration per Run 3	0.0004 ppm	0.2188 ppm	0.0027 ppm	0.0151 ppm	0.0206 ppm	0.0000 ppm	23.4236 ppm
Concentration RSD	62.7 %	1.5 %	10.4 %	4.3 %	1.3 %	23.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.4128 ppm	1.4798 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0015 ppm	0.4135 ppm	1.4712 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0016 ppm	0.4071 ppm	1.4976 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0019 ppm	0.4177 ppm	1.4705 ppm	0.0021 ppm
Concentration RSD	170.7 %	320.9 %	106.2 %	10.1 %	1.3 %	1.0 %	34.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7672 ppm	0.0310 ppm	0.0000 ppm	16.3976 ppm	0.0009 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 1	4.7659 ppm	0.0308 ppm	0.0001 ppm	16.3324 ppm	0.0006 ppm	0.0016 ppm	-0.0024 ppm
Concentration per Run 2	4.7591 ppm	0.0312 ppm	-0.0005 ppm	16.4330 ppm	0.0010 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	4.7765 ppm	0.0309 ppm	0.0004 ppm	16.4275 ppm	0.0011 ppm	0.0004 ppm	0.0045 ppm
Concentration RSD	0.2 %	0.6 %	7,831.3 %	0.3 %	25.6 %	248.4 %	363.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	1.0192 ppm	-0.0019 ppm	0.1266 ppm	0.0041 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	-0.0022 ppm	1.0234 ppm	-0.0026 ppm	0.1263 ppm	0.0046 ppm	0.0034 ppm	0.0003 ppm
Concentration per Run 2	-0.0038 ppm	1.0165 ppm	-0.0014 ppm	0.1265 ppm	0.0040 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0005 ppm	1.0176 ppm	-0.0017 ppm	0.1270 ppm	0.0037 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	116.8 %	0.4 %	32.9 %	0.3 %	11.2 %	113.0 %	14.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.1313 %	102.7918 %	100.4921 %	101.4998 %	102.4592 %	102.1516 %
Concentration per Run 1	0.0014 ppm	101.5546 %	103.4921 %	99.5817 %	101.5436 %	103.2509 %	101.4937 %
Concentration per Run 2	0.0011 ppm	102.5430 %	102.0396 %	101.6705 %	102.0090 %	101.7652 %	103.3096 %
Concentration per Run 3	0.0009 ppm	102.2961 %	102.8438 %	100.2242 %	100.9469 %	102.3613 %	101.6516 %
Concentration RSD	24.3 %	0.5 %	0.7 %	1.1 %	0.5 %	0.7 %	1.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-7 WG1974842
Analysis started at: 9/24/2024 9:24:55 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	2.1493 ppm	0.1199 ppm	0.9841 ppm	1.9607 ppm	0.0501 ppm	32.9141 ppm
Concentration per Run 1	0.0510 ppm	2.1536 ppm	0.1203 ppm	0.9930 ppm	1.9607 ppm	0.0500 ppm	32.8310 ppm
Concentration per Run 2	0.0506 ppm	2.1545 ppm	0.1196 ppm	0.9828 ppm	1.9588 ppm	0.0500 ppm	33.0112 ppm
Concentration per Run 3	0.0506 ppm	2.1398 ppm	0.1199 ppm	0.9765 ppm	1.9626 ppm	0.0502 ppm	32.9000 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.8 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0516 ppm	0.4889 ppm	0.1906 ppm	0.2452 ppm	1.3921 ppm	11.5201 ppm	0.0030 ppm
Concentration per Run 1	0.0519 ppm	0.4906 ppm	0.1915 ppm	0.2470 ppm	1.3908 ppm	11.5467 ppm	0.0043 ppm
Concentration per Run 2	0.0513 ppm	0.4880 ppm	0.1909 ppm	0.2447 ppm	1.3870 ppm	11.5050 ppm	0.0029 ppm
Concentration per Run 3	0.0517 ppm	0.4881 ppm	0.1894 ppm	0.2441 ppm	1.3985 ppm	11.5086 ppm	0.0018 ppm
Concentration RSD	0.6 %	0.3 %	0.6 %	0.6 %	0.4 %	0.2 %	42.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.3394 ppm	0.5224 ppm	0.8996 ppm	26.0938 ppm	0.4884 ppm	0.5170 ppm	0.4274 ppm
Concentration per Run 1	14.3817 ppm	0.5240 ppm	0.8947 ppm	25.9741 ppm	0.4925 ppm	0.5170 ppm	0.4243 ppm
Concentration per Run 2	14.3156 ppm	0.5210 ppm	0.8976 ppm	26.1535 ppm	0.4875 ppm	0.5167 ppm	0.4283 ppm
Concentration per Run 3	14.3208 ppm	0.5222 ppm	0.9066 ppm	26.1537 ppm	0.4851 ppm	0.5173 ppm	0.4296 ppm
Concentration RSD	0.3 %	0.3 %	0.7 %	0.4 %	0.8 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1190 ppm	1.6330 ppm	0.8937 ppm	1.0599 ppm	0.9787 ppm	0.1181 ppm	0.4883 ppm
Concentration per Run 1	0.1175 ppm	1.6389 ppm	0.8966 ppm	1.0606 ppm	0.9827 ppm	0.1194 ppm	0.4905 ppm
Concentration per Run 2	0.1185 ppm	1.6257 ppm	0.8905 ppm	1.0566 ppm	0.9781 ppm	0.1160 ppm	0.4874 ppm
Concentration per Run 3	0.1210 ppm	1.6344 ppm	0.8941 ppm	1.0625 ppm	0.9752 ppm	0.1187 ppm	0.4869 ppm
Concentration RSD	1.5 %	0.4 %	0.3 %	0.3 %	0.4 %	1.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4974 ppm	102.7694 %	103.7015 %	100.0542 %	100.5629 %	103.3627 %	100.9392 %
Concentration per Run 1	0.5020 ppm	102.0321 %	104.8597 %	99.3024 %	100.0108 %	103.9379 %	100.4982 %
Concentration per Run 2	0.4959 ppm	103.4532 %	102.6949 %	100.5400 %	101.2385 %	102.6942 %	101.2657 %
Concentration per Run 3	0.4944 ppm	102.8228 %	103.5500 %	100.3203 %	100.4395 %	103.4559 %	101.0537 %
Concentration RSD	0.8 %	0.7 %	1.1 %	0.7 %	0.6 %	0.6 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-8 WG1974842
Analysis started at: 9/24/2024 9:28:48 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2221 ppm	0.0011 ppm	0.0161 ppm	0.0213 ppm	0.0000 ppm	23.7856 ppm
Concentration per Run 1	-0.0002 ppm	0.2203 ppm	0.0002 ppm	0.0181 ppm	0.0214 ppm	-0.0001 ppm	23.8321 ppm
Concentration per Run 2	0.0008 ppm	0.2200 ppm	0.0004 ppm	0.0166 ppm	0.0212 ppm	0.0001 ppm	23.8488 ppm
Concentration per Run 3	-0.0003 ppm	0.2260 ppm	0.0028 ppm	0.0136 ppm	0.0214 ppm	0.0001 ppm	23.6760 ppm
Concentration RSD	648.4 %	1.5 %	124.1 %	14.0 %	0.7 %	352.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.4129 ppm	1.4976 ppm	0.0027 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0022 ppm	0.4146 ppm	1.5230 ppm	0.0034 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0019 ppm	0.4118 ppm	1.4933 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm	0.0026 ppm	0.4124 ppm	1.4763 ppm	0.0026 ppm
Concentration RSD	1,860.2 %	361.0 %	65.6 %	14.1 %	0.4 %	1.6 %	25.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8174 ppm	0.0313 ppm	0.0038 ppm	16.5865 ppm	0.0007 ppm	-0.0005 ppm	0.0046 ppm
Concentration per Run 1	4.8363 ppm	0.0310 ppm	0.0044 ppm	16.6096 ppm	0.0005 ppm	-0.0016 ppm	0.0064 ppm
Concentration per Run 2	4.8099 ppm	0.0315 ppm	0.0036 ppm	16.6031 ppm	0.0012 ppm	0.0004 ppm	0.0042 ppm
Concentration per Run 3	4.8059 ppm	0.0313 ppm	0.0035 ppm	16.5466 ppm	0.0004 ppm	-0.0004 ppm	0.0031 ppm
Concentration RSD	0.3 %	0.7 %	12.6 %	0.2 %	59.9 %	194.5 %	36.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	1.0255 ppm	0.0048 ppm	0.1278 ppm	0.0040 ppm	0.0010 ppm	0.0007 ppm
Concentration per Run 1	-0.0016 ppm	1.0303 ppm	0.0049 ppm	0.1276 ppm	0.0039 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 2	-0.0035 ppm	1.0249 ppm	0.0055 ppm	0.1275 ppm	0.0038 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 3	-0.0010 ppm	1.0213 ppm	0.0039 ppm	0.1281 ppm	0.0043 ppm	0.0015 ppm	0.0006 ppm
Concentration RSD	65.0 %	0.4 %	17.2 %	0.2 %	6.5 %	40.9 %	17.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	102.3575 %	102.0159 %	101.0804 %	101.6140 %	101.6127 %	102.4678 %
Concentration per Run 1	0.0013 ppm	102.2384 %	102.0871 %	100.8439 %	101.7950 %	102.2924 %	102.2241 %
Concentration per Run 2	0.0011 ppm	102.9405 %	102.8326 %	100.8672 %	102.0745 %	102.2613 %	102.0892 %
Concentration per Run 3	0.0014 ppm	101.8935 %	101.1280 %	101.5301 %	100.9724 %	100.2844 %	103.0901 %
Concentration RSD	12.0 %	0.5 %	0.8 %	0.4 %	0.6 %	1.1 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-9 WG1974842
Analysis started at: 9/24/2024 9:32:41 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	2.2516 ppm	0.1245 ppm	1.0586 ppm	2.0600 ppm	0.0525 ppm	33.7341 ppm
Concentration per Run 1	0.0502 ppm	2.2582 ppm	0.1253 ppm	1.0595 ppm	2.0510 ppm	0.0522 ppm	33.6292 ppm
Concentration per Run 2	0.0508 ppm	2.2454 ppm	0.1225 ppm	1.0625 ppm	2.0582 ppm	0.0524 ppm	33.7052 ppm
Concentration per Run 3	0.0492 ppm	2.2513 ppm	0.1258 ppm	1.0540 ppm	2.0709 ppm	0.0529 ppm	33.8681 ppm
Concentration RSD	1.6 %	0.3 %	1.5 %	0.4 %	0.5 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0535 ppm	0.5075 ppm	0.1991 ppm	0.2566 ppm	1.4491 ppm	12.3998 ppm	0.0033 ppm
Concentration per Run 1	0.0535 ppm	0.5099 ppm	0.1998 ppm	0.2569 ppm	1.4362 ppm	12.3733 ppm	0.0028 ppm
Concentration per Run 2	0.0538 ppm	0.5079 ppm	0.2001 ppm	0.2575 ppm	1.4560 ppm	12.3840 ppm	0.0041 ppm
Concentration per Run 3	0.0530 ppm	0.5048 ppm	0.1975 ppm	0.2554 ppm	1.4550 ppm	12.4421 ppm	0.0030 ppm
Concentration RSD	0.8 %	0.5 %	0.7 %	0.4 %	0.8 %	0.3 %	21.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0715 ppm	0.5452 ppm	0.9693 ppm	27.0668 ppm	0.5075 ppm	0.5410 ppm	0.3646 ppm
Concentration per Run 1	15.0895 ppm	0.5430 ppm	0.9536 ppm	27.0249 ppm	0.5083 ppm	0.5436 ppm	0.3405 ppm
Concentration per Run 2	15.1255 ppm	0.5459 ppm	0.9722 ppm	27.0475 ppm	0.5066 ppm	0.5395 ppm	0.3750 ppm
Concentration per Run 3	14.9995 ppm	0.5467 ppm	0.9820 ppm	27.1280 ppm	0.5075 ppm	0.5398 ppm	0.3783 ppm
Concentration RSD	0.4 %	0.4 %	1.5 %	0.2 %	0.2 %	0.4 %	5.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1229 ppm	2.1057 ppm	0.9958 ppm	1.1375 ppm	1.0641 ppm	0.1238 ppm	0.5101 ppm
Concentration per Run 1	0.1232 ppm	2.1063 ppm	0.9933 ppm	1.1322 ppm	1.0697 ppm	0.1237 ppm	0.5117 ppm
Concentration per Run 2	0.1215 ppm	2.1133 ppm	0.9963 ppm	1.1369 ppm	1.0644 ppm	0.1261 ppm	0.5100 ppm
Concentration per Run 3	0.1240 ppm	2.0976 ppm	0.9978 ppm	1.1434 ppm	1.0582 ppm	0.1217 ppm	0.5086 ppm
Concentration RSD	1.1 %	0.4 %	0.2 %	0.5 %	0.5 %	1.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5177 ppm	103.7330 %	103.0618 %	100.7353 %	101.5389 %	102.2254 %	102.0043 %
Concentration per Run 1	0.5196 ppm	103.5940 %	103.0152 %	100.9457 %	101.7796 %	102.3651 %	102.3495 %
Concentration per Run 2	0.5156 ppm	103.8473 %	103.4687 %	100.5685 %	101.5244 %	102.4636 %	101.8772 %
Concentration per Run 3	0.5179 ppm	103.7577 %	102.7016 %	100.6916 %	101.3128 %	101.8474 %	101.7863 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.2 %	0.2 %	0.3 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-10D5 WG1974842
Analysis started at: 9/24/2024 9:36:35 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0436 ppm	0.0012 ppm	0.0034 ppm	0.0042 ppm	0.0000 ppm	4.7102 ppm
Concentration per Run 1	0.0001 ppm	0.0374 ppm	0.0006 ppm	0.0030 ppm	0.0042 ppm	-0.0001 ppm	4.6852 ppm
Concentration per Run 2	0.0000 ppm	0.0502 ppm	0.0027 ppm	0.0048 ppm	0.0041 ppm	0.0000 ppm	4.7178 ppm
Concentration per Run 3	0.0006 ppm	0.0433 ppm	0.0004 ppm	0.0024 ppm	0.0043 ppm	0.0000 ppm	4.7276 ppm
Concentration RSD	148.6 %	14.7 %	103.1 %	36.2 %	2.5 %	44.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0874 ppm	0.2993 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0887 ppm	0.2914 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	0.0000 ppm	-0.0001 ppm	0.0869 ppm	0.2950 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0866 ppm	0.3114 ppm	-0.0014 ppm
Concentration RSD	317.2 %	99.2 %	100.6 %	570.0 %	1.3 %	3.6 %	282.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9495 ppm	0.0063 ppm	0.0048 ppm	3.3068 ppm	0.0005 ppm	-0.0002 ppm	0.0111 ppm
Concentration per Run 1	0.9564 ppm	0.0065 ppm	0.0050 ppm	3.2953 ppm	0.0009 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 2	0.9517 ppm	0.0062 ppm	0.0046 ppm	3.3155 ppm	-0.0002 ppm	0.0001 ppm	0.0101 ppm
Concentration per Run 3	0.9405 ppm	0.0063 ppm	0.0046 ppm	3.3095 ppm	0.0008 ppm	-0.0009 ppm	0.0142 ppm
Concentration RSD	0.9 %	2.6 %	5.1 %	0.3 %	121.8 %	276.5 %	24.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.2003 ppm	0.0154 ppm	0.0255 ppm	0.0013 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.2046 ppm	0.0151 ppm	0.0255 ppm	0.0011 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.1989 ppm	0.0166 ppm	0.0255 ppm	0.0016 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	0.1974 ppm	0.0144 ppm	0.0254 ppm	0.0011 ppm	0.0005 ppm	0.0001 ppm
Concentration RSD	182.0 %	1.9 %	7.4 %	0.2 %	22.1 %	137.0 %	738.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	104.3304 %	103.2650 %	103.5554 %	102.2933 %	102.5403 %	103.3624 %
Concentration per Run 1	-0.0003 ppm	103.7095 %	103.4456 %	104.6335 %	101.7001 %	102.7276 %	104.6020 %
Concentration per Run 2	-0.0008 ppm	104.4059 %	102.8973 %	102.8910 %	102.3847 %	102.0932 %	102.3341 %
Concentration per Run 3	-0.0005 ppm	104.8760 %	103.4520 %	103.1416 %	102.7951 %	102.8000 %	103.1512 %
Concentration RSD	50.0 %	0.6 %	0.3 %	0.9 %	0.5 %	0.4 %	1.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 9:40:28 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5006 ppm	0.4746 ppm	0.4790 ppm	0.4876 ppm	0.4884 ppm	0.5002 ppm	0.4790 ppm
Concentration per Run 1	0.5017 ppm	0.4722 ppm	0.4804 ppm	0.4913 ppm	0.4915 ppm	0.5030 ppm	0.4784 ppm
Concentration per Run 2	0.5003 ppm	0.4784 ppm	0.4762 ppm	0.4853 ppm	0.4856 ppm	0.5001 ppm	0.4754 ppm
Concentration per Run 3	0.4999 ppm	0.4731 ppm	0.4804 ppm	0.4863 ppm	0.4882 ppm	0.4975 ppm	0.4834 ppm
Recovery Percentage 1	100.128 %	94.917 %	95.798 %	97.529 %	97.688 %	100.039 %	95.810 %
Concentration RSD	0.2 %	0.7 %	0.5 %	0.7 %	0.6 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4869 ppm	0.5009 ppm	0.4795 ppm	0.4850 ppm	0.4969 ppm	5.0724 ppm	0.4878 ppm
Concentration per Run 1	0.4911 ppm	0.5028 ppm	0.4830 ppm	0.4861 ppm	0.4999 ppm	5.0923 ppm	0.4901 ppm
Concentration per Run 2	0.4819 ppm	0.4998 ppm	0.4757 ppm	0.4872 ppm	0.4939 ppm	5.0630 ppm	0.4837 ppm
Concentration per Run 3	0.4878 ppm	0.5001 ppm	0.4796 ppm	0.4818 ppm	0.4970 ppm	5.0620 ppm	0.4898 ppm
Recovery Percentage 1	97.387 %	100.185 %	95.891 %	97.004 %	99.387 %	101.448 %	97.570 %
Concentration RSD	1.0 %	0.3 %	0.8 %	0.6 %	0.6 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4790 ppm	0.4806 ppm	0.4856 ppm	9.7512 ppm	0.4994 ppm	0.4905 ppm	0.5018 ppm
Concentration per Run 1	0.4799 ppm	0.4803 ppm	0.4828 ppm	9.7754 ppm	0.5041 ppm	0.4907 ppm	0.5069 ppm
Concentration per Run 2	0.4781 ppm	0.4795 ppm	0.4848 ppm	9.7338 ppm	0.4952 ppm	0.4922 ppm	0.4987 ppm
Concentration per Run 3	0.4789 ppm	0.4818 ppm	0.4892 ppm	9.7445 ppm	0.4990 ppm	0.4886 ppm	0.4998 ppm
Recovery Percentage 1	95.792 %	96.114 %	97.121 %	97.512 %	99.884 %	98.102 %	100.358 %
Concentration RSD	0.2 %	0.2 %	0.7 %	0.2 %	0.9 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4895 ppm	5.2087 ppm	0.4799 ppm	0.4677 ppm	0.4896 ppm	0.4947 ppm	0.4777 ppm
Concentration per Run 1	0.4888 ppm	5.2015 ppm	0.4805 ppm	0.4705 ppm	0.4914 ppm	0.4935 ppm	0.4785 ppm
Concentration per Run 2	0.4866 ppm	5.2109 ppm	0.4782 ppm	0.4649 ppm	0.4878 ppm	0.4956 ppm	0.4775 ppm
Concentration per Run 3	0.4930 ppm	5.2137 ppm	0.4809 ppm	0.4676 ppm	0.4897 ppm	0.4951 ppm	0.4770 ppm
Recovery Percentage 1	97.893 %	99.214 %	95.976 %	93.532 %	97.922 %	98.943 %	95.537 %
Concentration RSD	0.7 %	0.1 %	0.3 %	0.6 %	0.4 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4979 ppm	104.6509 %	103.9226 %	103.0734 %	102.1303 %	102.9189 %	102.9610 %
Concentration per Run 1	0.4999 ppm	103.9333 %	102.9224 %	103.3534 %	101.5799 %	102.3037 %	103.2915 %
Concentration per Run 2	0.4951 ppm	105.6324 %	104.5573 %	103.0771 %	103.1697 %	102.9493 %	103.0412 %
Concentration per Run 3	0.4988 ppm	104.3868 %	104.2879 %	102.7896 %	101.6414 %	103.5036 %	102.5503 %
Recovery Percentage 1	99.583 %						
Concentration RSD	0.5 %	0.8 %	0.8 %	0.3 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 9:44:22 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	-0.0002 ppm	0.0030 ppm	0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	0.0004 ppm	-0.0115 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0006 ppm	0.0091 ppm	0.0036 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	-2.120 %	0.184 %	26.703 %	4.640 %	-1.422 %	0.477 %	-1.943 %
Concentration RSD	346.5 %	5,767.7 %	149.8 %	67.7 %	104.7 %	123.3 %	56.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0029 ppm	-0.0015 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0035 ppm	0.0056 ppm	0.0008 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0005 ppm	0.0036 ppm	-0.0193 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0004 ppm	-0.0005 ppm	0.0015 ppm	0.0093 ppm	0.0004 ppm
Recovery Percentage 1	3.771 %	-0.994 %	-1.053 %	-4.673 %	5.732 %	-0.058 %	11.462 %
Concentration RSD	41.1 %	231.3 %	296.5 %	20.4 %	41.2 %	1,064.4 %	29.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0001 ppm	0.0014 ppm	-0.0014 ppm	0.0008 ppm	-0.0013 ppm	0.0047 ppm
Concentration per Run 1	-0.0027 ppm	-0.0001 ppm	0.0014 ppm	-0.0007 ppm	0.0008 ppm	-0.0014 ppm	0.0064 ppm
Concentration per Run 2	-0.0014 ppm	-0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0010 ppm	-0.0017 ppm	0.0058 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0017 ppm	-0.0032 ppm	0.0006 ppm	-0.0009 ppm	0.0020 ppm
Recovery Percentage 1	-1.454 %	-0.744 %	2.809 %	-0.070 %	3.246 %	-13.144 %	9.448 %
Concentration RSD	83.5 %	82.5 %	21.1 %	108.9 %	21.8 %	31.5 %	49.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	-0.0040 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0048 ppm	0.0007 ppm	0.0001 ppm	0.0007 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	-0.0048 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0040 ppm	-0.0025 ppm	0.0012 ppm	0.0000 ppm	0.0006 ppm	0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	-20.087 %	-0.809 %	1.596 %	0.527 %	5.290 %	1.256 %	-1.402 %
Concentration RSD	114.6 %	32.5 %	42.7 %	89.0 %	45.3 %	270.6 %	97.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	103.7284 %	102.4242 %	102.5526 %	102.8668 %	102.4391 %	103.2696 %
Concentration per Run 1	-0.0010 ppm	103.9195 %	102.3169 %	102.2685 %	103.1779 %	102.2306 %	103.1126 %
Concentration per Run 2	-0.0017 ppm	103.5665 %	103.0761 %	102.5616 %	102.6972 %	102.9300 %	103.0868 %
Concentration per Run 3	-0.0016 ppm	103.6994 %	101.8796 %	102.8276 %	102.7252 %	102.1566 %	103.6095 %
Recovery Percentage 1	-29.041 %						
Concentration RSD	24.2 %	0.2 %	0.6 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 750 Ca pass
Analysis started at: 9/24/2024 10:00:44 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0018 ppm	0.0028 ppm	0.0027 ppm	0.0005 ppm	0.0001 ppm	673.7310 ppm
Concentration per Run 1	0.0000 ppm	-0.0092 ppm	0.0030 ppm	0.0031 ppm	0.0004 ppm	0.0001 ppm	673.1937 ppm
Concentration per Run 2	-0.0001 ppm	0.0087 ppm	-0.0005 ppm	0.0028 ppm	0.0006 ppm	0.0000 ppm	672.1933 ppm
Concentration per Run 3	-0.0001 ppm	0.0058 ppm	0.0060 ppm	0.0022 ppm	0.0005 ppm	0.0001 ppm	675.8061 ppm
Concentration RSD	126.0 %	540.6 %	115.4 %	16.9 %	22.4 %	48.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0036 ppm	0.0116 ppm	-0.0021 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm	0.0038 ppm	0.0298 ppm	-0.0011 ppm
Concentration per Run 2	-0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm	0.0055 ppm	0.0107 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0015 ppm	-0.0057 ppm	-0.0032 ppm
Concentration RSD	59.5 %	207.0 %	78.8 %	3.4 %	55.9 %	152.8 %	46.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0043 ppm	0.0003 ppm	0.0010 ppm	0.0134 ppm	0.0005 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 1	0.0040 ppm	0.0002 ppm	0.0009 ppm	0.0174 ppm	0.0016 ppm	-0.0001 ppm	0.0033 ppm
Concentration per Run 2	0.0062 ppm	0.0003 ppm	0.0010 ppm	0.0113 ppm	0.0000 ppm	0.0006 ppm	0.0035 ppm
Concentration per Run 3	0.0027 ppm	0.0003 ppm	0.0012 ppm	0.0115 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	40.1 %	25.6 %	15.9 %	25.9 %	213.9 %	158.4 %	87.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	0.0058 ppm	-0.0005 ppm	-0.0010 ppm	0.0014 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0043 ppm	0.0071 ppm	-0.0006 ppm	-0.0009 ppm	0.0012 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	0.0076 ppm	-0.0001 ppm	-0.0011 ppm	0.0014 ppm	-0.0025 ppm	0.0004 ppm
Concentration per Run 3	-0.0037 ppm	0.0026 ppm	-0.0007 ppm	-0.0011 ppm	0.0015 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	62.9 %	47.2 %	65.3 %	15.0 %	11.9 %	634.1 %	112.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	95.2932 %	103.3665 %	86.2238 %	92.8446 %	102.6305 %	93.3435 %
Concentration per Run 1	0.0008 ppm	95.2366 %	102.9827 %	86.4254 %	92.6423 %	102.4096 %	93.1911 %
Concentration per Run 2	0.0007 ppm	95.5567 %	104.7380 %	85.8221 %	93.2525 %	103.9098 %	93.1181 %
Concentration per Run 3	0.0006 ppm	95.0864 %	102.3787 %	86.4240 %	92.6391 %	101.5720 %	93.7214 %
Concentration RSD	14.9 %	0.3 %	1.2 %	0.4 %	0.4 %	1.2 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ 0.005ppm As waters
Analysis started at: 9/24/2024 10:04:53 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0060 ppm	0.0112 ppm	0.0060 ppm	0.0048 ppm	0.0050 ppm	0.0052 ppm	0.0231 ppm
Concentration per Run 1	0.0060 ppm	0.0114 ppm	0.0070 ppm	0.0043 ppm	0.0049 ppm	0.0052 ppm	0.0292 ppm
Concentration per Run 2	0.0063 ppm	0.0179 ppm	0.0063 ppm	0.0052 ppm	0.0050 ppm	0.0052 ppm	0.0184 ppm
Concentration per Run 3	0.0057 ppm	0.0041 ppm	0.0046 ppm	0.0050 ppm	0.0050 ppm	0.0052 ppm	0.0218 ppm
Recovery Percentage 1	119.647 %	0.000 %	119.172 %	0.000 %	0.000 %	103.765 %	0.000 %
Concentration RSD	5.2 %	61.8 %	21.0 %	9.6 %	1.3 %	0.5 %	24.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	0.0052 ppm	0.0049 ppm	0.0050 ppm	0.0095 ppm	0.0640 ppm	0.0062 ppm
Concentration per Run 1	0.0052 ppm	0.0057 ppm	0.0052 ppm	0.0053 ppm	0.0100 ppm	0.0727 ppm	0.0063 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0045 ppm	0.0054 ppm	0.0079 ppm	0.0545 ppm	0.0068 ppm
Concentration per Run 3	0.0050 ppm	0.0050 ppm	0.0050 ppm	0.0042 ppm	0.0104 ppm	0.0649 ppm	0.0057 ppm
Recovery Percentage 1	102.061 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.5 %	7.1 %	7.6 %	13.0 %	14.1 %	14.3 %	8.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0055 ppm	0.0051 ppm	0.0049 ppm	0.1044 ppm	0.0060 ppm	0.0049 ppm	0.0050 ppm
Concentration per Run 1	0.0076 ppm	0.0048 ppm	0.0046 ppm	0.1078 ppm	0.0061 ppm	0.0047 ppm	0.0081 ppm
Concentration per Run 2	0.0065 ppm	0.0052 ppm	0.0047 ppm	0.0973 ppm	0.0058 ppm	0.0054 ppm	0.0030 ppm
Concentration per Run 3	0.0025 ppm	0.0052 ppm	0.0054 ppm	0.1081 ppm	0.0060 ppm	0.0045 ppm	0.0037 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	48.4 %	4.2 %	7.9 %	5.9 %	2.3 %	9.8 %	55.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	0.0529 ppm	0.0041 ppm	0.0052 ppm	0.0054 ppm	0.0058 ppm	0.0046 ppm
Concentration per Run 1	0.0066 ppm	0.0505 ppm	0.0034 ppm	0.0053 ppm	0.0054 ppm	0.0050 ppm	0.0048 ppm
Concentration per Run 2	0.0052 ppm	0.0539 ppm	0.0038 ppm	0.0050 ppm	0.0056 ppm	0.0064 ppm	0.0046 ppm
Concentration per Run 3	0.0039 ppm	0.0541 ppm	0.0052 ppm	0.0052 ppm	0.0053 ppm	0.0061 ppm	0.0046 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	25.8 %	3.8 %	23.7 %	3.6 %	3.0 %	13.3 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0040 ppm	104.6553 %	103.0442 %	104.0474 %	103.6708 %	103.2217 %	104.0876 %
Concentration per Run 1	0.0041 ppm	104.6164 %	102.5643 %	104.4151 %	103.6041 %	102.9384 %	104.6109 %
Concentration per Run 2	0.0039 ppm	104.6853 %	103.6649 %	103.2643 %	103.5647 %	104.1300 %	103.4330 %
Concentration per Run 3	0.0040 ppm	104.6641 %	102.9034 %	104.4629 %	103.8436 %	102.5967 %	104.2189 %
Recovery Percentage 1	80.154 %						
Concentration RSD	2.5 %	0.0 %	0.5 %	0.7 %	0.1 %	0.8 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-05 WG1974842
Analysis started at: 9/24/2024 10:08:48 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.2260 ppm	0.0011 ppm	0.0153 ppm	0.0211 ppm	0.0000 ppm	23.3813 ppm
Concentration per Run 1	0.0002 ppm	0.2363 ppm	-0.0006 ppm	0.0174 ppm	0.0210 ppm	0.0000 ppm	23.3980 ppm
Concentration per Run 2	0.0002 ppm	0.2291 ppm	0.0026 ppm	0.0156 ppm	0.0211 ppm	0.0000 ppm	23.3984 ppm
Concentration per Run 3	0.0007 ppm	0.2126 ppm	0.0014 ppm	0.0130 ppm	0.0213 ppm	0.0000 ppm	23.3474 ppm
Concentration RSD	77.6 %	5.4 %	139.0 %	14.6 %	0.6 %	956.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0021 ppm	0.4237 ppm	1.4876 ppm	0.0021 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.4208 ppm	1.5007 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0020 ppm	0.4256 ppm	1.4955 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm	0.0020 ppm	0.4248 ppm	1.4667 ppm	0.0004 ppm
Concentration RSD	109.3 %	76.3 %	727.9 %	8.4 %	0.6 %	1.2 %	72.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7910 ppm	0.0318 ppm	-0.0002 ppm	16.4887 ppm	0.0013 ppm	0.0010 ppm	-0.0011 ppm
Concentration per Run 1	4.8092 ppm	0.0320 ppm	-0.0001 ppm	16.5244 ppm	0.0018 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 2	4.7708 ppm	0.0318 ppm	-0.0004 ppm	16.5364 ppm	0.0004 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	4.7930 ppm	0.0318 ppm	-0.0001 ppm	16.4052 ppm	0.0015 ppm	0.0020 ppm	-0.0050 ppm
Concentration RSD	0.4 %	0.4 %	91.0 %	0.4 %	60.4 %	84.0 %	321.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	1.0082 ppm	-0.0021 ppm	0.1268 ppm	0.0043 ppm	0.0021 ppm	0.0004 ppm
Concentration per Run 1	-0.0021 ppm	1.0090 ppm	-0.0024 ppm	0.1265 ppm	0.0039 ppm	0.0024 ppm	0.0004 ppm
Concentration per Run 2	-0.0045 ppm	1.0060 ppm	-0.0026 ppm	0.1263 ppm	0.0045 ppm	0.0030 ppm	0.0007 ppm
Concentration per Run 3	-0.0008 ppm	1.0095 ppm	-0.0014 ppm	0.1274 ppm	0.0045 ppm	0.0011 ppm	0.0002 ppm
Concentration RSD	76.8 %	0.2 %	28.6 %	0.5 %	7.4 %	45.9 %	48.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0034 ppm	102.2672 %	101.8962 %	101.1171 %	101.4266 %	101.0586 %	102.6642 %
Concentration per Run 1	0.0036 ppm	102.3160 %	102.6663 %	101.0382 %	102.0239 %	102.5941 %	102.6065 %
Concentration per Run 2	0.0034 ppm	102.9839 %	101.7975 %	101.8080 %	102.1036 %	101.1101 %	103.6109 %
Concentration per Run 3	0.0034 ppm	101.5015 %	101.2249 %	100.5050 %	100.1524 %	99.4716 %	101.7751 %
Concentration RSD	3.9 %	0.7 %	0.7 %	0.6 %	1.1 %	1.5 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-06 WG1974842
Analysis started at: 9/24/2024 10:12:41 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1571 ppm	0.0006 ppm	0.0141 ppm	0.0208 ppm	0.0000 ppm	23.8653 ppm
Concentration per Run 1	0.0007 ppm	0.1568 ppm	-0.0023 ppm	0.0140 ppm	0.0209 ppm	0.0000 ppm	23.6643 ppm
Concentration per Run 2	-0.0002 ppm	0.1598 ppm	0.0016 ppm	0.0141 ppm	0.0207 ppm	0.0000 ppm	23.8649 ppm
Concentration per Run 3	0.0001 ppm	0.1548 ppm	0.0025 ppm	0.0140 ppm	0.0209 ppm	0.0000 ppm	24.0667 ppm
Concentration RSD	241.7 %	1.6 %	428.5 %	0.5 %	0.6 %	2,243.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0018 ppm	0.2798 ppm	1.5028 ppm	0.0034 ppm
Concentration per Run 1	-0.0002 ppm	-0.0008 ppm	-0.0002 ppm	0.0018 ppm	0.2794 ppm	1.4906 ppm	0.0044 ppm
Concentration per Run 2	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm	0.0021 ppm	0.2814 ppm	1.5186 ppm	0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0017 ppm	0.2786 ppm	1.4994 ppm	0.0024 ppm
Concentration RSD	89.2 %	176.9 %	328.6 %	11.9 %	0.5 %	1.0 %	30.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8220 ppm	0.0240 ppm	0.0000 ppm	16.8854 ppm	0.0003 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 1	4.8562 ppm	0.0240 ppm	0.0000 ppm	16.7447 ppm	0.0006 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 2	4.8188 ppm	0.0241 ppm	-0.0006 ppm	16.9657 ppm	-0.0007 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 3	4.7909 ppm	0.0239 ppm	0.0007 ppm	16.9459 ppm	0.0011 ppm	0.0012 ppm	-0.0035 ppm
Concentration RSD	0.7 %	0.4 %	2,272.4 %	0.7 %	284.2 %	280.2 %	135.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.9247 ppm	-0.0025 ppm	0.1287 ppm	0.0028 ppm	0.0019 ppm	0.0005 ppm
Concentration per Run 1	0.0036 ppm	0.9333 ppm	-0.0009 ppm	0.1280 ppm	0.0032 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0012 ppm	0.9281 ppm	-0.0033 ppm	0.1293 ppm	0.0028 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 3	-0.0029 ppm	0.9127 ppm	-0.0031 ppm	0.1288 ppm	0.0024 ppm	0.0036 ppm	0.0007 ppm
Concentration RSD	526.6 %	1.2 %	53.2 %	0.5 %	14.7 %	91.6 %	38.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	102.5574 %	102.0768 %	100.7291 %	101.6570 %	101.9328 %	101.9954 %
Concentration per Run 1	0.0013 ppm	101.3258 %	103.8039 %	100.9446 %	100.8661 %	103.3639 %	102.2372 %
Concentration per Run 2	0.0011 ppm	103.1337 %	101.6462 %	100.6954 %	102.3057 %	101.9426 %	101.6623 %
Concentration per Run 3	0.0012 ppm	103.2128 %	100.7802 %	100.5473 %	101.7993 %	100.4918 %	102.0866 %
Concentration RSD	9.6 %	1.0 %	1.5 %	0.2 %	0.7 %	1.4 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-07 WG1974842
Analysis started at: 9/24/2024 10:16:33 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0075 ppm	0.0013 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0511 ppm
Concentration per Run 1	0.0001 ppm	0.0040 ppm	-0.0023 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0526 ppm
Concentration per Run 2	0.0006 ppm	0.0068 ppm	0.0014 ppm	0.0025 ppm	0.0001 ppm	0.0000 ppm	0.0511 ppm
Concentration per Run 3	0.0003 ppm	0.0116 ppm	0.0050 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0495 ppm
Concentration RSD	85.3 %	51.1 %	271.9 %	161.2 %	268.8 %	244.5 %	3.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0002 ppm	0.0030 ppm	-0.0183 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	-0.0007 ppm	0.0020 ppm	0.0014 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0026 ppm	-0.0257 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm	-0.0305 ppm	0.0012 ppm
Concentration RSD	278.8 %	64.1 %	112.6 %	187.5 %	38.6 %	94.1 %	85.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0092 ppm	0.0000 ppm	0.0000 ppm	0.0617 ppm	0.0004 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.0072 ppm	0.0001 ppm	-0.0001 ppm	0.0608 ppm	-0.0008 ppm	0.0004 ppm	0.0041 ppm
Concentration per Run 2	0.0115 ppm	0.0001 ppm	0.0000 ppm	0.0637 ppm	0.0007 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 3	0.0089 ppm	-0.0001 ppm	0.0000 ppm	0.0606 ppm	0.0012 ppm	-0.0009 ppm	0.0019 ppm
Concentration RSD	23.2 %	744.5 %	231.0 %	2.8 %	276.9 %	904.4 %	133.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0031 ppm	-0.0028 ppm	0.0005 ppm	0.0005 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	-0.0055 ppm	0.0053 ppm	-0.0022 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0026 ppm	0.0049 ppm	-0.0027 ppm	0.0007 ppm	0.0005 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	-0.0013 ppm	-0.0008 ppm	-0.0035 ppm	0.0005 ppm	0.0004 ppm	0.0008 ppm	-0.0006 ppm
Concentration RSD	283.5 %	109.9 %	23.2 %	20.7 %	27.7 %	90.4 %	86.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	102.9753 %	101.7967 %	103.5266 %	102.8999 %	101.8811 %	103.9113 %
Concentration per Run 1	-0.0004 ppm	101.6224 %	102.4344 %	103.5004 %	102.2613 %	102.7678 %	104.3621 %
Concentration per Run 2	-0.0006 ppm	104.1099 %	101.4017 %	102.4988 %	103.8185 %	101.2613 %	102.6993 %
Concentration per Run 3	-0.0007 ppm	103.1937 %	101.5540 %	104.5807 %	102.6200 %	101.6140 %	104.6724 %
Concentration RSD	21.2 %	1.2 %	0.5 %	1.0 %	0.8 %	0.8 %	1.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453276-01 WG1974865
Analysis started at: 9/24/2024 10:20:26 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0015 ppm	0.0005 ppm	0.2684 ppm	0.0728 ppm	0.0000 ppm	93.6335 ppm
Concentration per Run 1	-0.0002 ppm	0.0093 ppm	0.0003 ppm	0.2722 ppm	0.0727 ppm	0.0000 ppm	93.5930 ppm
Concentration per Run 2	0.0001 ppm	-0.0025 ppm	-0.0007 ppm	0.2672 ppm	0.0729 ppm	0.0001 ppm	93.9463 ppm
Concentration per Run 3	-0.0004 ppm	-0.0023 ppm	0.0019 ppm	0.2658 ppm	0.0728 ppm	0.0000 ppm	93.3612 ppm
Concentration RSD	153.4 %	447.9 %	264.7 %	1.3 %	0.1 %	67.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0278 ppm	0.0057 ppm	1.0020 ppm	0.0122 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	-0.0010 ppm	0.0279 ppm	0.0053 ppm	1.0429 ppm	0.0130 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	-0.0009 ppm	0.0278 ppm	0.0051 ppm	0.9812 ppm	0.0129 ppm
Concentration per Run 3	-0.0002 ppm	-0.0011 ppm	-0.0006 ppm	0.0276 ppm	0.0068 ppm	0.9820 ppm	0.0106 ppm
Concentration RSD	62.5 %	52.3 %	28.4 %	0.6 %	16.0 %	3.5 %	10.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.3196 ppm	0.0002 ppm	-0.0001 ppm	21.3404 ppm	0.0000 ppm	0.0019 ppm	0.0014 ppm
Concentration per Run 1	32.4344 ppm	0.0001 ppm	0.0003 ppm	21.3014 ppm	0.0001 ppm	0.0015 ppm	-0.0023 ppm
Concentration per Run 2	32.1290 ppm	0.0003 ppm	-0.0003 ppm	21.4303 ppm	0.0002 ppm	0.0011 ppm	0.0025 ppm
Concentration per Run 3	32.3956 ppm	0.0001 ppm	-0.0002 ppm	21.2894 ppm	-0.0003 ppm	0.0031 ppm	0.0040 ppm
Concentration RSD	0.5 %	76.0 %	349.3 %	0.4 %	1,248.5 %	57.1 %	239.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	10.2177 ppm	-0.0030 ppm	0.3122 ppm	0.0003 ppm	0.0011 ppm	0.0020 ppm
Concentration per Run 1	-0.0017 ppm	10.2536 ppm	-0.0038 ppm	0.3126 ppm	0.0003 ppm	0.0014 ppm	0.0021 ppm
Concentration per Run 2	-0.0029 ppm	10.1643 ppm	-0.0033 ppm	0.3118 ppm	0.0005 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 3	-0.0040 ppm	10.2353 ppm	-0.0019 ppm	0.3123 ppm	0.0001 ppm	0.0018 ppm	0.0019 ppm
Concentration RSD	41.1 %	0.5 %	31.4 %	0.1 %	56.8 %	69.1 %	5.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0355 ppm	100.9121 %	101.9776 %	96.1802 %	98.9997 %	101.4960 %	99.6050 %
Concentration per Run 1	0.0364 ppm	100.6807 %	101.7659 %	96.4960 %	99.2435 %	101.3979 %	99.7722 %
Concentration per Run 2	0.0354 ppm	101.0733 %	102.0636 %	95.3491 %	99.0543 %	101.6728 %	98.6403 %
Concentration per Run 3	0.0349 ppm	100.9822 %	102.1033 %	96.6956 %	98.7013 %	101.4172 %	100.4025 %
Concentration RSD	2.1 %	0.2 %	0.2 %	0.8 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-3 WG1974865
Analysis started at: 9/24/2024 10:24:20 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0512 ppm	1.9699 ppm	0.1250 ppm	1.2655 ppm	2.0690 ppm	0.0509 ppm	101.6614 ppm
Concentration per Run 1	0.0516 ppm	1.9824 ppm	0.1257 ppm	1.2681 ppm	2.0687 ppm	0.0509 ppm	102.0081 ppm
Concentration per Run 2	0.0507 ppm	1.9815 ppm	0.1250 ppm	1.2677 ppm	2.0712 ppm	0.0510 ppm	101.6799 ppm
Concentration per Run 3	0.0514 ppm	1.9459 ppm	0.1244 ppm	1.2608 ppm	2.0672 ppm	0.0508 ppm	101.2962 ppm
Concentration RSD	1.0 %	1.1 %	0.5 %	0.3 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4772 ppm	0.1918 ppm	0.2720 ppm	1.0160 ppm	11.4073 ppm	0.0124 ppm
Concentration per Run 1	0.0515 ppm	0.4775 ppm	0.1930 ppm	0.2728 ppm	1.0201 ppm	11.3896 ppm	0.0133 ppm
Concentration per Run 2	0.0510 ppm	0.4785 ppm	0.1922 ppm	0.2723 ppm	1.0173 ppm	11.4487 ppm	0.0118 ppm
Concentration per Run 3	0.0506 ppm	0.4756 ppm	0.1901 ppm	0.2711 ppm	1.0107 ppm	11.3835 ppm	0.0121 ppm
Concentration RSD	0.8 %	0.3 %	0.8 %	0.3 %	0.5 %	0.3 %	6.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.3720 ppm	0.4963 ppm	0.9245 ppm	31.0920 ppm	0.4748 ppm	0.5309 ppm	0.4179 ppm
Concentration per Run 1	41.6948 ppm	0.4974 ppm	0.9138 ppm	31.1080 ppm	0.4769 ppm	0.5304 ppm	0.4106 ppm
Concentration per Run 2	41.2646 ppm	0.4990 ppm	0.9256 ppm	31.1047 ppm	0.4744 ppm	0.5298 ppm	0.4211 ppm
Concentration per Run 3	41.1565 ppm	0.4927 ppm	0.9340 ppm	31.0634 ppm	0.4732 ppm	0.5326 ppm	0.4220 ppm
Concentration RSD	0.7 %	0.7 %	1.1 %	0.1 %	0.4 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1238 ppm	10.6372 ppm	0.9253 ppm	1.2672 ppm	0.9965 ppm	0.1211 ppm	0.4985 ppm
Concentration per Run 1	0.1174 ppm	10.7071 ppm	0.9267 ppm	1.2659 ppm	0.9938 ppm	0.1219 ppm	0.5013 ppm
Concentration per Run 2	0.1253 ppm	10.6991 ppm	0.9239 ppm	1.2682 ppm	0.9996 ppm	0.1214 ppm	0.4964 ppm
Concentration per Run 3	0.1286 ppm	10.5054 ppm	0.9253 ppm	1.2677 ppm	0.9961 ppm	0.1200 ppm	0.4978 ppm
Concentration RSD	4.6 %	1.1 %	0.2 %	0.1 %	0.3 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5234 ppm	101.6344 %	101.7138 %	95.7673 %	99.1716 %	100.7662 %	98.6433 %
Concentration per Run 1	0.5244 ppm	101.6651 %	101.6211 %	95.5402 %	99.3822 %	100.8173 %	98.4876 %
Concentration per Run 2	0.5259 ppm	102.5083 %	102.0494 %	96.2468 %	100.0563 %	101.1532 %	98.9716 %
Concentration per Run 3	0.5199 ppm	100.7299 %	101.4709 %	95.5148 %	98.0763 %	100.3282 %	98.4709 %
Concentration RSD	0.6 %	0.9 %	0.3 %	0.4 %	1.0 %	0.4 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-4 WG1974865
Analysis started at: 9/24/2024 10:28:14 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0067 ppm	0.0029 ppm	0.2711 ppm	0.0735 ppm	0.0000 ppm	93.4467 ppm
Concentration per Run 1	0.0000 ppm	0.0021 ppm	0.0042 ppm	0.2701 ppm	0.0734 ppm	-0.0001 ppm	93.8218 ppm
Concentration per Run 2	-0.0004 ppm	0.0192 ppm	0.0027 ppm	0.2715 ppm	0.0738 ppm	0.0000 ppm	93.1061 ppm
Concentration per Run 3	-0.0002 ppm	-0.0012 ppm	0.0018 ppm	0.2716 ppm	0.0733 ppm	0.0001 ppm	93.4123 ppm
Concentration RSD	110.2 %	162.9 %	41.9 %	0.3 %	0.4 %	350.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0001 ppm	-0.0006 ppm	0.0282 ppm	0.0050 ppm	1.0094 ppm	0.0122 ppm
Concentration per Run 1	-0.0003 ppm	-0.0007 ppm	-0.0005 ppm	0.0286 ppm	0.0036 ppm	1.0460 ppm	0.0148 ppm
Concentration per Run 2	-0.0005 ppm	-0.0002 ppm	-0.0002 ppm	0.0281 ppm	0.0061 ppm	1.0087 ppm	0.0117 ppm
Concentration per Run 3	-0.0004 ppm	0.0006 ppm	-0.0009 ppm	0.0279 ppm	0.0054 ppm	0.9737 ppm	0.0101 ppm
Concentration RSD	25.2 %	588.0 %	63.7 %	1.3 %	25.5 %	3.6 %	19.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.5294 ppm	0.0001 ppm	0.0043 ppm	21.2229 ppm	0.0008 ppm	0.0017 ppm	0.0028 ppm
Concentration per Run 1	32.5416 ppm	0.0000 ppm	0.0047 ppm	21.2779 ppm	0.0020 ppm	0.0019 ppm	0.0013 ppm
Concentration per Run 2	32.4889 ppm	-0.0002 ppm	0.0039 ppm	21.1945 ppm	-0.0004 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 3	32.5577 ppm	0.0004 ppm	0.0044 ppm	21.1965 ppm	0.0009 ppm	0.0019 ppm	0.0079 ppm
Concentration RSD	0.1 %	321.8 %	9.0 %	0.2 %	142.7 %	21.7 %	158.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	10.3096 ppm	0.0043 ppm	0.3124 ppm	0.0007 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 1	-0.0011 ppm	10.3354 ppm	0.0048 ppm	0.3120 ppm	0.0005 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 2	-0.0034 ppm	10.3233 ppm	0.0053 ppm	0.3143 ppm	0.0005 ppm	0.0004 ppm	0.0018 ppm
Concentration per Run 3	0.0004 ppm	10.2700 ppm	0.0027 ppm	0.3108 ppm	0.0010 ppm	0.0002 ppm	0.0019 ppm
Concentration RSD	141.4 %	0.3 %	33.0 %	0.6 %	42.6 %	83.2 %	6.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0364 ppm	101.4226 %	101.2814 %	96.7443 %	99.9072 %	100.3155 %	99.8870 %
Concentration per Run 1	0.0365 ppm	100.9343 %	101.3077 %	96.7504 %	100.0780 %	100.9288 %	100.0630 %
Concentration per Run 2	0.0365 ppm	102.0814 %	100.7989 %	96.8630 %	100.4067 %	99.1397 %	99.9170 %
Concentration per Run 3	0.0362 ppm	101.2522 %	101.7376 %	96.6195 %	99.2369 %	100.8780 %	99.6812 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.1 %	0.6 %	1.0 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-5 WG1974865
Analysis started at: 9/24/2024 10:32:08 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	2.0476 ppm	0.1294 ppm	1.3094 ppm	2.1132 ppm	0.0521 ppm	99.6287 ppm
Concentration per Run 1	0.0498 ppm	2.0507 ppm	0.1306 ppm	1.3129 ppm	2.1089 ppm	0.0521 ppm	99.8148 ppm
Concentration per Run 2	0.0492 ppm	2.0491 ppm	0.1301 ppm	1.3114 ppm	2.1131 ppm	0.0520 ppm	99.6017 ppm
Concentration per Run 3	0.0496 ppm	2.0431 ppm	0.1276 ppm	1.3038 ppm	2.1177 ppm	0.0521 ppm	99.4696 ppm
Concentration RSD	0.5 %	0.2 %	1.2 %	0.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0525 ppm	0.4885 ppm	0.1983 ppm	0.2781 ppm	1.0535 ppm	11.9212 ppm	0.0123 ppm
Concentration per Run 1	0.0526 ppm	0.4887 ppm	0.1975 ppm	0.2792 ppm	1.0483 ppm	11.9052 ppm	0.0134 ppm
Concentration per Run 2	0.0525 ppm	0.4881 ppm	0.1997 ppm	0.2773 ppm	1.0512 ppm	11.9478 ppm	0.0127 ppm
Concentration per Run 3	0.0524 ppm	0.4888 ppm	0.1977 ppm	0.2780 ppm	1.0610 ppm	11.9107 ppm	0.0107 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.3 %	0.6 %	0.2 %	11.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.1016 ppm	0.5094 ppm	0.9683 ppm	31.1534 ppm	0.4874 ppm	0.5452 ppm	0.3704 ppm
Concentration per Run 1	41.0267 ppm	0.5114 ppm	0.9549 ppm	31.1943 ppm	0.4883 ppm	0.5460 ppm	0.3546 ppm
Concentration per Run 2	41.2363 ppm	0.5065 ppm	0.9714 ppm	31.1713 ppm	0.4904 ppm	0.5453 ppm	0.3744 ppm
Concentration per Run 3	41.0419 ppm	0.5102 ppm	0.9787 ppm	31.0947 ppm	0.4835 ppm	0.5443 ppm	0.3821 ppm
Concentration RSD	0.3 %	0.5 %	1.3 %	0.2 %	0.7 %	0.2 %	3.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1260 ppm	10.8536 ppm	0.9961 ppm	1.3129 ppm	1.0511 ppm	0.1232 ppm	0.5114 ppm
Concentration per Run 1	0.1256 ppm	10.8593 ppm	0.9910 ppm	1.3147 ppm	1.0473 ppm	0.1228 ppm	0.5124 ppm
Concentration per Run 2	0.1250 ppm	10.8962 ppm	0.9995 ppm	1.3130 ppm	1.0595 ppm	0.1260 ppm	0.5108 ppm
Concentration per Run 3	0.1274 ppm	10.8052 ppm	0.9977 ppm	1.3109 ppm	1.0465 ppm	0.1209 ppm	0.5109 ppm
Concentration RSD	1.0 %	0.4 %	0.5 %	0.1 %	0.7 %	2.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5359 ppm	101.6138 %	102.9831 %	95.4354 %	99.2264 %	101.6780 %	98.3286 %
Concentration per Run 1	0.5345 ppm	102.0442 %	102.8711 %	94.6168 %	99.8234 %	101.7960 %	97.4469 %
Concentration per Run 2	0.5391 ppm	101.6458 %	102.3076 %	95.4402 %	99.1014 %	100.9592 %	98.4271 %
Concentration per Run 3	0.5341 ppm	101.1513 %	103.7705 %	96.2493 %	98.7544 %	102.2788 %	99.1119 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.9 %	0.5 %	0.7 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-6D5 WG1974865
Analysis started at: 9/24/2024 10:36:03 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0010 ppm	0.0029 ppm	0.0559 ppm	0.0145 ppm	0.0000 ppm	19.0364 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0033 ppm	0.0556 ppm	0.0145 ppm	0.0000 ppm	19.1320 ppm
Concentration per Run 2	0.0003 ppm	-0.0099 ppm	0.0027 ppm	0.0554 ppm	0.0145 ppm	0.0000 ppm	19.0223 ppm
Concentration per Run 3	-0.0007 ppm	0.0065 ppm	0.0026 ppm	0.0567 ppm	0.0146 ppm	0.0000 ppm	18.9551 ppm
Concentration RSD	1,365.0 %	837.1 %	13.4 %	1.3 %	0.6 %	53.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0055 ppm	0.0037 ppm	0.2031 ppm	0.0040 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0052 ppm	0.0032 ppm	0.2232 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0060 ppm	0.0028 ppm	0.1911 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0052 ppm	0.0051 ppm	0.1952 ppm	0.0053 ppm
Concentration RSD	1,000.3 %	348.0 %	156.7 %	8.6 %	33.5 %	8.6 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.5613 ppm	0.0000 ppm	0.0048 ppm	4.2763 ppm	0.0003 ppm	0.0007 ppm	0.0111 ppm
Concentration per Run 1	6.5479 ppm	0.0002 ppm	0.0056 ppm	4.2714 ppm	0.0003 ppm	-0.0004 ppm	0.0136 ppm
Concentration per Run 2	6.5570 ppm	-0.0001 ppm	0.0046 ppm	4.2991 ppm	-0.0005 ppm	0.0010 ppm	0.0089 ppm
Concentration per Run 3	6.5790 ppm	0.0000 ppm	0.0042 ppm	4.2584 ppm	0.0011 ppm	0.0016 ppm	0.0108 ppm
Concentration RSD	0.2 %	391.0 %	15.1 %	0.5 %	265.4 %	139.4 %	21.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.9944 ppm	0.0140 ppm	0.0622 ppm	0.0008 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	1.9841 ppm	0.0148 ppm	0.0624 ppm	0.0011 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0031 ppm	2.0053 ppm	0.0147 ppm	0.0623 ppm	0.0006 ppm	0.0017 ppm	0.0001 ppm
Concentration per Run 3	0.0020 ppm	1.9938 ppm	0.0125 ppm	0.0620 ppm	0.0006 ppm	0.0015 ppm	0.0001 ppm
Concentration RSD	196.0 %	0.5 %	9.3 %	0.3 %	38.0 %	17.3 %	47.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0062 ppm	104.1075 %	102.1939 %	102.0056 %	102.0477 %	101.6065 %	102.2442 %
Concentration per Run 1	0.0062 ppm	103.4503 %	102.6986 %	101.4372 %	101.3973 %	102.6037 %	101.6292 %
Concentration per Run 2	0.0062 ppm	104.7392 %	100.8359 %	102.0778 %	102.8724 %	99.7395 %	102.4722 %
Concentration per Run 3	0.0063 ppm	104.1329 %	103.0472 %	102.5017 %	101.8735 %	102.4763 %	102.6313 %
Concentration RSD	0.6 %	0.6 %	1.2 %	0.5 %	0.7 %	1.6 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 10:39:58 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5013 ppm	0.4698 ppm	0.4778 ppm	0.4882 ppm	0.4916 ppm	0.5017 ppm	0.4812 ppm
Concentration per Run 1	0.4999 ppm	0.4711 ppm	0.4737 ppm	0.4908 ppm	0.4915 ppm	0.5017 ppm	0.4841 ppm
Concentration per Run 2	0.5015 ppm	0.4726 ppm	0.4761 ppm	0.4846 ppm	0.4898 ppm	0.5016 ppm	0.4775 ppm
Concentration per Run 3	0.5024 ppm	0.4655 ppm	0.4835 ppm	0.4894 ppm	0.4936 ppm	0.5019 ppm	0.4819 ppm
Recovery Percentage 1	100.262 %	93.953 %	95.552 %	97.650 %	98.330 %	100.339 %	96.237 %
Concentration RSD	0.3 %	0.8 %	1.1 %	0.7 %	0.4 %	0.0 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4857 ppm	0.4989 ppm	0.4805 ppm	0.4832 ppm	0.4950 ppm	5.0438 ppm	0.4860 ppm
Concentration per Run 1	0.4798 ppm	0.4927 ppm	0.4811 ppm	0.4831 ppm	0.4933 ppm	5.0212 ppm	0.4872 ppm
Concentration per Run 2	0.4897 ppm	0.5031 ppm	0.4796 ppm	0.4822 ppm	0.4964 ppm	5.0449 ppm	0.4853 ppm
Concentration per Run 3	0.4876 ppm	0.5010 ppm	0.4809 ppm	0.4842 ppm	0.4952 ppm	5.0654 ppm	0.4856 ppm
Recovery Percentage 1	97.135 %	99.787 %	96.104 %	96.634 %	98.998 %	100.877 %	97.206 %
Concentration RSD	1.1 %	1.1 %	0.2 %	0.2 %	0.3 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4833 ppm	0.4806 ppm	0.4815 ppm	9.8391 ppm	0.4996 ppm	0.4913 ppm	0.5007 ppm
Concentration per Run 1	0.4834 ppm	0.4815 ppm	0.4759 ppm	9.8367 ppm	0.4985 ppm	0.4880 ppm	0.5001 ppm
Concentration per Run 2	0.4832 ppm	0.4793 ppm	0.4834 ppm	9.8386 ppm	0.4991 ppm	0.4916 ppm	0.5003 ppm
Concentration per Run 3	0.4832 ppm	0.4808 ppm	0.4853 ppm	9.8420 ppm	0.5014 ppm	0.4944 ppm	0.5018 ppm
Recovery Percentage 1	96.651 %	96.110 %	96.309 %	98.391 %	99.929 %	98.266 %	100.144 %
Concentration RSD	0.0 %	0.2 %	1.0 %	0.0 %	0.3 %	0.6 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4901 ppm	5.2104 ppm	0.4778 ppm	0.4707 ppm	0.4906 ppm	0.4936 ppm	0.4775 ppm
Concentration per Run 1	0.4905 ppm	5.1777 ppm	0.4757 ppm	0.4721 ppm	0.4888 ppm	0.4923 ppm	0.4751 ppm
Concentration per Run 2	0.4887 ppm	5.2208 ppm	0.4775 ppm	0.4685 ppm	0.4903 ppm	0.4908 ppm	0.4794 ppm
Concentration per Run 3	0.4912 ppm	5.2328 ppm	0.4803 ppm	0.4714 ppm	0.4928 ppm	0.4976 ppm	0.4781 ppm
Recovery Percentage 1	98.027 %	99.246 %	95.561 %	94.133 %	98.127 %	98.712 %	95.508 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.4 %	0.4 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	104.3232 %	104.6456 %	103.5457 %	101.7924 %	103.4454 %	103.3574 %
Concentration per Run 1	0.4985 ppm	103.7507 %	104.8994 %	104.1680 %	101.1107 %	103.6795 %	103.5684 %
Concentration per Run 2	0.4963 ppm	104.1795 %	104.2130 %	104.6720 %	101.6689 %	102.9306 %	104.5292 %
Concentration per Run 3	0.5006 ppm	105.0395 %	104.8245 %	101.7971 %	102.5975 %	103.7260 %	101.9746 %
Recovery Percentage 1	99.699 %						
Concentration RSD	0.4 %	0.6 %	0.4 %	1.5 %	0.7 %	0.4 %	1.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 10:43:52 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0011 ppm	0.0012 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0011 ppm	0.0102 ppm	0.0012 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm	-0.0028 ppm
Concentration per Run 2	0.0010 ppm	-0.0016 ppm	0.0015 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	-0.0003 ppm	-0.0053 ppm	0.0010 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0022 ppm
Recovery Percentage 1	8.290 %	1.095 %	24.111 %	5.448 %	-1.394 %	-0.182 %	-0.823 %
Concentration RSD	136.5 %	739.6 %	18.9 %	47.2 %	112.3 %	558.5 %	319.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0026 ppm	-0.0263 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0030 ppm	-0.0244 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0020 ppm	-0.0057 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm	-0.0488 ppm	0.0004 ppm
Recovery Percentage 1	1.437 %	-2.321 %	0.757 %	0.731 %	5.262 %	-1.052 %	24.819 %
Concentration RSD	113.6 %	173.3 %	332.7 %	161.7 %	19.6 %	82.2 %	82.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0012 ppm	-0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	-0.0008 ppm	0.0002 ppm	0.0013 ppm	-0.0056 ppm	0.0013 ppm	0.0009 ppm	0.0019 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0016 ppm	-0.0001 ppm	-0.0001 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0006 ppm	-0.0019 ppm	-0.0005 ppm	0.0005 ppm	-0.0005 ppm
Recovery Percentage 1	-0.353 %	1.060 %	2.403 %	-0.127 %	0.849 %	0.005 %	1.248 %
Concentration RSD	178.6 %	91.4 %	41.5 %	111.9 %	440.7 %	231,410.1 %	190.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0027 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0016 ppm	-0.0039 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	-0.0023 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	-0.0018 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm
Recovery Percentage 1	5.289 %	-0.534 %	0.243 %	1.687 %	2.463 %	3.270 %	-1.122 %
Concentration RSD	196.3 %	40.2 %	258.8 %	71.0 %	89.3 %	119.0 %	277.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	104.6408 %	102.5453 %	104.1382 %	103.9135 %	102.2336 %	104.7255 %
Concentration per Run 1	-0.0015 ppm	104.8095 %	102.0081 %	104.1060 %	104.1464 %	101.6604 %	104.8701 %
Concentration per Run 2	-0.0014 ppm	104.7632 %	102.8313 %	103.9668 %	104.0511 %	102.4750 %	104.6648 %
Concentration per Run 3	-0.0010 ppm	104.3496 %	102.7965 %	104.3419 %	103.5430 %	102.5653 %	104.6415 %
Recovery Percentage 1	-25.837 %						
Concentration RSD	18.5 %	0.2 %	0.5 %	0.2 %	0.3 %	0.5 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-1 WG1974865
Analysis started at: 9/24/2024 10:51:03 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0034 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 1	0.0002 ppm	-0.0059 ppm	-0.0013 ppm	0.0019 ppm	-0.0003 ppm	-0.0001 ppm	0.0066 ppm
Concentration per Run 2	0.0007 ppm	0.0040 ppm	-0.0002 ppm	-0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	0.0006 ppm	0.0122 ppm	0.0007 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0141 ppm
Recovery Percentage 1	6.802 %	3.433 %	-5.809 %	0.935 %	-1.289 %	0.053 %	10.905 %
Concentration RSD	58.6 %	264.3 %	334.8 %	714.4 %	106.6 %	2,322.1 %	35.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	0.0007 ppm	-0.0160 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	-0.0005 ppm	-0.0001 ppm	0.0037 ppm	-0.0176 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0019 ppm	0.0073 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0002 ppm	-0.0375 ppm	0.0008 ppm
Recovery Percentage 1	-1.415 %	-1.022 %	-2.855 %	-1.580 %	1.327 %	-0.639 %	-2.008 %
Concentration RSD	120.5 %	51.0 %	85.5 %	41.1 %	431.3 %	140.6 %	908.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0049 ppm	-0.0009 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0011 ppm	-0.0002 ppm	-0.0003 ppm	0.0037 ppm	-0.0004 ppm	0.0007 ppm	-0.0027 ppm
Concentration per Run 2	0.0028 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	-0.0013 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0096 ppm	-0.0011 ppm	0.0003 ppm	-0.0015 ppm
Recovery Percentage 1	1.294 %	-1.655 %	0.303 %	0.245 %	-3.789 %	3.050 %	-1.502 %
Concentration RSD	105.8 %	90.6 %	265.1 %	85.5 %	53.4 %	139.4 %	317.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	-0.0024 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0028 ppm	-0.0001 ppm	-0.0024 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	-0.0020 ppm	0.0002 ppm	0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0015 ppm	-0.0020 ppm	-0.0029 ppm	0.0001 ppm	0.0004 ppm	0.0013 ppm	-0.0002 ppm
Recovery Percentage 1	-3.884 %	0.029 %	-4.848 %	0.723 %	4.374 %	-0.092 %	-1.607 %
Concentration RSD	568.2 %	1,549.8 %	20.4 %	156.4 %	49.7 %	6,993.1 %	29.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	101.7657 %	102.2434 %	101.9955 %	101.6228 %	102.2768 %	101.8184 %
Concentration per Run 1	-0.0010 ppm	102.0777 %	101.9929 %	101.8418 %	102.1764 %	102.1964 %	101.6139 %
Concentration per Run 2	-0.0008 ppm	101.7895 %	101.6452 %	102.0115 %	101.8164 %	101.5310 %	101.8526 %
Concentration per Run 3	-0.0013 ppm	101.4300 %	103.0920 %	102.1333 %	100.8755 %	103.1030 %	101.9887 %
Recovery Percentage 1	-20.440 %						
Concentration RSD	20.8 %	0.3 %	0.7 %	0.1 %	0.7 %	0.8 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-1 WG1975349
Analysis started at: 9/24/2024 10:55:11 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0102 ppm	0.0019 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0204 ppm
Concentration per Run 1	0.0003 ppm	0.0065 ppm	0.0027 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0192 ppm
Concentration per Run 2	0.0002 ppm	0.0070 ppm	0.0010 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0201 ppm
Concentration per Run 3	0.0007 ppm	0.0170 ppm	0.0019 ppm	0.0013 ppm	-0.0001 ppm	0.0001 ppm	0.0220 ppm
Recovery Percentage 1	5.778 %	10.169 %	37.055 %	3.434 %	-0.647 %	0.230 %	20.416 %
Concentration RSD	68.4 %	58.3 %	44.6 %	37.3 %	81.4 %	433.4 %	6.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	**0.0182 ppm**	0.0010 ppm	**0.0896 ppm**	0.0025 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0182 ppm	0.0010 ppm	0.0907 ppm	-0.0030 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0188 ppm	0.0008 ppm	0.0894 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0175 ppm	0.0011 ppm	0.0888 ppm	0.0110 ppm	-0.0018 ppm
Recovery Percentage 1	1.981 %	0.190 %	181.968 %	9.627 %	179.266 %	0.100 %	-4.427 %
Concentration RSD	44.2 %	1,111.6 %	**3.7 %**	19.8 %	**1.1 %**	300.4 %	699.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0070 ppm	0.0018 ppm	0.0008 ppm	0.0131 ppm	0.0078 ppm	-0.0003 ppm	0.0052 ppm
Concentration per Run 1	0.0074 ppm	0.0019 ppm	0.0012 ppm	0.0157 ppm	0.0066 ppm	-0.0015 ppm	0.0045 ppm
Concentration per Run 2	0.0057 ppm	0.0018 ppm	0.0009 ppm	0.0095 ppm	0.0082 ppm	-0.0004 ppm	0.0039 ppm
Concentration per Run 3	0.0079 ppm	0.0016 ppm	0.0002 ppm	0.0142 ppm	0.0085 ppm	0.0010 ppm	0.0071 ppm
Recovery Percentage 1	7.021 %	17.945 %	1.536 %	0.656 %	31.098 %	-3.043 %	10.311 %
Concentration RSD	16.1 %	8.5 %	70.3 %	24.4 %	13.0 %	404.3 %	32.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0085 ppm	0.0043 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 1	-0.0015 ppm	0.0074 ppm	0.0044 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 2	0.0011 ppm	0.0096 ppm	0.0037 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0085 ppm	0.0049 ppm	0.0001 ppm	-0.0001 ppm	-0.0021 ppm	-0.0003 ppm
Recovery Percentage 1	0.427 %	1.700 %	8.616 %	1.334 %	2.467 %	-3.590 %	-3.054 %
Concentration RSD	3,139.6 %	13.2 %	14.0 %	82.2 %	137.5 %	174.3 %	106.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	109.6460 %	110.1007 %	104.5375 %	107.6442 %	109.6147 %	106.6153 %
Concentration per Run 1	-0.0001 ppm	109.6773 %	108.8795 %	103.7224 %	107.7439 %	108.3668 %	105.6090 %
Concentration per Run 2	-0.0002 ppm	109.4203 %	110.3055 %	105.1348 %	107.2457 %	109.9657 %	106.8965 %
Concentration per Run 3	-0.0003 ppm	109.8402 %	111.1172 %	104.7552 %	107.9429 %	110.5116 %	107.3406 %
Recovery Percentage 1	-3.859 %						
Concentration RSD	66.8 %	0.2 %	1.0 %	0.7 %	0.3 %	1.0 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-2 WG1974865
Analysis started at: 9/24/2024 10:59:04 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0510 ppm	1.9465 ppm	0.1191 ppm	0.9680 ppm	1.9796 ppm	0.0504 ppm	10.0269 ppm
Concentration per Run 1	0.0512 ppm	1.9466 ppm	0.1181 ppm	0.9634 ppm	1.9760 ppm	0.0504 ppm	9.9996 ppm
Concentration per Run 2	0.0508 ppm	1.9471 ppm	0.1199 ppm	0.9629 ppm	1.9913 ppm	0.0508 ppm	10.0582 ppm
Concentration per Run 3	0.0508 ppm	1.9457 ppm	0.1193 ppm	0.9778 ppm	1.9713 ppm	0.0502 ppm	10.0229 ppm
Concentration RSD	0.5 %	0.0 %	0.8 %	0.9 %	0.5 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.4964 ppm	0.1933 ppm	0.2469 ppm	1.0093 ppm	10.2803 ppm	0.0007 ppm
Concentration per Run 1	0.0532 ppm	0.4994 ppm	0.1935 ppm	0.2470 ppm	1.0042 ppm	10.2308 ppm	0.0010 ppm
Concentration per Run 2	0.0523 ppm	0.4936 ppm	0.1936 ppm	0.2465 ppm	1.0169 ppm	10.3467 ppm	0.0004 ppm
Concentration per Run 3	0.0529 ppm	0.4963 ppm	0.1928 ppm	0.2473 ppm	1.0068 ppm	10.2635 ppm	0.0008 ppm
Concentration RSD	0.9 %	0.6 %	0.2 %	0.2 %	0.7 %	0.6 %	43.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9427 ppm	0.5008 ppm	0.9483 ppm	10.1405 ppm	0.4955 ppm	0.5364 ppm	0.4223 ppm
Concentration per Run 1	9.9660 ppm	0.5012 ppm	0.9362 ppm	10.1013 ppm	0.4954 ppm	0.5354 ppm	0.4131 ppm
Concentration per Run 2	9.9130 ppm	0.5020 ppm	0.9497 ppm	10.2191 ppm	0.4957 ppm	0.5343 ppm	0.4226 ppm
Concentration per Run 3	9.9489 ppm	0.4990 ppm	0.9589 ppm	10.1012 ppm	0.4955 ppm	0.5393 ppm	0.4311 ppm
Concentration RSD	0.3 %	0.3 %	1.2 %	0.7 %	0.0 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1204 ppm	0.6126 ppm	0.9465 ppm	0.9614 ppm	1.0047 ppm	0.1218 ppm	0.4940 ppm
Concentration per Run 1	0.1196 ppm	0.6122 ppm	0.9421 ppm	0.9590 ppm	1.0054 ppm	0.1214 ppm	0.4948 ppm
Concentration per Run 2	0.1182 ppm	0.6131 ppm	0.9473 ppm	0.9681 ppm	1.0011 ppm	0.1214 ppm	0.4939 ppm
Concentration per Run 3	0.1233 ppm	0.6126 ppm	0.9501 ppm	0.9570 ppm	1.0076 ppm	0.1226 ppm	0.4933 ppm
Concentration RSD	2.2 %	0.1 %	0.4 %	0.6 %	0.3 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4973 ppm	105.6297 %	104.9282 %	103.1657 %	103.3433 %	103.8182 %	103.5269 %
Concentration per Run 1	0.4965 ppm	105.1173 %	105.5552 %	103.0765 %	102.9251 %	104.1528 %	103.2644 %
Concentration per Run 2	0.4967 ppm	105.8747 %	104.1918 %	102.8984 %	103.3977 %	103.1199 %	103.1950 %
Concentration per Run 3	0.4986 ppm	105.8971 %	105.0377 %	103.5224 %	103.7072 %	104.1818 %	104.1214 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.3 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-2 WG1975349
Analysis started at: 9/24/2024 11:02:57 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0907 ppm	3.4955 ppm	0.2228 ppm	1.7240 ppm	3.5673 ppm	0.0915 ppm	17.9518 ppm
Concentration per Run 1	0.0908 ppm	3.4943 ppm	0.2226 ppm	1.7252 ppm	3.5762 ppm	0.0919 ppm	17.8358 ppm
Concentration per Run 2	0.0904 ppm	3.4905 ppm	0.2217 ppm	1.7244 ppm	3.5784 ppm	0.0915 ppm	17.9706 ppm
Concentration per Run 3	0.0908 ppm	3.5017 ppm	0.2242 ppm	1.7223 ppm	3.5472 ppm	0.0910 ppm	18.0488 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.1 %	0.5 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0910 ppm	0.8907 ppm	0.3578 ppm	0.4581 ppm	1.8282 ppm	18.4298 ppm	0.0009 ppm
Concentration per Run 1	0.0905 ppm	0.8893 ppm	0.3594 ppm	0.4587 ppm	1.8414 ppm	18.4237 ppm	0.0018 ppm
Concentration per Run 2	0.0910 ppm	0.8914 ppm	0.3567 ppm	0.4573 ppm	1.8221 ppm	18.5617 ppm	0.0003 ppm
Concentration per Run 3	0.0916 ppm	0.8913 ppm	0.3572 ppm	0.4583 ppm	1.8211 ppm	18.3040 ppm	0.0005 ppm
Concentration RSD	0.6 %	0.1 %	0.4 %	0.2 %	0.6 %	0.7 %	86.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8732 ppm	0.8990 ppm	1.8854 ppm	18.0532 ppm	0.8935 ppm	0.9768 ppm	0.9002 ppm
Concentration per Run 1	17.8438 ppm	0.9014 ppm	1.8808 ppm	18.0044 ppm	0.8964 ppm	0.9766 ppm	0.8916 ppm
Concentration per Run 2	17.9061 ppm	0.8973 ppm	1.8862 ppm	18.0688 ppm	0.8925 ppm	0.9738 ppm	0.9045 ppm
Concentration per Run 3	17.8699 ppm	0.8984 ppm	1.8893 ppm	18.0864 ppm	0.8916 ppm	0.9801 ppm	0.9044 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	0.3 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2073 ppm	1.3058 ppm	1.7613 ppm	1.7272 ppm	1.8541 ppm	0.2216 ppm	0.9140 ppm
Concentration per Run 1	0.2095 ppm	1.3005 ppm	1.7701 ppm	1.7305 ppm	1.8515 ppm	0.2212 ppm	0.9133 ppm
Concentration per Run 2	0.2069 ppm	1.3023 ppm	1.7621 ppm	1.7263 ppm	1.8598 ppm	0.2211 ppm	0.9139 ppm
Concentration per Run 3	0.2056 ppm	1.3148 ppm	1.7516 ppm	1.7249 ppm	1.8511 ppm	0.2224 ppm	0.9150 ppm
Concentration RSD	1.0 %	0.6 %	0.5 %	0.2 %	0.3 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8830 ppm	107.4789 %	109.9604 %	102.0127 %	104.3858 %	108.6686 %	104.3427 %
Concentration per Run 1	0.8846 ppm	107.0039 %	110.8805 %	102.6750 %	103.9266 %	109.2144 %	104.8487 %
Concentration per Run 2	0.8802 ppm	107.9261 %	109.4488 %	102.0119 %	104.7025 %	108.2874 %	104.3600 %
Concentration per Run 3	0.8842 ppm	107.5066 %	109.5520 %	101.3513 %	104.5283 %	108.5039 %	103.8193 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %	0.4 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-3 WG1975349
Analysis started at: 9/24/2024 11:06:50 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0915 ppm	3.5143 ppm	0.2236 ppm	1.7425 ppm	3.5761 ppm	0.0918 ppm	18.0757 ppm
Concentration per Run 1	0.0914 ppm	3.5091 ppm	0.2265 ppm	1.7431 ppm	3.5717 ppm	0.0918 ppm	18.0061 ppm
Concentration per Run 2	0.0917 ppm	3.5062 ppm	0.2244 ppm	1.7382 ppm	3.5709 ppm	0.0915 ppm	17.9997 ppm
Concentration per Run 3	0.0913 ppm	3.5275 ppm	0.2199 ppm	1.7461 ppm	3.5859 ppm	0.0921 ppm	18.2214 ppm
Concentration RSD	0.3 %	0.3 %	1.5 %	0.2 %	0.2 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0922 ppm	0.9046 ppm	0.3609 ppm	0.4649 ppm	1.8362 ppm	18.5152 ppm	0.0013 ppm
Concentration per Run 1	0.0927 ppm	0.9091 ppm	0.3610 ppm	0.4666 ppm	1.8347 ppm	18.4700 ppm	0.0023 ppm
Concentration per Run 2	0.0920 ppm	0.8978 ppm	0.3600 ppm	0.4624 ppm	1.8231 ppm	18.4804 ppm	0.0010 ppm
Concentration per Run 3	0.0919 ppm	0.9070 ppm	0.3616 ppm	0.4656 ppm	1.8509 ppm	18.5953 ppm	0.0007 ppm
Concentration RSD	0.5 %	0.7 %	0.2 %	0.5 %	0.8 %	0.4 %	62.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.0332 ppm	0.9079 ppm	1.9102 ppm	18.1711 ppm	0.9018 ppm	0.9882 ppm	0.8920 ppm
Concentration per Run 1	18.0249 ppm	0.9071 ppm	1.9162 ppm	18.1232 ppm	0.9014 ppm	0.9930 ppm	0.8956 ppm
Concentration per Run 2	18.0815 ppm	0.9072 ppm	1.9001 ppm	18.1439 ppm	0.9017 ppm	0.9861 ppm	0.8896 ppm
Concentration per Run 3	17.9932 ppm	0.9094 ppm	1.9142 ppm	18.2462 ppm	0.9022 ppm	0.9855 ppm	0.8908 ppm
Concentration RSD	0.2 %	0.1 %	0.5 %	0.4 %	0.0 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2082 ppm	1.3218 ppm	1.7650 ppm	1.7289 ppm	1.8723 ppm	0.2231 ppm	0.9235 ppm
Concentration per Run 1	0.2116 ppm	1.3223 ppm	1.7700 ppm	1.7258 ppm	1.8698 ppm	0.2254 ppm	0.9236 ppm
Concentration per Run 2	0.2095 ppm	1.3187 ppm	1.7633 ppm	1.7273 ppm	1.8785 ppm	0.2235 ppm	0.9224 ppm
Concentration per Run 3	0.2035 ppm	1.3245 ppm	1.7616 ppm	1.7336 ppm	1.8687 ppm	0.2203 ppm	0.9246 ppm
Concentration RSD	2.0 %	0.2 %	0.3 %	0.2 %	0.3 %	1.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8920 ppm	108.0324 %	110.6864 %	102.8747 %	105.2442 %	109.8709 %	105.2016 %
Concentration per Run 1	0.8923 ppm	108.0867 %	111.5734 %	101.3576 %	105.2295 %	110.3539 %	104.0901 %
Concentration per Run 2	0.8911 ppm	108.1428 %	111.0020 %	102.5260 %	105.0795 %	109.8608 %	104.4438 %
Concentration per Run 3	0.8927 ppm	107.8678 %	109.4839 %	104.7404 %	105.4237 %	109.3979 %	107.0710 %
Concentration RSD	0.1 %	0.1 %	1.0 %	1.7 %	0.2 %	0.4 %	1.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453277-01 WG1974865
Analysis started at: 9/24/2024 11:10:43 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0041 ppm	0.0012 ppm	0.0457 ppm	0.0073 ppm	0.0000 ppm	73.7857 ppm
Concentration per Run 1	0.0004 ppm	-0.0156 ppm	0.0008 ppm	0.0460 ppm	0.0074 ppm	0.0000 ppm	73.5701 ppm
Concentration per Run 2	0.0002 ppm	-0.0126 ppm	0.0021 ppm	0.0453 ppm	0.0073 ppm	0.0000 ppm	73.9520 ppm
Concentration per Run 3	-0.0001 ppm	0.0160 ppm	0.0007 ppm	0.0458 ppm	0.0073 ppm	0.0000 ppm	73.8350 ppm
Concentration RSD	131.5 %	429.4 %	63.5 %	0.8 %	1.3 %	42.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0002 ppm	-0.0010 ppm	0.0950 ppm	0.0098 ppm	1.8550 ppm	0.0012 ppm
Concentration per Run 1	-0.0002 ppm	-0.0009 ppm	-0.0006 ppm	0.0947 ppm	0.0096 ppm	1.8755 ppm	0.0007 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	-0.0011 ppm	0.0950 ppm	0.0105 ppm	1.8335 ppm	-0.0003 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	-0.0012 ppm	0.0953 ppm	0.0092 ppm	1.8560 ppm	0.0030 ppm
Concentration RSD	27.3 %	262.7 %	31.4 %	0.3 %	6.9 %	1.1 %	146.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4742 ppm	0.0004 ppm	0.0033 ppm	82.8161 ppm	0.0013 ppm	-0.0006 ppm	0.0044 ppm
Concentration per Run 1	10.4703 ppm	0.0004 ppm	0.0034 ppm	82.5904 ppm	0.0009 ppm	-0.0011 ppm	0.0022 ppm
Concentration per Run 2	10.5225 ppm	0.0005 ppm	0.0034 ppm	83.0669 ppm	0.0019 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 3	10.4298 ppm	0.0002 ppm	0.0031 ppm	82.7910 ppm	0.0012 ppm	-0.0008 ppm	0.0031 ppm
Concentration RSD	0.4 %	35.8 %	5.2 %	0.3 %	38.0 %	100.2 %	70.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	6.8414 ppm	-0.0023 ppm	0.2422 ppm	0.0008 ppm	0.0029 ppm	0.0001 ppm
Concentration per Run 1	-0.0022 ppm	6.8043 ppm	-0.0031 ppm	0.2424 ppm	0.0008 ppm	0.0029 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	6.8678 ppm	-0.0011 ppm	0.2422 ppm	0.0008 ppm	0.0031 ppm	0.0000 ppm
Concentration per Run 3	-0.0053 ppm	6.8523 ppm	-0.0027 ppm	0.2419 ppm	0.0009 ppm	0.0025 ppm	0.0001 ppm
Concentration RSD	56.7 %	0.5 %	46.3 %	0.1 %	6.6 %	10.5 %	117.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0498 ppm	101.4188 %	101.6461 %	97.6764 %	100.0029 %	100.9415 %	101.3091 %
Concentration per Run 1	0.0499 ppm	100.8358 %	101.8223 %	97.2310 %	99.8070 %	101.1215 %	100.8540 %
Concentration per Run 2	0.0503 ppm	101.6898 %	101.7249 %	97.9951 %	99.9990 %	100.9348 %	101.3394 %
Concentration per Run 3	0.0492 ppm	101.7309 %	101.3911 %	97.8030 %	100.2027 %	100.7682 %	101.7340 %
Concentration RSD	1.1 %	0.5 %	0.2 %	0.4 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-7 WG1974865
Analysis started at: 9/24/2024 11:14:38 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0500 ppm	1.9473 ppm	0.1264 ppm	1.0242 ppm	1.9826 ppm	0.0511 ppm	83.3757 ppm
Concentration per Run 1	0.0503 ppm	1.9558 ppm	0.1239 ppm	1.0276 ppm	1.9760 ppm	0.0509 ppm	83.2526 ppm
Concentration per Run 2	0.0496 ppm	1.9452 ppm	0.1257 ppm	1.0223 ppm	1.9830 ppm	0.0512 ppm	83.5112 ppm
Concentration per Run 3	0.0502 ppm	1.9407 ppm	0.1296 ppm	1.0227 ppm	1.9888 ppm	0.0512 ppm	83.3634 ppm
Concentration RSD	0.7 %	0.4 %	2.3 %	0.3 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0512 ppm	0.4831 ppm	0.1914 ppm	0.3371 ppm	1.0162 ppm	12.2194 ppm	0.0031 ppm
Concentration per Run 1	0.0513 ppm	0.4811 ppm	0.1919 ppm	0.3371 ppm	1.0096 ppm	12.1857 ppm	0.0028 ppm
Concentration per Run 2	0.0514 ppm	0.4847 ppm	0.1903 ppm	0.3375 ppm	1.0169 ppm	12.2210 ppm	0.0029 ppm
Concentration per Run 3	0.0511 ppm	0.4835 ppm	0.1921 ppm	0.3369 ppm	1.0220 ppm	12.2515 ppm	0.0037 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.1 %	0.6 %	0.3 %	16.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2302 ppm	0.4939 ppm	0.9287 ppm	92.7940 ppm	0.4769 ppm	0.5289 ppm	0.4152 ppm
Concentration per Run 1	20.2298 ppm	0.4912 ppm	0.9143 ppm	92.5108 ppm	0.4786 ppm	0.5303 ppm	0.4030 ppm
Concentration per Run 2	20.3301 ppm	0.4960 ppm	0.9327 ppm	92.9801 ppm	0.4769 ppm	0.5286 ppm	0.4142 ppm
Concentration per Run 3	20.1308 ppm	0.4944 ppm	0.9391 ppm	92.8911 ppm	0.4752 ppm	0.5279 ppm	0.4284 ppm
Concentration RSD	0.5 %	0.5 %	1.4 %	0.3 %	0.4 %	0.2 %	3.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1231 ppm	7.5789 ppm	0.9229 ppm	1.1971 ppm	1.0061 ppm	0.1185 ppm	0.4985 ppm
Concentration per Run 1	0.1257 ppm	7.5737 ppm	0.9213 ppm	1.1942 ppm	1.0069 ppm	0.1176 ppm	0.4970 ppm
Concentration per Run 2	0.1220 ppm	7.5871 ppm	0.9211 ppm	1.1978 ppm	1.0091 ppm	0.1203 ppm	0.4979 ppm
Concentration per Run 3	0.1217 ppm	7.5759 ppm	0.9262 ppm	1.1993 ppm	1.0022 ppm	0.1177 ppm	0.5006 ppm
Concentration RSD	1.8 %	0.1 %	0.3 %	0.2 %	0.3 %	1.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5429 ppm	102.2349 %	102.2101 %	96.3906 %	99.6129 %	100.6899 %	99.9248 %
Concentration per Run 1	0.5418 ppm	102.8188 %	103.2958 %	96.5783 %	100.4506 %	102.1929 %	100.2518 %
Concentration per Run 2	0.5421 ppm	101.9140 %	102.2139 %	97.0385 %	99.2100 %	100.8052 %	100.3138 %
Concentration per Run 3	0.5448 ppm	101.9719 %	101.1206 %	95.5550 %	99.1782 %	99.0716 %	99.2088 %
Concentration RSD	0.3 %	0.5 %	1.1 %	0.8 %	0.7 %	1.6 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-8 WG1974865
Analysis started at: 9/24/2024 11:18:31 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0037 ppm	0.0019 ppm	0.0455 ppm	0.0075 ppm	0.0000 ppm	73.6487 ppm
Concentration per Run 1	-0.0003 ppm	-0.0084 ppm	-0.0011 ppm	0.0458 ppm	0.0076 ppm	0.0000 ppm	73.5977 ppm
Concentration per Run 2	0.0005 ppm	0.0113 ppm	0.0025 ppm	0.0439 ppm	0.0073 ppm	0.0000 ppm	73.6572 ppm
Concentration per Run 3	0.0006 ppm	-0.0140 ppm	0.0041 ppm	0.0469 ppm	0.0075 ppm	0.0000 ppm	73.6913 ppm
Concentration RSD	192.3 %	359.9 %	144.1 %	3.3 %	1.7 %	307.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0962 ppm	0.0101 ppm	1.8756 ppm	0.0023 ppm
Concentration per Run 1	-0.0003 ppm	0.0010 ppm	-0.0011 ppm	0.0969 ppm	0.0098 ppm	1.8876 ppm	0.0013 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0959 ppm	0.0097 ppm	1.8462 ppm	0.0029 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	-0.0012 ppm	0.0957 ppm	0.0108 ppm	1.8930 ppm	0.0027 ppm
Concentration RSD	27.9 %	139.5 %	29.2 %	0.6 %	6.3 %	1.4 %	39.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.5327 ppm	0.0004 ppm	0.0043 ppm	83.1426 ppm	0.0012 ppm	0.0012 ppm	0.0064 ppm
Concentration per Run 1	10.5780 ppm	0.0003 ppm	0.0044 ppm	83.2843 ppm	0.0007 ppm	-0.0005 ppm	0.0024 ppm
Concentration per Run 2	10.4730 ppm	0.0005 ppm	0.0040 ppm	83.1884 ppm	0.0014 ppm	0.0022 ppm	0.0076 ppm
Concentration per Run 3	10.5470 ppm	0.0003 ppm	0.0047 ppm	82.9549 ppm	0.0015 ppm	0.0020 ppm	0.0090 ppm
Concentration RSD	0.5 %	37.0 %	8.4 %	0.2 %	39.0 %	124.4 %	54.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	6.8632 ppm	0.0041 ppm	0.2445 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 1	-0.0031 ppm	6.9090 ppm	0.0052 ppm	0.2442 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	6.8401 ppm	0.0042 ppm	0.2453 ppm	0.0003 ppm	0.0036 ppm	0.0003 ppm
Concentration per Run 3	-0.0018 ppm	6.8406 ppm	0.0027 ppm	0.2439 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	108.8 %	0.6 %	30.6 %	0.3 %	54.5 %	146.9 %	100.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0497 ppm	100.5177 %	103.2143 %	96.8164 %	99.0762 %	102.3804 %	100.4299 %
Concentration per Run 1	0.0498 ppm	99.6752 %	103.4052 %	96.4039 %	98.5645 %	102.8008 %	99.9141 %
Concentration per Run 2	0.0493 ppm	101.2892 %	102.8203 %	97.7618 %	99.8115 %	101.9194 %	101.3434 %
Concentration per Run 3	0.0500 ppm	100.5888 %	103.4174 %	96.2835 %	98.8527 %	102.4210 %	100.0323 %
Concentration RSD	0.8 %	0.8 %	0.3 %	0.8 %	0.7 %	0.4 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-9 WG1974865
Analysis started at: 9/24/2024 11:22:24 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0481 ppm	2.0023 ppm	0.1240 ppm	1.0591 ppm	2.0081 ppm	0.0514 ppm	82.0992 ppm
Concentration per Run 1	0.0482 ppm	1.9964 ppm	0.1246 ppm	1.0625 ppm	2.0019 ppm	0.0513 ppm	81.9620 ppm
Concentration per Run 2	0.0483 ppm	2.0008 ppm	0.1235 ppm	1.0610 ppm	2.0110 ppm	0.0516 ppm	82.2770 ppm
Concentration per Run 3	0.0478 ppm	2.0096 ppm	0.1241 ppm	1.0538 ppm	2.0115 ppm	0.0514 ppm	82.0587 ppm
Concentration RSD	0.5 %	0.3 %	0.5 %	0.4 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0513 ppm	0.4850 ppm	0.1936 ppm	0.3373 ppm	1.0383 ppm	12.5211 ppm	0.0014 ppm
Concentration per Run 1	0.0516 ppm	0.4854 ppm	0.1946 ppm	0.3362 ppm	1.0398 ppm	12.4688 ppm	0.0029 ppm
Concentration per Run 2	0.0511 ppm	0.4842 ppm	0.1940 ppm	0.3364 ppm	1.0334 ppm	12.5438 ppm	0.0008 ppm
Concentration per Run 3	0.0512 ppm	0.4853 ppm	0.1923 ppm	0.3393 ppm	1.0419 ppm	12.5507 ppm	0.0005 ppm
Concentration RSD	0.5 %	0.1 %	0.6 %	0.5 %	0.4 %	0.4 %	95.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.1109 ppm	0.4979 ppm	0.9539 ppm	91.7992 ppm	0.4831 ppm	0.5284 ppm	0.3594 ppm
Concentration per Run 1	20.1312 ppm	0.4991 ppm	0.9404 ppm	91.4717 ppm	0.4837 ppm	0.5276 ppm	0.3469 ppm
Concentration per Run 2	20.0949 ppm	0.4978 ppm	0.9516 ppm	92.0510 ppm	0.4830 ppm	0.5263 ppm	0.3579 ppm
Concentration per Run 3	20.1064 ppm	0.4969 ppm	0.9697 ppm	91.8749 ppm	0.4827 ppm	0.5313 ppm	0.3733 ppm
Concentration RSD	0.1 %	0.2 %	1.5 %	0.3 %	0.1 %	0.5 %	3.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1220 ppm	7.7845 ppm	0.9710 ppm	1.2270 ppm	1.0288 ppm	0.1200 ppm	0.5030 ppm
Concentration per Run 1	0.1225 ppm	7.7745 ppm	0.9682 ppm	1.2246 ppm	1.0329 ppm	0.1193 ppm	0.5030 ppm
Concentration per Run 2	0.1213 ppm	7.7733 ppm	0.9736 ppm	1.2289 ppm	1.0312 ppm	0.1215 ppm	0.5011 ppm
Concentration per Run 3	0.1222 ppm	7.8058 ppm	0.9713 ppm	1.2273 ppm	1.0222 ppm	0.1192 ppm	0.5048 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %	0.2 %	0.6 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5495 ppm	102.3566 %	102.9033 %	96.6009 %	99.9497 %	101.6251 %	99.9300 %
Concentration per Run 1	0.5519 ppm	101.8546 %	104.4856 %	96.7921 %	99.5079 %	103.1163 %	99.8856 %
Concentration per Run 2	0.5487 ppm	102.5342 %	102.3309 %	96.7184 %	99.9592 %	101.2127 %	100.0463 %
Concentration per Run 3	0.5479 ppm	102.6812 %	101.8935 %	96.2921 %	100.3820 %	100.5464 %	99.8582 %
Concentration RSD	0.4 %	0.4 %	1.3 %	0.3 %	0.4 %	1.3 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-10D5 WG1974865
Analysis started at: 9/24/2024 11:26:17 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0005 ppm	0.0019 ppm	0.0109 ppm	0.0015 ppm	0.0000 ppm	14.8618 ppm
Concentration per Run 1	0.0001 ppm	-0.0041 ppm	0.0004 ppm	0.0097 ppm	0.0016 ppm	0.0000 ppm	14.8342 ppm
Concentration per Run 2	0.0008 ppm	0.0013 ppm	0.0017 ppm	0.0119 ppm	0.0015 ppm	0.0000 ppm	14.8611 ppm
Concentration per Run 3	-0.0003 ppm	0.0044 ppm	0.0036 ppm	0.0111 ppm	0.0016 ppm	0.0000 ppm	14.8900 ppm
Concentration RSD	260.5 %	832.6 %	82.7 %	10.6 %	3.9 %	690.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0191 ppm	0.0053 ppm	0.3776 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0192 ppm	0.0050 ppm	0.3907 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0190 ppm	0.0077 ppm	0.3635 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	-0.0009 ppm	-0.0003 ppm	0.0191 ppm	0.0031 ppm	0.3788 ppm	-0.0003 ppm
Concentration RSD	1,627.2 %	42.5 %	269.1 %	0.7 %	43.0 %	3.6 %	120.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1195 ppm	0.0003 ppm	0.0047 ppm	16.6188 ppm	0.0000 ppm	-0.0002 ppm	0.0105 ppm
Concentration per Run 1	2.1184 ppm	0.0003 ppm	0.0053 ppm	16.5533 ppm	0.0000 ppm	0.0001 ppm	0.0118 ppm
Concentration per Run 2	2.1221 ppm	0.0007 ppm	0.0046 ppm	16.6401 ppm	-0.0005 ppm	-0.0007 ppm	0.0105 ppm
Concentration per Run 3	2.1179 ppm	0.0001 ppm	0.0042 ppm	16.6631 ppm	0.0003 ppm	0.0001 ppm	0.0092 ppm
Concentration RSD	0.1 %	91.0 %	12.4 %	0.3 %	884.5 %	251.0 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	1.3367 ppm	0.0139 ppm	0.0483 ppm	0.0009 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	1.3327 ppm	0.0150 ppm	0.0482 ppm	0.0007 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 2	-0.0048 ppm	1.3377 ppm	0.0134 ppm	0.0482 ppm	0.0006 ppm	0.0027 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	1.3398 ppm	0.0132 ppm	0.0484 ppm	0.0013 ppm	0.0013 ppm	0.0000 ppm
Concentration RSD	164.2 %	0.3 %	7.3 %	0.2 %	46.9 %	47.3 %	77.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0091 ppm	105.5544 %	103.5405 %	102.5020 %	103.2025 %	102.3139 %	103.1347 %
Concentration per Run 1	0.0088 ppm	104.6716 %	103.9433 %	102.6298 %	102.8009 %	102.7875 %	103.4096 %
Concentration per Run 2	0.0093 ppm	105.9506 %	102.8629 %	102.8614 %	103.5230 %	101.5967 %	103.8601 %
Concentration per Run 3	0.0091 ppm	106.0408 %	103.8154 %	102.0147 %	103.2835 %	102.5575 %	102.1344 %
Concentration RSD	2.9 %	0.7 %	0.6 %	0.4 %	0.4 %	0.6 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:30:11 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5025 ppm	0.4766 ppm	0.4749 ppm	0.4899 ppm	0.4864 ppm	0.5007 ppm	0.4820 ppm
Concentration per Run 1	0.5019 ppm	0.4687 ppm	0.4754 ppm	0.4925 ppm	0.4883 ppm	0.5014 ppm	0.4841 ppm
Concentration per Run 2	0.5037 ppm	0.4654 ppm	0.4767 ppm	0.4932 ppm	0.4880 ppm	0.5013 ppm	0.4829 ppm
Concentration per Run 3	0.5019 ppm	0.4958 ppm	0.4725 ppm	0.4838 ppm	0.4831 ppm	0.4993 ppm	0.4791 ppm
Recovery Percentage 1	100.500 %	95.326 %	94.975 %	97.973 %	97.289 %	100.131 %	96.402 %
Concentration RSD	0.2 %	3.5 %	0.5 %	1.1 %	0.6 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4930 ppm	0.5035 ppm	0.4815 ppm	0.4856 ppm	0.4938 ppm	5.0857 ppm	0.4831 ppm
Concentration per Run 1	0.4931 ppm	0.5048 ppm	0.4812 ppm	0.4874 ppm	0.4947 ppm	5.1207 ppm	0.4822 ppm
Concentration per Run 2	0.4993 ppm	0.5072 ppm	0.4819 ppm	0.4873 ppm	0.4964 ppm	5.0799 ppm	0.4847 ppm
Concentration per Run 3	0.4866 ppm	0.4986 ppm	0.4813 ppm	0.4822 ppm	0.4904 ppm	5.0564 ppm	0.4824 ppm
Recovery Percentage 1	98.598 %	100.709 %	96.296 %	97.125 %	98.761 %	101.714 %	96.625 %
Concentration RSD	1.3 %	0.9 %	0.1 %	0.6 %	0.6 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4822 ppm	0.4792 ppm	0.4835 ppm	9.7656 ppm	0.5011 ppm	0.4883 ppm	0.5063 ppm
Concentration per Run 1	0.4809 ppm	0.4786 ppm	0.4817 ppm	9.7286 ppm	0.5020 ppm	0.4884 ppm	0.5099 ppm
Concentration per Run 2	0.4834 ppm	0.4796 ppm	0.4863 ppm	9.7561 ppm	0.5028 ppm	0.4879 ppm	0.4995 ppm
Concentration per Run 3	0.4822 ppm	0.4792 ppm	0.4823 ppm	9.8121 ppm	0.4984 ppm	0.4887 ppm	0.5096 ppm
Recovery Percentage 1	96.437 %	95.836 %	96.690 %	97.656 %	100.218 %	97.668 %	101.269 %
Concentration RSD	0.3 %	0.1 %	0.5 %	0.4 %	0.5 %	0.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4861 ppm	5.2412 ppm	0.4802 ppm	0.4660 ppm	0.4921 ppm	0.4905 ppm	0.4780 ppm
Concentration per Run 1	0.4884 ppm	5.2323 ppm	0.4806 ppm	0.4673 ppm	0.4912 ppm	0.4875 ppm	0.4764 ppm
Concentration per Run 2	0.4849 ppm	5.2672 ppm	0.4816 ppm	0.4670 ppm	0.4939 ppm	0.4904 ppm	0.4805 ppm
Concentration per Run 3	0.4850 ppm	5.2242 ppm	0.4785 ppm	0.4637 ppm	0.4914 ppm	0.4935 ppm	0.4771 ppm
Recovery Percentage 1	97.227 %	99.833 %	96.046 %	93.197 %	98.430 %	98.092 %	95.597 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	0.3 %	0.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4979 ppm	104.3482 %	104.1782 %	104.4863 %	101.8045 %	103.0317 %	104.2978 %
Concentration per Run 1	0.4988 ppm	103.7997 %	104.2610 %	103.9831 %	101.3356 %	103.0698 %	103.9451 %
Concentration per Run 2	0.4984 ppm	104.0561 %	104.1594 %	104.9340 %	101.6458 %	102.7998 %	104.7256 %
Concentration per Run 3	0.4965 ppm	105.1887 %	104.1143 %	104.5419 %	102.4319 %	103.2257 %	104.2228 %
Recovery Percentage 1	99.583 %						
Concentration RSD	0.2 %	0.7 %	0.1 %	0.5 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:34:05 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0022 ppm	0.0035 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	0.0007 ppm	0.0055 ppm	0.0054 ppm	0.0029 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0004 ppm	-0.0094 ppm	0.0032 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0106 ppm	0.0020 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0035 ppm
Recovery Percentage 1	7.719 %	2.227 %	70.922 %	3.270 %	-1.477 %	0.304 %	-1.612 %
Concentration RSD	22.5 %	466.9 %	48.2 %	198.7 %	41.1 %	2.7 %	108.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0042 ppm	-0.0168 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0004 ppm	0.0028 ppm	-0.0273 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	-0.0009 ppm	0.0001 ppm	-0.0002 ppm	0.0058 ppm	-0.0173 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0038 ppm	-0.0058 ppm	-0.0003 ppm
Recovery Percentage 1	2.363 %	-1.658 %	-1.421 %	-1.059 %	8.337 %	-0.672 %	12.934 %
Concentration RSD	89.8 %	158.0 %	173.0 %	306.2 %	36.8 %	64.3 %	133.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0003 ppm	-0.0002 ppm	0.0046 ppm
Concentration per Run 1	-0.0025 ppm	0.0000 ppm	0.0015 ppm	-0.0073 ppm	0.0005 ppm	-0.0001 ppm	0.0052 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0023 ppm	0.0001 ppm	-0.0005 ppm	0.0068 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0026 ppm	0.0072 ppm	0.0004 ppm	0.0001 ppm	0.0019 ppm
Recovery Percentage 1	-0.864 %	0.739 %	3.760 %	0.037 %	1.371 %	-1.742 %	9.256 %
Concentration RSD	164.2 %	136.1 %	32.7 %	987.0 %	75.0 %	166.5 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0022 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 1	-0.0036 ppm	-0.0032 ppm	0.0009 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0013 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	-0.0036 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0023 ppm	-0.0002 ppm
Recovery Percentage 1	-6.172 %	-0.449 %	1.477 %	1.364 %	4.042 %	5.634 %	-3.084 %
Concentration RSD	420.7 %	86.4 %	91.9 %	135.1 %	50.2 %	108.8 %	60.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	103.9729 %	102.3176 %	103.9246 %	103.3155 %	102.5747 %	104.3243 %
Concentration per Run 1	-0.0016 ppm	103.8040 %	102.4372 %	103.8137 %	103.0088 %	102.5446 %	104.4234 %
Concentration per Run 2	-0.0014 ppm	103.4255 %	102.2807 %	103.2362 %	102.9548 %	102.5728 %	103.6715 %
Concentration per Run 3	-0.0017 ppm	104.6893 %	102.2347 %	104.7238 %	103.9828 %	102.6069 %	104.8782 %
Recovery Percentage 1	-31.477 %						
Concentration RSD	10.2 %	0.6 %	0.1 %	0.7 %	0.6 %	0.0 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-1 WG1975353
Analysis started at: 9/24/2024 11:39:09 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0154 ppm	0.0023 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 1	-0.0001 ppm	0.0115 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	0.0008 ppm	0.0238 ppm	0.0025 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0173 ppm
Concentration per Run 3	0.0008 ppm	0.0110 ppm	0.0032 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0137 ppm
Recovery Percentage 1	6.916 %	15.445 %	46.194 %	3.114 %	-0.875 %	-0.503 %	13.422 %
Concentration RSD	103.1 %	46.6 %	45.3 %	98.6 %	91.7 %	168.8 %	30.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0176 ppm	0.0092 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0171 ppm	-0.0063 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	-0.0003 ppm	0.0191 ppm	0.0301 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm	0.0167 ppm	0.0040 ppm	0.0014 ppm
Recovery Percentage 1	0.345 %	-0.391 %	-6.927 %	-2.158 %	35.266 %	0.370 %	13.734 %
Concentration RSD	231.0 %	350.4 %	29.5 %	23.8 %	7.2 %	203.2 %	102.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0022 ppm	0.0002 ppm	0.0002 ppm	0.0075 ppm	-0.0004 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	0.0031 ppm	0.0005 ppm	0.0002 ppm	0.0047 ppm	-0.0006 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 2	0.0029 ppm	0.0003 ppm	0.0004 ppm	0.0120 ppm	-0.0002 ppm	-0.0002 ppm	-0.0028 ppm
Concentration per Run 3	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0058 ppm	-0.0003 ppm	-0.0006 ppm	0.0022 ppm
Recovery Percentage 1	2.194 %	2.468 %	0.395 %	0.374 %	-1.503 %	-1.687 %	-1.134 %
Concentration RSD	63.3 %	114.2 %	130.4 %	52.6 %	60.9 %	268.1 %	446.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0035 ppm	-0.0010 ppm	0.0003 ppm	0.0005 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0022 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.0035 ppm	-0.0007 ppm	0.0003 ppm	0.0003 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0031 ppm	0.0048 ppm	-0.0021 ppm	0.0002 ppm	0.0006 ppm	-0.0015 ppm	-0.0004 ppm
Recovery Percentage 1	-12.326 %	0.700 %	-1.977 %	2.671 %	4.802 %	-1.798 %	-2.229 %
Concentration RSD	150.6 %	37.0 %	98.4 %	18.2 %	27.9 %	395.0 %	67.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	106.8600 %	107.6036 %	105.3138 %	104.7432 %	107.1916 %	105.6307 %
Concentration per Run 1	0.0000 ppm	107.0069 %	107.8828 %	105.3541 %	104.4833 %	107.5884 %	105.6169 %
Concentration per Run 2	-0.0004 ppm	107.6066 %	107.9326 %	105.4208 %	105.5846 %	107.4659 %	105.5150 %
Concentration per Run 3	-0.0001 ppm	105.9666 %	106.9954 %	105.1664 %	104.1618 %	106.5204 %	105.7601 %
Recovery Percentage 1	-3.708 %						
Concentration RSD	109.1 %	0.8 %	0.5 %	0.1 %	0.7 %	0.5 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-2D2 WG1975353
Analysis started at: 9/24/2024 11:43:11 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0543 ppm	2.0175 ppm	0.1283 ppm	1.0478 ppm	2.0379 ppm	0.0524 ppm	10.2822 ppm
Concentration per Run 1	0.0546 ppm	2.0402 ppm	0.1284 ppm	1.0511 ppm	2.0557 ppm	0.0527 ppm	10.3371 ppm
Concentration per Run 2	0.0541 ppm	1.9992 ppm	0.1295 ppm	1.0444 ppm	2.0363 ppm	0.0524 ppm	10.2773 ppm
Concentration per Run 3	0.0541 ppm	2.0131 ppm	0.1270 ppm	1.0479 ppm	2.0216 ppm	0.0522 ppm	10.2323 ppm
Concentration RSD	0.6 %	1.0 %	1.0 %	0.3 %	0.8 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5360 ppm	0.2098 ppm	0.2684 ppm	1.0581 ppm	10.5153 ppm	0.0009 ppm
Concentration per Run 1	0.0559 ppm	0.5390 ppm	0.2097 ppm	0.2706 ppm	1.0655 ppm	10.6042 ppm	0.0015 ppm
Concentration per Run 2	0.0550 ppm	0.5337 ppm	0.2108 ppm	0.2679 ppm	1.0573 ppm	10.4902 ppm	0.0006 ppm
Concentration per Run 3	0.0556 ppm	0.5355 ppm	0.2088 ppm	0.2666 ppm	1.0515 ppm	10.4514 ppm	0.0006 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %	0.8 %	0.7 %	0.8 %	60.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6428 ppm	0.5178 ppm	1.0646 ppm	10.3753 ppm	0.5365 ppm	0.5607 ppm	0.5403 ppm
Concentration per Run 1	10.6780 ppm	0.5208 ppm	1.0604 ppm	10.4804 ppm	0.5364 ppm	0.5601 ppm	0.5431 ppm
Concentration per Run 2	10.6638 ppm	0.5167 ppm	1.0653 ppm	10.3848 ppm	0.5370 ppm	0.5602 ppm	0.5455 ppm
Concentration per Run 3	10.5867 ppm	0.5158 ppm	1.0680 ppm	10.2608 ppm	0.5363 ppm	0.5617 ppm	0.5322 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	1.1 %	0.1 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1250 ppm	0.7722 ppm	1.0326 ppm	0.9842 ppm	1.0690 ppm	0.1271 ppm	0.5334 ppm
Concentration per Run 1	0.1249 ppm	0.7765 ppm	1.0336 ppm	0.9908 ppm	1.0697 ppm	0.1274 ppm	0.5347 ppm
Concentration per Run 2	0.1198 ppm	0.7776 ppm	1.0271 ppm	0.9843 ppm	1.0684 ppm	0.1254 ppm	0.5320 ppm
Concentration per Run 3	0.1302 ppm	0.7625 ppm	1.0371 ppm	0.9776 ppm	1.0689 ppm	0.1284 ppm	0.5334 ppm
Concentration RSD	4.2 %	1.1 %	0.5 %	0.7 %	0.1 %	1.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5334 ppm	105.5219 %	106.0521 %	103.6399 %	102.9445 %	105.0557 %	103.9798 %
Concentration per Run 1	0.5332 ppm	106.2447 %	105.8413 %	103.5737 %	103.6779 %	104.8625 %	103.6679 %
Concentration per Run 2	0.5325 ppm	105.2849 %	106.7891 %	104.3200 %	102.5083 %	105.6843 %	105.0346 %
Concentration per Run 3	0.5343 ppm	105.0360 %	105.5259 %	103.0260 %	102.6474 %	104.6202 %	103.2370 %
Concentration RSD	0.2 %	0.6 %	0.6 %	0.6 %	0.6 %	0.5 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454601-01 WG1975349
Analysis started at: 9/24/2024 11:47:04 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0733 ppm	0.0058 ppm	0.0074 ppm	0.0079 ppm	0.0000 ppm	2.9383 ppm
Concentration per Run 1	0.0009 ppm	0.0705 ppm	0.0059 ppm	0.0081 ppm	0.0080 ppm	0.0000 ppm	2.9515 ppm
Concentration per Run 2	0.0005 ppm	0.0802 ppm	0.0058 ppm	0.0058 ppm	0.0079 ppm	0.0000 ppm	2.9392 ppm
Concentration per Run 3	0.0006 ppm	0.0692 ppm	0.0056 ppm	0.0083 ppm	0.0078 ppm	0.0000 ppm	2.9241 ppm
Concentration RSD	26.6 %	8.2 %	2.4 %	18.7 %	1.1 %	1,050.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0190 ppm	0.1158 ppm	0.7576 ppm	0.0016 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	0.0186 ppm	0.1178 ppm	0.7900 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0013 ppm	0.0001 ppm	0.0195 ppm	0.1139 ppm	0.7373 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0189 ppm	0.1157 ppm	0.7454 ppm	0.0013 ppm
Concentration RSD	93.3 %	89.7 %	530.9 %	2.5 %	1.7 %	3.7 %	48.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2176 ppm	0.0048 ppm	0.0042 ppm	4.0883 ppm	0.0008 ppm	0.0037 ppm	0.0093 ppm
Concentration per Run 1	0.2171 ppm	0.0048 ppm	0.0055 ppm	4.1032 ppm	0.0011 ppm	0.0044 ppm	0.0070 ppm
Concentration per Run 2	0.2178 ppm	0.0049 ppm	0.0039 ppm	4.1013 ppm	0.0007 ppm	0.0041 ppm	0.0104 ppm
Concentration per Run 3	0.2179 ppm	0.0047 ppm	0.0033 ppm	4.0604 ppm	0.0008 ppm	0.0025 ppm	0.0106 ppm
Concentration RSD	0.2 %	1.9 %	27.2 %	0.6 %	24.0 %	28.5 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.3119 ppm	0.0198 ppm	0.0074 ppm	0.0039 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 1	-0.0020 ppm	0.3089 ppm	0.0207 ppm	0.0074 ppm	0.0038 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.3115 ppm	0.0209 ppm	0.0074 ppm	0.0043 ppm	-0.0032 ppm	-0.0002 ppm
Concentration per Run 3	0.0017 ppm	0.3152 ppm	0.0177 ppm	0.0073 ppm	0.0037 ppm	-0.0003 ppm	-0.0002 ppm
Concentration RSD	915.8 %	1.0 %	9.1 %	0.6 %	8.1 %	80.8 %	133.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0563 ppm	111.6294 %	111.9328 %	105.7730 %	108.9858 %	111.0638 %	107.5580 %
Concentration per Run 1	0.0565 ppm	111.5675 %	111.2639 %	106.4526 %	109.0457 %	110.7400 %	107.9475 %
Concentration per Run 2	0.0557 ppm	111.9947 %	112.0464 %	105.2969 %	109.4543 %	111.1377 %	107.2266 %
Concentration per Run 3	0.0568 ppm	111.3261 %	112.4881 %	105.5697 %	108.4575 %	111.3137 %	107.4998 %
Concentration RSD	1.0 %	0.3 %	0.6 %	0.6 %	0.5 %	0.3 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453255-01 WG1974865
Analysis started at: 9/24/2024 11:50:57 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2127 ppm	-0.0001 ppm	0.0193 ppm	0.0188 ppm	0.0000 ppm	33.5583 ppm
Concentration per Run 1	0.0004 ppm	0.2066 ppm	0.0016 ppm	0.0194 ppm	0.0190 ppm	-0.0001 ppm	33.6184 ppm
Concentration per Run 2	0.0004 ppm	0.2227 ppm	-0.0001 ppm	0.0189 ppm	0.0188 ppm	0.0000 ppm	33.5983 ppm
Concentration per Run 3	-0.0004 ppm	0.2088 ppm	-0.0019 ppm	0.0197 ppm	0.0187 ppm	0.0000 ppm	33.4583 ppm
Concentration RSD	319.7 %	4.1 %	1,550.4 %	2.1 %	0.7 %	403.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	0.0031 ppm	1.4358 ppm	0.0028 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	-0.0012 ppm	0.0006 ppm	0.0014 ppm	1.4609 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0014 ppm	0.0006 ppm	0.0029 ppm	1.4344 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0050 ppm	1.4120 ppm	0.0023 ppm
Concentration RSD	226.4 %	505.6 %	55.2 %	6.2 %	58.8 %	1.7 %	16.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5371 ppm	0.0007 ppm	0.0011 ppm	9.5463 ppm	0.0006 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 1	8.5351 ppm	0.0006 ppm	0.0007 ppm	9.5264 ppm	-0.0001 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 2	8.5246 ppm	0.0009 ppm	0.0010 ppm	9.5584 ppm	0.0007 ppm	0.0009 ppm	-0.0044 ppm
Concentration per Run 3	8.5515 ppm	0.0007 ppm	0.0015 ppm	9.5541 ppm	0.0011 ppm	-0.0003 ppm	0.0018 ppm
Concentration RSD	0.2 %	24.3 %	37.1 %	0.2 %	108.2 %	257.5 %	176.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0049 ppm	0.3562 ppm	-0.0030 ppm	0.1506 ppm	0.0006 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 1	-0.0049 ppm	0.3583 ppm	-0.0034 ppm	0.1505 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 2	-0.0056 ppm	0.3565 ppm	-0.0023 ppm	0.1507 ppm	0.0008 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0043 ppm	0.3539 ppm	-0.0033 ppm	0.1505 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm
Concentration RSD	12.7 %	0.6 %	20.6 %	0.1 %	58.4 %	85.2 %	60.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.9807 %	102.9901 %	102.1659 %	101.8893 %	102.7332 %	103.1369 %
Concentration per Run 1	0.0015 ppm	102.8002 %	103.2336 %	102.3085 %	102.4631 %	103.2923 %	103.2265 %
Concentration per Run 2	0.0018 ppm	104.0928 %	102.6925 %	101.5409 %	102.9868 %	102.2763 %	102.6212 %
Concentration per Run 3	0.0016 ppm	102.0490 %	103.0442 %	102.6482 %	100.2181 %	102.6311 %	103.5630 %
Concentration RSD	8.5 %	1.0 %	0.3 %	0.6 %	1.4 %	0.5 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-04 WG1974865
Analysis started at: 9/24/2024 11:54:52 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0047 ppm	0.0024 ppm	0.0513 ppm	0.0555 ppm	0.0000 ppm	60.2960 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	0.0031 ppm	0.0495 ppm	0.0561 ppm	-0.0001 ppm	60.5621 ppm
Concentration per Run 2	0.0002 ppm	-0.0207 ppm	0.0022 ppm	0.0525 ppm	0.0551 ppm	0.0000 ppm	60.2522 ppm
Concentration per Run 3	0.0007 ppm	0.0047 ppm	0.0020 ppm	0.0518 ppm	0.0551 ppm	0.0000 ppm	60.0737 ppm
Concentration RSD	52.0 %	300.1 %	24.7 %	3.1 %	1.0 %	195.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	-0.0009 ppm	0.0055 ppm	0.1590 ppm	0.8251 ppm	0.0472 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	-0.0014 ppm	0.0056 ppm	0.1596 ppm	0.8413 ppm	0.0479 ppm
Concentration per Run 2	-0.0003 ppm	0.0007 ppm	-0.0006 ppm	0.0055 ppm	0.1569 ppm	0.8388 ppm	0.0468 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0007 ppm	0.0053 ppm	0.1604 ppm	0.7953 ppm	0.0468 ppm
Concentration RSD	12.3 %	520.9 %	48.1 %	2.3 %	1.2 %	3.1 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5403 ppm	0.1495 ppm	0.0013 ppm	25.4293 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	8.5681 ppm	0.1488 ppm	0.0011 ppm	25.5373 ppm	-0.0005 ppm	0.0013 ppm	0.0051 ppm
Concentration per Run 2	8.5604 ppm	0.1504 ppm	0.0014 ppm	25.3518 ppm	0.0000 ppm	-0.0004 ppm	-0.0029 ppm
Concentration per Run 3	8.4924 ppm	0.1492 ppm	0.0014 ppm	25.3990 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	0.5 %	0.5 %	13.5 %	0.4 %	116.5 %	254.6 %	326.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	5.4710 ppm	-0.0034 ppm	0.2720 ppm	0.0006 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0021 ppm	5.5221 ppm	-0.0027 ppm	0.2736 ppm	0.0005 ppm	0.0021 ppm	-0.0002 ppm
Concentration per Run 2	0.0008 ppm	5.4729 ppm	-0.0045 ppm	0.2715 ppm	0.0006 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0037 ppm	5.4179 ppm	-0.0029 ppm	0.2709 ppm	0.0008 ppm	0.0004 ppm	-0.0003 ppm
Concentration RSD	135.7 %	1.0 %	30.3 %	0.5 %	27.9 %	107.1 %	31.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	102.5053 %	103.0561 %	99.5311 %	101.2703 %	102.9196 %	102.1004 %
Concentration per Run 1	0.0052 ppm	101.9680 %	102.1478 %	99.3683 %	101.2355 %	101.9869 %	102.0095 %
Concentration per Run 2	0.0052 ppm	103.0019 %	103.0511 %	99.0270 %	101.7097 %	103.0342 %	101.8267 %
Concentration per Run 3	0.0051 ppm	102.5460 %	103.9694 %	100.1981 %	100.8657 %	103.7375 %	102.4650 %
Concentration RSD	1.2 %	0.5 %	0.9 %	0.6 %	0.4 %	0.9 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-05 WG1974865
Analysis started at: 9/24/2024 11:58:45 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0037 ppm	0.0018 ppm	0.0051 ppm	0.0071 ppm	0.0000 ppm	24.6559 ppm
Concentration per Run 1	0.0008 ppm	0.0108 ppm	0.0042 ppm	0.0048 ppm	0.0072 ppm	0.0000 ppm	24.6354 ppm
Concentration per Run 2	0.0005 ppm	0.0017 ppm	-0.0005 ppm	0.0060 ppm	0.0070 ppm	0.0000 ppm	24.5394 ppm
Concentration per Run 3	-0.0003 ppm	-0.0013 ppm	0.0018 ppm	0.0046 ppm	0.0070 ppm	0.0000 ppm	24.7929 ppm
Concentration RSD	167.4 %	169.9 %	131.0 %	14.6 %	1.9 %	253.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.2010 ppm	0.0046 ppm	1.1588 ppm	0.0052 ppm
Concentration per Run 1	-0.0002 ppm	-0.0004 ppm	-0.0010 ppm	0.2017 ppm	0.0047 ppm	1.1601 ppm	0.0070 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	-0.0009 ppm	0.2011 ppm	0.0048 ppm	1.1380 ppm	0.0049 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	-0.0005 ppm	0.2000 ppm	0.0044 ppm	1.1782 ppm	0.0037 ppm
Concentration RSD	146.6 %	1,161.4 %	35.7 %	0.4 %	3.8 %	1.7 %	32.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9856 ppm	0.0020 ppm	0.0000 ppm	2.7075 ppm	0.0002 ppm	-0.0002 ppm	-0.0012 ppm
Concentration per Run 1	1.9959 ppm	0.0018 ppm	0.0001 ppm	2.7239 ppm	0.0008 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 2	1.9792 ppm	0.0021 ppm	-0.0002 ppm	2.6641 ppm	-0.0005 ppm	-0.0004 ppm	-0.0015 ppm
Concentration per Run 3	1.9816 ppm	0.0020 ppm	0.0001 ppm	2.7347 ppm	0.0002 ppm	0.0003 ppm	-0.0011 ppm
Concentration RSD	0.5 %	8.0 %	4,051.2 %	1.4 %	375.7 %	220.2 %	24.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	4.8230 ppm	-0.0029 ppm	0.0874 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0061 ppm	4.8489 ppm	-0.0019 ppm	0.0879 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	-0.0031 ppm	4.8123 ppm	-0.0027 ppm	0.0863 ppm	0.0005 ppm	0.0013 ppm	-0.0002 ppm
Concentration per Run 3	-0.0023 ppm	4.8077 ppm	-0.0041 ppm	0.0880 ppm	0.0004 ppm	-0.0011 ppm	-0.0002 ppm
Concentration RSD	52.1 %	0.5 %	37.2 %	1.1 %	20.5 %	5,800.9 %	23.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0282 ppm	104.2573 %	104.5024 %	103.1735 %	103.1031 %	104.0780 %	104.1064 %
Concentration per Run 1	0.0284 ppm	103.6234 %	104.0662 %	103.3825 %	102.8764 %	103.2984 %	104.6188 %
Concentration per Run 2	0.0284 ppm	104.9959 %	105.5239 %	103.5742 %	103.8038 %	105.5218 %	104.3133 %
Concentration per Run 3	0.0278 ppm	104.1527 %	103.9172 %	102.5638 %	102.6293 %	103.4138 %	103.3869 %
Concentration RSD	1.3 %	0.7 %	0.8 %	0.5 %	0.6 %	1.2 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-06 WG1974865
Analysis started at: 9/24/2024 12:02:39 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0054 ppm	0.0022 ppm	0.0072 ppm	0.0120 ppm	0.0000 ppm	45.5378 ppm
Concentration per Run 1	0.0008 ppm	-0.0109 ppm	0.0011 ppm	0.0082 ppm	0.0122 ppm	0.0000 ppm	45.5387 ppm
Concentration per Run 2	0.0005 ppm	0.0018 ppm	0.0031 ppm	0.0064 ppm	0.0119 ppm	0.0000 ppm	45.3007 ppm
Concentration per Run 3	0.0000 ppm	-0.0071 ppm	0.0024 ppm	0.0069 ppm	0.0120 ppm	0.0000 ppm	45.7739 ppm
Concentration RSD	99.5 %	120.9 %	44.7 %	13.0 %	1.4 %	303.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0180 ppm	0.1235 ppm	0.5850 ppm	0.0208 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0182 ppm	0.1258 ppm	0.6006 ppm	0.0207 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0180 ppm	0.1201 ppm	0.5691 ppm	0.0201 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	0.0178 ppm	0.1247 ppm	0.5852 ppm	0.0217 ppm
Concentration RSD	127.8 %	89.0 %	36.9 %	1.2 %	2.5 %	2.7 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6909 ppm	0.0002 ppm	0.0005 ppm	3.3187 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 1	5.7002 ppm	0.0005 ppm	0.0004 ppm	3.3266 ppm	0.0001 ppm	0.0020 ppm	0.0004 ppm
Concentration per Run 2	5.6983 ppm	0.0000 ppm	0.0005 ppm	3.3040 ppm	-0.0005 ppm	0.0009 ppm	-0.0047 ppm
Concentration per Run 3	5.6743 ppm	0.0002 ppm	0.0005 ppm	3.3256 ppm	0.0003 ppm	0.0014 ppm	0.0052 ppm
Concentration RSD	0.3 %	90.6 %	17.6 %	0.4 %	1,132.2 %	38.5 %	1,586.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	5.3344 ppm	-0.0023 ppm	0.1840 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0025 ppm	5.3430 ppm	-0.0034 ppm	0.1846 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	5.3302 ppm	-0.0027 ppm	0.1835 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0020 ppm	5.3300 ppm	-0.0009 ppm	0.1840 ppm	0.0000 ppm	0.0012 ppm	-0.0002 ppm
Concentration RSD	1,800.9 %	0.1 %	53.7 %	0.3 %	81.6 %	216.9 %	15,361.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0025 ppm	102.5789 %	102.6595 %	100.6866 %	101.4925 %	102.2772 %	102.2418 %
Concentration per Run 1	0.0026 ppm	102.0889 %	102.5010 %	101.4551 %	101.4396 %	102.0166 %	102.5104 %
Concentration per Run 2	0.0026 ppm	102.4149 %	103.7010 %	100.3245 %	101.2482 %	103.2008 %	102.1559 %
Concentration per Run 3	0.0024 ppm	103.2329 %	101.7765 %	100.2801 %	101.7897 %	101.6141 %	102.0590 %
Concentration RSD	3.3 %	0.6 %	0.9 %	0.7 %	0.3 %	0.8 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-01D2 WG1975353
Analysis started at: 9/24/2024 12:06:33 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	76.5893 ppm	0.0568 ppm	0.0036 ppm	0.4303 ppm	0.0037 ppm	4.9185 ppm
Concentration per Run 1	0.0015 ppm	76.6655 ppm	0.0559 ppm	0.0023 ppm	0.4298 ppm	0.0036 ppm	4.9325 ppm
Concentration per Run 2	0.0017 ppm	76.6565 ppm	0.0557 ppm	0.0035 ppm	0.4319 ppm	0.0037 ppm	4.9126 ppm
Concentration per Run 3	0.0019 ppm	76.4458 ppm	0.0587 ppm	0.0051 ppm	0.4292 ppm	0.0037 ppm	4.9103 ppm
Concentration RSD	10.4 %	0.2 %	2.9 %	38.9 %	0.3 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0757 ppm	0.0892 ppm	0.1152 ppm	190.2457 ppm	3.2267 ppm	0.1764 ppm
Concentration per Run 1	0.0009 ppm	0.0745 ppm	0.0888 ppm	0.1144 ppm	190.7215 ppm	3.2334 ppm	0.1756 ppm
Concentration per Run 2	0.0012 ppm	0.0772 ppm	0.0903 ppm	0.1151 ppm	190.4715 ppm	3.2537 ppm	0.1785 ppm
Concentration per Run 3	0.0010 ppm	0.0754 ppm	0.0886 ppm	0.1160 ppm	189.5441 ppm	3.1930 ppm	0.1751 ppm
Concentration RSD	12.9 %	1.9 %	1.0 %	0.7 %	0.3 %	1.0 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.4096 ppm	8.0673 ppm	0.0005 ppm	0.1767 ppm	0.1406 ppm	0.1007 ppm	0.0050 ppm
Concentration per Run 1	23.2949 ppm	8.1004 ppm	0.0002 ppm	0.1802 ppm	0.1401 ppm	0.1009 ppm	0.0051 ppm
Concentration per Run 2	23.5418 ppm	8.0495 ppm	0.0000 ppm	0.1769 ppm	0.1422 ppm	0.1016 ppm	0.0055 ppm
Concentration per Run 3	23.3921 ppm	8.0522 ppm	0.0013 ppm	0.1728 ppm	0.1395 ppm	0.0995 ppm	0.0046 ppm
Concentration RSD	0.5 %	0.4 %	134.8 %	2.1 %	1.0 %	1.0 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	11.9917 ppm	-0.0002 ppm	0.0484 ppm	0.4687 ppm	0.0026 ppm	0.0997 ppm
Concentration per Run 1	0.0043 ppm	12.3107 ppm	0.0008 ppm	0.0481 ppm	0.4618 ppm	0.0025 ppm	0.1000 ppm
Concentration per Run 2	0.0004 ppm	11.9730 ppm	-0.0006 ppm	0.0481 ppm	0.4884 ppm	0.0012 ppm	0.0995 ppm
Concentration per Run 3	-0.0059 ppm	11.6913 ppm	-0.0008 ppm	0.0489 ppm	0.4558 ppm	0.0041 ppm	0.0994 ppm
Concentration RSD	1,298.2 %	2.6 %	410.4 %	0.9 %	3.7 %	54.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3995 ppm	106.8894 %	108.3229 %	100.2167 %	115.7785 %	120.0397 %	118.1370 %
Concentration per Run 1	0.3986 ppm	107.8176 %	108.8098 %	100.3225 %	116.9656 %	120.6931 %	118.3617 %
Concentration per Run 2	0.4035 ppm	106.2690 %	107.5156 %	99.8440 %	114.8150 %	119.0837 %	117.6785 %
Concentration per Run 3	0.3964 ppm	106.5817 %	108.6433 %	100.4837 %	115.5549 %	120.3422 %	118.3710 %
Concentration RSD	0.9 %	0.8 %	0.6 %	0.3 %	0.9 %	0.7 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-02D2 WG1975353
Analysis started at: 9/24/2024 12:10:28 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	46.1660 ppm	0.0381 ppm	0.0039 ppm	0.2915 ppm	0.0024 ppm	3.6905 ppm
Concentration per Run 1	0.0006 ppm	46.1700 ppm	0.0392 ppm	0.0047 ppm	0.2910 ppm	0.0025 ppm	3.6811 ppm
Concentration per Run 2	0.0007 ppm	46.1778 ppm	0.0395 ppm	0.0031 ppm	0.2915 ppm	0.0024 ppm	3.6867 ppm
Concentration per Run 3	0.0020 ppm	46.1502 ppm	0.0356 ppm	0.0039 ppm	0.2920 ppm	0.0024 ppm	3.7038 ppm
Concentration RSD	72.7 %	0.0 %	5.6 %	20.1 %	0.2 %	2.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0441 ppm	0.0579 ppm	0.0784 ppm	114.7533 ppm	2.8568 ppm	0.1128 ppm
Concentration per Run 1	0.0032 ppm	0.0438 ppm	0.0573 ppm	0.0783 ppm	114.1895 ppm	2.9305 ppm	0.1142 ppm
Concentration per Run 2	0.0033 ppm	0.0445 ppm	0.0584 ppm	0.0782 ppm	115.0199 ppm	2.8325 ppm	0.1121 ppm
Concentration per Run 3	0.0034 ppm	0.0441 ppm	0.0578 ppm	0.0787 ppm	115.0504 ppm	2.8074 ppm	0.1122 ppm
Concentration RSD	3.6 %	0.8 %	0.9 %	0.3 %	0.4 %	2.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7540 ppm	6.0816 ppm	0.0011 ppm	0.1391 ppm	0.1382 ppm	0.1178 ppm	0.0023 ppm
Concentration per Run 1	16.7450 ppm	6.0598 ppm	0.0000 ppm	0.1375 ppm	0.1370 ppm	0.1195 ppm	0.0015 ppm
Concentration per Run 2	16.7685 ppm	6.0699 ppm	0.0017 ppm	0.1426 ppm	0.1397 ppm	0.1147 ppm	0.0005 ppm
Concentration per Run 3	16.7484 ppm	6.1151 ppm	0.0016 ppm	0.1371 ppm	0.1378 ppm	0.1193 ppm	0.0048 ppm
Concentration RSD	0.1 %	0.5 %	86.8 %	2.2 %	1.0 %	2.3 %	98.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	9.3979 ppm	0.0016 ppm	0.0359 ppm	0.3335 ppm	0.0018 ppm	0.0651 ppm
Concentration per Run 1	-0.0003 ppm	9.4759 ppm	0.0016 ppm	0.0359 ppm	0.3370 ppm	0.0021 ppm	0.0654 ppm
Concentration per Run 2	-0.0002 ppm	9.2908 ppm	0.0022 ppm	0.0360 ppm	0.3283 ppm	0.0003 ppm	0.0651 ppm
Concentration per Run 3	0.0022 ppm	9.4271 ppm	0.0009 ppm	0.0359 ppm	0.3351 ppm	0.0030 ppm	0.0648 ppm
Concentration RSD	247.8 %	1.0 %	41.4 %	0.1 %	1.4 %	75.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3607 ppm	105.9783 %	106.9241 %	101.3956 %	113.8300 %	117.5197 %	115.8213 %
Concentration per Run 1	0.3585 ppm	106.4267 %	107.8956 %	101.4952 %	114.1837 %	118.7509 %	115.7885 %
Concentration per Run 2	0.3621 ppm	105.7431 %	106.1567 %	102.0976 %	113.3397 %	116.7227 %	116.7189 %
Concentration per Run 3	0.3616 ppm	105.7651 %	106.7199 %	100.5940 %	113.9666 %	117.0855 %	114.9564 %
Concentration RSD	0.5 %	0.4 %	0.8 %	0.7 %	0.4 %	0.9 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-03D2 WG1975353
Analysis started at: 9/24/2024 12:14:22 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	58.5522 ppm	0.0536 ppm	0.0102 ppm	0.2378 ppm	0.0029 ppm	5.9953 ppm
Concentration per Run 1	0.0007 ppm	58.9442 ppm	0.0534 ppm	0.0088 ppm	0.2386 ppm	0.0029 ppm	6.0431 ppm
Concentration per Run 2	0.0018 ppm	58.3316 ppm	0.0536 ppm	0.0105 ppm	0.2370 ppm	0.0028 ppm	5.9846 ppm
Concentration per Run 3	0.0005 ppm	58.3807 ppm	0.0537 ppm	0.0113 ppm	0.2377 ppm	0.0028 ppm	5.9584 ppm
Concentration RSD	72.2 %	0.6 %	0.3 %	12.4 %	0.3 %	2.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0544 ppm	0.0713 ppm	0.0972 ppm	131.1203 ppm	3.0068 ppm	0.1306 ppm
Concentration per Run 1	0.0008 ppm	0.0546 ppm	0.0715 ppm	0.0971 ppm	131.6261 ppm	3.0190 ppm	0.1314 ppm
Concentration per Run 2	0.0012 ppm	0.0550 ppm	0.0708 ppm	0.0969 ppm	130.9786 ppm	2.9811 ppm	0.1299 ppm
Concentration per Run 3	0.0009 ppm	0.0537 ppm	0.0715 ppm	0.0975 ppm	130.7562 ppm	3.0204 ppm	0.1305 ppm
Concentration RSD	17.5 %	1.2 %	0.6 %	0.3 %	0.3 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.2090 ppm	3.6565 ppm	0.0018 ppm	0.2056 ppm	0.1152 ppm	0.0977 ppm	0.0014 ppm
Concentration per Run 1	24.1908 ppm	3.6679 ppm	0.0011 ppm	0.2102 ppm	0.1161 ppm	0.0967 ppm	0.0014 ppm
Concentration per Run 2	24.3696 ppm	3.6521 ppm	0.0022 ppm	0.2003 ppm	0.1164 ppm	0.0984 ppm	-0.0009 ppm
Concentration per Run 3	24.0667 ppm	3.6494 ppm	0.0022 ppm	0.2063 ppm	0.1132 ppm	0.0981 ppm	0.0037 ppm
Concentration RSD	0.6 %	0.3 %	35.1 %	2.4 %	1.5 %	0.9 %	161.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	13.5789 ppm	0.0005 ppm	0.0491 ppm	0.4741 ppm	0.0032 ppm	0.0769 ppm
Concentration per Run 1	0.0005 ppm	13.9025 ppm	-0.0004 ppm	0.0495 ppm	0.4774 ppm	0.0013 ppm	0.0769 ppm
Concentration per Run 2	-0.0010 ppm	13.6453 ppm	-0.0001 ppm	0.0489 ppm	0.4709 ppm	0.0061 ppm	0.0764 ppm
Concentration per Run 3	0.0024 ppm	13.1890 ppm	0.0019 ppm	0.0491 ppm	0.4740 ppm	0.0022 ppm	0.0774 ppm
Concentration RSD	265.2 %	2.7 %	273.0 %	0.6 %	0.7 %	80.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3246 ppm	106.8189 %	108.2238 %	101.4889 %	114.8289 %	118.6765 %	117.2338 %
Concentration per Run 1	0.3251 ppm	106.6409 %	108.4268 %	101.9260 %	114.6568 %	119.3120 %	117.5674 %
Concentration per Run 2	0.3252 ppm	106.9490 %	108.1309 %	101.1076 %	114.5613 %	118.4555 %	117.3746 %
Concentration per Run 3	0.3235 ppm	106.8668 %	108.1137 %	101.4332 %	115.2685 %	118.2621 %	116.7595 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.4 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 12:18:17 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4973 ppm	0.4689 ppm	0.4714 ppm	0.4845 ppm	0.4850 ppm	0.4974 ppm	0.4784 ppm
Concentration per Run 1	0.4961 ppm	0.4719 ppm	0.4677 ppm	0.4827 ppm	0.4818 ppm	0.4959 ppm	0.4826 ppm
Concentration per Run 2	0.4966 ppm	0.4684 ppm	0.4775 ppm	0.4858 ppm	0.4882 ppm	0.4964 ppm	0.4759 ppm
Concentration per Run 3	0.4992 ppm	0.4664 ppm	0.4691 ppm	0.4852 ppm	0.4850 ppm	0.4999 ppm	0.4767 ppm
Recovery Percentage 1	99.459 %	93.782 %	94.285 %	96.909 %	96.998 %	99.478 %	95.682 %
Concentration RSD	0.3 %	0.6 %	1.1 %	0.3 %	0.7 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4873 ppm	0.4954 ppm	0.4776 ppm	0.4783 ppm	0.4990 ppm	5.0085 ppm	0.4803 ppm
Concentration per Run 1	0.4900 ppm	0.4915 ppm	0.4768 ppm	0.4753 ppm	0.4981 ppm	5.0359 ppm	0.4794 ppm
Concentration per Run 2	0.4847 ppm	0.4967 ppm	0.4792 ppm	0.4798 ppm	0.4985 ppm	4.9830 ppm	0.4810 ppm
Concentration per Run 3	0.4871 ppm	0.4981 ppm	0.4769 ppm	0.4798 ppm	0.5004 ppm	5.0066 ppm	0.4804 ppm
Recovery Percentage 1	97.455 %	99.083 %	95.527 %	95.658 %	99.798 %	100.170 %	96.052 %
Concentration RSD	0.5 %	0.7 %	0.3 %	0.6 %	0.2 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4812 ppm	0.4773 ppm	0.4798 ppm	9.7219 ppm	0.4953 ppm	0.4874 ppm	0.4924 ppm
Concentration per Run 1	0.4831 ppm	0.4788 ppm	0.4773 ppm	9.7264 ppm	0.4918 ppm	0.4873 ppm	0.4893 ppm
Concentration per Run 2	0.4794 ppm	0.4749 ppm	0.4804 ppm	9.7532 ppm	0.4975 ppm	0.4909 ppm	0.4989 ppm
Concentration per Run 3	0.4812 ppm	0.4782 ppm	0.4815 ppm	9.6862 ppm	0.4965 ppm	0.4840 ppm	0.4891 ppm
Recovery Percentage 1	96.245 %	95.461 %	95.951 %	97.219 %	99.057 %	97.487 %	98.489 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.3 %	0.6 %	0.7 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4838 ppm	5.1905 ppm	0.4680 ppm	0.4656 ppm	0.4866 ppm	0.4883 ppm	0.4722 ppm
Concentration per Run 1	0.4828 ppm	5.1685 ppm	0.4669 ppm	0.4632 ppm	0.4858 ppm	0.4899 ppm	0.4706 ppm
Concentration per Run 2	0.4852 ppm	5.1895 ppm	0.4715 ppm	0.4677 ppm	0.4860 ppm	0.4905 ppm	0.4717 ppm
Concentration per Run 3	0.4832 ppm	5.2136 ppm	0.4655 ppm	0.4659 ppm	0.4879 ppm	0.4844 ppm	0.4742 ppm
Recovery Percentage 1	96.750 %	98.867 %	93.594 %	93.120 %	97.314 %	97.652 %	94.432 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.5 %	0.2 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4931 ppm	105.8382 %	104.1099 %	104.1141 %	103.2835 %	102.7898 %	103.9247 %
Concentration per Run 1	0.4911 ppm	105.5148 %	104.4269 %	104.8830 %	102.8059 %	103.4523 %	104.6831 %
Concentration per Run 2	0.4957 ppm	105.2338 %	104.0087 %	104.0409 %	102.8476 %	102.8226 %	104.0757 %
Concentration per Run 3	0.4925 ppm	106.7661 %	103.8939 %	103.4185 %	104.1968 %	102.0945 %	103.0154 %
Recovery Percentage 1	98.623 %						
Concentration RSD	0.5 %	0.8 %	0.3 %	0.7 %	0.8 %	0.7 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 12:22:12 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0013 ppm	0.0014 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0004 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0024 ppm	0.0022 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	0.0005 ppm	0.0056 ppm	0.0019 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0040 ppm
Recovery Percentage 1	4.697 %	1.277 %	27.412 %	2.935 %	-0.943 %	0.434 %	-1.316 %
Concentration RSD	73.2 %	314.3 %	90.1 %	117.3 %	46.1 %	197.7 %	196.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	-0.0002 ppm	0.0032 ppm	-0.0022 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	-0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0018 ppm	0.0197 ppm	0.0009 ppm
Concentration per Run 2	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	-0.0006 ppm	0.0053 ppm	-0.0297 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm	0.0034 ppm	0.0012 ppm
Recovery Percentage 1	-1.511 %	-1.891 %	4.888 %	-1.702 %	6.361 %	-0.088 %	35.231 %
Concentration RSD	225.5 %	85.2 %	73.8 %	207.4 %	59.4 %	1,144.3 %	70.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0001 ppm	0.0007 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	-0.0011 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0015 ppm	-0.0002 ppm	0.0003 ppm	0.0082 ppm	0.0012 ppm	-0.0006 ppm	-0.0022 ppm
Concentration per Run 3	-0.0016 ppm	0.0001 ppm	0.0008 ppm	-0.0078 ppm	-0.0005 ppm	-0.0012 ppm	-0.0009 ppm
Recovery Percentage 1	-1.092 %	-0.512 %	1.417 %	0.010 %	0.858 %	-3.811 %	-2.156 %
Concentration RSD	68.1 %	261.2 %	47.1 %	3,910.1 %	400.0 %	260.1 %	91.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	-0.0010 ppm	-0.0019 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0019 ppm	-0.0019 ppm	-0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 2	-0.0044 ppm	-0.0008 ppm	-0.0015 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	-0.0003 ppm	-0.0024 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-23.797 %	-0.203 %	-3.724 %	1.492 %	4.112 %	1.573 %	-2.663 %
Concentration RSD	78.4 %	77.2 %	25.1 %	28.1 %	54.5 %	393.8 %	69.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	104.7388 %	102.8402 %	103.7944 %	104.2031 %	102.8053 %	104.5872 %
Concentration per Run 1	-0.0017 ppm	104.8114 %	103.0102 %	103.7520 %	104.5674 %	103.3064 %	104.9433 %
Concentration per Run 2	-0.0014 ppm	104.3419 %	102.2546 %	103.4708 %	103.8545 %	102.2469 %	103.9555 %
Concentration per Run 3	-0.0016 ppm	105.0632 %	103.2557 %	104.1603 %	104.1874 %	102.8625 %	104.8627 %
Recovery Percentage 1	-31.394 %						
Concentration RSD	11.0 %	0.3 %	0.5 %	0.3 %	0.3 %	0.5 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-1 WG1975268
Analysis started at: 9/24/2024 12:29:12 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0030 ppm	0.0027 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 1	0.0001 ppm	-0.0127 ppm	0.0041 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	0.0129 ppm	0.0018 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 3	0.0002 ppm	0.0089 ppm	0.0024 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	1.716 %	3.043 %	54.743 %	5.622 %	-1.099 %	-0.080 %	9.754 %
Concentration RSD	101.1 %	452.3 %	43.2 %	36.8 %	107.9 %	1,153.5 %	29.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0149 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	-0.0194 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0012 ppm	-0.0007 ppm	-0.0002 ppm	0.0013 ppm	-0.0088 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm	-0.0002 ppm	-0.0012 ppm	-0.0166 ppm	0.0030 ppm
Recovery Percentage 1	-0.324 %	-2.425 %	-7.282 %	-0.563 %	-0.191 %	-0.598 %	32.775 %
Concentration RSD	830.1 %	201.0 %	55.7 %	332.1 %	1,306.6 %	36.7 %	103.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0021 ppm	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0001 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 1	0.0063 ppm	0.0003 ppm	-0.0001 ppm	0.0132 ppm	-0.0001 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 2	-0.0019 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	0.0018 ppm	-0.0003 ppm	-0.0005 ppm	-0.0065 ppm	0.0003 ppm	0.0009 ppm	0.0025 ppm
Recovery Percentage 1	2.090 %	-0.464 %	-0.498 %	0.131 %	0.303 %	8.252 %	1.899 %
Concentration RSD	196.8 %	648.7 %	103.9 %	379.0 %	224.5 %	62.1 %	169.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0004 ppm	-0.0025 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0009 ppm	-0.0008 ppm	-0.0027 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	-0.0008 ppm	0.0021 ppm	-0.0037 ppm	0.0002 ppm	0.0001 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	-0.0025 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-7.868 %	0.079 %	-5.071 %	1.821 %	3.409 %	2.136 %	-2.173 %
Concentration RSD	221.3 %	387.1 %	49.2 %	45.0 %	52.9 %	295.7 %	72.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	101.2200 %	101.0394 %	102.0557 %	100.8024 %	101.1736 %	101.9109 %
Concentration per Run 1	-0.0011 ppm	100.8903 %	101.1681 %	101.7701 %	100.8364 %	101.2818 %	101.6707 %
Concentration per Run 2	-0.0012 ppm	101.7917 %	100.1504 %	101.9505 %	101.2983 %	100.5745 %	102.0111 %
Concentration per Run 3	-0.0008 ppm	100.9780 %	101.7998 %	102.4464 %	100.2723 %	101.6645 %	102.0511 %
Recovery Percentage 1	-20.245 %						
Concentration RSD	22.0 %	0.5 %	0.8 %	0.3 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-2 WG1975268
Analysis started at: 9/24/2024 12:33:24 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.8867 ppm	0.1124 ppm	0.9237 ppm	1.8967 ppm	0.0484 ppm	9.5441 ppm
Concentration per Run 1	0.0499 ppm	1.8813 ppm	0.1120 ppm	0.9246 ppm	1.8988 ppm	0.0484 ppm	9.4882 ppm
Concentration per Run 2	0.0496 ppm	1.8955 ppm	0.1126 ppm	0.9218 ppm	1.9071 ppm	0.0486 ppm	9.5683 ppm
Concentration per Run 3	0.0498 ppm	1.8832 ppm	0.1126 ppm	0.9248 ppm	1.8841 ppm	0.0483 ppm	9.5758 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.2 %	0.6 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.4785 ppm	0.1860 ppm	0.2379 ppm	0.9768 ppm	9.7721 ppm	0.0003 ppm
Concentration per Run 1	0.0506 ppm	0.4784 ppm	0.1878 ppm	0.2384 ppm	0.9785 ppm	9.7775 ppm	0.0008 ppm
Concentration per Run 2	0.0502 ppm	0.4784 ppm	0.1864 ppm	0.2368 ppm	0.9804 ppm	9.8406 ppm	0.0006 ppm
Concentration per Run 3	0.0503 ppm	0.4786 ppm	0.1839 ppm	0.2386 ppm	0.9716 ppm	9.6981 ppm	-0.0006 ppm
Concentration RSD	0.4 %	0.0 %	1.1 %	0.4 %	0.5 %	0.7 %	291.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5112 ppm	0.4806 ppm	0.9052 ppm	9.6245 ppm	0.4807 ppm	0.5102 ppm	0.4145 ppm
Concentration per Run 1	9.5009 ppm	0.4775 ppm	0.8930 ppm	9.6147 ppm	0.4822 ppm	0.5111 ppm	0.4058 ppm
Concentration per Run 2	9.5235 ppm	0.4809 ppm	0.8993 ppm	9.6116 ppm	0.4808 ppm	0.5084 ppm	0.4094 ppm
Concentration per Run 3	9.5091 ppm	0.4834 ppm	0.9231 ppm	9.6472 ppm	0.4791 ppm	0.5112 ppm	0.4284 ppm
Concentration RSD	0.1 %	0.6 %	1.8 %	0.2 %	0.3 %	0.3 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1154 ppm	0.6186 ppm	0.9035 ppm	0.9133 ppm	0.9529 ppm	0.1158 ppm	0.4745 ppm
Concentration per Run 1	0.1127 ppm	0.6197 ppm	0.9005 ppm	0.9122 ppm	0.9531 ppm	0.1156 ppm	0.4750 ppm
Concentration per Run 2	0.1153 ppm	0.6118 ppm	0.9010 ppm	0.9152 ppm	0.9564 ppm	0.1158 ppm	0.4739 ppm
Concentration per Run 3	0.1182 ppm	0.6242 ppm	0.9091 ppm	0.9125 ppm	0.9493 ppm	0.1160 ppm	0.4748 ppm
Concentration RSD	2.4 %	1.0 %	0.5 %	0.2 %	0.4 %	0.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4808 ppm	105.3210 %	104.2123 %	103.3196 %	102.9062 %	103.1720 %	103.6577 %
Concentration per Run 1	0.4823 ppm	105.0803 %	104.8579 %	103.5458 %	102.8729 %	103.7119 %	104.0016 %
Concentration per Run 2	0.4808 ppm	105.3283 %	104.2296 %	102.9914 %	102.8730 %	103.3085 %	103.3767 %
Concentration per Run 3	0.4791 ppm	105.5542 %	103.5494 %	103.4215 %	102.9725 %	102.4955 %	103.5948 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.1 %	0.6 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-07 WG1974865
Analysis started at: 9/24/2024 12:37:18 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0034 ppm	0.0009 ppm	0.0097 ppm	0.0035 ppm	0.0000 ppm	30.9607 ppm
Concentration per Run 1	0.0008 ppm	-0.0082 ppm	0.0004 ppm	0.0080 ppm	0.0036 ppm	-0.0001 ppm	30.9697 ppm
Concentration per Run 2	0.0004 ppm	0.0085 ppm	-0.0002 ppm	0.0108 ppm	0.0034 ppm	0.0000 ppm	30.8463 ppm
Concentration per Run 3	-0.0005 ppm	0.0100 ppm	0.0024 ppm	0.0102 ppm	0.0036 ppm	0.0000 ppm	31.0659 ppm
Concentration RSD	266.3 %	295.5 %	153.8 %	15.1 %	4.1 %	727.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0002 ppm	-0.0004 ppm	0.0361 ppm	0.0058 ppm	0.4360 ppm	0.0188 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0363 ppm	0.0062 ppm	0.4695 ppm	0.0191 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	-0.0005 ppm	0.0360 ppm	0.0029 ppm	0.3949 ppm	0.0186 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm	0.0359 ppm	0.0082 ppm	0.4436 ppm	0.0189 ppm
Concentration RSD	42.8 %	91.1 %	35.6 %	0.5 %	45.9 %	8.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.4573 ppm	0.0000 ppm	0.0041 ppm	4.2622 ppm	0.0002 ppm	-0.0003 ppm	0.0026 ppm
Concentration per Run 1	4.4950 ppm	0.0001 ppm	0.0043 ppm	4.2681 ppm	0.0009 ppm	-0.0023 ppm	0.0037 ppm
Concentration per Run 2	4.4464 ppm	0.0001 ppm	0.0044 ppm	4.2601 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	4.4304 ppm	-0.0002 ppm	0.0035 ppm	4.2584 ppm	-0.0004 ppm	0.0005 ppm	0.0036 ppm
Concentration RSD	0.8 %	6,048.8 %	12.2 %	0.1 %	443.9 %	496.5 %	70.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	5.2057 ppm	0.0029 ppm	0.1507 ppm	0.0005 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	-0.0031 ppm	5.2448 ppm	0.0038 ppm	0.1505 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0026 ppm	5.1935 ppm	0.0034 ppm	0.1509 ppm	0.0004 ppm	-0.0018 ppm	-0.0005 ppm
Concentration per Run 3	0.0013 ppm	5.1789 ppm	0.0015 ppm	0.1507 ppm	0.0003 ppm	0.0012 ppm	-0.0003 ppm
Concentration RSD	167.3 %	0.7 %	41.8 %	0.1 %	50.7 %	410.3 %	133.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0059 ppm	104.0450 %	103.6461 %	102.4201 %	102.7411 %	103.3258 %	103.3466 %
Concentration per Run 1	0.0060 ppm	103.3482 %	104.2277 %	102.0418 %	102.2613 %	103.9720 %	103.3581 %
Concentration per Run 2	0.0058 ppm	104.6881 %	103.6466 %	102.9432 %	103.3222 %	103.5114 %	103.5816 %
Concentration per Run 3	0.0059 ppm	104.0987 %	103.0641 %	102.2752 %	102.6398 %	102.4940 %	103.1000 %
Concentration RSD	1.6 %	0.6 %	0.6 %	0.5 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-08 WG1974865
Analysis started at: 9/24/2024 12:41:12 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0008 ppm	0.0005 ppm	0.0071 ppm	0.0046 ppm	0.0000 ppm	35.0416 ppm
Concentration per Run 1	0.0001 ppm	-0.0060 ppm	0.0012 ppm	0.0072 ppm	0.0045 ppm	-0.0001 ppm	34.8358 ppm
Concentration per Run 2	0.0003 ppm	-0.0004 ppm	0.0003 ppm	0.0097 ppm	0.0047 ppm	0.0000 ppm	35.0857 ppm
Concentration per Run 3	0.0004 ppm	0.0040 ppm	-0.0001 ppm	0.0043 ppm	0.0045 ppm	0.0000 ppm	35.2033 ppm
Concentration RSD	69.1 %	635.1 %	139.6 %	38.4 %	3.0 %	110.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0073 ppm	0.0031 ppm	0.4399 ppm	0.0159 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0069 ppm	0.0013 ppm	0.4626 ppm	0.0171 ppm
Concentration per Run 2	-0.0003 ppm	-0.0006 ppm	-0.0005 ppm	0.0076 ppm	0.0039 ppm	0.4201 ppm	0.0164 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	-0.0013 ppm	0.0073 ppm	0.0041 ppm	0.4369 ppm	0.0142 ppm
Concentration RSD	58.8 %	531.6 %	63.3 %	4.7 %	51.0 %	4.9 %	9.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3281 ppm	0.0004 ppm	0.0018 ppm	3.6642 ppm	0.0001 ppm	0.0002 ppm	0.0039 ppm
Concentration per Run 1	4.3298 ppm	0.0004 ppm	0.0019 ppm	3.6546 ppm	0.0006 ppm	0.0015 ppm	0.0053 ppm
Concentration per Run 2	4.3253 ppm	0.0004 ppm	0.0016 ppm	3.6590 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	4.3294 ppm	0.0004 ppm	0.0020 ppm	3.6790 ppm	-0.0003 ppm	-0.0011 ppm	0.0050 ppm
Concentration RSD	0.1 %	5.1 %	9.7 %	0.4 %	329.2 %	834.5 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	5.2933 ppm	-0.0015 ppm	0.1644 ppm	0.0004 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 1	0.0014 ppm	5.2918 ppm	-0.0015 ppm	0.1646 ppm	0.0002 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 2	-0.0032 ppm	5.2857 ppm	-0.0012 ppm	0.1643 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0036 ppm	5.3025 ppm	-0.0018 ppm	0.1643 ppm	0.0005 ppm	0.0025 ppm	0.0002 ppm
Concentration RSD	582.2 %	0.2 %	20.6 %	0.1 %	40.6 %	51.1 %	4.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0043 ppm	104.0028 %	102.5450 %	102.6369 %	102.5992 %	102.1299 %	103.6751 %
Concentration per Run 1	0.0042 ppm	103.9698 %	103.7005 %	102.7991 %	102.7520 %	103.0214 %	103.8414 %
Concentration per Run 2	0.0046 ppm	103.2212 %	101.5556 %	102.3500 %	101.8429 %	101.0813 %	103.0975 %
Concentration per Run 3	0.0042 ppm	104.8174 %	102.3789 %	102.7616 %	103.2028 %	102.2871 %	104.0864 %
Concentration RSD	4.9 %	0.8 %	1.1 %	0.2 %	0.7 %	1.0 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-06 WG1975268
Analysis started at: 9/24/2024 12:45:07 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0113 ppm	0.0016 ppm	0.0038 ppm	0.0203 ppm	0.0000 ppm	3.8518 ppm
Concentration per Run 1	0.0007 ppm	0.0063 ppm	0.0014 ppm	0.0035 ppm	0.0201 ppm	-0.0001 ppm	3.8390 ppm
Concentration per Run 2	0.0002 ppm	0.0149 ppm	0.0031 ppm	0.0042 ppm	0.0206 ppm	0.0000 ppm	3.8696 ppm
Concentration per Run 3	0.0009 ppm	0.0126 ppm	0.0003 ppm	0.0037 ppm	0.0202 ppm	0.0000 ppm	3.8468 ppm
Concentration RSD	58.3 %	39.5 %	86.4 %	9.6 %	1.3 %	139.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0032 ppm	0.0176 ppm	0.9048 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0033 ppm	0.0201 ppm	0.9047 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0030 ppm	0.0165 ppm	0.9076 ppm	0.0016 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0032 ppm	0.0163 ppm	0.9022 ppm	0.0009 ppm
Concentration RSD	250.7 %	149.2 %	49.3 %	5.2 %	12.2 %	0.3 %	47.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4273 ppm	0.0020 ppm	0.0002 ppm	1.5399 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	1.4320 ppm	0.0019 ppm	0.0002 ppm	1.5339 ppm	0.0010 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	1.4338 ppm	0.0018 ppm	0.0002 ppm	1.5378 ppm	-0.0001 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 3	1.4162 ppm	0.0022 ppm	0.0003 ppm	1.5480 ppm	0.0003 ppm	0.0015 ppm	-0.0050 ppm
Concentration RSD	0.7 %	9.7 %	31.8 %	0.5 %	143.7 %	87.2 %	15,457.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	3.1181 ppm	-0.0019 ppm	0.0164 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0057 ppm	3.1352 ppm	-0.0028 ppm	0.0163 ppm	0.0008 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	-0.0033 ppm	3.1336 ppm	-0.0012 ppm	0.0165 ppm	0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	3.0856 ppm	-0.0017 ppm	0.0163 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm
Concentration RSD	620.3 %	0.9 %	43.1 %	0.9 %	16.2 %	1,015.7 %	2,018.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	104.9493 %	103.1109 %	104.9282 %	103.8279 %	102.7184 %	105.0406 %
Concentration per Run 1	0.0019 ppm	104.5915 %	103.5023 %	105.1736 %	104.0238 %	102.8942 %	105.5017 %
Concentration per Run 2	0.0016 ppm	104.9640 %	101.5479 %	104.1979 %	103.5527 %	101.1439 %	104.2812 %
Concentration per Run 3	0.0017 ppm	105.2925 %	104.2824 %	105.4132 %	103.9070 %	104.1171 %	105.3390 %
Concentration RSD	8.4 %	0.3 %	1.4 %	0.6 %	0.2 %	1.5 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-04D2 WG1975353
Analysis started at: 9/24/2024 12:49:02 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	68.0363 ppm	0.0536 ppm	0.0035 ppm	0.2433 ppm	0.0032 ppm	5.7351 ppm
Concentration per Run 1	0.0010 ppm	68.3376 ppm	0.0515 ppm	0.0049 ppm	0.2437 ppm	0.0032 ppm	5.7589 ppm
Concentration per Run 2	-0.0002 ppm	67.9920 ppm	0.0538 ppm	0.0032 ppm	0.2443 ppm	0.0032 ppm	5.7227 ppm
Concentration per Run 3	0.0000 ppm	67.7794 ppm	0.0554 ppm	0.0023 ppm	0.2420 ppm	0.0032 ppm	5.7237 ppm
Concentration RSD	213.0 %	0.4 %	3.6 %	38.6 %	0.5 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0598 ppm	0.0837 ppm	0.1046 ppm	152.0722 ppm	2.8009 ppm	0.1524 ppm
Concentration per Run 1	0.0008 ppm	0.0598 ppm	0.0836 ppm	0.1042 ppm	152.7265 ppm	2.8365 ppm	0.1522 ppm
Concentration per Run 2	0.0010 ppm	0.0600 ppm	0.0836 ppm	0.1046 ppm	151.9899 ppm	2.7857 ppm	0.1539 ppm
Concentration per Run 3	0.0009 ppm	0.0596 ppm	0.0840 ppm	0.1051 ppm	151.5001 ppm	2.7804 ppm	0.1512 ppm
Concentration RSD	7.8 %	0.4 %	0.3 %	0.4 %	0.4 %	1.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8251 ppm	3.4427 ppm	0.0007 ppm	0.1661 ppm	0.1329 ppm	0.0989 ppm	0.0002 ppm
Concentration per Run 1	23.7587 ppm	3.4645 ppm	0.0002 ppm	0.1612 ppm	0.1315 ppm	0.0991 ppm	0.0034 ppm
Concentration per Run 2	23.8717 ppm	3.4296 ppm	0.0008 ppm	0.1608 ppm	0.1338 ppm	0.0986 ppm	0.0046 ppm
Concentration per Run 3	23.8448 ppm	3.4340 ppm	0.0011 ppm	0.1762 ppm	0.1335 ppm	0.0991 ppm	-0.0074 ppm
Concentration RSD	0.2 %	0.6 %	71.9 %	5.3 %	0.9 %	0.3 %	3,176.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	7.2443 ppm	0.0025 ppm	0.0434 ppm	0.3820 ppm	0.0016 ppm	0.0895 ppm
Concentration per Run 1	-0.0019 ppm	7.2634 ppm	0.0011 ppm	0.0439 ppm	0.3660 ppm	0.0006 ppm	0.0895 ppm
Concentration per Run 2	-0.0008 ppm	7.2574 ppm	0.0031 ppm	0.0434 ppm	0.3929 ppm	0.0020 ppm	0.0899 ppm
Concentration per Run 3	0.0001 ppm	7.2120 ppm	0.0032 ppm	0.0428 ppm	0.3870 ppm	0.0023 ppm	0.0890 ppm
Concentration RSD	121.6 %	0.4 %	47.7 %	1.2 %	3.7 %	56.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3587 ppm	106.6563 %	107.4203 %	101.0496 %	115.0759 %	118.7311 %	117.5581 %
Concentration per Run 1	0.3559 ppm	106.4295 %	107.0729 %	100.2047 %	114.6864 %	118.3009 %	116.7676 %
Concentration per Run 2	0.3607 ppm	107.1923 %	107.7073 %	101.8398 %	115.7477 %	119.3305 %	118.1787 %
Concentration per Run 3	0.3595 ppm	106.3471 %	107.4808 %	101.1043 %	114.7937 %	118.5620 %	117.7281 %
Concentration RSD	0.7 %	0.4 %	0.3 %	0.8 %	0.5 %	0.5 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-3D2 WG1975353
Analysis started at: 9/24/2024 12:52:56 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	62.6905 ppm	0.1692 ppm	0.9365 ppm	2.1866 ppm	0.0527 ppm	15.4664 ppm
Concentration per Run 1	0.0514 ppm	63.1768 ppm	0.1695 ppm	0.9359 ppm	2.2007 ppm	0.0531 ppm	15.5587 ppm
Concentration per Run 2	0.0525 ppm	62.3273 ppm	0.1696 ppm	0.9369 ppm	2.1753 ppm	0.0525 ppm	15.3996 ppm
Concentration per Run 3	0.0525 ppm	62.5674 ppm	0.1685 ppm	0.9369 ppm	2.1838 ppm	0.0526 ppm	15.4409 ppm
Concentration RSD	1.2 %	0.7 %	0.4 %	0.1 %	0.6 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0531 ppm	0.5538 ppm	0.2696 ppm	0.3477 ppm	129.9620 ppm	12.2415 ppm	0.1391 ppm
Concentration per Run 1	0.0529 ppm	0.5555 ppm	0.2696 ppm	0.3492 ppm	130.9059 ppm	12.2592 ppm	0.1396 ppm
Concentration per Run 2	0.0537 ppm	0.5534 ppm	0.2687 ppm	0.3465 ppm	129.5501 ppm	12.2179 ppm	0.1384 ppm
Concentration per Run 3	0.0526 ppm	0.5526 ppm	0.2706 ppm	0.3474 ppm	129.4299 ppm	12.2475 ppm	0.1394 ppm
Concentration RSD	1.1 %	0.3 %	0.3 %	0.4 %	0.6 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.4594 ppm	3.7548 ppm	1.0042 ppm	10.0733 ppm	0.6140 ppm	0.6345 ppm	0.4760 ppm
Concentration per Run 1	30.4515 ppm	3.7741 ppm	1.0028 ppm	10.1194 ppm	0.6144 ppm	0.6329 ppm	0.4688 ppm
Concentration per Run 2	30.4584 ppm	3.7350 ppm	1.0008 ppm	10.0468 ppm	0.6119 ppm	0.6393 ppm	0.4739 ppm
Concentration per Run 3	30.4683 ppm	3.7553 ppm	1.0091 ppm	10.0538 ppm	0.6157 ppm	0.6312 ppm	0.4853 ppm
Concentration RSD	0.0 %	0.5 %	0.4 %	0.4 %	0.3 %	0.7 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1186 ppm	9.9089 ppm	0.9693 ppm	0.9847 ppm	1.2532 ppm	0.1229 ppm	0.5789 ppm
Concentration per Run 1	0.1216 ppm	10.1849 ppm	0.9731 ppm	0.9917 ppm	1.2800 ppm	0.1227 ppm	0.5807 ppm
Concentration per Run 2	0.1159 ppm	9.8481 ppm	0.9641 ppm	0.9810 ppm	1.2558 ppm	0.1237 ppm	0.5768 ppm
Concentration per Run 3	0.1183 ppm	9.6936 ppm	0.9707 ppm	0.9815 ppm	1.2239 ppm	0.1223 ppm	0.5793 ppm
Concentration RSD	2.4 %	2.5 %	0.5 %	0.6 %	2.2 %	0.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8414 ppm	106.4441 %	109.2505 %	100.4827 %	114.6222 %	119.7343 %	116.1046 %
Concentration per Run 1	0.8411 ppm	106.6057 %	109.4733 %	100.6145 %	115.1897 %	120.3102 %	116.1061 %
Concentration per Run 2	0.8404 ppm	106.8900 %	108.5487 %	100.4085 %	114.9167 %	118.8361 %	116.2213 %
Concentration per Run 3	0.8428 ppm	105.8365 %	109.7296 %	100.4250 %	113.7600 %	120.0566 %	115.9862 %
Concentration RSD	0.2 %	0.5 %	0.6 %	0.1 %	0.7 %	0.7 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-4D2 WG1975353
Analysis started at: 9/24/2024 12:56:51 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0527 ppm	69.5953 ppm	0.1952 ppm	0.9339 ppm	2.2054 ppm	0.0534 ppm	15.8647 ppm
Concentration per Run 1	0.0527 ppm	69.3641 ppm	0.1987 ppm	0.9328 ppm	2.1900 ppm	0.0532 ppm	15.8215 ppm
Concentration per Run 2	0.0528 ppm	69.7862 ppm	0.1928 ppm	0.9350 ppm	2.2192 ppm	0.0536 ppm	15.8895 ppm
Concentration per Run 3	0.0527 ppm	69.6354 ppm	0.1942 ppm	0.9341 ppm	2.2071 ppm	0.0533 ppm	15.8830 ppm
Concentration RSD	0.1 %	0.3 %	1.6 %	0.1 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0548 ppm	0.5679 ppm	0.2837 ppm	0.3609 ppm	145.9524 ppm	12.3052 ppm	0.1503 ppm
Concentration per Run 1	0.0546 ppm	0.5695 ppm	0.2836 ppm	0.3618 ppm	145.2337 ppm	12.2653 ppm	0.1503 ppm
Concentration per Run 2	0.0552 ppm	0.5684 ppm	0.2841 ppm	0.3605 ppm	147.1363 ppm	12.3095 ppm	0.1501 ppm
Concentration per Run 3	0.0546 ppm	0.5658 ppm	0.2833 ppm	0.3604 ppm	145.4872 ppm	12.3408 ppm	0.1504 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.2 %	0.7 %	0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.6960 ppm	4.0186 ppm	1.0088 ppm	10.1274 ppm	0.6306 ppm	0.6314 ppm	0.4821 ppm
Concentration per Run 1	34.8160 ppm	4.0142 ppm	1.0020 ppm	9.9664 ppm	0.6295 ppm	0.6349 ppm	0.4846 ppm
Concentration per Run 2	34.5765 ppm	4.0289 ppm	1.0063 ppm	10.2161 ppm	0.6298 ppm	0.6298 ppm	0.4788 ppm
Concentration per Run 3	34.6956 ppm	4.0126 ppm	1.0180 ppm	10.1996 ppm	0.6324 ppm	0.6295 ppm	0.4829 ppm
Concentration RSD	0.3 %	0.2 %	0.8 %	1.4 %	0.2 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1150 ppm	11.1245 ppm	0.9729 ppm	0.9863 ppm	1.2429 ppm	0.1237 ppm	0.5932 ppm
Concentration per Run 1	0.1205 ppm	11.3498 ppm	0.9738 ppm	0.9781 ppm	1.2480 ppm	0.1235 ppm	0.5929 ppm
Concentration per Run 2	0.1120 ppm	10.9714 ppm	0.9694 ppm	0.9940 ppm	1.2631 ppm	0.1231 ppm	0.5924 ppm
Concentration per Run 3	0.1125 ppm	11.0522 ppm	0.9756 ppm	0.9869 ppm	1.2174 ppm	0.1246 ppm	0.5943 ppm
Concentration RSD	4.2 %	1.8 %	0.3 %	0.8 %	1.9 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8675 ppm	106.8345 %	109.0310 %	100.0501 %	115.8849 %	120.3860 %	116.8940 %
Concentration per Run 1	0.8673 ppm	106.5004 %	110.2472 %	99.4864 %	115.5595 %	121.1485 %	116.3915 %
Concentration per Run 2	0.8649 ppm	107.3364 %	108.5853 %	100.9165 %	116.1781 %	120.3193 %	117.9881 %
Concentration per Run 3	0.8704 ppm	106.6667 %	108.2604 %	99.7473 %	115.9171 %	119.6901 %	116.3024 %
Concentration RSD	0.3 %	0.4 %	1.0 %	0.8 %	0.3 %	0.6 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-5D2 WG1975353
Analysis started at: 9/24/2024 1:00:45 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	65.6696 ppm	0.1671 ppm	0.9680 ppm	2.1611 ppm	0.0525 ppm	15.4617 ppm
Concentration per Run 1	0.0488 ppm	65.5802 ppm	0.1696 ppm	0.9699 ppm	2.1505 ppm	0.0522 ppm	15.4431 ppm
Concentration per Run 2	0.0485 ppm	65.5523 ppm	0.1662 ppm	0.9691 ppm	2.1567 ppm	0.0525 ppm	15.4409 ppm
Concentration per Run 3	0.0493 ppm	65.8764 ppm	0.1655 ppm	0.9651 ppm	2.1761 ppm	0.0529 ppm	15.5011 ppm
Concentration RSD	0.8 %	0.3 %	1.3 %	0.3 %	0.6 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0537 ppm	0.5413 ppm	0.2677 ppm	0.3439 ppm	143.1947 ppm	12.9728 ppm	0.1421 ppm
Concentration per Run 1	0.0539 ppm	0.5410 ppm	0.2670 ppm	0.3439 ppm	142.5889 ppm	12.9115 ppm	0.1424 ppm
Concentration per Run 2	0.0532 ppm	0.5395 ppm	0.2683 ppm	0.3430 ppm	142.7235 ppm	13.0096 ppm	0.1394 ppm
Concentration per Run 3	0.0539 ppm	0.5434 ppm	0.2679 ppm	0.3448 ppm	144.2719 ppm	12.9972 ppm	0.1443 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	0.3 %	0.7 %	0.4 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.9472 ppm	3.7161 ppm	0.9854 ppm	10.4603 ppm	0.6016 ppm	0.6101 ppm	0.4477 ppm
Concentration per Run 1	31.9397 ppm	3.6971 ppm	0.9768 ppm	10.4060 ppm	0.6024 ppm	0.6115 ppm	0.4434 ppm
Concentration per Run 2	31.9111 ppm	3.7332 ppm	0.9805 ppm	10.4461 ppm	0.6038 ppm	0.6086 ppm	0.4468 ppm
Concentration per Run 3	31.9909 ppm	3.7179 ppm	0.9990 ppm	10.5287 ppm	0.5984 ppm	0.6103 ppm	0.4529 ppm
Concentration RSD	0.1 %	0.5 %	1.2 %	0.6 %	0.5 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1159 ppm	7.6165 ppm	0.9762 ppm	1.0021 ppm	1.3428 ppm	0.1180 ppm	0.5647 ppm
Concentration per Run 1	0.1172 ppm	7.5553 ppm	0.9727 ppm	0.9986 ppm	1.3318 ppm	0.1181 ppm	0.5645 ppm
Concentration per Run 2	0.1133 ppm	7.6837 ppm	0.9787 ppm	0.9989 ppm	1.3676 ppm	0.1172 ppm	0.5638 ppm
Concentration per Run 3	0.1173 ppm	7.6106 ppm	0.9773 ppm	1.0088 ppm	1.3291 ppm	0.1187 ppm	0.5659 ppm
Concentration RSD	1.9 %	0.8 %	0.3 %	0.6 %	1.6 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8136 ppm	106.8203 %	107.8153 %	100.2786 %	114.8189 %	118.6262 %	115.5372 %
Concentration per Run 1	0.8138 ppm	107.6414 %	108.1427 %	99.7418 %	115.3541 %	118.9837 %	114.9880 %
Concentration per Run 2	0.8149 ppm	106.9581 %	108.7492 %	100.3659 %	115.4118 %	119.4311 %	115.5113 %
Concentration per Run 3	0.8122 ppm	105.8612 %	106.5539 %	100.7282 %	113.6906 %	117.4637 %	116.1124 %
Concentration RSD	0.2 %	0.8 %	1.1 %	0.5 %	0.9 %	0.9 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-6D10 WG1975353
Analysis started at: 9/24/2024 1:04:40 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	13.7505 ppm	0.0115 ppm	0.0031 ppm	0.0487 ppm	0.0007 ppm	1.1473 ppm
Concentration per Run 1	0.0011 ppm	13.8190 ppm	0.0101 ppm	0.0054 ppm	0.0490 ppm	0.0007 ppm	1.1497 ppm
Concentration per Run 2	-0.0001 ppm	13.7092 ppm	0.0120 ppm	0.0025 ppm	0.0485 ppm	0.0006 ppm	1.1477 ppm
Concentration per Run 3	0.0003 ppm	13.7232 ppm	0.0123 ppm	0.0014 ppm	0.0484 ppm	0.0006 ppm	1.1445 ppm
Concentration RSD	145.3 %	0.4 %	10.3 %	67.0 %	0.7 %	4.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0116 ppm	0.0163 ppm	0.0203 ppm	31.4745 ppm	0.5767 ppm	0.0314 ppm
Concentration per Run 1	0.0002 ppm	0.0117 ppm	0.0161 ppm	0.0208 ppm	31.4509 ppm	0.5873 ppm	0.0319 ppm
Concentration per Run 2	0.0004 ppm	0.0121 ppm	0.0164 ppm	0.0200 ppm	31.3625 ppm	0.5834 ppm	0.0327 ppm
Concentration per Run 3	0.0002 ppm	0.0110 ppm	0.0164 ppm	0.0202 ppm	31.6101 ppm	0.5594 ppm	0.0296 ppm
Concentration RSD	44.0 %	4.6 %	1.2 %	1.9 %	0.4 %	2.6 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7897 ppm	0.6964 ppm	0.0025 ppm	0.0320 ppm	0.0274 ppm	0.0190 ppm	0.0071 ppm
Concentration per Run 1	4.7774 ppm	0.6990 ppm	0.0025 ppm	0.0274 ppm	0.0263 ppm	0.0179 ppm	0.0099 ppm
Concentration per Run 2	4.8036 ppm	0.6940 ppm	0.0028 ppm	0.0412 ppm	0.0285 ppm	0.0206 ppm	0.0081 ppm
Concentration per Run 3	4.7883 ppm	0.6961 ppm	0.0021 ppm	0.0275 ppm	0.0272 ppm	0.0184 ppm	0.0033 ppm
Concentration RSD	0.3 %	0.4 %	14.2 %	24.9 %	4.1 %	7.4 %	48.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	1.5883 ppm	0.0006 ppm	0.0088 ppm	0.0787 ppm	0.0007 ppm	0.0177 ppm
Concentration per Run 1	0.0006 ppm	1.5316 ppm	0.0006 ppm	0.0088 ppm	0.0778 ppm	0.0000 ppm	0.0179 ppm
Concentration per Run 2	-0.0009 ppm	1.7343 ppm	0.0000 ppm	0.0088 ppm	0.0767 ppm	0.0011 ppm	0.0176 ppm
Concentration per Run 3	-0.0002 ppm	1.4991 ppm	0.0011 ppm	0.0088 ppm	0.0816 ppm	0.0010 ppm	0.0176 ppm
Concentration RSD	430.4 %	8.0 %	97.0 %	0.5 %	3.3 %	84.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0711 ppm	105.8449 %	104.6023 %	104.6303 %	105.4406 %	106.1667 %	107.8579 %
Concentration per Run 1	0.0705 ppm	107.1886 %	104.4056 %	105.0355 %	106.9660 %	106.0120 %	108.3290 %
Concentration per Run 2	0.0715 ppm	105.7293 %	105.1403 %	104.5642 %	105.2550 %	106.4085 %	107.7805 %
Concentration per Run 3	0.0713 ppm	104.6168 %	104.2612 %	104.2911 %	104.1006 %	106.0796 %	107.4641 %
Concentration RSD	0.8 %	1.2 %	0.5 %	0.4 %	1.4 %	0.2 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:08:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4987 ppm	0.4716 ppm	0.4724 ppm	0.4852 ppm	0.4826 ppm	0.4966 ppm	0.4755 ppm
Concentration per Run 1	0.4993 ppm	0.4882 ppm	0.4728 ppm	0.4850 ppm	0.4815 ppm	0.4968 ppm	0.4763 ppm
Concentration per Run 2	0.4989 ppm	0.4555 ppm	0.4709 ppm	0.4816 ppm	0.4804 ppm	0.4948 ppm	0.4732 ppm
Concentration per Run 3	0.4980 ppm	0.4710 ppm	0.4734 ppm	0.4889 ppm	0.4860 ppm	0.4983 ppm	0.4770 ppm
Recovery Percentage 1	99.744 %	94.316 %	94.475 %	97.036 %	96.527 %	99.326 %	95.106 %
Concentration RSD	0.1 %	3.5 %	0.3 %	0.8 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4838 ppm	0.4961 ppm	0.4764 ppm	0.4808 ppm	0.4959 ppm	5.0197 ppm	0.4813 ppm
Concentration per Run 1	0.4834 ppm	0.4967 ppm	0.4775 ppm	0.4819 ppm	0.4957 ppm	5.0384 ppm	0.4810 ppm
Concentration per Run 2	0.4856 ppm	0.4952 ppm	0.4742 ppm	0.4804 ppm	0.4920 ppm	5.0135 ppm	0.4811 ppm
Concentration per Run 3	0.4825 ppm	0.4965 ppm	0.4775 ppm	0.4803 ppm	0.4999 ppm	5.0073 ppm	0.4818 ppm
Recovery Percentage 1	96.760 %	99.229 %	95.282 %	96.167 %	99.175 %	100.395 %	96.258 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.2 %	0.8 %	0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4787 ppm	0.4748 ppm	0.4806 ppm	9.7298 ppm	0.4960 ppm	0.4885 ppm	0.4955 ppm
Concentration per Run 1	0.4778 ppm	0.4749 ppm	0.4777 ppm	9.7240 ppm	0.4965 ppm	0.4877 ppm	0.4918 ppm
Concentration per Run 2	0.4789 ppm	0.4747 ppm	0.4830 ppm	9.6728 ppm	0.4965 ppm	0.4895 ppm	0.5011 ppm
Concentration per Run 3	0.4794 ppm	0.4749 ppm	0.4812 ppm	9.7926 ppm	0.4951 ppm	0.4883 ppm	0.4936 ppm
Recovery Percentage 1	95.742 %	94.964 %	96.123 %	97.298 %	99.208 %	97.700 %	99.106 %
Concentration RSD	0.2 %	0.0 %	0.6 %	0.6 %	0.2 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4842 ppm	5.1869 ppm	0.4679 ppm	0.4635 ppm	0.4879 ppm	0.4877 ppm	0.4738 ppm
Concentration per Run 1	0.4836 ppm	5.1833 ppm	0.4710 ppm	0.4624 ppm	0.4885 ppm	0.4875 ppm	0.4741 ppm
Concentration per Run 2	0.4897 ppm	5.1785 ppm	0.4649 ppm	0.4603 ppm	0.4875 ppm	0.4894 ppm	0.4749 ppm
Concentration per Run 3	0.4794 ppm	5.1989 ppm	0.4680 ppm	0.4677 ppm	0.4877 ppm	0.4862 ppm	0.4726 ppm
Recovery Percentage 1	96.846 %	98.798 %	93.590 %	92.696 %	97.584 %	97.536 %	94.770 %
Concentration RSD	1.1 %	0.2 %	0.6 %	0.8 %	0.1 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4924 ppm	105.9519 %	104.6522 %	105.3683 %	103.4333 %	104.1367 %	105.1334 %
Concentration per Run 1	0.4912 ppm	105.9979 %	105.0768 %	105.2552 %	103.3984 %	104.4983 %	104.9085 %
Concentration per Run 2	0.4920 ppm	105.4263 %	105.0116 %	105.5326 %	102.9455 %	104.6342 %	105.2377 %
Concentration per Run 3	0.4939 ppm	106.4314 %	103.8683 %	105.3173 %	103.9561 %	103.2777 %	105.2540 %
Recovery Percentage 1	98.477 %						
Concentration RSD	0.3 %	0.5 %	0.6 %	0.1 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:12:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0030 ppm	0.0016 ppm	0.0018 ppm	-0.0002 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0063 ppm	0.0024 ppm	0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0005 ppm	0.0093 ppm	0.0003 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	0.0007 ppm	-0.0067 ppm	0.0022 ppm	0.0040 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	6.477 %	2.959 %	32.058 %	5.887 %	-1.887 %	0.701 %	1.934 %
Concentration RSD	63.2 %	286.3 %	72.2 %	122.8 %	39.2 %	53.7 %	47.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm	0.0010 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	-0.0007 ppm	-0.0004 ppm	0.0002 ppm	0.0068 ppm	0.0114 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0037 ppm	-0.0130 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0059 ppm	0.0045 ppm	0.0007 ppm
Recovery Percentage 1	-1.496 %	-0.844 %	-2.331 %	1.383 %	10.937 %	0.039 %	20.173 %
Concentration RSD	53.1 %	413.2 %	124.1 %	60.7 %	29.9 %	1,295.6 %	106.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0000 ppm	0.0009 ppm	-0.0012 ppm	-0.0006 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0014 ppm	-0.0057 ppm	0.0003 ppm	0.0008 ppm	0.0073 ppm
Concentration per Run 2	0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0041 ppm	-0.0015 ppm	-0.0008 ppm	0.0019 ppm
Concentration per Run 3	0.0025 ppm	0.0000 ppm	0.0010 ppm	0.0062 ppm	-0.0008 ppm	-0.0001 ppm	0.0030 ppm
Recovery Percentage 1	0.751 %	0.140 %	1.867 %	-0.061 %	-2.577 %	0.064 %	8.107 %
Concentration RSD	215.1 %	798.3 %	47.1 %	531.6 %	142.2 %	12,531.0 %	70.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0035 ppm	-0.0016 ppm	0.0001 ppm	0.0006 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	-0.0039 ppm	-0.0038 ppm	-0.0008 ppm	0.0001 ppm	0.0006 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0049 ppm	-0.0016 ppm	0.0001 ppm	0.0005 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0019 ppm	-0.0024 ppm	0.0002 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-9.402 %	-0.700 %	-3.207 %	1.327 %	5.501 %	-7.070 %	-1.144 %
Concentration RSD	277.1 %	43.7 %	47.3 %	60.7 %	11.6 %	45.4 %	68.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.7018 %	101.8731 %	104.2145 %	103.8632 %	102.2396 %	104.7817 %
Concentration per Run 1	-0.0013 ppm	105.1946 %	100.1670 %	104.3556 %	104.1029 %	100.9000 %	104.6466 %
Concentration per Run 2	-0.0014 ppm	104.0640 %	103.2502 %	103.8570 %	103.3486 %	103.2319 %	104.8166 %
Concentration per Run 3	-0.0015 ppm	104.8467 %	102.2021 %	104.4309 %	104.1380 %	102.5869 %	104.8819 %
Recovery Percentage 1	-27.747 %						
Concentration RSD	10.6 %	0.6 %	1.5 %	0.3 %	0.4 %	1.2 %	0.1 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-05 WG1973830
Analysis started at: 9/24/2024 1:18:02 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0295 ppm	0.0013 ppm	0.0054 ppm	0.0055 ppm	0.0000 ppm	19.7892 ppm
Concentration per Run 1	0.0001 ppm	0.0274 ppm	0.0050 ppm	0.0049 ppm	0.0055 ppm	0.0000 ppm	19.7962 ppm
Concentration per Run 2	0.0000 ppm	0.0325 ppm	-0.0018 ppm	0.0060 ppm	0.0056 ppm	0.0000 ppm	19.8262 ppm
Concentration per Run 3	0.0001 ppm	0.0285 ppm	0.0007 ppm	0.0052 ppm	0.0055 ppm	0.0000 ppm	19.7451 ppm
Concentration RSD	98.4 %	9.1 %	260.9 %	10.6 %	1.7 %	102.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm	0.1253 ppm	0.7911 ppm	0.0033 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.1245 ppm	0.8261 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.1249 ppm	0.7855 ppm	0.0034 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0006 ppm	0.1264 ppm	0.7618 ppm	0.0029 ppm
Concentration RSD	179.3 %	174.7 %	45.3 %	208.9 %	0.8 %	4.1 %	12.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5382 ppm	0.0370 ppm	0.0006 ppm	5.9299 ppm	0.0007 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 1	2.5407 ppm	0.0366 ppm	0.0002 ppm	5.9214 ppm	0.0013 ppm	-0.0012 ppm	-0.0015 ppm
Concentration per Run 2	2.5498 ppm	0.0370 ppm	0.0010 ppm	5.9345 ppm	0.0010 ppm	0.0003 ppm	-0.0015 ppm
Concentration per Run 3	2.5241 ppm	0.0373 ppm	0.0005 ppm	5.9340 ppm	-0.0002 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	0.5 %	1.0 %	64.8 %	0.1 %	109.0 %	426.7 %	24.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	10.7220 ppm	-0.0021 ppm	0.1594 ppm	0.0009 ppm	0.0012 ppm	0.0008 ppm
Concentration per Run 1	-0.0025 ppm	10.7449 ppm	-0.0015 ppm	0.1600 ppm	0.0008 ppm	0.0030 ppm	0.0009 ppm
Concentration per Run 2	-0.0025 ppm	10.7691 ppm	-0.0017 ppm	0.1590 ppm	0.0009 ppm	0.0010 ppm	0.0009 ppm
Concentration per Run 3	-0.0048 ppm	10.6521 ppm	-0.0031 ppm	0.1593 ppm	0.0011 ppm	-0.0003 ppm	0.0007 ppm
Concentration RSD	40.8 %	0.6 %	42.9 %	0.3 %	19.1 %	138.0 %	10.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	101.9996 %	103.5650 %	101.1940 %	99.9728 %	103.3966 %	101.3565 %
Concentration per Run 1	-0.0001 ppm	100.8494 %	104.1295 %	101.0617 %	98.9643 %	104.0196 %	101.3279 %
Concentration per Run 2	-0.0002 ppm	101.8549 %	104.0053 %	101.3471 %	99.9415 %	104.0638 %	101.1535 %
Concentration per Run 3	-0.0004 ppm	103.2945 %	102.5601 %	101.1733 %	101.0124 %	102.1063 %	101.5881 %
Concentration RSD	65.3 %	1.2 %	0.8 %	0.1 %	1.0 %	1.1 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-7 WG1973830
Analysis started at: 9/24/2024 1:22:12 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0504 ppm	1.9425 ppm	0.1199 ppm	1.0075 ppm	1.9373 ppm	0.0496 ppm	29.4694 ppm
Concentration per Run 1	0.0504 ppm	1.9629 ppm	0.1233 ppm	1.0105 ppm	1.9308 ppm	0.0495 ppm	29.4702 ppm
Concentration per Run 2	0.0502 ppm	1.9419 ppm	0.1179 ppm	1.0054 ppm	1.9421 ppm	0.0497 ppm	29.5753 ppm
Concentration per Run 3	0.0506 ppm	1.9227 ppm	0.1186 ppm	1.0067 ppm	1.9390 ppm	0.0496 ppm	29.3627 ppm
Concentration RSD	0.4 %	1.0 %	2.4 %	0.3 %	0.3 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4803 ppm	0.1898 ppm	0.2431 ppm	1.0949 ppm	11.0838 ppm	0.0036 ppm
Concentration per Run 1	0.0511 ppm	0.4793 ppm	0.1898 ppm	0.2423 ppm	1.0950 ppm	11.1022 ppm	0.0043 ppm
Concentration per Run 2	0.0507 ppm	0.4807 ppm	0.1900 ppm	0.2450 ppm	1.0948 ppm	11.1017 ppm	0.0026 ppm
Concentration per Run 3	0.0511 ppm	0.4810 ppm	0.1898 ppm	0.2420 ppm	1.0947 ppm	11.0475 ppm	0.0039 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.7 %	0.0 %	0.3 %	25.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.3868 ppm	0.5244 ppm	0.9286 ppm	16.0245 ppm	0.4813 ppm	0.5188 ppm	0.4429 ppm
Concentration per Run 1	12.4098 ppm	0.5245 ppm	0.9160 ppm	16.0473 ppm	0.4831 ppm	0.5201 ppm	0.4366 ppm
Concentration per Run 2	12.3920 ppm	0.5251 ppm	0.9301 ppm	16.0532 ppm	0.4794 ppm	0.5191 ppm	0.4454 ppm
Concentration per Run 3	12.3587 ppm	0.5236 ppm	0.9397 ppm	15.9729 ppm	0.4814 ppm	0.5171 ppm	0.4469 ppm
Concentration RSD	0.2 %	0.1 %	1.3 %	0.3 %	0.4 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1174 ppm	11.5330 ppm	0.9446 ppm	1.1207 ppm	1.0032 ppm	0.1185 ppm	0.4826 ppm
Concentration per Run 1	0.1198 ppm	11.5150 ppm	0.9365 ppm	1.1167 ppm	1.0033 ppm	0.1171 ppm	0.4817 ppm
Concentration per Run 2	0.1150 ppm	11.5475 ppm	0.9505 ppm	1.1236 ppm	1.0032 ppm	0.1193 ppm	0.4836 ppm
Concentration per Run 3	0.1174 ppm	11.5366 ppm	0.9470 ppm	1.1219 ppm	1.0032 ppm	0.1192 ppm	0.4825 ppm
Concentration RSD	2.1 %	0.1 %	0.8 %	0.3 %	0.0 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4877 ppm	104.6951 %	104.3733 %	101.3178 %	102.0459 %	103.3078 %	102.6286 %
Concentration per Run 1	0.4876 ppm	104.2966 %	104.7915 %	100.6535 %	101.4809 %	104.2867 %	102.2655 %
Concentration per Run 2	0.4890 ppm	104.8956 %	104.3123 %	102.0234 %	102.5884 %	103.7620 %	103.3091 %
Concentration per Run 3	0.4863 ppm	104.8929 %	104.0162 %	101.2764 %	102.0684 %	101.8746 %	102.3112 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.7 %	0.5 %	1.2 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-8 WG1973830
Analysis started at: 9/24/2024 1:26:07 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	1.9612 ppm	0.1206 ppm	1.0165 ppm	1.9607 ppm	0.0501 ppm	29.7627 ppm
Concentration per Run 1	0.0506 ppm	1.9582 ppm	0.1221 ppm	1.0179 ppm	1.9501 ppm	0.0500 ppm	29.5757 ppm
Concentration per Run 2	0.0502 ppm	1.9683 ppm	0.1206 ppm	1.0140 ppm	1.9630 ppm	0.0502 ppm	29.7567 ppm
Concentration per Run 3	0.0499 ppm	1.9573 ppm	0.1190 ppm	1.0177 ppm	1.9689 ppm	0.0502 ppm	29.9556 ppm
Concentration RSD	0.7 %	0.3 %	1.3 %	0.2 %	0.5 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4817 ppm	0.1907 ppm	0.2440 ppm	1.0988 ppm	11.2959 ppm	0.0039 ppm
Concentration per Run 1	0.0516 ppm	0.4837 ppm	0.1906 ppm	0.2447 ppm	1.0992 ppm	11.2637 ppm	0.0041 ppm
Concentration per Run 2	0.0511 ppm	0.4803 ppm	0.1894 ppm	0.2437 ppm	1.0959 ppm	11.3402 ppm	0.0028 ppm
Concentration per Run 3	0.0504 ppm	0.4811 ppm	0.1921 ppm	0.2436 ppm	1.1013 ppm	11.2839 ppm	0.0049 ppm
Concentration RSD	1.2 %	0.4 %	0.7 %	0.2 %	0.2 %	0.4 %	26.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.5239 ppm	0.5281 ppm	0.9485 ppm	16.1882 ppm	0.4818 ppm	0.5254 ppm	0.4434 ppm
Concentration per Run 1	12.5652 ppm	0.5257 ppm	0.9387 ppm	16.0882 ppm	0.4822 ppm	0.5245 ppm	0.4440 ppm
Concentration per Run 2	12.4730 ppm	0.5303 ppm	0.9445 ppm	16.2037 ppm	0.4795 ppm	0.5242 ppm	0.4343 ppm
Concentration per Run 3	12.5336 ppm	0.5284 ppm	0.9623 ppm	16.2727 ppm	0.4836 ppm	0.5274 ppm	0.4520 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	0.6 %	0.4 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1191 ppm	11.5678 ppm	0.9670 ppm	1.1342 ppm	1.0173 ppm	0.1212 ppm	0.4847 ppm
Concentration per Run 1	0.1176 ppm	11.6250 ppm	0.9667 ppm	1.1265 ppm	1.0201 ppm	0.1220 ppm	0.4859 ppm
Concentration per Run 2	0.1197 ppm	11.5317 ppm	0.9591 ppm	1.1350 ppm	1.0126 ppm	0.1217 ppm	0.4840 ppm
Concentration per Run 3	0.1201 ppm	11.5467 ppm	0.9754 ppm	1.1411 ppm	1.0193 ppm	0.1200 ppm	0.4842 ppm
Concentration RSD	1.1 %	0.4 %	0.8 %	0.6 %	0.4 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4906 ppm	104.3579 %	104.0609 %	101.3563 %	101.6725 %	103.2578 %	102.4524 %
Concentration per Run 1	0.4917 ppm	103.4994 %	103.9539 %	101.2998 %	100.8655 %	103.0511 %	102.5422 %
Concentration per Run 2	0.4889 ppm	105.5842 %	103.8017 %	102.1214 %	102.9821 %	103.2157 %	103.0759 %
Concentration per Run 3	0.4911 ppm	103.9901 %	104.4270 %	100.6476 %	101.1698 %	103.5067 %	101.7391 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.7 %	1.1 %	0.2 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-9 WG1973830
Analysis started at: 9/24/2024 1:30:02 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	2.0567 ppm	0.1246 ppm	1.0521 ppm	2.0371 ppm	0.0523 ppm	29.6472 ppm
Concentration per Run 1	0.0501 ppm	2.0709 ppm	0.1219 ppm	1.0494 ppm	2.0388 ppm	0.0525 ppm	29.7526 ppm
Concentration per Run 2	0.0502 ppm	2.0432 ppm	0.1246 ppm	1.0499 ppm	2.0455 ppm	0.0523 ppm	29.7408 ppm
Concentration per Run 3	0.0500 ppm	2.0560 ppm	0.1273 ppm	1.0571 ppm	2.0269 ppm	0.0522 ppm	29.4483 ppm
Concentration RSD	0.2 %	0.7 %	2.2 %	0.4 %	0.5 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0536 ppm	0.5054 ppm	0.2005 ppm	0.2556 ppm	1.1678 ppm	11.6079 ppm	0.0024 ppm
Concentration per Run 1	0.0534 ppm	0.5051 ppm	0.1998 ppm	0.2556 ppm	1.1653 ppm	11.6032 ppm	0.0016 ppm
Concentration per Run 2	0.0538 ppm	0.5060 ppm	0.2003 ppm	0.2548 ppm	1.1749 ppm	11.6450 ppm	0.0029 ppm
Concentration per Run 3	0.0536 ppm	0.5053 ppm	0.2014 ppm	0.2562 ppm	1.1632 ppm	11.5754 ppm	0.0027 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.3 %	0.5 %	0.3 %	28.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.8559 ppm	0.5513 ppm	0.9780 ppm	16.5702 ppm	0.5060 ppm	0.5405 ppm	0.3755 ppm
Concentration per Run 1	12.8634 ppm	0.5529 ppm	0.9619 ppm	16.6360 ppm	0.5045 ppm	0.5440 ppm	0.3594 ppm
Concentration per Run 2	12.8471 ppm	0.5516 ppm	0.9816 ppm	16.6128 ppm	0.5074 ppm	0.5406 ppm	0.3726 ppm
Concentration per Run 3	12.8573 ppm	0.5492 ppm	0.9905 ppm	16.4617 ppm	0.5061 ppm	0.5370 ppm	0.3946 ppm
Concentration RSD	0.1 %	0.3 %	1.5 %	0.6 %	0.3 %	0.6 %	4.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1197 ppm	11.3890 ppm	1.0192 ppm	1.1634 ppm	1.0560 ppm	0.1239 ppm	0.5085 ppm
Concentration per Run 1	0.1180 ppm	11.3885 ppm	1.0101 ppm	1.1645 ppm	1.0503 ppm	0.1249 ppm	0.5085 ppm
Concentration per Run 2	0.1193 ppm	11.3791 ppm	1.0239 ppm	1.1692 ppm	1.0618 ppm	0.1226 ppm	0.5090 ppm
Concentration per Run 3	0.1218 ppm	11.3994 ppm	1.0237 ppm	1.1566 ppm	1.0558 ppm	0.1242 ppm	0.5079 ppm
Concentration RSD	1.6 %	0.1 %	0.8 %	0.5 %	0.5 %	1.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5168 ppm	103.9719 %	104.2914 %	100.8299 %	101.2737 %	103.6050 %	101.7775 %
Concentration per Run 1	0.5149 ppm	103.7734 %	103.5698 %	99.8499 %	101.1776 %	103.1378 %	100.9754 %
Concentration per Run 2	0.5201 ppm	103.7420 %	104.0697 %	101.1188 %	100.9403 %	103.4058 %	102.3486 %
Concentration per Run 3	0.5154 ppm	104.4002 %	105.2347 %	101.5209 %	101.7031 %	104.2715 %	102.0085 %
Concentration RSD	0.6 %	0.4 %	0.8 %	0.9 %	0.4 %	0.6 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-10D5 WG1973830
Analysis started at: 9/24/2024 1:33:57 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0077 ppm	0.0021 ppm	0.0025 ppm	0.0011 ppm	0.0000 ppm	3.9449 ppm
Concentration per Run 1	0.0004 ppm	0.0057 ppm	0.0023 ppm	0.0033 ppm	0.0010 ppm	0.0000 ppm	3.9369 ppm
Concentration per Run 2	0.0004 ppm	0.0026 ppm	0.0038 ppm	0.0009 ppm	0.0011 ppm	0.0000 ppm	3.9402 ppm
Concentration per Run 3	0.0007 ppm	0.0149 ppm	0.0002 ppm	0.0034 ppm	0.0010 ppm	0.0000 ppm	3.9575 ppm
Concentration RSD	34.8 %	82.7 %	86.8 %	54.5 %	4.3 %	340.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0283 ppm	0.1576 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0307 ppm	0.1507 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0274 ppm	0.1663 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0004 ppm	0.0268 ppm	0.1558 ppm	0.0015 ppm
Concentration RSD	355.6 %	319.6 %	379.9 %	1,647.2 %	7.4 %	5.0 %	46.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5007 ppm	0.0076 ppm	0.0059 ppm	1.1846 ppm	0.0004 ppm	0.0004 ppm	0.0120 ppm
Concentration per Run 1	0.5000 ppm	0.0076 ppm	0.0064 ppm	1.1846 ppm	0.0010 ppm	-0.0001 ppm	0.0150 ppm
Concentration per Run 2	0.4985 ppm	0.0076 ppm	0.0058 ppm	1.1761 ppm	0.0003 ppm	0.0004 ppm	0.0081 ppm
Concentration per Run 3	0.5037 ppm	0.0075 ppm	0.0056 ppm	1.1930 ppm	0.0000 ppm	0.0008 ppm	0.0129 ppm
Concentration RSD	0.5 %	1.3 %	7.2 %	0.7 %	125.7 %	114.6 %	29.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	2.0633 ppm	0.0197 ppm	0.0320 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0009 ppm	2.0562 ppm	0.0198 ppm	0.0319 ppm	0.0011 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	2.0540 ppm	0.0202 ppm	0.0322 ppm	0.0008 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	-0.0048 ppm	2.0797 ppm	0.0192 ppm	0.0320 ppm	0.0005 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	71.6 %	0.7 %	2.7 %	0.5 %	37.2 %	745.3 %	75.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0009 ppm	105.6021 %	104.2920 %	105.0187 %	103.4454 %	103.6187 %	104.9009 %
Concentration per Run 1	-0.0009 ppm	106.5530 %	105.0390 %	105.7641 %	104.4160 %	104.5943 %	105.1170 %
Concentration per Run 2	-0.0008 ppm	105.0902 %	104.4178 %	104.8645 %	102.6985 %	103.2876 %	105.1140 %
Concentration per Run 3	-0.0009 ppm	105.1630 %	103.4192 %	104.4275 %	103.2217 %	102.9741 %	104.4718 %
Concentration RSD	3.6 %	0.8 %	0.8 %	0.6 %	0.9 %	0.8 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453016-04 WG1975268
Analysis started at: 9/24/2024 1:37:51 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.2038 ppm	0.0015 ppm	0.8367 ppm	0.0097 ppm	0.0000 ppm	6.1100 ppm
Concentration per Run 1	-0.0004 ppm	0.2083 ppm	0.0055 ppm	0.8416 ppm	0.0098 ppm	0.0000 ppm	6.0937 ppm
Concentration per Run 2	0.0004 ppm	0.2047 ppm	-0.0028 ppm	0.8356 ppm	0.0096 ppm	0.0000 ppm	6.1234 ppm
Concentration per Run 3	0.0006 ppm	0.1985 ppm	0.0017 ppm	0.8328 ppm	0.0098 ppm	0.0000 ppm	6.1130 ppm
Concentration RSD	277.9 %	2.4 %	286.3 %	0.5 %	1.0 %	8,111.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0043 ppm	0.0062 ppm	0.0178 ppm	2.4353 ppm	0.0052 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0045 ppm	0.0063 ppm	0.0187 ppm	2.4362 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0045 ppm	0.0063 ppm	0.0171 ppm	2.4355 ppm	0.0053 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0040 ppm	0.0061 ppm	0.0175 ppm	2.4344 ppm	0.0058 ppm
Concentration RSD	54.8 %	98.8 %	6.2 %	1.3 %	4.8 %	0.0 %	11.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9919 ppm	0.0733 ppm	0.0022 ppm	288.8625 ppm	0.2218 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	1.9905 ppm	0.0732 ppm	0.0023 ppm	288.2381 ppm	0.2247 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 2	2.0004 ppm	0.0737 ppm	0.0020 ppm	289.6128 ppm	0.2216 ppm	0.0013 ppm	0.0063 ppm
Concentration per Run 3	1.9849 ppm	0.0730 ppm	0.0022 ppm	288.7364 ppm	0.2191 ppm	-0.0001 ppm	-0.0047 ppm
Concentration RSD	0.4 %	0.5 %	8.3 %	0.2 %	1.3 %	110.6 %	725.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	1.1780 ppm	-0.0007 ppm	0.0518 ppm	0.0007 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	-0.0029 ppm	1.1757 ppm	0.0003 ppm	0.0519 ppm	0.0008 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	1.1827 ppm	-0.0005 ppm	0.0518 ppm	0.0007 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	-0.0046 ppm	1.1756 ppm	-0.0020 ppm	0.0518 ppm	0.0007 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	92.9 %	0.3 %	158.6 %	0.1 %	10.8 %	92.1 %	68.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0189 ppm	100.1653 %	102.0721 %	94.0931 %	97.7640 %	101.3925 %	99.2409 %
Concentration per Run 1	0.0188 ppm	99.9506 %	102.8105 %	93.6910 %	97.8365 %	102.4348 %	98.9765 %
Concentration per Run 2	0.0188 ppm	99.9183 %	102.0388 %	94.1514 %	97.1659 %	101.1175 %	98.9987 %
Concentration per Run 3	0.0190 ppm	100.6270 %	101.3671 %	94.4370 %	98.2894 %	100.6253 %	99.7474 %
Concentration RSD	0.7 %	0.4 %	0.7 %	0.4 %	0.6 %	0.9 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-3 WG1975268
Analysis started at: 9/24/2024 1:41:46 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0494 ppm	2.1500 ppm	0.1267 ppm	1.7725 ppm	1.9665 ppm	0.0501 ppm	15.8640 ppm
Concentration per Run 1	0.0491 ppm	2.1624 ppm	0.1240 ppm	1.7728 ppm	1.9659 ppm	0.0501 ppm	15.8440 ppm
Concentration per Run 2	0.0496 ppm	2.1597 ppm	0.1274 ppm	1.7685 ppm	1.9659 ppm	0.0504 ppm	15.9087 ppm
Concentration per Run 3	0.0495 ppm	2.1281 ppm	0.1287 ppm	1.7762 ppm	1.9678 ppm	0.0499 ppm	15.8393 ppm
Concentration RSD	0.5 %	0.9 %	1.9 %	0.2 %	0.1 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0525 ppm	0.4918 ppm	0.1956 ppm	0.2499 ppm	1.0183 ppm	12.4678 ppm	0.0054 ppm
Concentration per Run 1	0.0522 ppm	0.4908 ppm	0.1948 ppm	0.2495 ppm	1.0228 ppm	12.4461 ppm	0.0061 ppm
Concentration per Run 2	0.0519 ppm	0.4876 ppm	0.1962 ppm	0.2495 ppm	1.0211 ppm	12.4682 ppm	0.0044 ppm
Concentration per Run 3	0.0533 ppm	0.4970 ppm	0.1958 ppm	0.2507 ppm	1.0109 ppm	12.4891 ppm	0.0059 ppm
Concentration RSD	1.4 %	1.0 %	0.4 %	0.3 %	0.6 %	0.2 %	16.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.4502 ppm	0.5677 ppm	0.9136 ppm	290.8890 ppm	0.7107 ppm	0.5273 ppm	0.5009 ppm
Concentration per Run 1	11.4264 ppm	0.5671 ppm	0.8964 ppm	290.6259 ppm	0.7076 ppm	0.5284 ppm	0.5054 ppm
Concentration per Run 2	11.4355 ppm	0.5697 ppm	0.9125 ppm	290.9389 ppm	0.7105 ppm	0.5262 ppm	0.4944 ppm
Concentration per Run 3	11.4887 ppm	0.5663 ppm	0.9319 ppm	291.1022 ppm	0.7139 ppm	0.5272 ppm	0.5029 ppm
Concentration RSD	0.3 %	0.3 %	1.9 %	0.1 %	0.4 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1206 ppm	1.7979 ppm	0.9167 ppm	0.9892 ppm	0.9844 ppm	0.1151 ppm	0.4982 ppm
Concentration per Run 1	0.1194 ppm	1.7906 ppm	0.9133 ppm	0.9910 ppm	0.9769 ppm	0.1163 ppm	0.4983 ppm
Concentration per Run 2	0.1211 ppm	1.8003 ppm	0.9139 ppm	0.9902 ppm	0.9884 ppm	0.1140 ppm	0.4964 ppm
Concentration per Run 3	0.1211 ppm	1.8028 ppm	0.9229 ppm	0.9864 ppm	0.9878 ppm	0.1150 ppm	0.5000 ppm
Concentration RSD	0.8 %	0.4 %	0.6 %	0.2 %	0.7 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5393 ppm	100.3092 %	102.9875 %	94.4257 %	97.4936 %	101.7898 %	99.2293 %
Concentration per Run 1	0.5410 ppm	99.9066 %	103.3682 %	94.7502 %	97.0235 %	102.2633 %	99.6657 %
Concentration per Run 2	0.5360 ppm	101.3517 %	102.5117 %	94.3423 %	98.5647 %	101.3442 %	99.1159 %
Concentration per Run 3	0.5410 ppm	99.6693 %	103.0827 %	94.1846 %	96.8925 %	101.7620 %	98.9064 %
Concentration RSD	0.5 %	0.9 %	0.4 %	0.3 %	1.0 %	0.5 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-4 WG1975268
Analysis started at: 9/24/2024 1:45:40 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.2042 ppm	0.0006 ppm	0.8404 ppm	0.0096 ppm	0.0000 ppm	6.0766 ppm
Concentration per Run 1	0.0007 ppm	0.1990 ppm	0.0006 ppm	0.8386 ppm	0.0095 ppm	0.0000 ppm	6.0547 ppm
Concentration per Run 2	-0.0001 ppm	0.2002 ppm	0.0008 ppm	0.8434 ppm	0.0095 ppm	0.0000 ppm	6.0826 ppm
Concentration per Run 3	0.0007 ppm	0.2135 ppm	0.0005 ppm	0.8393 ppm	0.0097 ppm	0.0000 ppm	6.0925 ppm
Concentration RSD	106.7 %	3.9 %	27.5 %	0.3 %	1.4 %	371.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0041 ppm	0.0064 ppm	0.0176 ppm	2.4519 ppm	0.0047 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0042 ppm	0.0068 ppm	0.0179 ppm	2.4532 ppm	0.0066 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0039 ppm	0.0059 ppm	0.0163 ppm	2.4285 ppm	0.0034 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0042 ppm	0.0064 ppm	0.0187 ppm	2.4741 ppm	0.0041 ppm
Concentration RSD	72.5 %	320.3 %	3.3 %	7.0 %	7.1 %	0.9 %	35.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9796 ppm	0.0729 ppm	0.0055 ppm	286.5780 ppm	0.2215 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	1.9817 ppm	0.0733 ppm	0.0053 ppm	285.5084 ppm	0.2219 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 2	1.9833 ppm	0.0727 ppm	0.0057 ppm	286.2629 ppm	0.2206 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 3	1.9739 ppm	0.0728 ppm	0.0054 ppm	287.9626 ppm	0.2219 ppm	0.0009 ppm	-0.0011 ppm
Concentration RSD	0.3 %	0.5 %	4.3 %	0.4 %	0.3 %	110.9 %	383.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	1.1708 ppm	0.0044 ppm	0.0513 ppm	0.0012 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0003 ppm	1.1658 ppm	0.0047 ppm	0.0513 ppm	0.0012 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0030 ppm	1.1737 ppm	0.0045 ppm	0.0511 ppm	0.0011 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 3	-0.0017 ppm	1.1729 ppm	0.0040 ppm	0.0514 ppm	0.0012 ppm	0.0022 ppm	0.0004 ppm
Concentration RSD	113.9 %	0.4 %	8.3 %	0.3 %	4.4 %	189.1 %	69.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0189 ppm	99.9702 %	102.4325 %	94.3680 %	97.6722 %	101.7019 %	99.2013 %
Concentration per Run 1	0.0187 ppm	100.3269 %	103.0123 %	95.2225 %	98.1573 %	101.8591 %	99.9090 %
Concentration per Run 2	0.0191 ppm	99.4883 %	102.8452 %	93.8360 %	97.2424 %	102.1999 %	98.6422 %
Concentration per Run 3	0.0188 ppm	100.0952 %	101.4399 %	94.0455 %	97.6168 %	101.0466 %	99.0526 %
Concentration RSD	1.0 %	0.4 %	0.8 %	0.8 %	0.5 %	0.6 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-5 WG1975268
Analysis started at: 9/24/2024 1:49:34 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0478 ppm	2.2133 ppm	0.1269 ppm	1.8343 ppm	2.0208 ppm	0.0517 ppm	16.4660 ppm
Concentration per Run 1	0.0483 ppm	2.2120 ppm	0.1250 ppm	1.8316 ppm	2.0213 ppm	0.0518 ppm	16.4174 ppm
Concentration per Run 2	0.0473 ppm	2.2125 ppm	0.1284 ppm	1.8405 ppm	2.0243 ppm	0.0518 ppm	16.4813 ppm
Concentration per Run 3	0.0479 ppm	2.2155 ppm	0.1273 ppm	1.8308 ppm	2.0169 ppm	0.0516 ppm	16.4993 ppm
Concentration RSD	1.0 %	0.1 %	1.4 %	0.3 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0537 ppm	0.5029 ppm	0.2009 ppm	0.2574 ppm	1.0535 ppm	13.1913 ppm	0.0049 ppm
Concentration per Run 1	0.0538 ppm	0.5033 ppm	0.2011 ppm	0.2570 ppm	1.0586 ppm	13.1766 ppm	0.0060 ppm
Concentration per Run 2	0.0533 ppm	0.5030 ppm	0.2014 ppm	0.2569 ppm	1.0473 ppm	13.2426 ppm	0.0043 ppm
Concentration per Run 3	0.0541 ppm	0.5024 ppm	0.2001 ppm	0.2583 ppm	1.0546 ppm	13.1545 ppm	0.0044 ppm
Concentration RSD	0.8 %	0.1 %	0.3 %	0.3 %	0.5 %	0.3 %	19.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.0707 ppm	0.5792 ppm	0.9709 ppm	288.1337 ppm	0.7221 ppm	0.5413 ppm	0.3636 ppm
Concentration per Run 1	12.0521 ppm	0.5796 ppm	0.9586 ppm	287.2690 ppm	0.7226 ppm	0.5416 ppm	0.3485 ppm
Concentration per Run 2	12.0308 ppm	0.5786 ppm	0.9705 ppm	289.0735 ppm	0.7250 ppm	0.5406 ppm	0.3660 ppm
Concentration per Run 3	12.1293 ppm	0.5795 ppm	0.9835 ppm	288.0586 ppm	0.7186 ppm	0.5415 ppm	0.3764 ppm
Concentration RSD	0.4 %	0.1 %	1.3 %	0.3 %	0.4 %	0.1 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1263 ppm	2.2170 ppm	0.9994 ppm	1.0508 ppm	1.0540 ppm	0.1188 ppm	0.5107 ppm
Concentration per Run 1	0.1289 ppm	2.2232 ppm	0.9982 ppm	1.0503 ppm	1.0523 ppm	0.1176 ppm	0.5107 ppm
Concentration per Run 2	0.1225 ppm	2.2064 ppm	0.9984 ppm	1.0537 ppm	1.0538 ppm	0.1193 ppm	0.5086 ppm
Concentration per Run 3	0.1277 ppm	2.2213 ppm	1.0016 ppm	1.0485 ppm	1.0560 ppm	0.1195 ppm	0.5127 ppm
Concentration RSD	2.7 %	0.4 %	0.2 %	0.3 %	0.2 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5528 ppm	100.2038 %	103.1343 %	94.0897 %	97.3239 %	102.1415 %	98.3925 %
Concentration per Run 1	0.5526 ppm	99.5284 %	103.7697 %	93.8130 %	96.8312 %	102.7966 %	98.1351 %
Concentration per Run 2	0.5530 ppm	100.6004 %	103.1234 %	94.1339 %	97.7283 %	102.2446 %	98.1759 %
Concentration per Run 3	0.5528 ppm	100.4824 %	102.5099 %	94.3220 %	97.4122 %	101.3833 %	98.8666 %
Concentration RSD	0.0 %	0.6 %	0.6 %	0.3 %	0.5 %	0.7 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-6D5 WG1975268
Analysis started at: 9/24/2024 1:53:29 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0468 ppm	0.0010 ppm	0.1753 ppm	0.0019 ppm	0.0000 ppm	1.2265 ppm
Concentration per Run 1	0.0002 ppm	0.0458 ppm	0.0004 ppm	0.1776 ppm	0.0020 ppm	0.0000 ppm	1.2267 ppm
Concentration per Run 2	0.0006 ppm	0.0539 ppm	0.0029 ppm	0.1721 ppm	0.0020 ppm	-0.0001 ppm	1.2379 ppm
Concentration per Run 3	0.0001 ppm	0.0405 ppm	-0.0004 ppm	0.1761 ppm	0.0018 ppm	0.0000 ppm	1.2150 ppm
Concentration RSD	97.8 %	14.5 %	179.0 %	1.6 %	5.3 %	382.0 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0012 ppm	0.0087 ppm	0.5197 ppm	0.0017 ppm
Concentration per Run 1	0.0003 ppm	-0.0003 ppm	0.0008 ppm	0.0012 ppm	0.0079 ppm	0.5360 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0087 ppm	0.5302 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0014 ppm	0.0016 ppm	0.0096 ppm	0.4931 ppm	0.0018 ppm
Concentration RSD	53.5 %	70.2 %	25.8 %	23.7 %	10.0 %	4.5 %	9.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4092 ppm	0.0148 ppm	0.0057 ppm	58.9132 ppm	0.0464 ppm	-0.0002 ppm	0.0102 ppm
Concentration per Run 1	0.4086 ppm	0.0147 ppm	0.0060 ppm	58.5687 ppm	0.0453 ppm	-0.0002 ppm	0.0101 ppm
Concentration per Run 2	0.4070 ppm	0.0151 ppm	0.0051 ppm	59.2229 ppm	0.0476 ppm	-0.0003 ppm	0.0113 ppm
Concentration per Run 3	0.4119 ppm	0.0148 ppm	0.0059 ppm	58.9478 ppm	0.0463 ppm	-0.0001 ppm	0.0090 ppm
Concentration RSD	0.6 %	1.4 %	8.8 %	0.6 %	2.5 %	40.7 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.2309 ppm	0.0164 ppm	0.0105 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.2297 ppm	0.0166 ppm	0.0105 ppm	0.0007 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.2331 ppm	0.0158 ppm	0.0106 ppm	0.0007 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0035 ppm	0.2300 ppm	0.0169 ppm	0.0104 ppm	0.0005 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	84.4 %	0.8 %	3.3 %	0.7 %	22.6 %	208.5 %	9,340.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	103.6059 %	104.0248 %	101.3966 %	101.2539 %	103.2818 %	102.7055 %
Concentration per Run 1	0.0028 ppm	104.3588 %	103.5298 %	102.0495 %	102.0120 %	102.5659 %	103.3936 %
Concentration per Run 2	0.0028 ppm	103.8564 %	103.9633 %	100.0091 %	101.3934 %	103.5216 %	101.4759 %
Concentration per Run 3	0.0029 ppm	102.6024 %	104.5812 %	102.1312 %	100.3562 %	103.7580 %	103.2471 %
Concentration RSD	2.6 %	0.9 %	0.5 %	1.2 %	0.8 %	0.6 %	1.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:57:24 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4975 ppm	0.4752 ppm	0.4768 ppm	0.4832 ppm	0.4879 ppm	0.4989 ppm	0.4781 ppm
Concentration per Run 1	0.5003 ppm	0.4714 ppm	0.4767 ppm	0.4847 ppm	0.4897 ppm	0.4987 ppm	0.4808 ppm
Concentration per Run 2	0.4963 ppm	0.4750 ppm	0.4782 ppm	0.4818 ppm	0.4904 ppm	0.5015 ppm	0.4784 ppm
Concentration per Run 3	0.4961 ppm	0.4794 ppm	0.4756 ppm	0.4832 ppm	0.4836 ppm	0.4965 ppm	0.4752 ppm
Recovery Percentage 1	99.510 %	95.048 %	95.364 %	96.638 %	97.580 %	99.776 %	95.623 %
Concentration RSD	0.5 %	0.8 %	0.3 %	0.3 %	0.8 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4877 ppm	0.4974 ppm	0.4761 ppm	0.4787 ppm	0.4917 ppm	5.0326 ppm	0.4843 ppm
Concentration per Run 1	0.4871 ppm	0.4960 ppm	0.4776 ppm	0.4817 ppm	0.4957 ppm	5.0473 ppm	0.4857 ppm
Concentration per Run 2	0.4915 ppm	0.4989 ppm	0.4738 ppm	0.4769 ppm	0.4900 ppm	5.0351 ppm	0.4827 ppm
Concentration per Run 3	0.4846 ppm	0.4973 ppm	0.4769 ppm	0.4774 ppm	0.4896 ppm	5.0154 ppm	0.4844 ppm
Recovery Percentage 1	97.544 %	99.484 %	95.216 %	95.736 %	98.348 %	100.653 %	96.855 %
Concentration RSD	0.7 %	0.3 %	0.4 %	0.6 %	0.7 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4765 ppm	0.4773 ppm	0.4796 ppm	9.7926 ppm	0.4945 ppm	0.4873 ppm	0.4945 ppm
Concentration per Run 1	0.4767 ppm	0.4789 ppm	0.4770 ppm	9.8087 ppm	0.4958 ppm	0.4877 ppm	0.5031 ppm
Concentration per Run 2	0.4769 ppm	0.4791 ppm	0.4802 ppm	9.8465 ppm	0.4931 ppm	0.4887 ppm	0.4965 ppm
Concentration per Run 3	0.4758 ppm	0.4739 ppm	0.4817 ppm	9.7227 ppm	0.4946 ppm	0.4855 ppm	0.4839 ppm
Recovery Percentage 1	95.295 %	95.460 %	95.925 %	97.926 %	98.904 %	97.458 %	98.904 %
Concentration RSD	0.1 %	0.6 %	0.5 %	0.6 %	0.3 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4880 ppm	5.1768 ppm	0.4776 ppm	0.4677 ppm	0.4867 ppm	0.4882 ppm	0.4737 ppm
Concentration per Run 1	0.4908 ppm	5.1883 ppm	0.4796 ppm	0.4694 ppm	0.4883 ppm	0.4860 ppm	0.4749 ppm
Concentration per Run 2	0.4910 ppm	5.1756 ppm	0.4769 ppm	0.4702 ppm	0.4855 ppm	0.4899 ppm	0.4729 ppm
Concentration per Run 3	0.4822 ppm	5.1667 ppm	0.4765 ppm	0.4633 ppm	0.4863 ppm	0.4886 ppm	0.4734 ppm
Recovery Percentage 1	97.600 %	98.606 %	95.526 %	93.531 %	97.336 %	97.636 %	94.748 %
Concentration RSD	1.0 %	0.2 %	0.4 %	0.8 %	0.3 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4926 ppm	105.5236 %	105.2175 %	104.2727 %	102.7426 %	104.2023 %	104.2886 %
Concentration per Run 1	0.4941 ppm	105.9148 %	105.5087 %	104.2614 %	103.1319 %	104.8352 %	104.2562 %
Concentration per Run 2	0.4912 ppm	105.5666 %	104.7247 %	103.9281 %	102.5602 %	103.7006 %	104.0123 %
Concentration per Run 3	0.4925 ppm	105.0893 %	105.4192 %	104.6286 %	102.5355 %	104.0710 %	104.5972 %
Recovery Percentage 1	98.526 %						
Concentration RSD	0.3 %	0.4 %	0.4 %	0.3 %	0.3 %	0.6 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:01:18 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0034 ppm	0.0021 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	0.0038 ppm	-0.0023 ppm	-0.0001 ppm	0.0000 ppm	-0.0065 ppm
Concentration per Run 2	0.0005 ppm	-0.0112 ppm	0.0007 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0018 ppm	0.0027 ppm	-0.0001 ppm	0.0001 ppm	-0.0039 ppm
Recovery Percentage 1	4.554 %	-3.402 %	41.975 %	2.069 %	-1.156 %	0.716 %	-3.427 %
Concentration RSD	132.4 %	197.7 %	74.1 %	423.2 %	26.7 %	155.1 %	96.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0027 ppm	0.0206 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0132 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0026 ppm	0.0033 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm	0.0454 ppm	0.0015 ppm
Recovery Percentage 1	1.154 %	-1.262 %	1.477 %	-0.873 %	5.458 %	0.826 %	31.874 %
Concentration RSD	98.7 %	201.5 %	109.2 %	295.0 %	11.2 %	106.7 %	23.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0020 ppm	0.0114 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0015 ppm	-0.0001 ppm	0.0020 ppm	0.0165 ppm	0.0002 ppm	-0.0002 ppm	0.0054 ppm
Concentration per Run 2	0.0018 ppm	0.0000 ppm	0.0024 ppm	0.0086 ppm	0.0008 ppm	0.0004 ppm	-0.0059 ppm
Concentration per Run 3	0.0009 ppm	-0.0003 ppm	0.0015 ppm	0.0090 ppm	0.0011 ppm	-0.0006 ppm	0.0020 ppm
Recovery Percentage 1	0.409 %	-1.062 %	3.967 %	0.569 %	2.736 %	-1.170 %	1.016 %
Concentration RSD	417.1 %	139.8 %	21.0 %	39.2 %	62.1 %	452.2 %	1,136.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	-0.0036 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0042 ppm	-0.0044 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0018 ppm	-0.0040 ppm	0.0010 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	15.234 %	-0.715 %	0.750 %	0.189 %	3.192 %	1.917 %	0.371 %
Concentration RSD	183.3 %	30.1 %	141.9 %	183.1 %	46.6 %	250.2 %	802.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.5853 %	103.3611 %	103.3420 %	103.5522 %	103.2276 %	104.0235 %
Concentration per Run 1	-0.0016 ppm	109.2550 %	103.2387 %	102.9411 %	108.4400 %	103.1723 %	103.8465 %
Concentration per Run 2	-0.0014 ppm	101.8783 %	104.1941 %	105.0558 %	100.0529 %	103.5384 %	105.5140 %
Concentration per Run 3	-0.0013 ppm	102.6226 %	102.6506 %	102.0292 %	102.1636 %	102.9721 %	102.7099 %
Recovery Percentage 1	-28.935 %						
Concentration RSD	11.9 %	3.9 %	0.8 %	1.5 %	4.2 %	0.3 %	1.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-10 WG1973830
Analysis started at: 9/24/2024 2:07:42 PM
Rack 2
Vial 22
Comment EB

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0006 ppm	0.0015 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 1	0.0006 ppm	-0.0019 ppm	0.0023 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 2	0.0001 ppm	0.0047 ppm	0.0023 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0142 ppm
Concentration per Run 3	0.0000 ppm	-0.0045 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0182 ppm
Concentration RSD	121.3 %	838.2 %	84.1 %	7.9 %	127.6 %	84.1 %	12.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm	0.0028 ppm	-0.0213 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm	0.0052 ppm	-0.0499 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0010 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0198 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0023 ppm	0.0057 ppm	0.0010 ppm
Concentration RSD	621.6 %	137.4 %	37.3 %	269.5 %	80.4 %	130.6 %	82.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0149 ppm	-0.0006 ppm	-0.0002 ppm	-0.0023 ppm
Concentration per Run 1	0.0010 ppm	-0.0002 ppm	-0.0002 ppm	0.0206 ppm	-0.0006 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0097 ppm	0.0000 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 3	-0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0143 ppm	-0.0011 ppm	0.0001 ppm	-0.0013 ppm
Concentration RSD	231.1 %	399.3 %	946.7 %	37.0 %	100.0 %	207.5 %	104.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0012 ppm	-0.0027 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	0.0004 ppm	-0.0024 ppm	0.0005 ppm	0.0005 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 2	0.0022 ppm	0.0004 ppm	-0.0029 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.0029 ppm	-0.0027 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0003 ppm
Concentration RSD	963.4 %	119.8 %	8.6 %	67.7 %	51.4 %	7,923.9 %	44.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	105.5787 %	103.9237 %	105.2557 %	104.7348 %	103.1828 %	105.1345 %
Concentration per Run 1	-0.0007 ppm	105.7571 %	103.7171 %	104.9815 %	105.0942 %	102.9820 %	104.8264 %
Concentration per Run 2	-0.0006 ppm	105.6069 %	105.2273 %	105.4719 %	104.7787 %	104.1655 %	105.1500 %
Concentration per Run 3	-0.0009 ppm	105.3720 %	102.8267 %	105.3138 %	104.3315 %	102.4010 %	105.4271 %
Concentration RSD	18.1 %	0.2 %	1.2 %	0.2 %	0.4 %	0.9 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-01 WG1973830
Analysis started at: 9/24/2024 2:11:43 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0089 ppm	-0.0006 ppm	0.0212 ppm	0.0189 ppm	0.0000 ppm	21.5882 ppm
Concentration per Run 1	0.0003 ppm	0.0123 ppm	0.0014 ppm	0.0222 ppm	0.0189 ppm	0.0000 ppm	21.5797 ppm
Concentration per Run 2	0.0005 ppm	-0.0006 ppm	-0.0030 ppm	0.0205 ppm	0.0190 ppm	0.0000 ppm	21.5685 ppm
Concentration per Run 3	0.0004 ppm	0.0149 ppm	-0.0002 ppm	0.0211 ppm	0.0189 ppm	0.0000 ppm	21.6165 ppm
Concentration RSD	31.4 %	93.3 %	393.7 %	4.0 %	0.2 %	684.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0227 ppm	1.8602 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0233 ppm	1.8694 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0008 ppm	0.0209 ppm	1.8817 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	-0.0001 ppm	0.0007 ppm	0.0238 ppm	1.8296 ppm	0.0002 ppm
Concentration RSD	98.7 %	130.0 %	150.4 %	23.9 %	6.8 %	1.5 %	124.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0467 ppm	0.0017 ppm	0.0006 ppm	12.5224 ppm	0.0009 ppm	0.0004 ppm	0.0018 ppm
Concentration per Run 1	6.0718 ppm	0.0018 ppm	0.0007 ppm	12.4875 ppm	0.0013 ppm	0.0002 ppm	0.0044 ppm
Concentration per Run 2	6.0370 ppm	0.0015 ppm	0.0005 ppm	12.5426 ppm	0.0014 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	6.0313 ppm	0.0018 ppm	0.0006 ppm	12.5373 ppm	0.0000 ppm	0.0006 ppm	0.0005 ppm
Concentration RSD	0.4 %	12.7 %	19.3 %	0.2 %	87.0 %	57.7 %	123.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	3.7644 ppm	-0.0024 ppm	0.0828 ppm	0.0007 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0015 ppm	3.7835 ppm	-0.0030 ppm	0.0827 ppm	0.0007 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	3.7688 ppm	-0.0017 ppm	0.0826 ppm	0.0008 ppm	0.0023 ppm	-0.0001 ppm
Concentration per Run 3	-0.0061 ppm	3.7408 ppm	-0.0026 ppm	0.0830 ppm	0.0008 ppm	-0.0010 ppm	-0.0001 ppm
Concentration RSD	125.7 %	0.6 %	27.8 %	0.2 %	10.5 %	294.4 %	76.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	103.9823 %	102.9754 %	101.7358 %	102.8618 %	102.6981 %	102.6200 %
Concentration per Run 1	-0.0004 ppm	103.0359 %	102.6402 %	102.0352 %	102.4869 %	102.1666 %	103.0157 %
Concentration per Run 2	-0.0006 ppm	104.1579 %	103.9143 %	100.8779 %	102.8742 %	103.7280 %	101.9462 %
Concentration per Run 3	0.0000 ppm	104.7529 %	102.3718 %	102.2944 %	103.2241 %	102.1998 %	102.8979 %
Concentration RSD	77.0 %	0.8 %	0.8 %	0.7 %	0.4 %	0.9 %	0.6 %

ICP DataTrace 9

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-02 WG1973830
Analysis started at: 9/24/2024 2:15:38 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	1.1214 ppm	0.0000 ppm	0.0920 ppm	0.0192 ppm	0.0001 ppm	17.9492 ppm
Concentration per Run 1	0.0001 ppm	1.1192 ppm	-0.0013 ppm	0.0921 ppm	0.0190 ppm	0.0001 ppm	18.0393 ppm
Concentration per Run 2	0.0003 ppm	1.1336 ppm	-0.0001 ppm	0.0920 ppm	0.0192 ppm	0.0001 ppm	17.8661 ppm
Concentration per Run 3	0.0005 ppm	1.1114 ppm	0.0015 ppm	0.0918 ppm	0.0193 ppm	0.0002 ppm	17.9421 ppm
Concentration RSD	62.1 %	1.0 %	3,852.3 %	0.2 %	0.9 %	34.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0024 ppm	0.0024 ppm	1.5347 ppm	1.5331 ppm	0.0042 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	0.0026 ppm	0.0022 ppm	1.5394 ppm	1.5423 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0023 ppm	0.0026 ppm	1.5348 ppm	1.5287 ppm	0.0045 ppm
Concentration per Run 3	0.0003 ppm	0.0010 ppm	0.0025 ppm	0.0025 ppm	1.5298 ppm	1.5284 ppm	0.0040 ppm
Concentration RSD	3,491.6 %	71.3 %	6.5 %	7.3 %	0.3 %	0.5 %	6.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8577 ppm	0.0145 ppm	0.0004 ppm	13.3818 ppm	0.0020 ppm	0.0010 ppm	-0.0026 ppm
Concentration per Run 1	8.8856 ppm	0.0149 ppm	0.0006 ppm	13.3652 ppm	0.0023 ppm	0.0012 ppm	-0.0003 ppm
Concentration per Run 2	8.8639 ppm	0.0143 ppm	0.0003 ppm	13.3817 ppm	0.0025 ppm	0.0020 ppm	-0.0076 ppm
Concentration per Run 3	8.8235 ppm	0.0141 ppm	0.0002 ppm	13.3985 ppm	0.0011 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	0.4 %	2.9 %	57.7 %	0.1 %	38.1 %	119.1 %	164.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	10.7667 ppm	-0.0022 ppm	0.0870 ppm	0.0340 ppm	0.0014 ppm	0.0053 ppm
Concentration per Run 1	0.0045 ppm	10.8035 ppm	-0.0021 ppm	0.0874 ppm	0.0339 ppm	0.0025 ppm	0.0055 ppm
Concentration per Run 2	-0.0013 ppm	10.8008 ppm	-0.0025 ppm	0.0868 ppm	0.0338 ppm	0.0013 ppm	0.0051 ppm
Concentration per Run 3	-0.0003 ppm	10.6957 ppm	-0.0020 ppm	0.0868 ppm	0.0342 ppm	0.0004 ppm	0.0054 ppm
Concentration RSD	321.4 %	0.6 %	13.4 %	0.4 %	0.5 %	78.9 %	4.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	104.5364 %	103.9904 %	102.4240 %	103.2824 %	103.5688 %	104.1267 %
Concentration per Run 1	0.0039 ppm	104.9462 %	103.8415 %	102.9217 %	103.9757 %	103.4830 %	104.7372 %
Concentration per Run 2	0.0040 ppm	104.0827 %	104.6749 %	101.8609 %	102.7627 %	104.5309 %	103.8379 %
Concentration per Run 3	0.0043 ppm	104.5804 %	103.4548 %	102.4895 %	103.1087 %	102.6925 %	103.8049 %
Concentration RSD	5.5 %	0.4 %	0.6 %	0.5 %	0.6 %	0.9 %	0.5 %

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-03 WG1973830
Analysis started at: 9/24/2024 2:19:33 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0313 ppm	0.0010 ppm	0.0170 ppm	0.0244 ppm	0.0000 ppm	10.7126 ppm
Concentration per Run 1	-0.0001 ppm	0.0298 ppm	0.0014 ppm	0.0160 ppm	0.0243 ppm	0.0000 ppm	10.6632 ppm
Concentration per Run 2	0.0007 ppm	0.0373 ppm	0.0009 ppm	0.0185 ppm	0.0246 ppm	-0.0001 ppm	10.7400 ppm
Concentration per Run 3	0.0002 ppm	0.0267 ppm	0.0007 ppm	0.0165 ppm	0.0244 ppm	0.0000 ppm	10.7347 ppm
Concentration RSD	155.1 %	17.4 %	35.2 %	7.7 %	0.6 %	53.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0006 ppm	0.0486 ppm	1.0660 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0486 ppm	1.0558 ppm	0.0031 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0475 ppm	1.0701 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0009 ppm	0.0496 ppm	1.0721 ppm	0.0013 ppm
Concentration RSD	57.1 %	198.4 %	32.5 %	66.5 %	2.2 %	0.8 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8606 ppm	0.0010 ppm	-0.0001 ppm	13.4756 ppm	0.0002 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 1	4.8769 ppm	0.0011 ppm	0.0003 ppm	13.3910 ppm	-0.0003 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 2	4.8839 ppm	0.0011 ppm	-0.0001 ppm	13.4888 ppm	0.0006 ppm	0.0009 ppm	-0.0004 ppm
Concentration per Run 3	4.8209 ppm	0.0008 ppm	-0.0003 ppm	13.5470 ppm	0.0003 ppm	-0.0011 ppm	0.0007 ppm
Concentration RSD	0.7 %	15.5 %	487.6 %	0.6 %	223.3 %	1,615.8 %	204.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	7.2821 ppm	-0.0021 ppm	0.0521 ppm	0.0021 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	-0.0013 ppm	7.3083 ppm	-0.0015 ppm	0.0521 ppm	0.0021 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	-0.0029 ppm	7.2891 ppm	-0.0022 ppm	0.0522 ppm	0.0023 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	7.2491 ppm	-0.0025 ppm	0.0521 ppm	0.0020 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	195.9 %	0.4 %	24.3 %	0.1 %	6.8 %	97.8 %	34.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	105.2482 %	103.8692 %	102.5387 %	104.0405 %	103.2927 %	103.3522 %
Concentration per Run 1	-0.0001 ppm	106.1818 %	104.5359 %	102.4297 %	105.4472 %	104.0266 %	103.2148 %
Concentration per Run 2	0.0003 ppm	104.5435 %	103.2901 %	102.9325 %	102.8752 %	102.5321 %	103.6877 %
Concentration per Run 3	-0.0002 ppm	105.0193 %	103.7816 %	102.2538 %	103.7991 %	103.3195 %	103.1540 %
Concentration RSD	9,566.9 %	0.8 %	0.6 %	0.3 %	1.3 %	0.7 %	0.3 %

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-04 WG1973830
Analysis started at: 9/24/2024 2:23:27 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0013 ppm	0.0023 ppm	0.0197 ppm	0.0972 ppm	0.0000 ppm	100.6030 ppm
Concentration per Run 1	0.0002 ppm	-0.0057 ppm	0.0060 ppm	0.0210 ppm	0.0970 ppm	0.0000 ppm	100.4011 ppm
Concentration per Run 2	0.0004 ppm	0.0007 ppm	0.0022 ppm	0.0204 ppm	0.0971 ppm	0.0000 ppm	100.7160 ppm
Concentration per Run 3	0.0006 ppm	0.0089 ppm	-0.0013 ppm	0.0177 ppm	0.0976 ppm	0.0000 ppm	100.6918 ppm
Concentration RSD	47.2 %	558.4 %	158.8 %	9.0 %	0.4 %	48.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0300 ppm	3.0225 ppm	0.0010 ppm
Concentration per Run 1	-0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0020 ppm	0.0309 ppm	3.0216 ppm	0.0023 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0306 ppm	3.0150 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0021 ppm	0.0286 ppm	3.0307 ppm	0.0008 ppm
Concentration RSD	46.9 %	149.5 %	6,719.1 %	22.9 %	4.1 %	0.3 %	123.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1958 ppm	0.0016 ppm	0.0002 ppm	4.2781 ppm	0.0000 ppm	-0.0011 ppm	-0.0008 ppm
Concentration per Run 1	15.2573 ppm	0.0017 ppm	-0.0002 ppm	4.2621 ppm	0.0002 ppm	-0.0015 ppm	-0.0016 ppm
Concentration per Run 2	15.2125 ppm	0.0015 ppm	0.0001 ppm	4.2717 ppm	-0.0006 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	15.1176 ppm	0.0016 ppm	0.0007 ppm	4.3007 ppm	0.0004 ppm	-0.0021 ppm	-0.0030 ppm
Concentration RSD	0.5 %	7.9 %	211.5 %	0.5 %	13,242.3 %	100.2 %	351.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.4373 ppm	-0.0026 ppm	0.2743 ppm	0.0009 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	5.4633 ppm	-0.0039 ppm	0.2739 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	5.4525 ppm	-0.0011 ppm	0.2732 ppm	0.0006 ppm	0.0029 ppm	0.0001 ppm
Concentration per Run 3	-0.0020 ppm	5.3961 ppm	-0.0028 ppm	0.2757 ppm	0.0009 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	57.9 %	0.7 %	52.6 %	0.5 %	31.8 %	103.5 %	163.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	102.9372 %	102.6578 %	97.9607 %	101.7957 %	102.3074 %	100.9892 %
Concentration per Run 1	0.0010 ppm	102.0476 %	102.8509 %	97.9983 %	101.4131 %	102.1038 %	101.1593 %
Concentration per Run 2	0.0011 ppm	103.1862 %	102.8228 %	97.3944 %	102.2875 %	102.7710 %	100.5003 %
Concentration per Run 3	0.0008 ppm	103.5778 %	102.2996 %	98.4895 %	101.6864 %	102.0474 %	101.3078 %
Concentration RSD	14.8 %	0.8 %	0.3 %	0.6 %	0.4 %	0.4 %	0.4 %

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-07 WG1973830
Analysis started at: 9/24/2024 2:27:22 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0248 ppm	-0.0005 ppm	0.0117 ppm	0.0110 ppm	0.0000 ppm	11.8504 ppm
Concentration per Run 1	0.0006 ppm	0.0203 ppm	-0.0005 ppm	0.0127 ppm	0.0112 ppm	0.0000 ppm	11.8206 ppm
Concentration per Run 2	0.0000 ppm	0.0237 ppm	0.0000 ppm	0.0114 ppm	0.0107 ppm	0.0000 ppm	11.8836 ppm
Concentration per Run 3	0.0000 ppm	0.0305 ppm	-0.0009 ppm	0.0109 ppm	0.0110 ppm	0.0000 ppm	11.8471 ppm
Concentration RSD	159.6 %	21.0 %	96.4 %	8.3 %	2.3 %	297.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm	0.0445 ppm	1.0628 ppm	0.0033 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm	0.0453 ppm	1.0610 ppm	0.0024 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0459 ppm	1.0569 ppm	0.0032 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0013 ppm	0.0005 ppm	0.0422 ppm	1.0706 ppm	0.0042 ppm
Concentration RSD	29.7 %	5,140.5 %	5.3 %	55.3 %	4.5 %	0.7 %	27.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6096 ppm	0.0114 ppm	0.0001 ppm	15.2347 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	5.6381 ppm	0.0116 ppm	0.0001 ppm	15.1878 ppm	-0.0001 ppm	-0.0001 ppm	-0.0045 ppm
Concentration per Run 2	5.5992 ppm	0.0110 ppm	0.0000 ppm	15.3010 ppm	0.0018 ppm	-0.0004 ppm	0.0027 ppm
Concentration per Run 3	5.5916 ppm	0.0115 ppm	0.0002 ppm	15.2152 ppm	0.0004 ppm	0.0002 ppm	0.0049 ppm
Concentration RSD	0.4 %	3.1 %	61.1 %	0.4 %	143.7 %	461.8 %	466.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	6.7681 ppm	-0.0019 ppm	0.0573 ppm	0.0009 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0007 ppm	6.7812 ppm	-0.0015 ppm	0.0572 ppm	0.0010 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	6.7669 ppm	-0.0018 ppm	0.0573 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	6.7563 ppm	-0.0024 ppm	0.0574 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	69.8 %	0.2 %	22.2 %	0.1 %	10.7 %	54.9 %	123.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	104.6829 %	103.8291 %	102.2070 %	103.4274 %	103.4114 %	103.5000 %
Concentration per Run 1	-0.0006 ppm	104.3451 %	104.5084 %	102.0649 %	103.5565 %	103.9304 %	104.0499 %
Concentration per Run 2	0.0001 ppm	104.9222 %	102.9827 %	102.1924 %	103.3912 %	103.0745 %	103.0979 %
Concentration per Run 3	0.0000 ppm	104.7814 %	103.9962 %	102.3637 %	103.3347 %	103.2292 %	103.3521 %
Concentration RSD	208.6 %	0.3 %	0.7 %	0.1 %	0.1 %	0.4 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-08 WG1973830
Analysis started at: 9/24/2024 2:31:17 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0186 ppm	0.0005 ppm	0.0825 ppm	0.0468 ppm	0.0000 ppm	62.6788 ppm
Concentration per Run 1	0.0001 ppm	0.0214 ppm	0.0019 ppm	0.0843 ppm	0.0470 ppm	0.0000 ppm	62.5112 ppm
Concentration per Run 2	-0.0002 ppm	0.0087 ppm	-0.0003 ppm	0.0826 ppm	0.0467 ppm	0.0000 ppm	62.8984 ppm
Concentration per Run 3	-0.0003 ppm	0.0256 ppm	-0.0001 ppm	0.0806 ppm	0.0465 ppm	0.0000 ppm	62.6269 ppm
Concentration RSD	200.9 %	47.4 %	254.3 %	2.2 %	0.5 %	232.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0341 ppm	4.7147 ppm	0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm	0.0348 ppm	4.7330 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	-0.0007 ppm	-0.0003 ppm	0.0024 ppm	0.0319 ppm	4.7173 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	-0.0001 ppm	0.0023 ppm	0.0356 ppm	4.6937 ppm	0.0013 ppm
Concentration RSD	44.1 %	1,196.6 %	145.2 %	1.7 %	5.6 %	0.4 %	55.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9955 ppm	0.0837 ppm	0.0010 ppm	8.9261 ppm	0.0010 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 1	10.9867 ppm	0.0836 ppm	0.0013 ppm	8.9078 ppm	0.0022 ppm	-0.0003 ppm	0.0023 ppm
Concentration per Run 2	11.0559 ppm	0.0836 ppm	0.0013 ppm	8.9486 ppm	0.0004 ppm	-0.0007 ppm	-0.0015 ppm
Concentration per Run 3	10.9438 ppm	0.0839 ppm	0.0005 ppm	8.9219 ppm	0.0005 ppm	0.0001 ppm	0.0025 ppm
Concentration RSD	0.5 %	0.2 %	41.1 %	0.2 %	99.5 %	124.0 %	206.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	4.1428 ppm	-0.0025 ppm	0.3021 ppm	0.0013 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	-0.0041 ppm	4.1542 ppm	-0.0023 ppm	0.3021 ppm	0.0014 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0017 ppm	4.1357 ppm	-0.0020 ppm	0.3028 ppm	0.0011 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 3	0.0021 ppm	4.1384 ppm	-0.0033 ppm	0.3015 ppm	0.0015 ppm	0.0023 ppm	0.0003 ppm
Concentration RSD	248.1 %	0.2 %	26.9 %	0.2 %	13.3 %	46.0 %	189.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	103.6397 %	104.0584 %	100.3949 %	102.2468 %	103.9506 %	102.0952 %
Concentration per Run 1	0.0002 ppm	102.5681 %	103.8499 %	101.0106 %	101.6768 %	103.4743 %	102.7859 %
Concentration per Run 2	0.0002 ppm	104.1100 %	103.9275 %	100.2658 %	102.7177 %	104.2482 %	101.8835 %
Concentration per Run 3	-0.0001 ppm	104.2410 %	104.3976 %	99.9084 %	102.3459 %	104.1294 %	101.6162 %
Concentration RSD	141.4 %	0.9 %	0.3 %	0.6 %	0.5 %	0.4 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 2:35:12 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5014 ppm	0.4771 ppm	0.4762 ppm	0.4854 ppm	0.4851 ppm	0.4980 ppm	0.4815 ppm
Concentration per Run 1	0.5007 ppm	0.4830 ppm	0.4743 ppm	0.4803 ppm	0.4840 ppm	0.4965 ppm	0.4832 ppm
Concentration per Run 2	0.5013 ppm	0.4751 ppm	0.4738 ppm	0.4876 ppm	0.4851 ppm	0.4987 ppm	0.4813 ppm
Concentration per Run 3	0.5021 ppm	0.4732 ppm	0.4804 ppm	0.4884 ppm	0.4862 ppm	0.4988 ppm	0.4799 ppm
Recovery Percentage 1	100.278 %	95.421 %	95.231 %	97.088 %	97.018 %	99.605 %	96.296 %
Concentration RSD	0.1 %	1.1 %	0.8 %	0.9 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4889 ppm	0.5006 ppm	0.4787 ppm	0.4836 ppm	0.4913 ppm	5.0208 ppm	0.4829 ppm
Concentration per Run 1	0.4863 ppm	0.4991 ppm	0.4776 ppm	0.4821 ppm	0.4916 ppm	5.0316 ppm	0.4842 ppm
Concentration per Run 2	0.4861 ppm	0.4985 ppm	0.4777 ppm	0.4817 ppm	0.4913 ppm	5.0151 ppm	0.4822 ppm
Concentration per Run 3	0.4942 ppm	0.5042 ppm	0.4808 ppm	0.4868 ppm	0.4909 ppm	5.0156 ppm	0.4824 ppm
Recovery Percentage 1	97.776 %	100.124 %	95.741 %	96.710 %	98.252 %	100.416 %	96.588 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.6 %	0.1 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4837 ppm	0.4757 ppm	0.4820 ppm	9.7555 ppm	0.4985 ppm	0.4893 ppm	0.4951 ppm
Concentration per Run 1	0.4826 ppm	0.4752 ppm	0.4765 ppm	9.7632 ppm	0.4963 ppm	0.4872 ppm	0.4932 ppm
Concentration per Run 2	0.4834 ppm	0.4760 ppm	0.4818 ppm	9.7718 ppm	0.4971 ppm	0.4907 ppm	0.4978 ppm
Concentration per Run 3	0.4853 ppm	0.4758 ppm	0.4876 ppm	9.7315 ppm	0.5022 ppm	0.4900 ppm	0.4944 ppm
Recovery Percentage 1	96.748 %	95.133 %	96.395 %	97.555 %	99.702 %	97.865 %	99.025 %
Concentration RSD	0.3 %	0.1 %	1.2 %	0.2 %	0.6 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4867 ppm	5.2209 ppm	0.4724 ppm	0.4676 ppm	0.4891 ppm	0.4923 ppm	0.4746 ppm
Concentration per Run 1	0.4896 ppm	5.1704 ppm	0.4701 ppm	0.4672 ppm	0.4899 ppm	0.4930 ppm	0.4741 ppm
Concentration per Run 2	0.4820 ppm	5.2168 ppm	0.4731 ppm	0.4676 ppm	0.4888 ppm	0.4900 ppm	0.4740 ppm
Concentration per Run 3	0.4884 ppm	5.2756 ppm	0.4741 ppm	0.4678 ppm	0.4886 ppm	0.4941 ppm	0.4758 ppm
Recovery Percentage 1	97.333 %	99.446 %	94.482 %	93.510 %	97.826 %	98.469 %	94.929 %
Concentration RSD	0.8 %	1.0 %	0.4 %	0.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4947 ppm	105.9179 %	106.1373 %	103.5314 %	103.3006 %	105.3105 %	103.4049 %
Concentration per Run 1	0.4938 ppm	105.5353 %	106.6120 %	104.1164 %	102.7591 %	105.8945 %	103.8671 %
Concentration per Run 2	0.4940 ppm	106.3484 %	104.9235 %	103.4792 %	103.7620 %	103.9977 %	103.4896 %
Concentration per Run 3	0.4963 ppm	105.8700 %	106.8764 %	102.9987 %	103.3808 %	106.0391 %	102.8578 %
Recovery Percentage 1	98.938 %						
Concentration RSD	0.3 %	0.4 %	1.0 %	0.5 %	0.5 %	1.1 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:39:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0136 ppm	0.0010 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0005 ppm	0.0087 ppm	0.0006 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0008 ppm	0.0226 ppm	0.0028 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0095 ppm	-0.0005 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0019 ppm
Recovery Percentage 1	7.317 %	13.603 %	19.754 %	3.696 %	-2.008 %	1.243 %	1.122 %
Concentration RSD	43.6 %	57.4 %	170.3 %	65.4 %	3.3 %	35.4 %	81.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0030 ppm	-0.0162 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	-0.0329 ppm	0.0011 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0002 ppm	-0.0005 ppm	0.0020 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0047 ppm	-0.0148 ppm	-0.0018 ppm
Recovery Percentage 1	2.336 %	-0.620 %	-0.327 %	-1.966 %	5.998 %	-0.647 %	0.052 %
Concentration RSD	95.2 %	243.4 %	536.1 %	119.0 %	49.6 %	99.5 %	60,774.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	-0.0001 ppm	0.0010 ppm	0.0045 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	-0.0017 ppm	-0.0003 ppm	0.0011 ppm	0.0087 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 2	-0.0034 ppm	0.0000 ppm	0.0013 ppm	0.0024 ppm	-0.0001 ppm	-0.0003 ppm	0.0023 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0025 ppm	0.0002 ppm	0.0001 ppm	0.0046 ppm
Recovery Percentage 1	-1.590 %	-1.039 %	2.007 %	0.227 %	0.316 %	-0.495 %	4.164 %
Concentration RSD	119.1 %	186.6 %	38.3 %	80.3 %	230.9 %	526.9 %	125.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0025 ppm	-0.0010 ppm	0.0001 ppm	0.0005 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0028 ppm	-0.0020 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	-0.0006 ppm	-0.0005 ppm
Concentration per Run 2	-0.0059 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm	0.0003 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0044 ppm	-0.0055 ppm	-0.0008 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-14.132 %	-0.501 %	-1.938 %	0.979 %	5.119 %	-1.989 %	-1.478 %
Concentration RSD	374.3 %	111.4 %	83.4 %	165.7 %	35.7 %	178.4 %	274.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	105.5055 %	103.2986 %	103.7439 %	104.5069 %	103.9431 %	104.3308 %
Concentration per Run 1	-0.0018 ppm	105.5266 %	103.6333 %	103.8748 %	104.3699 %	104.0692 %	104.6428 %
Concentration per Run 2	-0.0016 ppm	105.3402 %	102.9893 %	104.5061 %	104.5885 %	103.8559 %	105.2233 %
Concentration per Run 3	-0.0016 ppm	105.6496 %	103.2733 %	102.8509 %	104.5623 %	103.9043 %	103.1263 %
Recovery Percentage 1	-32.974 %						
Concentration RSD	8.8 %	0.1 %	0.3 %	0.8 %	0.1 %	0.1 %	1.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-1 WG1974066
Analysis started at: 9/24/2024 3:03:19 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0048 ppm	0.0007 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0209 ppm
Concentration per Run 1	0.0001 ppm	0.0028 ppm	-0.0018 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0217 ppm
Concentration per Run 2	0.0005 ppm	0.0053 ppm	0.0023 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	0.0183 ppm
Concentration per Run 3	0.0005 ppm	0.0062 ppm	0.0015 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0228 ppm
Concentration RSD	54.8 %	36.5 %	323.8 %	46.5 %	158.1 %	212.1 %	11.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0008 ppm	-0.0006 ppm	-0.0003 ppm	0.0199 ppm	0.0122 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0194 ppm	0.0238 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	-0.0011 ppm	-0.0005 ppm	0.0220 ppm	-0.0142 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0014 ppm	-0.0008 ppm	-0.0003 ppm	0.0183 ppm	0.0270 ppm	0.0028 ppm
Concentration RSD	253.3 %	109.9 %	103.2 %	77.0 %	9.7 %	187.6 %	89.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0006 ppm	-0.0002 ppm	-0.0003 ppm	-0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run 2	0.0015 ppm	0.0000 ppm	-0.0005 ppm	-0.0005 ppm	-0.0007 ppm	-0.0028 ppm	-0.0035 ppm
Concentration per Run 3	-0.0017 ppm	0.0000 ppm	0.0002 ppm	-0.0019 ppm	-0.0005 ppm	0.0013 ppm	-0.0012 ppm
Concentration RSD	2,430.1 %	193.6 %	226.0 %	186.7 %	298.4 %	696.3 %	84.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0031 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0022 ppm	0.0041 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	-0.0006 ppm
Concentration per Run 2	-0.0008 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0033 ppm	-0.0011 ppm	0.0002 ppm	0.0005 ppm	-0.0008 ppm	-0.0003 ppm
Concentration RSD	121.0 %	38.7 %	196.4 %	58.7 %	35.3 %	1,292.7 %	42.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	107.2540 %	108.2285 %	104.4987 %	105.2740 %	108.2434 %	105.0459 %
Concentration per Run 1	-0.0009 ppm	106.9284 %	108.5268 %	103.5746 %	105.0286 %	108.6511 %	103.9262 %
Concentration per Run 2	-0.0010 ppm	106.9500 %	108.5142 %	104.0161 %	105.1103 %	108.5457 %	104.8216 %
Concentration per Run 3	-0.0005 ppm	107.8837 %	107.6445 %	105.9053 %	105.6831 %	107.5333 %	106.3900 %
Concentration RSD	36.5 %	0.5 %	0.5 %	1.2 %	0.3 %	0.6 %	1.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-2d2 WG1974066
Analysis started at: 9/24/2024 3:07:34 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0506 ppm	1.8892 ppm	0.1160 ppm	0.9349 ppm	1.9034 ppm	0.0491 ppm	9.4637 ppm
Concentration per Run 1	0.0503 ppm	1.8915 ppm	0.1154 ppm	0.9326 ppm	1.9025 ppm	0.0491 ppm	9.4630 ppm
Concentration per Run 2	0.0508 ppm	1.8980 ppm	0.1161 ppm	0.9353 ppm	1.9148 ppm	0.0494 ppm	9.4970 ppm
Concentration per Run 3	0.0506 ppm	1.8782 ppm	0.1164 ppm	0.9370 ppm	1.8929 ppm	0.0488 ppm	9.4310 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	0.2 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.4860 ppm	0.1898 ppm	0.2440 ppm	0.9926 ppm	9.7070 ppm	0.0002 ppm
Concentration per Run 1	0.0505 ppm	0.4880 ppm	0.1906 ppm	0.2441 ppm	0.9943 ppm	9.7602 ppm	-0.0003 ppm
Concentration per Run 2	0.0508 ppm	0.4871 ppm	0.1899 ppm	0.2447 ppm	0.9919 ppm	9.7135 ppm	0.0011 ppm
Concentration per Run 3	0.0500 ppm	0.4829 ppm	0.1889 ppm	0.2432 ppm	0.9916 ppm	9.6472 ppm	-0.0003 ppm
Concentration RSD	0.8 %	0.6 %	0.5 %	0.3 %	0.2 %	0.6 %	495.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5003 ppm	0.4845 ppm	0.9560 ppm	9.5853 ppm	0.4862 ppm	0.5127 ppm	0.4941 ppm
Concentration per Run 1	9.5841 ppm	0.4841 ppm	0.9521 ppm	9.5715 ppm	0.4884 ppm	0.5124 ppm	0.4966 ppm
Concentration per Run 2	9.4581 ppm	0.4857 ppm	0.9558 ppm	9.6810 ppm	0.4862 ppm	0.5144 ppm	0.4937 ppm
Concentration per Run 3	9.4587 ppm	0.4836 ppm	0.9601 ppm	9.5034 ppm	0.4839 ppm	0.5113 ppm	0.4920 ppm
Concentration RSD	0.8 %	0.2 %	0.4 %	0.9 %	0.5 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1149 ppm	0.6416 ppm	0.9274 ppm	0.9128 ppm	0.9569 ppm	0.1183 ppm	0.4819 ppm
Concentration per Run 1	0.1150 ppm	0.6443 ppm	0.9285 ppm	0.9097 ppm	0.9656 ppm	0.1177 ppm	0.4834 ppm
Concentration per Run 2	0.1135 ppm	0.6364 ppm	0.9250 ppm	0.9213 ppm	0.9562 ppm	0.1195 ppm	0.4813 ppm
Concentration per Run 3	0.1162 ppm	0.6440 ppm	0.9287 ppm	0.9076 ppm	0.9490 ppm	0.1177 ppm	0.4809 ppm
Concentration RSD	1.2 %	0.7 %	0.2 %	0.8 %	0.9 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4834 ppm	105.3514 %	106.2712 %	102.4555 %	102.8472 %	106.0522 %	103.0372 %
Concentration per Run 1	0.4847 ppm	104.8626 %	106.1848 %	101.9733 %	102.4400 %	105.9286 %	102.1685 %
Concentration per Run 2	0.4815 ppm	105.6288 %	105.4156 %	102.2111 %	103.0847 %	105.6757 %	102.9553 %
Concentration per Run 3	0.4841 ppm	105.5628 %	107.2133 %	103.1822 %	103.0170 %	106.5524 %	103.9877 %
Concentration RSD	0.4 %	0.4 %	0.8 %	0.6 %	0.3 %	0.4 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-01d2 WG1974066
Analysis started at: 9/24/2024 3:11:30 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	113.2641 ppm	0.0317 ppm	0.0286 ppm	0.7534 ppm	0.0114 ppm	49.4723 ppm
Concentration per Run 1	0.0015 ppm	111.9778 ppm	0.0294 ppm	0.0276 ppm	0.7523 ppm	0.0115 ppm	49.0029 ppm
Concentration per Run 2	0.0017 ppm	114.0271 ppm	0.0309 ppm	0.0290 ppm	0.7560 ppm	0.0114 ppm	49.7964 ppm
Concentration per Run 3	0.0012 ppm	113.7873 ppm	0.0348 ppm	0.0293 ppm	0.7518 ppm	0.0114 ppm	49.6178 ppm
Concentration RSD	18.2 %	1.0 %	8.8 %	3.1 %	0.3 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0034 ppm	0.0332 ppm	0.1018 ppm	0.1106 ppm	126.0829 ppm	5.8527 ppm	0.1028 ppm
Concentration per Run 1	0.0032 ppm	0.0333 ppm	0.1015 ppm	0.1098 ppm	125.5783 ppm	5.8086 ppm	0.1033 ppm
Concentration per Run 2	0.0032 ppm	0.0324 ppm	0.1021 ppm	0.1110 ppm	126.4565 ppm	5.8891 ppm	0.1024 ppm
Concentration per Run 3	0.0036 ppm	0.0338 ppm	0.1018 ppm	0.1110 ppm	126.2138 ppm	5.8603 ppm	0.1026 ppm
Concentration RSD	6.7 %	2.2 %	0.3 %	0.6 %	0.4 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.0133 ppm	0.8504 ppm	0.0071 ppm	1.0457 ppm	0.0850 ppm	0.1143 ppm	-0.0044 ppm
Concentration per Run 1	21.9573 ppm	0.8467 ppm	0.0070 ppm	1.0329 ppm	0.0851 ppm	0.1153 ppm	-0.0024 ppm
Concentration per Run 2	22.0097 ppm	0.8527 ppm	0.0074 ppm	1.0522 ppm	0.0841 ppm	0.1134 ppm	-0.0049 ppm
Concentration per Run 3	22.0730 ppm	0.8519 ppm	0.0068 ppm	1.0521 ppm	0.0856 ppm	0.1142 ppm	-0.0058 ppm
Concentration RSD	0.3 %	0.4 %	4.4 %	1.1 %	0.9 %	0.8 %	40.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	0.8041 ppm	0.0176 ppm	0.2055 ppm	2.9795 ppm	0.0063 ppm	0.2510 ppm
Concentration per Run 1	0.0040 ppm	0.7911 ppm	0.0164 ppm	0.2054 ppm	2.9773 ppm	0.0072 ppm	0.2505 ppm
Concentration per Run 2	0.0018 ppm	0.8158 ppm	0.0183 ppm	0.2056 ppm	2.9818 ppm	0.0054 ppm	0.2501 ppm
Concentration per Run 3	0.0058 ppm	0.8055 ppm	0.0180 ppm	0.2054 ppm	2.9792 ppm	0.0063 ppm	0.2526 ppm
Concentration RSD	51.3 %	1.5 %	5.5 %	0.1 %	0.1 %	14.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6813 ppm	113.6434 %	115.9930 %	106.9375 %	**227.4154 %**	**243.1236 %**	**231.0194 %**
Concentration per Run 1	0.6780 ppm	113.6223 %	116.9029 %	107.8754 %	**227.3418 %**	**242.9678 %**	**232.9420 %**
Concentration per Run 2	0.6794 ppm	114.2189 %	116.0114 %	105.5743 %	**228.1424 %**	**244.0684 %**	**228.0344 %**
Concentration per Run 3	0.6867 ppm	113.0890 %	115.0647 %	107.3629 %	**226.7622 %**	**242.3347 %**	**232.0817 %**
Concentration RSD	0.7 %	0.5 %	0.8 %	1.1 %	**0.3 %**	**0.4 %**	**1.1 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-3d2 WG1974066
Analysis started at: 9/24/2024 3:15:25 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0481 ppm	115.4337 ppm	0.1334 ppm	0.8290 ppm	2.4751 ppm	0.0567 ppm	57.2605 ppm
Concentration per Run 1	0.0480 ppm	115.2252 ppm	0.1321 ppm	0.8316 ppm	2.4705 ppm	0.0566 ppm	57.2050 ppm
Concentration per Run 2	0.0482 ppm	115.0127 ppm	0.1336 ppm	0.8214 ppm	2.4731 ppm	0.0567 ppm	57.1329 ppm
Concentration per Run 3	0.0481 ppm	116.0632 ppm	0.1344 ppm	0.8342 ppm	2.4817 ppm	0.0569 ppm	57.4436 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %	0.8 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.4739 ppm	0.2751 ppm	0.3537 ppm	116.2602 ppm	14.6194 ppm	0.1017 ppm
Concentration per Run 1	0.0495 ppm	0.4756 ppm	0.2734 ppm	0.3543 ppm	116.1857 ppm	14.6031 ppm	0.1031 ppm
Concentration per Run 2	0.0491 ppm	0.4706 ppm	0.2757 ppm	0.3533 ppm	116.1325 ppm	14.6269 ppm	0.1007 ppm
Concentration per Run 3	0.0492 ppm	0.4755 ppm	0.2764 ppm	0.3536 ppm	116.4622 ppm	14.6281 ppm	0.1013 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.1 %	0.2 %	0.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9966 ppm	1.2306 ppm	0.8760 ppm	9.8893 ppm	0.5265 ppm	0.5873 ppm	0.4191 ppm
Concentration per Run 1	29.9304 ppm	1.2242 ppm	0.8714 ppm	9.9248 ppm	0.5248 ppm	0.5904 ppm	0.4130 ppm
Concentration per Run 2	29.9421 ppm	1.2306 ppm	0.8733 ppm	9.8668 ppm	0.5256 ppm	0.5809 ppm	0.4183 ppm
Concentration per Run 3	30.1175 ppm	1.2371 ppm	0.8833 ppm	9.8764 ppm	0.5291 ppm	0.5907 ppm	0.4260 ppm
Concentration RSD	0.3 %	0.5 %	0.7 %	0.3 %	0.4 %	0.9 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0949 ppm	2.1916 ppm	0.8572 ppm	1.0357 ppm	4.1692 ppm	0.1108 ppm	0.6827 ppm
Concentration per Run 1	0.0957 ppm	2.1848 ppm	0.8556 ppm	1.0331 ppm	4.1557 ppm	0.1122 ppm	0.6829 ppm
Concentration per Run 2	0.0933 ppm	2.1897 ppm	0.8530 ppm	1.0373 ppm	4.1603 ppm	0.1094 ppm	0.6815 ppm
Concentration per Run 3	0.0956 ppm	2.2003 ppm	0.8630 ppm	1.0367 ppm	4.1916 ppm	0.1109 ppm	0.6836 ppm
Concentration RSD	1.5 %	0.4 %	0.6 %	0.2 %	0.5 %	1.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1121 ppm	111.9080 %	116.8355 %	106.7286 %	226.2549 %	246.5833 %	232.4585 %
Concentration per Run 1	1.1131 ppm	110.4880 %	116.4146 %	106.0557 %	223.3848 %	245.9284 %	231.9872 %
Concentration per Run 2	1.1063 ppm	112.4870 %	116.7580 %	106.7396 %	227.1550 %	245.9380 %	231.5012 %
Concentration per Run 3	1.1170 ppm	112.7492 %	117.3338 %	107.3904 %	228.2248 %	247.8835 %	233.8869 %
Concentration RSD	0.5 %	1.1 %	0.4 %	0.6 %	1.1 %	0.5 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-4d2 WG1974066
Analysis started at: 9/24/2024 3:19:20 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	121.5713 ppm	0.0365 ppm	0.0297 ppm	0.8382 ppm	0.0130 ppm	53.2298 ppm
Concentration per Run 1	0.0011 ppm	121.3947 ppm	0.0361 ppm	0.0299 ppm	0.8401 ppm	0.0130 ppm	53.2251 ppm
Concentration per Run 2	0.0009 ppm	121.5578 ppm	0.0366 ppm	0.0274 ppm	0.8395 ppm	0.0131 ppm	53.1543 ppm
Concentration per Run 3	0.0005 ppm	121.7613 ppm	0.0368 ppm	0.0318 ppm	0.8350 ppm	0.0130 ppm	53.3100 ppm
Concentration RSD	41.0 %	0.2 %	1.0 %	7.4 %	0.3 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0313 ppm	0.1070 ppm	0.1222 ppm	120.0655 ppm	5.9339 ppm	0.1066 ppm
Concentration per Run 1	0.0035 ppm	0.0320 ppm	0.1069 ppm	0.1218 ppm	120.2710 ppm	6.0102 ppm	0.1072 ppm
Concentration per Run 2	0.0039 ppm	0.0301 ppm	0.1062 ppm	0.1225 ppm	120.3459 ppm	5.8958 ppm	0.1068 ppm
Concentration per Run 3	0.0037 ppm	0.0319 ppm	0.1079 ppm	0.1224 ppm	119.5795 ppm	5.8956 ppm	0.1058 ppm
Concentration RSD	5.0 %	3.5 %	0.8 %	0.3 %	0.4 %	1.1 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.8541 ppm	0.7841 ppm	0.0068 ppm	1.0956 ppm	0.0722 ppm	0.1236 ppm	-0.0044 ppm
Concentration per Run 1	22.8889 ppm	0.7828 ppm	0.0069 ppm	1.0989 ppm	0.0724 ppm	0.1240 ppm	-0.0045 ppm
Concentration per Run 2	22.7911 ppm	0.7840 ppm	0.0075 ppm	1.0944 ppm	0.0719 ppm	0.1228 ppm	0.0010 ppm
Concentration per Run 3	22.8823 ppm	0.7856 ppm	0.0059 ppm	1.0935 ppm	0.0721 ppm	0.1240 ppm	-0.0096 ppm
Concentration RSD	0.2 %	0.2 %	11.9 %	0.3 %	0.4 %	0.5 %	121.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	1.5424 ppm	0.0188 ppm	0.2138 ppm	3.2256 ppm	0.0060 ppm	0.2258 ppm
Concentration per Run 1	0.0079 ppm	1.5414 ppm	0.0188 ppm	0.2144 ppm	3.2215 ppm	0.0041 ppm	0.2265 ppm
Concentration per Run 2	0.0029 ppm	1.5374 ppm	0.0184 ppm	0.2142 ppm	3.2229 ppm	0.0072 ppm	0.2250 ppm
Concentration per Run 3	0.0028 ppm	1.5484 ppm	0.0191 ppm	0.2129 ppm	3.2324 ppm	0.0066 ppm	0.2259 ppm
Concentration RSD	64.9 %	0.4 %	2.0 %	0.4 %	0.2 %	27.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6547 ppm	112.8358 %	114.0440 %	106.4984 %	**249.6457 %**	**266.4107 %**	**253.4050 %**
Concentration per Run 1	0.6550 ppm	113.4211 %	113.2782 %	106.3453 %	**250.6079 %**	**264.6904 %**	**253.3898 %**
Concentration per Run 2	0.6504 ppm	113.4263 %	114.1303 %	105.9585 %	**251.2752 %**	**265.5777 %**	**251.8815 %**
Concentration per Run 3	0.6588 ppm	111.6599 %	114.7234 %	107.1913 %	**247.0539 %**	**268.9641 %**	**254.9437 %**
Concentration RSD	0.6 %	0.9 %	0.6 %	0.6 %	**0.9 %**	**0.8 %**	**0.6 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-5d2 WG1974066
Analysis started at: 9/24/2024 3:23:15 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0448 ppm	112.6469 ppm	0.1412 ppm	0.9239 ppm	2.5051 ppm	0.0565 ppm	57.1657 ppm
Concentration per Run 1	0.0452 ppm	112.8986 ppm	0.1404 ppm	0.9183 ppm	2.5162 ppm	0.0565 ppm	57.2365 ppm
Concentration per Run 2	0.0452 ppm	112.2587 ppm	0.1416 ppm	0.9198 ppm	2.4966 ppm	0.0565 ppm	57.0280 ppm
Concentration per Run 3	0.0441 ppm	112.7834 ppm	0.1415 ppm	0.9337 ppm	2.5026 ppm	0.0564 ppm	57.2327 ppm
Concentration RSD	1.5 %	0.3 %	0.5 %	0.9 %	0.4 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.4709 ppm	0.2742 ppm	0.3433 ppm	123.6891 ppm	15.2590 ppm	0.1010 ppm
Concentration per Run 1	0.0493 ppm	0.4729 ppm	0.2729 ppm	0.3430 ppm	123.6887 ppm	15.3157 ppm	0.1036 ppm
Concentration per Run 2	0.0487 ppm	0.4671 ppm	0.2725 ppm	0.3427 ppm	123.6714 ppm	15.2027 ppm	0.0993 ppm
Concentration per Run 3	0.0498 ppm	0.4728 ppm	0.2771 ppm	0.3444 ppm	123.7071 ppm	15.2586 ppm	0.1001 ppm
Concentration RSD	1.1 %	0.7 %	0.9 %	0.3 %	0.0 %	0.4 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.5363 ppm	1.2752 ppm	0.9192 ppm	10.4384 ppm	0.5219 ppm	0.5810 ppm	0.4404 ppm
Concentration per Run 1	30.5941 ppm	1.2781 ppm	0.9121 ppm	10.4470 ppm	0.5189 ppm	0.5841 ppm	0.4370 ppm
Concentration per Run 2	30.4688 ppm	1.2737 ppm	0.9127 ppm	10.3715 ppm	0.5191 ppm	0.5781 ppm	0.4359 ppm
Concentration per Run 3	30.5459 ppm	1.2738 ppm	0.9328 ppm	10.4968 ppm	0.5276 ppm	0.5808 ppm	0.4482 ppm
Concentration RSD	0.2 %	0.2 %	1.3 %	0.6 %	1.0 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1065 ppm	1.7529 ppm	0.9044 ppm	1.0791 ppm	3.8287 ppm	0.1110 ppm	0.6905 ppm
Concentration per Run 1	0.1031 ppm	1.7413 ppm	0.8958 ppm	1.0842 ppm	3.8258 ppm	0.1113 ppm	0.6885 ppm
Concentration per Run 2	0.1072 ppm	1.7383 ppm	0.9037 ppm	1.0759 ppm	3.8322 ppm	0.1135 ppm	0.6891 ppm
Concentration per Run 3	0.1092 ppm	1.7793 ppm	0.9137 ppm	1.0772 ppm	3.8280 ppm	0.1084 ppm	0.6939 ppm
Concentration RSD	2.9 %	1.3 %	1.0 %	0.4 %	0.1 %	2.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1132 ppm	111.2678 %	115.5266 %	106.2121 %	221.1132 %	239.0332 %	226.3374 %
Concentration per Run 1	1.1010 ppm	112.2158 %	116.1420 %	106.5053 %	223.0170 %	240.9550 %	227.2318 %
Concentration per Run 2	1.1112 ppm	111.4574 %	116.0420 %	106.1103 %	221.3503 %	240.0220 %	225.9527 %
Concentration per Run 3	1.1274 ppm	110.1302 %	114.3958 %	106.0205 %	218.9724 %	236.1225 %	225.8276 %
Concentration RSD	1.2 %	0.9 %	0.8 %	0.2 %	0.9 %	1.1 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-6d10 WG1974066
Analysis started at: 9/24/2024 3:27:10 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	24.4228 ppm	**0.0074 ppm**	0.0085 ppm	0.1620 ppm	0.0025 ppm	10.7818 ppm
Concentration per Run 1	0.0007 ppm	24.4581 ppm	0.0056 ppm	0.0082 ppm	0.1624 ppm	0.0025 ppm	10.7792 ppm
Concentration per Run 2	0.0004 ppm	24.2807 ppm	0.0100 ppm	0.0077 ppm	0.1617 ppm	0.0025 ppm	10.7775 ppm
Concentration per Run 3	0.0008 ppm	24.5298 ppm	0.0067 ppm	0.0095 ppm	0.1618 ppm	0.0025 ppm	10.7888 ppm
Concentration RSD	28.6 %	0.5 %	**30.7 %**	11.2 %	0.2 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0073 ppm	0.0217 ppm	0.0231 ppm	27.8271 ppm	1.2432 ppm	0.0231 ppm
Concentration per Run 1	0.0007 ppm	0.0073 ppm	0.0216 ppm	0.0233 ppm	27.8400 ppm	1.2986 ppm	0.0245 ppm
Concentration per Run 2	0.0007 ppm	0.0069 ppm	0.0219 ppm	0.0231 ppm	27.8588 ppm	1.2140 ppm	0.0222 ppm
Concentration per Run 3	0.0008 ppm	0.0076 ppm	0.0216 ppm	0.0230 ppm	27.7826 ppm	1.2171 ppm	0.0225 ppm
Concentration RSD	4.5 %	4.8 %	0.7 %	0.6 %	0.1 %	3.9 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8200 ppm	0.1832 ppm	0.0036 ppm	0.2224 ppm	0.0194 ppm	0.0241 ppm	0.0004 ppm
Concentration per Run 1	4.8094 ppm	0.1829 ppm	0.0035 ppm	0.2247 ppm	0.0193 ppm	0.0241 ppm	-0.0003 ppm
Concentration per Run 2	4.8117 ppm	0.1830 ppm	0.0032 ppm	0.2293 ppm	0.0194 ppm	0.0245 ppm	0.0028 ppm
Concentration per Run 3	4.8389 ppm	0.1836 ppm	0.0041 ppm	0.2132 ppm	0.0197 ppm	0.0236 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.2 %	13.2 %	3.7 %	1.0 %	1.8 %	613.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.1699 ppm	0.0043 ppm	0.0435 ppm	0.6406 ppm	0.0014 ppm	0.0531 ppm
Concentration per Run 1	-0.0019 ppm	0.1663 ppm	0.0050 ppm	0.0434 ppm	0.6406 ppm	0.0001 ppm	0.0529 ppm
Concentration per Run 2	0.0002 ppm	0.1672 ppm	0.0052 ppm	0.0435 ppm	0.6392 ppm	0.0030 ppm	0.0530 ppm
Concentration per Run 3	0.0023 ppm	0.1763 ppm	0.0028 ppm	0.0436 ppm	0.6422 ppm	0.0012 ppm	0.0535 ppm
Concentration RSD	998.3 %	3.3 %	31.2 %	0.3 %	0.2 %	104.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1486 ppm	107.9671 %	107.5007 %	105.1413 %	129.2084 %	132.8157 %	130.3887 %
Concentration per Run 1	0.1487 ppm	107.8241 %	107.4340 %	105.2967 %	128.3306 %	132.7966 %	130.3639 %
Concentration per Run 2	0.1475 ppm	108.0919 %	108.4488 %	105.3739 %	129.9012 %	133.8654 %	130.9715 %
Concentration per Run 3	0.1496 ppm	107.9855 %	106.6192 %	104.7534 %	129.3933 %	131.7850 %	129.8307 %
Concentration RSD	0.7 %	0.1 %	0.9 %	0.3 %	0.6 %	0.8 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-02d2 WG1974066
Analysis started at: 9/24/2024 3:31:05 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	50.3518 ppm	0.0259 ppm	0.0104 ppm	0.4293 ppm	0.0060 ppm	40.2712 ppm
Concentration per Run 1	0.0006 ppm	50.1421 ppm	0.0248 ppm	0.0099 ppm	0.4279 ppm	0.0060 ppm	40.1553 ppm
Concentration per Run 2	0.0010 ppm	50.1430 ppm	0.0264 ppm	0.0105 ppm	0.4280 ppm	0.0060 ppm	40.1426 ppm
Concentration per Run 3	0.0009 ppm	50.7702 ppm	0.0265 ppm	0.0107 ppm	0.4319 ppm	0.0060 ppm	40.5156 ppm
Concentration RSD	26.0 %	0.7 %	3.8 %	3.7 %	0.5 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0269 ppm	0.0581 ppm	0.1113 ppm	106.9661 ppm	3.5875 ppm	0.0524 ppm
Concentration per Run 1	0.0024 ppm	0.0263 ppm	0.0583 ppm	0.1109 ppm	106.4158 ppm	3.5708 ppm	0.0540 ppm
Concentration per Run 2	0.0023 ppm	0.0271 ppm	0.0580 ppm	0.1110 ppm	107.3430 ppm	3.6039 ppm	0.0521 ppm
Concentration per Run 3	0.0022 ppm	0.0273 ppm	0.0581 ppm	0.1122 ppm	107.1397 ppm	3.5877 ppm	0.0512 ppm
Concentration RSD	5.2 %	2.0 %	0.3 %	0.6 %	0.5 %	0.5 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3021 ppm	1.4732 ppm	0.0064 ppm	0.9943 ppm	0.0775 ppm	0.0453 ppm	-0.0021 ppm
Concentration per Run 1	15.2378 ppm	1.4725 ppm	0.0062 ppm	0.9964 ppm	0.0768 ppm	0.0468 ppm	-0.0052 ppm
Concentration per Run 2	15.3720 ppm	1.4770 ppm	0.0064 ppm	0.9869 ppm	0.0774 ppm	0.0442 ppm	0.0007 ppm
Concentration per Run 3	15.2966 ppm	1.4702 ppm	0.0067 ppm	0.9997 ppm	0.0782 ppm	0.0450 ppm	-0.0018 ppm
Concentration RSD	0.4 %	0.2 %	3.2 %	0.7 %	0.9 %	2.9 %	140.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	4.2644 ppm	0.0087 ppm	0.1390 ppm	2.1563 ppm	0.0036 ppm	0.1478 ppm
Concentration per Run 1	0.0028 ppm	4.2029 ppm	0.0083 ppm	0.1382 ppm	2.1471 ppm	0.0034 ppm	0.1480 ppm
Concentration per Run 2	0.0009 ppm	4.2900 ppm	0.0095 ppm	0.1392 ppm	2.1638 ppm	0.0027 ppm	0.1473 ppm
Concentration per Run 3	0.0027 ppm	4.3003 ppm	0.0083 ppm	0.1395 ppm	2.1581 ppm	0.0047 ppm	0.1481 ppm
Concentration RSD	50.8 %	1.3 %	7.7 %	0.5 %	0.4 %	27.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3275 ppm	109.5831 %	110.6923 %	104.5135 %	**186.0200 %**	**195.1969 %**	**187.7464 %**
Concentration per Run 1	0.3257 ppm	109.1890 %	111.4506 %	104.0906 %	**185.1987 %**	**196.0498 %**	**187.3427 %**
Concentration per Run 2	0.3268 ppm	109.8496 %	110.1514 %	104.9143 %	**186.5075 %**	**193.4981 %**	**187.9088 %**
Concentration per Run 3	0.3298 ppm	109.7107 %	110.4748 %	104.5356 %	**186.3539 %**	**196.0427 %**	**187.9876 %**
Concentration RSD	0.6 %	0.3 %	0.6 %	0.4 %	**0.4 %**	**0.8 %**	**0.2 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-03d2 WG1974066
Analysis started at: 9/24/2024 3:35:00 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	122.4461 ppm	0.0271 ppm	0.0058 ppm	0.7983 ppm	0.0106 ppm	31.5730 ppm
Concentration per Run 1	0.0013 ppm	122.5064 ppm	0.0268 ppm	0.0051 ppm	0.8009 ppm	0.0106 ppm	31.6293 ppm
Concentration per Run 2	0.0012 ppm	122.6122 ppm	0.0290 ppm	0.0069 ppm	0.7962 ppm	0.0106 ppm	31.7018 ppm
Concentration per Run 3	0.0013 ppm	122.2198 ppm	0.0255 ppm	0.0053 ppm	0.7977 ppm	0.0105 ppm	31.3879 ppm
Concentration RSD	5.6 %	0.2 %	6.7 %	17.1 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0407 ppm	0.1005 ppm	0.0585 ppm	182.2217 ppm	4.8035 ppm	0.1150 ppm
Concentration per Run 1	0.0017 ppm	0.0409 ppm	0.1003 ppm	0.0592 ppm	182.2237 ppm	4.8749 ppm	0.1162 ppm
Concentration per Run 2	0.0014 ppm	0.0407 ppm	0.1004 ppm	0.0574 ppm	182.6177 ppm	4.8023 ppm	0.1142 ppm
Concentration per Run 3	0.0014 ppm	0.0404 ppm	0.1008 ppm	0.0587 ppm	181.8236 ppm	4.7334 ppm	0.1147 ppm
Concentration RSD	11.6 %	0.6 %	0.2 %	1.6 %	0.2 %	1.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5480 ppm	1.1323 ppm	0.0037 ppm	0.9133 ppm	0.0675 ppm	0.1292 ppm	-0.0047 ppm
Concentration per Run 1	21.6118 ppm	1.1338 ppm	0.0038 ppm	0.9208 ppm	0.0671 ppm	0.1281 ppm	-0.0021 ppm
Concentration per Run 2	21.4517 ppm	1.1407 ppm	0.0033 ppm	0.9110 ppm	0.0667 ppm	0.1282 ppm	-0.0016 ppm
Concentration per Run 3	21.5806 ppm	1.1225 ppm	0.0040 ppm	0.9080 ppm	0.0686 ppm	0.1315 ppm	-0.0103 ppm
Concentration RSD	0.4 %	0.8 %	10.4 %	0.7 %	1.5 %	1.5 %	103.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	1.6520 ppm	0.0179 ppm	0.1884 ppm	3.5661 ppm	0.0048 ppm	0.2449 ppm
Concentration per Run 1	0.0009 ppm	1.6530 ppm	0.0193 ppm	0.1888 ppm	3.5566 ppm	0.0050 ppm	0.2460 ppm
Concentration per Run 2	0.0041 ppm	1.6498 ppm	0.0175 ppm	0.1888 ppm	3.5651 ppm	0.0073 ppm	0.2445 ppm
Concentration per Run 3	-0.0025 ppm	1.6530 ppm	0.0169 ppm	0.1876 ppm	3.5767 ppm	0.0021 ppm	0.2443 ppm
Concentration RSD	389.0 %	0.1 %	6.9 %	0.4 %	0.3 %	54.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5540 ppm	110.7235 %	113.6139 %	105.2198 %	**194.8976 %**	**208.8106 %**	**199.6252 %**
Concentration per Run 1	0.5520 ppm	111.0076 %	113.2132 %	105.2537 %	**195.3787 %**	**208.7674 %**	**199.1039 %**
Concentration per Run 2	0.5544 ppm	110.8523 %	112.7654 %	105.1630 %	**195.0218 %**	**207.9213 %**	**199.6957 %**
Concentration per Run 3	0.5555 ppm	110.3105 %	114.8633 %	105.2426 %	**194.2923 %**	**209.7432 %**	**200.0759 %**
Concentration RSD	0.3 %	0.3 %	1.0 %	0.0 %	**0.3 %**	**0.4 %**	**0.2 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-04d2 WG1974066
Analysis started at: 9/24/2024 3:38:55 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	99.7559 ppm	0.0255 ppm	0.0076 ppm	0.4499 ppm	0.0056 ppm	11.9234 ppm
Concentration per Run 1	0.0018 ppm	99.4921 ppm	0.0271 ppm	0.0073 ppm	0.4483 ppm	0.0055 ppm	11.9314 ppm
Concentration per Run 2	0.0022 ppm	100.2169 ppm	0.0247 ppm	0.0096 ppm	0.4502 ppm	0.0056 ppm	11.9433 ppm
Concentration per Run 3	0.0019 ppm	99.5586 ppm	0.0246 ppm	0.0059 ppm	0.4513 ppm	0.0056 ppm	11.8954 ppm
Concentration RSD	9.1 %	0.4 %	5.4 %	24.0 %	0.3 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0274 ppm	0.0692 ppm	0.0434 ppm	155.2260 ppm	2.8942 ppm	0.0763 ppm
Concentration per Run 1	0.0015 ppm	0.0272 ppm	0.0688 ppm	0.0427 ppm	154.4561 ppm	2.9080 ppm	0.0776 ppm
Concentration per Run 2	0.0016 ppm	0.0278 ppm	0.0700 ppm	0.0442 ppm	155.7893 ppm	2.8939 ppm	0.0755 ppm
Concentration per Run 3	0.0013 ppm	0.0272 ppm	0.0688 ppm	0.0433 ppm	155.4326 ppm	2.8807 ppm	0.0759 ppm
Concentration RSD	10.1 %	1.4 %	1.0 %	1.7 %	0.4 %	0.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.6346 ppm	1.2928 ppm	0.0080 ppm	0.4769 ppm	0.0501 ppm	0.1095 ppm	-0.0003 ppm
Concentration per Run 1	12.6311 ppm	1.2914 ppm	0.0081 ppm	0.4753 ppm	0.0501 ppm	0.1091 ppm	-0.0032 ppm
Concentration per Run 2	12.6810 ppm	1.2945 ppm	0.0079 ppm	0.4805 ppm	0.0497 ppm	0.1089 ppm	0.0005 ppm
Concentration per Run 3	12.5916 ppm	1.2926 ppm	0.0081 ppm	0.4749 ppm	0.0504 ppm	0.1107 ppm	0.0018 ppm
Concentration RSD	0.4 %	0.1 %	1.9 %	0.7 %	0.7 %	0.9 %	860.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	1.2283 ppm	0.0158 ppm	0.0548 ppm	3.2089 ppm	0.0029 ppm	0.2204 ppm
Concentration per Run 1	0.0042 ppm	1.2375 ppm	0.0155 ppm	0.0545 ppm	3.2079 ppm	0.0023 ppm	0.2199 ppm
Concentration per Run 2	0.0005 ppm	1.2386 ppm	0.0159 ppm	0.0550 ppm	3.2263 ppm	0.0032 ppm	0.2211 ppm
Concentration per Run 3	0.0012 ppm	1.2090 ppm	0.0159 ppm	0.0550 ppm	3.1926 ppm	0.0031 ppm	0.2202 ppm
Concentration RSD	101.3 %	1.4 %	1.3 %	0.6 %	0.5 %	17.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4768 ppm	108.0890 %	110.1668 %	103.6670 %	133.0116 %	139.8919 %	135.9094 %
Concentration per Run 1	0.4765 ppm	109.0510 %	110.4926 %	104.1319 %	134.1069 %	140.4925 %	137.1830 %
Concentration per Run 2	0.4805 ppm	107.1336 %	109.6269 %	104.1173 %	131.6932 %	139.3215 %	135.7725 %
Concentration per Run 3	0.4733 ppm	108.0826 %	110.3808 %	102.7519 %	133.2346 %	139.8619 %	134.7726 %
Concentration RSD	0.8 %	0.9 %	0.4 %	0.8 %	0.9 %	0.4 %	0.9 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:42:50 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5104 ppm	0.4756 ppm	0.4786 ppm	0.4941 ppm	0.4860 ppm	0.5003 ppm	0.4822 ppm
Concentration per Run 1	0.4859 ppm	0.4769 ppm	0.4755 ppm	0.4767 ppm	0.4897 ppm	0.5019 ppm	0.4847 ppm
Concentration per Run 2	0.5386 ppm	0.4636 ppm	0.4808 ppm	0.5193 ppm	0.4823 ppm	0.4990 ppm	0.4827 ppm
Concentration per Run 3	0.5067 ppm	0.4863 ppm	0.4794 ppm	0.4864 ppm	0.4861 ppm	0.4998 ppm	0.4792 ppm
Recovery Percentage 1	102.077 %	95.116 %	95.712 %	98.829 %	97.205 %	100.050 %	96.443 %
Concentration RSD	5.2 %	2.4 %	0.6 %	4.5 %	0.8 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4961 ppm	0.5071 ppm	0.4877 ppm	0.4923 ppm	0.4993 ppm	5.0657 ppm	0.4845 ppm
Concentration per Run 1	0.4735 ppm	0.4812 ppm	0.4648 ppm	0.4689 ppm	0.5027 ppm	5.0931 ppm	0.4851 ppm
Concentration per Run 2	0.5259 ppm	0.5400 ppm	0.5165 ppm	0.5207 ppm	0.4993 ppm	5.0578 ppm	0.4867 ppm
Concentration per Run 3	0.4888 ppm	0.5001 ppm	0.4819 ppm	0.4874 ppm	0.4960 ppm	5.0462 ppm	0.4818 ppm
Recovery Percentage 1	99.214 %	101.418 %	97.541 %	98.462 %	99.868 %	101.314 %	96.910 %
Concentration RSD	5.4 %	5.9 %	5.4 %	5.3 %	0.7 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4903 ppm	0.4796 ppm	0.4924 ppm	9.7504 ppm	0.5080 ppm	0.4921 ppm	0.5072 ppm
Concentration per Run 1	0.4679 ppm	0.4784 ppm	0.4659 ppm	9.7727 ppm	0.4832 ppm	0.4917 ppm	0.4848 ppm
Concentration per Run 2	0.5174 ppm	0.4812 ppm	0.5232 ppm	9.7060 ppm	0.5398 ppm	0.4929 ppm	0.5361 ppm
Concentration per Run 3	0.4855 ppm	0.4792 ppm	0.4881 ppm	9.7723 ppm	0.5010 ppm	0.4917 ppm	0.5007 ppm
Recovery Percentage 1	98.055 %	95.923 %	98.476 %	97.504 %	101.597 %	98.418 %	101.442 %
Concentration RSD	5.1 %	0.3 %	5.9 %	0.4 %	5.7 %	0.1 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4893 ppm	5.3177 ppm	0.4788 ppm	0.4676 ppm	0.4997 ppm	0.4962 ppm	0.4819 ppm
Concentration per Run 1	0.4884 ppm	5.0765 ppm	0.4542 ppm	0.4698 ppm	0.4744 ppm	0.4927 ppm	0.4585 ppm
Concentration per Run 2	0.4884 ppm	5.6136 ppm	0.5087 ppm	0.4652 ppm	0.5296 ppm	0.4973 ppm	0.5116 ppm
Concentration per Run 3	0.4911 ppm	5.2629 ppm	0.4734 ppm	0.4676 ppm	0.4952 ppm	0.4987 ppm	0.4758 ppm
Recovery Percentage 1	97.862 %	101.289 %	95.752 %	93.514 %	99.946 %	99.245 %	96.389 %
Concentration RSD	0.3 %	5.1 %	5.8 %	0.5 %	5.6 %	0.6 %	5.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5035 ppm	104.6290 %	104.5828 %	103.7068 %	102.6539 %	104.1639 %	103.5276 %
Concentration per Run 1	0.4808 ppm	109.8629 %	105.3528 %	104.0757 %	107.5193 %	105.3629 %	103.7220 %
Concentration per Run 2	0.5334 ppm	98.5686 %	104.5601 %	103.3188 %	97.1533 %	103.6088 %	103.2535 %
Concentration per Run 3	0.4964 ppm	105.4553 %	103.8356 %	103.7259 %	103.2893 %	103.5199 %	103.6073 %
Recovery Percentage 1	100.705 %						
Concentration RSD	5.4 %	5.4 %	0.7 %	0.4 %	5.1 %	1.0 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:46:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0096 ppm	0.0011 ppm	0.0020 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0008 ppm	0.0080 ppm	-0.0023 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	0.0004 ppm	0.0114 ppm	0.0025 ppm	0.0036 ppm	-0.0004 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	0.0008 ppm	0.0094 ppm	0.0031 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	8.968 %	9.612 %	22.010 %	6.549 %	-1.714 %	0.081 %	-0.643 %
Concentration RSD	36.6 %	18.1 %	270.6 %	84.6 %	144.7 %	962.6 %	234.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0049 ppm	-0.0066 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0006 ppm	0.0040 ppm	-0.0046 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0054 ppm	-0.0036 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0054 ppm	-0.0116 ppm	0.0004 ppm
Recovery Percentage 1	0.808 %	1.126 %	-2.046 %	-2.395 %	9.870 %	-0.264 %	6.017 %
Concentration RSD	332.6 %	132.6 %	52.3 %	129.9 %	15.9 %	66.5 %	21.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0033 ppm	-0.0002 ppm	0.0010 ppm	-0.0029 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0043 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0053 ppm	-0.0001 ppm	0.0015 ppm	-0.0036 ppm	0.0002 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 3	-0.0042 ppm	-0.0002 ppm	0.0010 ppm	-0.0009 ppm	-0.0005 ppm	-0.0003 ppm	0.0013 ppm
Recovery Percentage 1	-3.284 %	-1.656 %	2.066 %	-0.146 %	-0.397 %	-1.545 %	1.852 %
Concentration RSD	79.4 %	19.4 %	38.9 %	61.8 %	356.4 %	289.0 %	96.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	-0.0018 ppm	-0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0063 ppm	-0.0039 ppm	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0005 ppm	0.0001 ppm	-0.0013 ppm	0.0001 ppm	0.0006 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 3	-0.0018 ppm	-0.0015 ppm	-0.0022 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	-0.0005 ppm
Recovery Percentage 1	-25.116 %	-0.355 %	-2.431 %	0.847 %	6.627 %	-1.812 %	-3.520 %
Concentration RSD	137.6 %	113.1 %	83.6 %	43.9 %	32.7 %	301.8 %	42.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0017 ppm	104.4731 %	103.1585 %	103.1976 %	103.6931 %	103.9101 %	104.0044 %
Concentration per Run 1	-0.0016 ppm	104.4339 %	102.8648 %	102.7923 %	103.8587 %	103.7054 %	103.2499 %
Concentration per Run 2	-0.0016 ppm	105.1388 %	102.9128 %	103.5152 %	104.6231 %	103.4985 %	104.4479 %
Concentration per Run 3	-0.0018 ppm	103.8466 %	103.6980 %	103.2851 %	102.5974 %	104.5263 %	104.3155 %
Recovery Percentage 1	-33.454 %						
Concentration RSD	5.1 %	0.6 %	0.5 %	0.4 %	1.0 %	0.5 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-05d2 WG1974066
Analysis started at: 9/24/2024 3:52:01 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	151.4827 ppm	0.0270 ppm	0.0089 ppm	0.8683 ppm	0.0123 ppm	31.9255 ppm
Concentration per Run 1	0.0019 ppm	150.5994 ppm	0.0285 ppm	0.0092 ppm	0.8605 ppm	0.0123 ppm	31.7597 ppm
Concentration per Run 2	0.0015 ppm	152.0169 ppm	0.0267 ppm	0.0099 ppm	0.8662 ppm	0.0122 ppm	31.9766 ppm
Concentration per Run 3	0.0026 ppm	151.8317 ppm	0.0258 ppm	0.0076 ppm	0.8783 ppm	0.0124 ppm	32.0401 ppm
Concentration RSD	26.5 %	0.5 %	5.2 %	13.3 %	1.0 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0472 ppm	0.1080 ppm	0.0617 ppm	213.1332 ppm	6.5674 ppm	0.1331 ppm
Concentration per Run 1	0.0023 ppm	0.0472 ppm	0.1094 ppm	0.0620 ppm	212.0312 ppm	6.5353 ppm	0.1328 ppm
Concentration per Run 2	0.0023 ppm	0.0469 ppm	0.1060 ppm	0.0611 ppm	213.5907 ppm	6.5927 ppm	0.1332 ppm
Concentration per Run 3	0.0023 ppm	0.0475 ppm	0.1086 ppm	0.0619 ppm	213.7777 ppm	6.5742 ppm	0.1332 ppm
Concentration RSD	0.7 %	0.6 %	1.6 %	0.8 %	0.4 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.8479 ppm	3.9819 ppm	0.0069 ppm	0.7600 ppm	0.0793 ppm	0.1079 ppm	-0.0050 ppm
Concentration per Run 1	21.9272 ppm	3.9784 ppm	0.0065 ppm	0.7557 ppm	0.0806 ppm	0.1069 ppm	-0.0018 ppm
Concentration per Run 2	21.8475 ppm	3.9619 ppm	0.0071 ppm	0.7633 ppm	0.0781 ppm	0.1077 ppm	-0.0120 ppm
Concentration per Run 3	21.7690 ppm	4.0055 ppm	0.0071 ppm	0.7609 ppm	0.0793 ppm	0.1091 ppm	-0.0011 ppm
Concentration RSD	0.4 %	0.6 %	4.6 %	0.5 %	1.6 %	1.0 %	123.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	1.1429 ppm	0.0177 ppm	0.1317 ppm	3.1622 ppm	0.0054 ppm	0.3061 ppm
Concentration per Run 1	0.0022 ppm	1.1424 ppm	0.0172 ppm	0.1312 ppm	3.1712 ppm	0.0049 ppm	0.3070 ppm
Concentration per Run 2	-0.0015 ppm	1.1423 ppm	0.0183 ppm	0.1319 ppm	3.1500 ppm	0.0071 ppm	0.3066 ppm
Concentration per Run 3	0.0056 ppm	1.1441 ppm	0.0174 ppm	0.1322 ppm	3.1656 ppm	0.0042 ppm	0.3048 ppm
Concentration RSD	167.0 %	0.1 %	3.4 %	0.4 %	0.3 %	28.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7321 ppm	109.7683 %	115.3820 %	102.9213 %	**209.5216 %**	**229.0490 %**	**212.8792 %**
Concentration per Run 1	0.7369 ppm	109.8097 %	116.0871 %	103.7651 %	**209.2440 %**	**229.7711 %**	**214.3874 %**
Concentration per Run 2	0.7246 ppm	110.9157 %	113.7955 %	102.3250 %	**211.1768 %**	**226.1196 %**	**212.2322 %**
Concentration per Run 3	0.7347 ppm	108.5793 %	116.2634 %	102.6736 %	**208.1439 %**	**231.2562 %**	**212.0179 %**
Concentration RSD	0.9 %	1.1 %	1.2 %	0.7 %	**0.7 %**	**1.2 %**	**0.6 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-06d2 WG1974066
Analysis started at: 9/24/2024 3:56:10 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	155.7513 ppm	0.0276 ppm	0.0067 ppm	0.7444 ppm	0.0122 ppm	18.5602 ppm
Concentration per Run 1	0.0022 ppm	155.8520 ppm	0.0263 ppm	0.0073 ppm	0.7485 ppm	0.0122 ppm	18.6054 ppm
Concentration per Run 2	0.0021 ppm	155.7450 ppm	0.0276 ppm	0.0069 ppm	0.7394 ppm	0.0122 ppm	18.5862 ppm
Concentration per Run 3	0.0012 ppm	155.6570 ppm	0.0289 ppm	0.0059 ppm	0.7454 ppm	0.0122 ppm	18.4889 ppm
Concentration RSD	28.0 %	0.1 %	4.8 %	10.7 %	0.6 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0581 ppm	0.1173 ppm	0.0693 ppm	322.5702 ppm	6.7952 ppm	0.1202 ppm
Concentration per Run 1	0.0020 ppm	0.0582 ppm	0.1169 ppm	0.0698 ppm	323.7442 ppm	6.8563 ppm	0.1220 ppm
Concentration per Run 2	0.0022 ppm	0.0567 ppm	0.1178 ppm	0.0681 ppm	321.1319 ppm	6.7229 ppm	0.1185 ppm
Concentration per Run 3	0.0022 ppm	0.0596 ppm	0.1171 ppm	0.0699 ppm	322.8346 ppm	6.8062 ppm	0.1203 ppm
Concentration RSD	6.8 %	2.5 %	0.4 %	1.4 %	0.4 %	1.0 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.2448 ppm	6.1097 ppm	0.0105 ppm	0.9001 ppm	0.0793 ppm	0.1172 ppm	-0.0045 ppm
Concentration per Run 1	22.2100 ppm	6.1234 ppm	0.0101 ppm	0.9041 ppm	0.0789 ppm	0.1176 ppm	-0.0016 ppm
Concentration per Run 2	22.2967 ppm	6.0815 ppm	0.0100 ppm	0.8994 ppm	0.0789 ppm	0.1155 ppm	-0.0099 ppm
Concentration per Run 3	22.2276 ppm	6.1240 ppm	0.0115 ppm	0.8967 ppm	0.0802 ppm	0.1186 ppm	-0.0020 ppm
Concentration RSD	0.2 %	0.4 %	7.9 %	0.4 %	0.9 %	1.4 %	104.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	1.1734 ppm	0.0216 ppm	0.0808 ppm	4.7352 ppm	0.0077 ppm	0.3893 ppm
Concentration per Run 1	0.0024 ppm	1.1718 ppm	0.0226 ppm	0.0814 ppm	4.7267 ppm	0.0104 ppm	0.3885 ppm
Concentration per Run 2	0.0005 ppm	1.1703 ppm	0.0210 ppm	0.0801 ppm	4.7483 ppm	0.0068 ppm	0.3898 ppm
Concentration per Run 3	-0.0019 ppm	1.1782 ppm	0.0211 ppm	0.0810 ppm	4.7307 ppm	0.0059 ppm	0.3895 ppm
Concentration RSD	640.1 %	0.4 %	4.3 %	0.8 %	0.2 %	31.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7653 ppm	109.7669 %	112.3101 %	103.0638 %	**164.8751 %**	**174.7752 %**	**167.6325 %**
Concentration per Run 1	0.7653 ppm	110.0772 %	112.9617 %	102.5149 %	**165.4608 %**	**175.7848 %**	**167.1133 %**
Concentration per Run 2	0.7641 ppm	109.8275 %	112.0506 %	103.8964 %	**165.2210 %**	**174.7879 %**	**168.5547 %**
Concentration per Run 3	0.7664 ppm	109.3961 %	111.9180 %	102.7801 %	**163.9434 %**	**173.7530 %**	**167.2295 %**
Concentration RSD	0.2 %	0.3 %	0.5 %	0.7 %	**0.5 %**	**0.6 %**	**0.5 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-07d2 WG1974066
Analysis started at: 9/24/2024 4:00:05 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	115.0266 ppm	0.0198 ppm	0.0063 ppm	0.5270 ppm	0.0076 ppm	15.5530 ppm
Concentration per Run 1	0.0017 ppm	115.3799 ppm	0.0204 ppm	0.0043 ppm	0.5281 ppm	0.0077 ppm	15.6647 ppm
Concentration per Run 2	0.0013 ppm	115.1641 ppm	0.0187 ppm	0.0077 ppm	0.5255 ppm	0.0075 ppm	15.5343 ppm
Concentration per Run 3	0.0019 ppm	114.5357 ppm	0.0204 ppm	0.0068 ppm	0.5274 ppm	0.0076 ppm	15.4599 ppm
Concentration RSD	18.8 %	0.4 %	4.9 %	28.1 %	0.3 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0409 ppm	0.0821 ppm	0.0502 ppm	185.8365 ppm	3.8324 ppm	0.0973 ppm
Concentration per Run 1	0.0013 ppm	0.0405 ppm	0.0813 ppm	0.0504 ppm	186.7086 ppm	3.8643 ppm	0.0993 ppm
Concentration per Run 2	0.0015 ppm	0.0415 ppm	0.0825 ppm	0.0500 ppm	185.3398 ppm	3.8364 ppm	0.0956 ppm
Concentration per Run 3	0.0014 ppm	0.0408 ppm	0.0826 ppm	0.0501 ppm	185.4612 ppm	3.7965 ppm	0.0970 ppm
Concentration RSD	7.1 %	1.3 %	0.9 %	0.4 %	0.4 %	0.9 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3650 ppm	2.8310 ppm	0.0067 ppm	0.5168 ppm	0.0552 ppm	0.1165 ppm	-0.0026 ppm
Concentration per Run 1	15.2915 ppm	2.8493 ppm	0.0069 ppm	0.5209 ppm	0.0544 ppm	0.1172 ppm	-0.0069 ppm
Concentration per Run 2	15.3527 ppm	2.8271 ppm	0.0062 ppm	0.5205 ppm	0.0552 ppm	0.1164 ppm	0.0010 ppm
Concentration per Run 3	15.4508 ppm	2.8165 ppm	0.0070 ppm	0.5091 ppm	0.0559 ppm	0.1160 ppm	-0.0018 ppm
Concentration RSD	0.5 %	0.6 %	5.8 %	1.3 %	1.3 %	0.5 %	155.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	1.5982 ppm	0.0168 ppm	0.0650 ppm	3.5493 ppm	0.0046 ppm	0.2713 ppm
Concentration per Run 1	-0.0015 ppm	1.6051 ppm	0.0157 ppm	0.0652 ppm	3.5382 ppm	0.0042 ppm	0.2712 ppm
Concentration per Run 2	-0.0034 ppm	1.5897 ppm	0.0179 ppm	0.0647 ppm	3.5451 ppm	0.0055 ppm	0.2712 ppm
Concentration per Run 3	0.0014 ppm	1.6000 ppm	0.0169 ppm	0.0650 ppm	3.5646 ppm	0.0041 ppm	0.2715 ppm
Concentration RSD	213.3 %	0.5 %	6.3 %	0.3 %	0.4 %	17.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5427 ppm	109.7189 %	110.7034 %	103.1996 %	147.4819 %	153.6810 %	148.0406 %
Concentration per Run 1	0.5397 ppm	110.1999 %	111.0541 %	102.5330 %	148.4920 %	154.2466 %	147.2813 %
Concentration per Run 2	0.5456 ppm	109.9687 %	110.2667 %	103.8689 %	147.8356 %	153.2473 %	148.5469 %
Concentration per Run 3	0.5428 ppm	108.9881 %	110.7894 %	103.1969 %	146.1181 %	153.5491 %	148.2936 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.6 %	0.8 %	0.3 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-08d2 WG1974066
Analysis started at: 9/24/2024 4:04:00 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	72.8938 ppm	0.0141 ppm	0.0041 ppm	0.2232 ppm	0.0033 ppm	9.0482 ppm
Concentration per Run 1	0.0017 ppm	72.7555 ppm	0.0142 ppm	0.0049 ppm	0.2235 ppm	0.0033 ppm	9.0732 ppm
Concentration per Run 2	0.0009 ppm	72.9237 ppm	0.0118 ppm	0.0045 ppm	0.2224 ppm	0.0032 ppm	9.0390 ppm
Concentration per Run 3	0.0011 ppm	73.0022 ppm	0.0162 ppm	0.0031 ppm	0.2237 ppm	0.0032 ppm	9.0323 ppm
Concentration RSD	36.0 %	0.2 %	15.6 %	22.6 %	0.3 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0097 ppm	0.0449 ppm	0.0247 ppm	112.5329 ppm	1.2716 ppm	0.0358 ppm
Concentration per Run 1	0.0014 ppm	0.0099 ppm	0.0443 ppm	0.0242 ppm	112.3150 ppm	1.3054 ppm	0.0360 ppm
Concentration per Run 2	0.0013 ppm	0.0099 ppm	0.0452 ppm	0.0250 ppm	112.7141 ppm	1.2429 ppm	0.0372 ppm
Concentration per Run 3	0.0018 ppm	0.0094 ppm	0.0454 ppm	0.0249 ppm	112.5696 ppm	1.2665 ppm	0.0344 ppm
Concentration RSD	18.2 %	3.0 %	1.3 %	1.8 %	0.2 %	2.5 %	4.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9465 ppm	0.5333 ppm	0.0064 ppm	0.2462 ppm	0.0256 ppm	0.0895 ppm	-0.0024 ppm
Concentration per Run 1	5.9082 ppm	0.5331 ppm	0.0058 ppm	0.2399 ppm	0.0262 ppm	0.0908 ppm	-0.0003 ppm
Concentration per Run 2	5.9672 ppm	0.5339 ppm	0.0066 ppm	0.2536 ppm	0.0249 ppm	0.0887 ppm	-0.0024 ppm
Concentration per Run 3	5.9640 ppm	0.5330 ppm	0.0067 ppm	0.2452 ppm	0.0258 ppm	0.0890 ppm	-0.0046 ppm
Concentration RSD	0.6 %	0.1 %	7.1 %	2.8 %	2.6 %	1.3 %	88.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0040 ppm	1.3208 ppm	0.0115 ppm	0.0322 ppm	2.5151 ppm	0.0041 ppm	0.1503 ppm
Concentration per Run 1	0.0045 ppm	1.3059 ppm	0.0122 ppm	0.0321 ppm	2.4976 ppm	0.0037 ppm	0.1500 ppm
Concentration per Run 2	0.0014 ppm	1.3261 ppm	0.0120 ppm	0.0321 ppm	2.5265 ppm	0.0031 ppm	0.1506 ppm
Concentration per Run 3	0.0062 ppm	1.3305 ppm	0.0103 ppm	0.0323 ppm	2.5213 ppm	0.0054 ppm	0.1502 ppm
Concentration RSD	61.0 %	1.0 %	8.9 %	0.4 %	0.6 %	28.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2248 ppm	108.6198 %	109.1247 %	104.7347 %	121.0092 %	125.0039 %	122.5417 %
Concentration per Run 1	0.2232 ppm	109.5841 %	108.8807 %	104.7198 %	121.8978 %	124.7638 %	122.8402 %
Concentration per Run 2	0.2262 ppm	108.1028 %	109.7927 %	105.3349 %	120.5898 %	125.5618 %	122.9867 %
Concentration per Run 3	0.2251 ppm	108.1724 %	108.7006 %	104.1494 %	120.5399 %	124.6861 %	121.7982 %
Concentration RSD	0.7 %	0.8 %	0.5 %	0.6 %	0.6 %	0.4 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-09d2 WG1974066
Analysis started at: 9/24/2024 4:07:56 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	94.3798 ppm	0.0298 ppm	0.0101 ppm	0.6202 ppm	0.0095 ppm	35.5535 ppm
Concentration per Run 1	0.0016 ppm	87.4668 ppm	0.0301 ppm	0.0102 ppm	0.5737 ppm	0.0088 ppm	33.1081 ppm
Concentration per Run 2	0.0012 ppm	100.2308 ppm	0.0298 ppm	0.0119 ppm	0.6567 ppm	0.0101 ppm	37.7230 ppm
Concentration per Run 3	0.0010 ppm	95.4418 ppm	0.0296 ppm	0.0083 ppm	0.6302 ppm	0.0096 ppm	35.8293 ppm
Concentration RSD	25.6 %	6.8 %	0.9 %	17.7 %	6.8 %	6.6 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0185 ppm	0.0619 ppm	0.0671 ppm	62.6330 ppm	2.6578 ppm	0.0747 ppm
Concentration per Run 1	0.0027 ppm	0.0188 ppm	0.0618 ppm	0.0667 ppm	58.0023 ppm	2.4919 ppm	0.0697 ppm
Concentration per Run 2	0.0031 ppm	0.0182 ppm	0.0617 ppm	0.0679 ppm	66.5578 ppm	2.7915 ppm	0.0786 ppm
Concentration per Run 3	0.0028 ppm	0.0186 ppm	0.0621 ppm	0.0666 ppm	63.3389 ppm	2.6898 ppm	0.0758 ppm
Concentration RSD	6.8 %	1.5 %	0.3 %	1.1 %	6.9 %	5.7 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.6754 ppm	0.6733 ppm	0.0020 ppm	1.3666 ppm	0.0465 ppm	0.0970 ppm	-0.0018 ppm
Concentration per Run 1	11.6694 ppm	0.6276 ppm	0.0020 ppm	1.2755 ppm	0.0467 ppm	0.0987 ppm	-0.0038 ppm
Concentration per Run 2	11.6590 ppm	0.7122 ppm	0.0024 ppm	1.4354 ppm	0.0470 ppm	0.0971 ppm	0.0021 ppm
Concentration per Run 3	11.6980 ppm	0.6802 ppm	0.0017 ppm	1.3888 ppm	0.0458 ppm	0.0952 ppm	-0.0037 ppm
Concentration RSD	0.2 %	6.3 %	16.8 %	6.0 %	1.3 %	1.8 %	186.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.3338 ppm	0.0093 ppm	0.1246 ppm	1.1755 ppm	0.0038 ppm	0.0939 ppm
Concentration per Run 1	0.0000 ppm	1.3262 ppm	0.0096 ppm	0.1157 ppm	1.1782 ppm	0.0041 ppm	0.0935 ppm
Concentration per Run 2	0.0006 ppm	1.3308 ppm	0.0084 ppm	0.1320 ppm	1.1746 ppm	0.0033 ppm	0.0936 ppm
Concentration per Run 3	0.0019 ppm	1.3443 ppm	0.0099 ppm	0.1262 ppm	1.1738 ppm	0.0042 ppm	0.0945 ppm
Concentration RSD	114.1 %	0.7 %	8.4 %	6.6 %	0.2 %	12.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3646 ppm	110.2251 %	113.2575 %	105.0874 %	**226.9750 %**	**243.9446 %**	**231.0136 %**
Concentration per Run 1	0.3670 ppm	109.5906 %	120.6510 %	103.8179 %	**225.2975 %**	**249.6190 %**	**228.9123 %**
Concentration per Run 2	0.3651 ppm	110.1888 %	108.2818 %	105.7211 %	**227.5714 %**	**241.5325 %**	**232.4911 %**
Concentration per Run 3	0.3618 ppm	110.8958 %	110.8396 %	105.7231 %	**228.0561 %**	**240.6821 %**	**231.6375 %**
Concentration RSD	0.7 %	0.6 %	5.8 %	1.0 %	**0.6 %**	**2.0 %**	**0.8 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-10d2 WG1974066
Analysis started at: 9/24/2024 4:11:51 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	135.9261 ppm	0.0460 ppm	0.0065 ppm	0.9720 ppm	0.0145 ppm	48.3456 ppm
Concentration per Run 1	0.0018 ppm	135.7832 ppm	0.0452 ppm	0.0078 ppm	0.9682 ppm	0.0145 ppm	48.3044 ppm
Concentration per Run 2	0.0016 ppm	135.4525 ppm	0.0458 ppm	0.0069 ppm	0.9651 ppm	0.0144 ppm	48.2720 ppm
Concentration per Run 3	0.0018 ppm	136.5426 ppm	0.0471 ppm	0.0048 ppm	0.9827 ppm	0.0146 ppm	48.4603 ppm
Concentration RSD	7.7 %	0.4 %	2.1 %	23.8 %	1.0 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0219 ppm	0.0836 ppm	0.0721 ppm	76.0191 ppm	3.3872 ppm	0.0914 ppm
Concentration per Run 1	0.0041 ppm	0.0216 ppm	0.0843 ppm	0.0729 ppm	76.0187 ppm	3.3882 ppm	0.0923 ppm
Concentration per Run 2	0.0041 ppm	0.0222 ppm	0.0828 ppm	0.0717 ppm	75.5131 ppm	3.3925 ppm	0.0908 ppm
Concentration per Run 3	0.0043 ppm	0.0220 ppm	0.0836 ppm	0.0718 ppm	76.5255 ppm	3.3811 ppm	0.0912 ppm
Concentration RSD	3.2 %	1.5 %	0.9 %	0.9 %	0.7 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.5981 ppm	0.8497 ppm	0.0020 ppm	1.0342 ppm	0.0550 ppm	0.1166 ppm	-0.0039 ppm
Concentration per Run 1	13.6181 ppm	0.8496 ppm	0.0021 ppm	1.0419 ppm	0.0556 ppm	0.1185 ppm	-0.0044 ppm
Concentration per Run 2	13.5519 ppm	0.8477 ppm	0.0023 ppm	1.0253 ppm	0.0544 ppm	0.1148 ppm	-0.0057 ppm
Concentration per Run 3	13.6244 ppm	0.8519 ppm	0.0016 ppm	1.0353 ppm	0.0549 ppm	0.1164 ppm	-0.0016 ppm
Concentration RSD	0.3 %	0.2 %	17.2 %	0.8 %	1.1 %	1.6 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	2.5295 ppm	0.0118 ppm	0.1842 ppm	0.9069 ppm	0.0052 ppm	0.1037 ppm
Concentration per Run 1	0.0037 ppm	2.5552 ppm	0.0112 ppm	0.1843 ppm	0.9095 ppm	0.0032 ppm	0.1040 ppm
Concentration per Run 2	-0.0006 ppm	2.5008 ppm	0.0127 ppm	0.1831 ppm	0.9048 ppm	0.0075 ppm	0.1033 ppm
Concentration per Run 3	0.0009 ppm	2.5326 ppm	0.0116 ppm	0.1852 ppm	0.9064 ppm	0.0048 ppm	0.1038 ppm
Concentration RSD	161.4 %	1.1 %	6.7 %	0.6 %	0.3 %	41.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4880 ppm	107.8207 %	109.3969 %	101.1063 %	**267.3950 %**	**287.0107 %**	**272.4377 %**
Concentration per Run 1	0.4920 ppm	107.2947 %	109.4335 %	101.1779 %	**266.3402 %**	**287.3682 %**	**273.3849 %**
Concentration per Run 2	0.4845 ppm	108.1011 %	109.6262 %	100.4400 %	**267.9096 %**	**287.3326 %**	**270.4148 %**
Concentration per Run 3	0.4876 ppm	108.0662 %	109.1311 %	101.7011 %	**267.9350 %**	**286.3312 %**	**273.5135 %**
Concentration RSD	0.8 %	0.4 %	0.2 %	0.6 %	**0.3 %**	**0.2 %**	**0.6 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-11d2 WG1974066
Analysis started at: 9/24/2024 4:15:47 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	149.0165 ppm	0.0340 ppm	0.0106 ppm	0.9578 ppm	0.0113 ppm	43.8470 ppm
Concentration per Run 1	0.0022 ppm	148.7062 ppm	0.0334 ppm	0.0106 ppm	0.9536 ppm	0.0113 ppm	43.6871 ppm
Concentration per Run 2	0.0017 ppm	149.1675 ppm	0.0340 ppm	0.0091 ppm	0.9597 ppm	0.0114 ppm	43.7226 ppm
Concentration per Run 3	0.0015 ppm	149.1758 ppm	0.0345 ppm	0.0122 ppm	0.9602 ppm	0.0113 ppm	44.1312 ppm
Concentration RSD	19.1 %	0.2 %	1.7 %	14.2 %	0.4 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0320 ppm	0.1088 ppm	0.1139 ppm	147.4948 ppm	5.6828 ppm	0.1317 ppm
Concentration per Run 1	0.0021 ppm	0.0326 ppm	0.1096 ppm	0.1139 ppm	146.9614 ppm	5.7160 ppm	0.1315 ppm
Concentration per Run 2	0.0023 ppm	0.0326 ppm	0.1086 ppm	0.1137 ppm	147.3641 ppm	5.6759 ppm	0.1306 ppm
Concentration per Run 3	0.0022 ppm	0.0310 ppm	0.1083 ppm	0.1140 ppm	148.1589 ppm	5.6566 ppm	0.1329 ppm
Concentration RSD	4.3 %	2.9 %	0.6 %	0.1 %	0.4 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.5079 ppm	1.0390 ppm	0.0025 ppm	0.8012 ppm	0.0716 ppm	0.1103 ppm	-0.0042 ppm
Concentration per Run 1	22.5651 ppm	1.0369 ppm	0.0026 ppm	0.8040 ppm	0.0726 ppm	0.1093 ppm	-0.0031 ppm
Concentration per Run 2	22.5312 ppm	1.0368 ppm	0.0030 ppm	0.8084 ppm	0.0696 ppm	0.1113 ppm	0.0022 ppm
Concentration per Run 3	22.4272 ppm	1.0434 ppm	0.0018 ppm	0.7912 ppm	0.0726 ppm	0.1103 ppm	-0.0117 ppm
Concentration RSD	0.3 %	0.4 %	23.1 %	1.1 %	2.4 %	0.9 %	165.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	1.9240 ppm	0.0182 ppm	0.1427 ppm	2.6477 ppm	0.0048 ppm	0.2042 ppm
Concentration per Run 1	-0.0014 ppm	1.9312 ppm	0.0179 ppm	0.1420 ppm	2.6521 ppm	0.0047 ppm	0.2044 ppm
Concentration per Run 2	-0.0008 ppm	1.9194 ppm	0.0188 ppm	0.1429 ppm	2.6555 ppm	0.0062 ppm	0.2044 ppm
Concentration per Run 3	0.0024 ppm	1.9212 ppm	0.0179 ppm	0.1433 ppm	2.6354 ppm	0.0035 ppm	0.2037 ppm
Concentration RSD	2,799.8 %	0.3 %	2.9 %	0.5 %	0.4 %	27.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6345 ppm	112.7435 %	114.6200 %	106.1878 %	**243.6350 %**	**259.7488 %**	**248.4935 %**
Concentration per Run 1	0.6405 ppm	113.0121 %	114.6412 %	106.0861 %	**244.8871 %**	**259.6355 %**	**247.6865 %**
Concentration per Run 2	0.6329 ppm	113.0319 %	114.5217 %	105.9379 %	**244.1560 %**	**259.7693 %**	**248.5930 %**
Concentration per Run 3	0.6300 ppm	112.1865 %	114.6970 %	106.5394 %	**241.8618 %**	**259.8416 %**	**249.2011 %**
Concentration RSD	0.9 %	0.4 %	0.1 %	0.3 %	**0.6 %**	**0.0 %**	**0.3 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-12d2 WG1974066
Analysis started at: 9/24/2024 4:19:42 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	107.4193 ppm	0.0246 ppm	0.0057 ppm	0.6228 ppm	0.0084 ppm	24.9055 ppm
Concentration per Run 1	0.0015 ppm	107.2052 ppm	0.0222 ppm	0.0053 ppm	0.6229 ppm	0.0084 ppm	24.9039 ppm
Concentration per Run 2	0.0016 ppm	107.4600 ppm	0.0240 ppm	0.0040 ppm	0.6203 ppm	0.0083 ppm	24.9014 ppm
Concentration per Run 3	0.0021 ppm	107.5927 ppm	0.0276 ppm	0.0078 ppm	0.6253 ppm	0.0085 ppm	24.9112 ppm
Concentration RSD	16.6 %	0.2 %	11.2 %	33.7 %	0.4 %	1.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0321 ppm	0.0900 ppm	0.0470 ppm	151.7550 ppm	3.9944 ppm	0.1208 ppm
Concentration per Run 1	0.0019 ppm	0.0325 ppm	0.0906 ppm	0.0472 ppm	151.7156 ppm	3.9761 ppm	0.1213 ppm
Concentration per Run 2	0.0019 ppm	0.0320 ppm	0.0894 ppm	0.0473 ppm	151.1203 ppm	3.9836 ppm	0.1214 ppm
Concentration per Run 3	0.0015 ppm	0.0319 ppm	0.0899 ppm	0.0466 ppm	152.4290 ppm	4.0235 ppm	0.1196 ppm
Concentration RSD	12.6 %	1.0 %	0.6 %	0.8 %	0.4 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.6769 ppm	1.4020 ppm	0.0047 ppm	0.6900 ppm	0.0535 ppm	0.0947 ppm	-0.0004 ppm
Concentration per Run 1	18.7327 ppm	1.3970 ppm	0.0051 ppm	0.6957 ppm	0.0544 ppm	0.0943 ppm	0.0004 ppm
Concentration per Run 2	18.7213 ppm	1.4015 ppm	0.0044 ppm	0.6882 ppm	0.0533 ppm	0.0955 ppm	-0.0013 ppm
Concentration per Run 3	18.5767 ppm	1.4074 ppm	0.0046 ppm	0.6861 ppm	0.0528 ppm	0.0943 ppm	-0.0004 ppm
Concentration RSD	0.5 %	0.4 %	7.9 %	0.7 %	1.6 %	0.7 %	194.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.7998 ppm	0.0148 ppm	0.0898 ppm	2.6259 ppm	0.0043 ppm	0.2048 ppm
Concentration per Run 1	0.0009 ppm	0.8122 ppm	0.0149 ppm	0.0901 ppm	2.6363 ppm	0.0034 ppm	0.2062 ppm
Concentration per Run 2	0.0008 ppm	0.7988 ppm	0.0146 ppm	0.0893 ppm	2.6253 ppm	0.0035 ppm	0.2048 ppm
Concentration per Run 3	-0.0013 ppm	0.7885 ppm	0.0148 ppm	0.0900 ppm	2.6162 ppm	0.0060 ppm	0.2033 ppm
Concentration RSD	1,034.1 %	1.5 %	1.3 %	0.5 %	0.4 %	34.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5644 ppm	111.0801 %	112.0158 %	104.8792 %	**185.5524 %**	**195.7139 %**	**188.3093 %**
Concentration per Run 1	0.5652 ppm	111.4522 %	111.8340 %	103.7140 %	**186.6226 %**	**195.4160 %**	**186.5673 %**
Concentration per Run 2	0.5642 ppm	109.8501 %	112.2871 %	105.8251 %	**183.4819 %**	**196.3784 %**	**189.3916 %**
Concentration per Run 3	0.5639 ppm	111.9381 %	111.9264 %	105.0984 %	**186.5527 %**	**195.3474 %**	**188.9691 %**
Concentration RSD	0.1 %	1.0 %	0.2 %	1.0 %	**1.0 %**	**0.3 %**	**0.8 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-13d2 WG1974066
Analysis started at: 9/24/2024 4:23:37 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	158.8303 ppm	0.0294 ppm	0.0084 ppm	0.7967 ppm	0.0119 ppm	22.2177 ppm
Concentration per Run 1	0.0032 ppm	158.8936 ppm	0.0293 ppm	0.0079 ppm	0.7949 ppm	0.0119 ppm	22.2010 ppm
Concentration per Run 2	0.0016 ppm	159.1498 ppm	0.0284 ppm	0.0091 ppm	0.7899 ppm	0.0119 ppm	22.2238 ppm
Concentration per Run 3	0.0019 ppm	158.4475 ppm	0.0306 ppm	0.0084 ppm	0.8053 ppm	0.0120 ppm	22.2284 ppm
Concentration RSD	39.3 %	0.2 %	3.8 %	7.0 %	1.0 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0562 ppm	0.1131 ppm	0.0993 ppm	298.9804 ppm	5.8881 ppm	0.1185 ppm
Concentration per Run 1	0.0026 ppm	0.0559 ppm	0.1127 ppm	0.0994 ppm	298.7891 ppm	5.9219 ppm	0.1193 ppm
Concentration per Run 2	0.0020 ppm	0.0560 ppm	0.1133 ppm	0.0990 ppm	298.4463 ppm	5.8356 ppm	0.1172 ppm
Concentration per Run 3	0.0021 ppm	0.0566 ppm	0.1132 ppm	0.0994 ppm	299.7057 ppm	5.9068 ppm	0.1191 ppm
Concentration RSD	13.7 %	0.7 %	0.3 %	0.2 %	0.2 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.8182 ppm	4.6332 ppm	0.0098 ppm	0.8864 ppm	0.0731 ppm	0.1340 ppm	-0.0082 ppm
Concentration per Run 1	22.7967 ppm	4.6239 ppm	0.0096 ppm	0.8827 ppm	0.0740 ppm	0.1328 ppm	-0.0089 ppm
Concentration per Run 2	22.7942 ppm	4.6373 ppm	0.0094 ppm	0.8840 ppm	0.0736 ppm	0.1338 ppm	-0.0093 ppm
Concentration per Run 3	22.8638 ppm	4.6386 ppm	0.0104 ppm	0.8924 ppm	0.0716 ppm	0.1355 ppm	-0.0064 ppm
Concentration RSD	0.2 %	0.2 %	5.8 %	0.6 %	1.8 %	1.0 %	18.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.5711 ppm	0.0225 ppm	0.0917 ppm	3.8898 ppm	0.0057 ppm	0.3288 ppm
Concentration per Run 1	-0.0001 ppm	0.5660 ppm	0.0218 ppm	0.0916 ppm	3.8895 ppm	0.0046 ppm	0.3275 ppm
Concentration per Run 2	-0.0016 ppm	0.5731 ppm	0.0222 ppm	0.0914 ppm	3.8901 ppm	0.0062 ppm	0.3306 ppm
Concentration per Run 3	-0.0006 ppm	0.5743 ppm	0.0235 ppm	0.0920 ppm	3.8897 ppm	0.0063 ppm	0.3285 ppm
Concentration RSD	92.9 %	0.8 %	3.9 %	0.4 %	0.0 %	16.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7578 ppm	109.6947 %	112.0747 %	102.5434 %	**169.0580 %**	**180.1324 %**	**172.4053 %**
Concentration per Run 1	0.7569 ppm	108.6475 %	111.2641 %	102.6007 %	**167.1069 %**	**179.3197 %**	**171.8457 %**
Concentration per Run 2	0.7609 ppm	110.3293 %	112.9542 %	102.6521 %	**170.6513 %**	**182.1058 %**	**172.2326 %**
Concentration per Run 3	0.7555 ppm	110.1074 %	112.0057 %	102.3774 %	**169.4158 %**	**178.9717 %**	**173.1375 %**
Concentration RSD	0.4 %	0.8 %	0.8 %	0.1 %	**1.1 %**	**1.0 %**	**0.4 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-14d2 WG1974066
Analysis started at: 9/24/2024 4:27:33 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	80.9108 ppm	0.0279 ppm	0.0181 ppm	0.5817 ppm	0.0083 ppm	102.7722 ppm
Concentration per Run 1	0.0012 ppm	80.2455 ppm	0.0264 ppm	0.0163 ppm	0.5801 ppm	0.0083 ppm	102.0905 ppm
Concentration per Run 2	0.0013 ppm	81.4140 ppm	0.0259 ppm	0.0197 ppm	0.5834 ppm	0.0083 ppm	103.3722 ppm
Concentration per Run 3	0.0003 ppm	81.0730 ppm	0.0314 ppm	0.0182 ppm	0.5815 ppm	0.0083 ppm	102.8541 ppm
Concentration RSD	57.6 %	0.7 %	10.8 %	9.5 %	0.3 %	0.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0469 ppm	0.0854 ppm	0.0885 ppm	205.1517 ppm	11.7243 ppm	0.0986 ppm
Concentration per Run 1	0.0008 ppm	0.0470 ppm	0.0854 ppm	0.0878 ppm	203.7534 ppm	11.6727 ppm	0.1003 ppm
Concentration per Run 2	0.0011 ppm	0.0469 ppm	0.0856 ppm	0.0898 ppm	205.7607 ppm	11.6896 ppm	0.0984 ppm
Concentration per Run 3	0.0007 ppm	0.0468 ppm	0.0851 ppm	0.0880 ppm	205.9409 ppm	11.8107 ppm	0.0971 ppm
Concentration RSD	25.2 %	0.3 %	0.3 %	1.2 %	0.6 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.3326 ppm	2.5859 ppm	0.0058 ppm	2.4305 ppm	0.0706 ppm	0.0632 ppm	-0.0026 ppm
Concentration per Run 1	34.4109 ppm	2.5721 ppm	0.0052 ppm	2.4171 ppm	0.0713 ppm	0.0622 ppm	-0.0016 ppm
Concentration per Run 2	34.3184 ppm	2.5945 ppm	0.0062 ppm	2.4353 ppm	0.0708 ppm	0.0633 ppm	-0.0063 ppm
Concentration per Run 3	34.2685 ppm	2.5913 ppm	0.0058 ppm	2.4391 ppm	0.0699 ppm	0.0640 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.5 %	8.8 %	0.5 %	1.0 %	1.4 %	131.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.8975 ppm	0.0142 ppm	0.2040 ppm	4.3297 ppm	0.0035 ppm	0.2169 ppm
Concentration per Run 1	-0.0042 ppm	0.9083 ppm	0.0135 ppm	0.2031 ppm	4.3249 ppm	0.0042 ppm	0.2166 ppm
Concentration per Run 2	0.0038 ppm	0.8941 ppm	0.0148 ppm	0.2041 ppm	4.3344 ppm	0.0025 ppm	0.2170 ppm
Concentration per Run 3	0.0017 ppm	0.8901 ppm	0.0143 ppm	0.2046 ppm	4.3297 ppm	0.0039 ppm	0.2170 ppm
Concentration RSD	962.3 %	1.1 %	4.6 %	0.4 %	0.1 %	26.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5728 ppm	108.3037 %	111.4538 %	102.2496 %	**198.7071 %**	**214.9927 %**	**202.8240 %**
Concentration per Run 1	0.5734 ppm	108.3481 %	111.8037 %	102.7901 %	**198.8023 %**	**214.6098 %**	**203.1780 %**
Concentration per Run 2	0.5721 ppm	108.1613 %	111.7399 %	101.9604 %	**199.0645 %**	**216.1878 %**	**202.9424 %**
Concentration per Run 3	0.5729 ppm	108.4017 %	110.8177 %	101.9984 %	**198.2544 %**	**214.1804 %**	**202.3514 %**
Concentration RSD	0.1 %	0.1 %	0.5 %	0.5 %	**0.2 %**	**0.5 %**	**0.2 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 4:31:29 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5105 ppm	0.4918 ppm	0.4850 ppm	0.4950 ppm	0.4915 ppm	0.5088 ppm	0.4913 ppm
Concentration per Run 1	0.5100 ppm	0.4888 ppm	0.4868 ppm	0.4893 ppm	0.4900 ppm	0.5063 ppm	0.4908 ppm
Concentration per Run 2	0.5107 ppm	0.5009 ppm	0.4873 ppm	0.4944 ppm	0.4954 ppm	0.5112 ppm	0.4922 ppm
Concentration per Run 3	0.5108 ppm	0.4858 ppm	0.4810 ppm	0.5014 ppm	0.4891 ppm	0.5089 ppm	0.4909 ppm
Recovery Percentage 1	102.098 %	98.362 %	97.008 %	99.009 %	98.295 %	101.761 %	98.257 %
Concentration RSD	0.1 %	1.6 %	0.7 %	1.2 %	0.7 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5029 ppm	0.5107 ppm	0.4859 ppm	0.4910 ppm	0.5124 ppm	5.1152 ppm	0.4885 ppm
Concentration per Run 1	0.4992 ppm	0.5075 ppm	0.4853 ppm	0.4880 ppm	0.5106 ppm	5.1146 ppm	0.4874 ppm
Concentration per Run 2	0.5029 ppm	0.5119 ppm	0.4851 ppm	0.4931 ppm	0.5156 ppm	5.0990 ppm	0.4879 ppm
Concentration per Run 3	0.5065 ppm	0.5126 ppm	0.4872 ppm	0.4919 ppm	0.5111 ppm	5.1321 ppm	0.4900 ppm
Recovery Percentage 1	100.576 %	102.131 %	97.174 %	98.195 %	102.485 %	102.304 %	97.691 %
Concentration RSD	0.7 %	0.5 %	0.2 %	0.5 %	0.5 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4874 ppm	0.4861 ppm	0.4913 ppm	9.9243 ppm	0.5031 ppm	0.4976 ppm	0.5007 ppm
Concentration per Run 1	0.4836 ppm	0.4836 ppm	0.4869 ppm	9.9053 ppm	0.5029 ppm	0.4943 ppm	0.4985 ppm
Concentration per Run 2	0.4890 ppm	0.4884 ppm	0.4916 ppm	10.0210 ppm	0.5031 ppm	0.4993 ppm	0.5061 ppm
Concentration per Run 3	0.4895 ppm	0.4861 ppm	0.4955 ppm	9.8466 ppm	0.5034 ppm	0.4994 ppm	0.4976 ppm
Recovery Percentage 1	97.480 %	97.212 %	98.263 %	99.243 %	100.621 %	99.530 %	100.145 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.9 %	0.0 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4958 ppm	5.3012 ppm	0.4768 ppm	0.4745 ppm	0.4984 ppm	0.5030 ppm	0.4813 ppm
Concentration per Run 1	0.4955 ppm	5.2620 ppm	0.4731 ppm	0.4720 ppm	0.4975 ppm	0.5025 ppm	0.4808 ppm
Concentration per Run 2	0.4979 ppm	5.3107 ppm	0.4759 ppm	0.4770 ppm	0.4977 ppm	0.5032 ppm	0.4826 ppm
Concentration per Run 3	0.4941 ppm	5.3309 ppm	0.4813 ppm	0.4744 ppm	0.4999 ppm	0.5032 ppm	0.4804 ppm
Recovery Percentage 1	99.170 %	100.975 %	95.356 %	94.893 %	99.674 %	100.599 %	96.250 %
Concentration RSD	0.4 %	0.7 %	0.9 %	0.5 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4988 ppm	105.0684 %	103.7488 %	102.5047 %	102.6873 %	103.8126 %	102.5069 %
Concentration per Run 1	0.4985 ppm	105.3014 %	104.1589 %	103.3602 %	102.8249 %	104.1193 %	103.2193 %
Concentration per Run 2	0.4981 ppm	105.1656 %	103.3140 %	101.7900 %	103.0433 %	103.7957 %	101.7643 %
Concentration per Run 3	0.4998 ppm	104.7382 %	103.7735 %	102.3640 %	102.1936 %	103.5227 %	102.5373 %
Recovery Percentage 1	99.760 %						
Concentration RSD	0.2 %	0.3 %	0.4 %	0.8 %	0.4 %	0.3 %	0.7 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 4:35:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0131 ppm	0.0026 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0008 ppm	0.0116 ppm	0.0027 ppm	0.0019 ppm	-0.0002 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 2	0.0005 ppm	0.0097 ppm	0.0033 ppm	0.0023 ppm	-0.0003 ppm	0.0001 ppm	-0.0055 ppm
Concentration per Run 3	0.0005 ppm	0.0181 ppm	0.0019 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	8.588 %	13.146 %	52.588 %	4.143 %	-2.309 %	0.873 %	-1.124 %
Concentration RSD	23.9 %	33.3 %	28.2 %	121.5 %	17.4 %	90.1 %	370.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0067 ppm	-0.0201 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm	0.0224 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0067 ppm	-0.0315 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0060 ppm	-0.0513 ppm	0.0008 ppm
Recovery Percentage 1	1.773 %	-1.133 %	-0.396 %	2.055 %	13.385 %	-0.806 %	23.149 %
Concentration RSD	84.0 %	36.9 %	713.1 %	96.4 %	9.8 %	189.5 %	78.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0013 ppm	0.0012 ppm	0.0003 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 1	-0.0031 ppm	-0.0002 ppm	0.0015 ppm	0.0075 ppm	0.0014 ppm	-0.0004 ppm	-0.0076 ppm
Concentration per Run 2	0.0007 ppm	-0.0001 ppm	0.0013 ppm	-0.0042 ppm	-0.0007 ppm	-0.0010 ppm	0.0014 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	-1.279 %	-0.394 %	2.694 %	0.061 %	1.246 %	-4.685 %	-3.750 %
Concentration RSD	152.0 %	402.9 %	11.9 %	479.0 %	334.8 %	111.9 %	263.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	-0.0011 ppm	-0.0017 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	-0.0005 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	-0.0018 ppm	0.0002 ppm	0.0006 ppm	0.0017 ppm	-0.0005 ppm
Concentration per Run 2	-0.0023 ppm	-0.0028 ppm	-0.0025 ppm	0.0001 ppm	0.0005 ppm	0.0014 ppm	-0.0008 ppm
Concentration per Run 3	-0.0017 ppm	-0.0009 ppm	-0.0010 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-16.809 %	-0.225 %	-3.480 %	0.949 %	6.412 %	6.037 %	-5.019 %
Concentration RSD	35.2 %	139.3 %	42.4 %	81.8 %	20.1 %	51.7 %	60.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	103.9007 %	102.5652 %	102.8153 %	103.3162 %	103.9121 %	103.4667 %
Concentration per Run 1	-0.0016 ppm	103.9112 %	103.1879 %	102.4279 %	103.1218 %	104.7385 %	102.9114 %
Concentration per Run 2	-0.0016 ppm	104.6584 %	102.6559 %	102.7166 %	104.1552 %	104.0514 %	103.4669 %
Concentration per Run 3	-0.0017 ppm	103.1324 %	101.8519 %	103.3013 %	102.6716 %	102.9464 %	104.0219 %
Recovery Percentage 1	-32.566 %						
Concentration RSD	5.2 %	0.7 %	0.7 %	0.4 %	0.7 %	0.9 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-1 WG1974891
Analysis started at: 9/24/2024 4:40:43 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.3377 ppm	**0.0030 ppm**	-0.0001 ppm	0.0019 ppm	0.0000 ppm	0.1063 ppm
Concentration per Run 1	-0.0003 ppm	0.3456 ppm	0.0000 ppm	-0.0021 ppm	0.0018 ppm	0.0000 ppm	0.1068 ppm
Concentration per Run 2	0.0008 ppm	0.3307 ppm	0.0038 ppm	0.0022 ppm	0.0020 ppm	0.0000 ppm	0.1072 ppm
Concentration per Run 3	0.0007 ppm	0.3367 ppm	0.0053 ppm	-0.0003 ppm	0.0019 ppm	0.0000 ppm	0.1048 ppm
Concentration RSD	150.4 %	2.2 %	**90.5 %**	2,711.4 %	6.2 %	1,121.7 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.4539 ppm	0.1189 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0008 ppm	0.4487 ppm	0.0982 ppm	0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.4505 ppm	0.1096 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0006 ppm	0.4623 ppm	0.1488 ppm	0.0012 ppm
Concentration RSD	91.0 %	145.6 %	280.2 %	8.4 %	1.6 %	22.3 %	18.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1396 ppm	0.0071 ppm	0.0004 ppm	0.0026 ppm	0.0004 ppm	0.0001 ppm	-0.0039 ppm
Concentration per Run 1	0.1434 ppm	0.0070 ppm	0.0007 ppm	-0.0043 ppm	0.0004 ppm	-0.0013 ppm	-0.0075 ppm
Concentration per Run 2	0.1452 ppm	0.0072 ppm	0.0006 ppm	0.0004 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.1302 ppm	0.0071 ppm	-0.0001 ppm	0.0117 ppm	0.0003 ppm	0.0007 ppm	-0.0045 ppm
Concentration RSD	5.9 %	1.5 %	119.1 %	318.1 %	27.1 %	1,198.4 %	98.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.2430 ppm	-0.0011 ppm	0.0005 ppm	0.0245 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	0.2527 ppm	-0.0003 ppm	0.0005 ppm	0.0256 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.2530 ppm	-0.0015 ppm	0.0006 ppm	0.0255 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0026 ppm	0.2234 ppm	-0.0016 ppm	0.0005 ppm	0.0224 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	608.8 %	7.0 %	64.9 %	15.7 %	7.2 %	362.4 %	91.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	108.0609 %	104.6281 %	101.3846 %	106.3226 %	104.9241 %	101.6198 %
Concentration per Run 1	0.0001 ppm	104.6806 %	105.2923 %	100.6220 %	102.9202 %	105.8868 %	102.1680 %
Concentration per Run 2	0.0001 ppm	104.1290 %	104.5933 %	100.2237 %	102.6167 %	104.6033 %	100.4359 %
Concentration per Run 3	0.0001 ppm	115.3731 %	103.9987 %	103.3079 %	113.4308 %	104.2822 %	102.2555 %
Concentration RSD	14.7 %	5.9 %	0.6 %	1.7 %	5.8 %	0.8 %	1.0 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-2d2 WG1974891
Analysis started at: 9/24/2024 4:44:53 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3289 ppm	18.1979 ppm	1.2187 ppm	0.9071 ppm	1.0422 ppm	0.6640 ppm	19.6678 ppm
Concentration per Run 1	0.3288 ppm	18.2614 ppm	1.2219 ppm	0.9027 ppm	1.0415 ppm	0.6611 ppm	19.7347 ppm
Concentration per Run 2	0.3286 ppm	18.1649 ppm	1.2182 ppm	0.9035 ppm	1.0419 ppm	0.6644 ppm	19.6603 ppm
Concentration per Run 3	0.3294 ppm	18.1674 ppm	1.2161 ppm	0.9151 ppm	1.0432 ppm	0.6666 ppm	19.6084 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.8 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8283 ppm	0.3258 ppm	0.7047 ppm	0.8152 ppm	23.3977 ppm	4.1989 ppm	0.5060 ppm
Concentration per Run 1	0.8308 ppm	0.3256 ppm	0.7035 ppm	0.8122 ppm	23.2775 ppm	4.1491 ppm	0.5090 ppm
Concentration per Run 2	0.8237 ppm	0.3236 ppm	0.7039 ppm	0.8160 ppm	23.4023 ppm	4.2098 ppm	0.5039 ppm
Concentration per Run 3	0.8303 ppm	0.3280 ppm	0.7068 ppm	0.8175 ppm	23.5132 ppm	4.2378 ppm	0.5050 ppm
Concentration RSD	0.5 %	0.7 %	0.3 %	0.3 %	0.5 %	1.1 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7985 ppm	2.0651 ppm	0.5492 ppm	6.6934 ppm	1.2477 ppm	0.3689 ppm	0.8522 ppm
Concentration per Run 1	5.7982 ppm	2.0600 ppm	0.5438 ppm	6.7408 ppm	1.2428 ppm	0.3700 ppm	0.8503 ppm
Concentration per Run 2	5.8006 ppm	2.0614 ppm	0.5492 ppm	6.6661 ppm	1.2480 ppm	0.3666 ppm	0.8509 ppm
Concentration per Run 3	5.7967 ppm	2.0739 ppm	0.5547 ppm	6.6732 ppm	1.2525 ppm	0.3701 ppm	0.8555 ppm
Concentration RSD	0.0 %	0.4 %	1.0 %	0.6 %	0.4 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6541 ppm	0.9891 ppm	0.2917 ppm	0.4903 ppm	1.0577 ppm	0.8165 ppm	0.3976 ppm
Concentration per Run 1	0.6512 ppm	0.9946 ppm	0.2911 ppm	0.4902 ppm	1.0570 ppm	0.8179 ppm	0.3981 ppm
Concentration per Run 2	0.6538 ppm	0.9874 ppm	0.2893 ppm	0.4899 ppm	1.0563 ppm	0.8125 ppm	0.3971 ppm
Concentration per Run 3	0.6574 ppm	0.9854 ppm	0.2946 ppm	0.4908 ppm	1.0598 ppm	0.8191 ppm	0.3975 ppm
Concentration RSD	0.5 %	0.5 %	0.9 %	0.1 %	0.2 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6484 ppm	106.0947 %	106.1951 %	102.5321 %	109.3377 %	112.5432 %	109.3443 %
Concentration per Run 1	0.6462 ppm	106.3296 %	106.5214 %	102.9601 %	109.4156 %	113.3193 %	109.6610 %
Concentration per Run 2	0.6471 ppm	106.3941 %	105.3870 %	102.3467 %	109.6566 %	111.2118 %	108.9844 %
Concentration per Run 3	0.6519 ppm	105.5604 %	106.6768 %	102.2894 %	108.9408 %	113.0986 %	109.3876 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.4 %	0.3 %	1.0 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-3d2 WG1974891
Analysis started at: 9/24/2024 4:48:48 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3183 ppm	17.0888 ppm	1.1765 ppm	0.8804 ppm	1.0988 ppm	0.6440 ppm	18.8113 ppm
Concentration per Run 1	0.3189 ppm	17.0856 ppm	1.1723 ppm	0.8830 ppm	1.1041 ppm	0.6470 ppm	18.8598 ppm
Concentration per Run 2	0.3190 ppm	17.1197 ppm	1.1749 ppm	0.8758 ppm	1.0977 ppm	0.6430 ppm	18.8448 ppm
Concentration per Run 3	0.3171 ppm	17.0610 ppm	1.1825 ppm	0.8825 ppm	1.0945 ppm	0.6419 ppm	18.7291 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.5 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8232 ppm	0.3151 ppm	0.6764 ppm	0.7803 ppm	22.1083 ppm	3.9938 ppm	0.4851 ppm
Concentration per Run 1	0.8241 ppm	0.3148 ppm	0.6804 ppm	0.7772 ppm	22.1914 ppm	4.0007 ppm	0.4888 ppm
Concentration per Run 2	0.8291 ppm	0.3178 ppm	0.6749 ppm	0.7796 ppm	22.0897 ppm	4.0157 ppm	0.4833 ppm
Concentration per Run 3	0.8164 ppm	0.3127 ppm	0.6740 ppm	0.7839 ppm	22.0437 ppm	3.9648 ppm	0.4831 ppm
Concentration RSD	0.8 %	0.8 %	0.5 %	0.4 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5366 ppm	2.0211 ppm	0.5336 ppm	6.6175 ppm	1.2000 ppm	0.3613 ppm	0.8354 ppm
Concentration per Run 1	5.5423 ppm	2.0229 ppm	0.5319 ppm	6.6229 ppm	1.2105 ppm	0.3590 ppm	0.8287 ppm
Concentration per Run 2	5.5417 ppm	2.0206 ppm	0.5341 ppm	6.6426 ppm	1.1954 ppm	0.3608 ppm	0.8424 ppm
Concentration per Run 3	5.5257 ppm	2.0197 ppm	0.5348 ppm	6.5870 ppm	1.1942 ppm	0.3641 ppm	0.8349 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.4 %	0.8 %	0.7 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6334 ppm	1.2568 ppm	0.2837 ppm	0.4908 ppm	1.0424 ppm	0.8137 ppm	0.3824 ppm
Concentration per Run 1	0.6288 ppm	1.2629 ppm	0.2843 ppm	0.4926 ppm	1.0444 ppm	0.8095 ppm	0.3818 ppm
Concentration per Run 2	0.6344 ppm	1.2640 ppm	0.2831 ppm	0.4909 ppm	1.0435 ppm	0.8178 ppm	0.3823 ppm
Concentration per Run 3	0.6371 ppm	1.2435 ppm	0.2838 ppm	0.4890 ppm	1.0393 ppm	0.8139 ppm	0.3832 ppm
Concentration RSD	0.7 %	0.9 %	0.2 %	0.4 %	0.3 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6254 ppm	105.9932 %	106.9319 %	101.9815 %	108.9858 %	113.3509 %	108.8403 %
Concentration per Run 1	0.6296 ppm	105.3052 %	106.5111 %	102.1442 %	108.1413 %	112.8412 %	109.0061 %
Concentration per Run 2	0.6253 ppm	106.2472 %	107.4201 %	102.4413 %	109.2254 %	114.2423 %	109.3853 %
Concentration per Run 3	0.6213 ppm	106.4271 %	106.8646 %	101.3588 %	109.5908 %	112.9692 %	108.1294 %
Concentration RSD	0.7 %	0.6 %	0.4 %	0.5 %	0.7 %	0.7 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-01d2 WG1974891
Analysis started at: 9/24/2024 4:52:44 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	95.2653 ppm	0.7610 ppm	0.0017 ppm	0.4737 ppm	0.0072 ppm	22.7177 ppm
Concentration per Run 1	0.0015 ppm	94.9029 ppm	0.7573 ppm	0.0015 ppm	0.4734 ppm	0.0072 ppm	22.5931 ppm
Concentration per Run 2	0.0007 ppm	95.1591 ppm	0.7626 ppm	0.0017 ppm	0.4762 ppm	0.0073 ppm	22.7585 ppm
Concentration per Run 3	0.0012 ppm	95.7339 ppm	0.7631 ppm	0.0019 ppm	0.4715 ppm	0.0072 ppm	22.8016 ppm
Concentration RSD	36.7 %	0.4 %	0.4 %	12.3 %	0.5 %	0.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0637 ppm	0.1990 ppm	0.1363 ppm	154.2257 ppm	28.6771 ppm	0.2018 ppm
Concentration per Run 1	0.0006 ppm	0.0639 ppm	0.1979 ppm	0.1369 ppm	153.8631 ppm	28.6422 ppm	0.2015 ppm
Concentration per Run 2	0.0007 ppm	0.0636 ppm	0.1988 ppm	0.1359 ppm	154.6504 ppm	28.8178 ppm	0.2031 ppm
Concentration per Run 3	0.0008 ppm	0.0636 ppm	0.2002 ppm	0.1363 ppm	154.1637 ppm	28.5714 ppm	0.2008 ppm
Concentration RSD	11.0 %	0.3 %	0.6 %	0.4 %	0.3 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.8705 ppm	3.2767 ppm	0.0051 ppm	1.1381 ppm	0.1467 ppm	0.0793 ppm	0.0064 ppm
Concentration per Run 1	37.7619 ppm	3.2740 ppm	0.0050 ppm	1.1332 ppm	0.1462 ppm	0.0796 ppm	0.0033 ppm
Concentration per Run 2	37.9199 ppm	3.2720 ppm	0.0046 ppm	1.1436 ppm	0.1462 ppm	0.0787 ppm	0.0082 ppm
Concentration per Run 3	37.9296 ppm	3.2840 ppm	0.0058 ppm	1.1375 ppm	0.1478 ppm	0.0797 ppm	0.0077 ppm
Concentration RSD	0.2 %	0.2 %	11.4 %	0.5 %	0.7 %	0.7 %	42.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.8741 ppm	0.0091 ppm	0.1097 ppm	5.5490 ppm	0.0061 ppm	0.2253 ppm
Concentration per Run 1	0.0017 ppm	0.8684 ppm	0.0096 ppm	0.1094 ppm	5.5288 ppm	0.0068 ppm	0.2251 ppm
Concentration per Run 2	0.0032 ppm	0.8724 ppm	0.0097 ppm	0.1103 ppm	5.5496 ppm	0.0058 ppm	0.2247 ppm
Concentration per Run 3	-0.0026 ppm	0.8816 ppm	0.0080 ppm	0.1094 ppm	5.5686 ppm	0.0057 ppm	0.2259 ppm
Concentration RSD	395.4 %	0.8 %	10.7 %	0.5 %	0.4 %	9.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3646 ppm	109.0202 %	111.7514 %	104.9705 %	124.2289 %	131.7909 %	126.2695 %
Concentration per Run 1	0.3643 ppm	109.0374 %	111.8980 %	105.5702 %	124.6587 %	131.4587 %	126.9265 %
Concentration per Run 2	0.3631 ppm	108.7325 %	111.3345 %	105.0807 %	123.7666 %	131.3555 %	126.3455 %
Concentration per Run 3	0.3665 ppm	109.2907 %	112.0219 %	104.2606 %	124.2616 %	132.5587 %	125.5366 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-02d2 WG1974891
Analysis started at: 9/24/2024 4:56:39 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	62.4022 ppm	0.7605 ppm	0.0015 ppm	0.3260 ppm	0.0064 ppm	29.8901 ppm
Concentration per Run 1	0.0004 ppm	62.0571 ppm	0.7582 ppm	0.0014 ppm	0.3240 ppm	0.0064 ppm	29.7789 ppm
Concentration per Run 2	0.0013 ppm	62.5145 ppm	0.7601 ppm	0.0024 ppm	0.3262 ppm	0.0064 ppm	29.9263 ppm
Concentration per Run 3	0.0007 ppm	62.6350 ppm	0.7631 ppm	0.0006 ppm	0.3278 ppm	0.0064 ppm	29.9650 ppm
Concentration RSD	58.1 %	0.5 %	0.3 %	59.8 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0474 ppm	0.1408 ppm	0.0932 ppm	122.3132 ppm	18.9901 ppm	0.1219 ppm
Concentration per Run 1	0.0005 ppm	0.0474 ppm	0.1397 ppm	0.0931 ppm	121.4797 ppm	19.0309 ppm	0.1214 ppm
Concentration per Run 2	0.0008 ppm	0.0470 ppm	0.1423 ppm	0.0932 ppm	122.1183 ppm	18.9599 ppm	0.1217 ppm
Concentration per Run 3	0.0004 ppm	0.0480 ppm	0.1404 ppm	0.0932 ppm	123.3416 ppm	18.9796 ppm	0.1228 ppm
Concentration RSD	33.0 %	1.1 %	0.9 %	0.1 %	0.8 %	0.2 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.0840 ppm	3.3934 ppm	0.0042 ppm	0.8901 ppm	0.0968 ppm	0.0723 ppm	0.0003 ppm
Concentration per Run 1	25.9955 ppm	3.3899 ppm	0.0043 ppm	0.8874 ppm	0.0958 ppm	0.0727 ppm	-0.0032 ppm
Concentration per Run 2	26.1727 ppm	3.3855 ppm	0.0039 ppm	0.8893 ppm	0.0979 ppm	0.0717 ppm	0.0017 ppm
Concentration per Run 3	26.0838 ppm	3.4049 ppm	0.0042 ppm	0.8937 ppm	0.0968 ppm	0.0726 ppm	0.0024 ppm
Concentration RSD	0.3 %	0.3 %	4.9 %	0.4 %	1.1 %	0.8 %	1,033.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.8197 ppm	0.0051 ppm	0.1150 ppm	3.7353 ppm	0.0037 ppm	0.1512 ppm
Concentration per Run 1	-0.0010 ppm	0.8025 ppm	0.0046 ppm	0.1144 ppm	3.7161 ppm	0.0036 ppm	0.1514 ppm
Concentration per Run 2	-0.0007 ppm	0.8204 ppm	0.0054 ppm	0.1148 ppm	3.7603 ppm	0.0042 ppm	0.1511 ppm
Concentration per Run 3	0.0030 ppm	0.8362 ppm	0.0053 ppm	0.1156 ppm	3.7295 ppm	0.0033 ppm	0.1511 ppm
Concentration RSD	557.4 %	2.1 %	8.4 %	0.5 %	0.6 %	13.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2787 ppm	106.9677 %	108.0550 %	102.8580 %	123.6140 %	129.1093 %	125.2215 %
Concentration per Run 1	0.2775 ppm	107.1610 %	108.6361 %	103.6059 %	123.9555 %	129.6983 %	126.0650 %
Concentration per Run 2	0.2807 ppm	106.2018 %	107.5449 %	102.4822 %	122.6633 %	128.5471 %	124.5887 %
Concentration per Run 3	0.2780 ppm	107.5405 %	107.9839 %	102.4861 %	124.2232 %	129.0825 %	125.0107 %
Concentration RSD	0.6 %	0.6 %	0.5 %	0.6 %	0.7 %	0.4 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-03d2 WG1974891
Analysis started at: 9/24/2024 5:00:34 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	84.2041 ppm	0.2964 ppm	0.0014 ppm	0.4320 ppm	0.0061 ppm	22.2669 ppm
Concentration per Run 1	0.0014 ppm	84.1325 ppm	0.2980 ppm	0.0026 ppm	0.4295 ppm	0.0060 ppm	22.2065 ppm
Concentration per Run 2	0.0011 ppm	84.4311 ppm	0.2935 ppm	0.0022 ppm	0.4345 ppm	0.0062 ppm	22.3531 ppm
Concentration per Run 3	0.0001 ppm	84.0486 ppm	0.2975 ppm	-0.0006 ppm	0.4321 ppm	0.0061 ppm	22.2411 ppm
Concentration RSD	76.8 %	0.2 %	0.8 %	125.6 %	0.6 %	1.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0587 ppm	0.1752 ppm	0.1331 ppm	144.3959 ppm	27.2419 ppm	0.1714 ppm
Concentration per Run 1	0.0006 ppm	0.0587 ppm	0.1764 ppm	0.1330 ppm	143.7294 ppm	27.1532 ppm	0.1720 ppm
Concentration per Run 2	0.0006 ppm	0.0584 ppm	0.1755 ppm	0.1333 ppm	145.0450 ppm	27.2616 ppm	0.1724 ppm
Concentration per Run 3	0.0006 ppm	0.0588 ppm	0.1738 ppm	0.1329 ppm	144.4135 ppm	27.3111 ppm	0.1698 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %	0.2 %	0.5 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.4540 ppm	3.1053 ppm	0.0035 ppm	1.0505 ppm	0.1389 ppm	0.0652 ppm	-0.0013 ppm
Concentration per Run 1	34.5193 ppm	3.1020 ppm	0.0036 ppm	1.0432 ppm	0.1404 ppm	0.0649 ppm	-0.0041 ppm
Concentration per Run 2	34.4886 ppm	3.1028 ppm	0.0035 ppm	1.0632 ppm	0.1377 ppm	0.0658 ppm	0.0004 ppm
Concentration per Run 3	34.3540 ppm	3.1110 ppm	0.0035 ppm	1.0451 ppm	0.1384 ppm	0.0650 ppm	-0.0001 ppm
Concentration RSD	0.3 %	0.2 %	1.3 %	1.1 %	1.0 %	0.8 %	196.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	0.4797 ppm	0.0057 ppm	0.1006 ppm	4.7888 ppm	0.0052 ppm	0.2127 ppm
Concentration per Run 1	-0.0038 ppm	0.4783 ppm	0.0057 ppm	0.1003 ppm	4.8038 ppm	0.0052 ppm	0.2133 ppm
Concentration per Run 2	-0.0032 ppm	0.4813 ppm	0.0052 ppm	0.1011 ppm	4.7976 ppm	0.0056 ppm	0.2128 ppm
Concentration per Run 3	-0.0004 ppm	0.4795 ppm	0.0064 ppm	0.1004 ppm	4.7651 ppm	0.0050 ppm	0.2121 ppm
Concentration RSD	73.3 %	0.3 %	10.2 %	0.4 %	0.4 %	6.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3311 ppm	108.5009 %	110.4316 %	103.9844 %	122.7181 %	128.9608 %	123.9972 %
Concentration per Run 1	0.3327 ppm	107.4309 %	111.2797 %	103.9686 %	121.3072 %	130.0860 %	124.1794 %
Concentration per Run 2	0.3314 ppm	109.1208 %	109.8144 %	104.8436 %	123.3499 %	128.5686 %	124.6946 %
Concentration per Run 3	0.3293 ppm	108.9510 %	110.2008 %	103.1410 %	123.4972 %	128.2279 %	123.1177 %
Concentration RSD	0.5 %	0.9 %	0.7 %	0.8 %	1.0 %	0.8 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-04d2 WG1974891
Analysis started at: 9/24/2024 5:04:30 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	34.1225 ppm	0.0383 ppm	0.0007 ppm	0.1320 ppm	0.0018 ppm	5.0094 ppm
Concentration per Run 1	0.0008 ppm	34.1695 ppm	0.0372 ppm	0.0036 ppm	0.1327 ppm	0.0017 ppm	5.0202 ppm
Concentration per Run 2	0.0010 ppm	34.3481 ppm	0.0398 ppm	-0.0012 ppm	0.1317 ppm	0.0018 ppm	5.0142 ppm
Concentration per Run 3	0.0003 ppm	33.8499 ppm	0.0379 ppm	-0.0003 ppm	0.1315 ppm	0.0018 ppm	4.9937 ppm
Concentration RSD	49.3 %	0.7 %	3.5 %	359.3 %	0.5 %	3.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0125 ppm	0.0657 ppm	0.0550 ppm	61.0560 ppm	6.7279 ppm	0.0689 ppm
Concentration per Run 1	0.0002 ppm	0.0128 ppm	0.0654 ppm	0.0545 ppm	60.9738 ppm	6.7581 ppm	0.0713 ppm
Concentration per Run 2	0.0002 ppm	0.0120 ppm	0.0656 ppm	0.0556 ppm	61.3690 ppm	6.7419 ppm	0.0672 ppm
Concentration per Run 3	0.0002 ppm	0.0128 ppm	0.0660 ppm	0.0550 ppm	60.8251 ppm	6.6836 ppm	0.0681 ppm
Concentration RSD	16.6 %	3.6 %	0.5 %	1.0 %	0.5 %	0.6 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.7759 ppm	0.5711 ppm	0.0035 ppm	0.3724 ppm	0.0378 ppm	0.0214 ppm	0.0005 ppm
Concentration per Run 1	12.6762 ppm	0.5727 ppm	0.0030 ppm	0.3704 ppm	0.0370 ppm	0.0209 ppm	0.0016 ppm
Concentration per Run 2	12.8020 ppm	0.5709 ppm	0.0035 ppm	0.3708 ppm	0.0383 ppm	0.0224 ppm	-0.0011 ppm
Concentration per Run 3	12.8496 ppm	0.5698 ppm	0.0040 ppm	0.3760 ppm	0.0381 ppm	0.0209 ppm	0.0011 ppm
Concentration RSD	0.7 %	0.3 %	13.8 %	0.8 %	1.8 %	4.1 %	271.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.6460 ppm	0.0005 ppm	0.0319 ppm	1.8604 ppm	0.0022 ppm	0.0833 ppm
Concentration per Run 1	-0.0031 ppm	0.6337 ppm	0.0007 ppm	0.0321 ppm	1.8307 ppm	0.0015 ppm	0.0835 ppm
Concentration per Run 2	-0.0002 ppm	0.6602 ppm	0.0002 ppm	0.0318 ppm	1.8705 ppm	0.0025 ppm	0.0834 ppm
Concentration per Run 3	0.0024 ppm	0.6439 ppm	0.0007 ppm	0.0318 ppm	1.8800 ppm	0.0025 ppm	0.0831 ppm
Concentration RSD	943.8 %	2.1 %	58.7 %	0.4 %	1.4 %	24.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0925 ppm	106.9438 %	105.1637 %	103.2690 %	111.1054 %	112.2843 %	111.5777 %
Concentration per Run 1	0.0911 ppm	108.9706 %	104.2711 %	102.2645 %	113.1525 %	111.7052 %	110.7009 %
Concentration per Run 2	0.0925 ppm	106.2077 %	105.6406 %	103.4388 %	110.2295 %	112.9498 %	111.6334 %
Concentration per Run 3	0.0939 ppm	105.6532 %	105.5794 %	104.1038 %	109.9340 %	112.1979 %	112.3988 %
Concentration RSD	1.5 %	1.7 %	0.7 %	0.9 %	1.6 %	0.6 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453208-01d2 WG1974891
Analysis started at: 9/24/2024 5:08:25 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0027 ppm	74.9352 ppm	0.2831 ppm	0.0090 ppm	1.0777 ppm	0.0048 ppm	41.1021 ppm
Concentration per Run 1	0.0022 ppm	74.9950 ppm	0.2860 ppm	0.0083 ppm	1.0841 ppm	0.0048 ppm	40.9597 ppm
Concentration per Run 2	0.0037 ppm	74.6564 ppm	0.2841 ppm	0.0076 ppm	1.0713 ppm	0.0047 ppm	40.9082 ppm
Concentration per Run 3	0.0023 ppm	75.1544 ppm	0.2791 ppm	0.0112 ppm	1.0775 ppm	0.0048 ppm	41.4384 ppm
Concentration RSD	31.1 %	0.3 %	1.3 %	20.8 %	0.6 %	1.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0593 ppm	0.1318 ppm	0.9601 ppm	145.7037 ppm	6.9149 ppm	0.1041 ppm
Concentration per Run 1	0.0017 ppm	0.0598 ppm	0.1321 ppm	0.9551 ppm	146.3114 ppm	6.9479 ppm	0.1062 ppm
Concentration per Run 2	0.0014 ppm	0.0594 ppm	0.1316 ppm	0.9598 ppm	144.9864 ppm	6.8924 ppm	0.1034 ppm
Concentration per Run 3	0.0018 ppm	0.0587 ppm	0.1317 ppm	0.9655 ppm	145.8134 ppm	6.9045 ppm	0.1028 ppm
Concentration RSD	10.7 %	0.9 %	0.2 %	0.5 %	0.5 %	0.4 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.8037 ppm	3.2024 ppm	0.0106 ppm	3.2089 ppm	0.0998 ppm	3.6291 ppm	0.0085 ppm
Concentration per Run 1	25.8838 ppm	3.2086 ppm	0.0108 ppm	3.2063 ppm	0.1009 ppm	3.6342 ppm	0.0091 ppm
Concentration per Run 2	25.7494 ppm	3.1842 ppm	0.0107 ppm	3.2093 ppm	0.0999 ppm	3.6147 ppm	0.0084 ppm
Concentration per Run 3	25.7779 ppm	3.2142 ppm	0.0102 ppm	3.2112 ppm	0.0985 ppm	3.6384 ppm	0.0078 ppm
Concentration RSD	0.3 %	0.5 %	3.2 %	0.1 %	1.2 %	0.3 %	7.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	1.0519 ppm	0.3014 ppm	0.3831 ppm	3.1040 ppm	0.0033 ppm	0.2154 ppm
Concentration per Run 1	0.0041 ppm	1.0423 ppm	0.3017 ppm	0.3840 ppm	3.1132 ppm	0.0044 ppm	0.2153 ppm
Concentration per Run 2	0.0071 ppm	1.0683 ppm	0.2991 ppm	0.3809 ppm	3.0965 ppm	0.0016 ppm	0.2153 ppm
Concentration per Run 3	0.0022 ppm	1.0450 ppm	0.3033 ppm	0.3844 ppm	3.1022 ppm	0.0039 ppm	0.2155 ppm
Concentration RSD	55.2 %	1.4 %	0.7 %	0.5 %	0.3 %	44.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9751 ppm	105.7815 %	107.8496 %	101.0447 %	122.6594 %	129.1691 %	124.3345 %
Concentration per Run 1	0.9829 ppm	105.0666 %	106.6567 %	101.1701 %	121.6337 %	127.7163 %	124.8862 %
Concentration per Run 2	0.9704 ppm	105.4842 %	108.9075 %	101.3344 %	122.2543 %	130.3214 %	124.4932 %
Concentration per Run 3	0.9721 ppm	106.7937 %	107.9845 %	100.6296 %	124.0902 %	129.4696 %	123.6239 %
Concentration RSD	0.7 %	0.9 %	1.0 %	0.4 %	1.0 %	1.0 %	0.5 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453314-01d2 WG1974891
Analysis started at: 9/24/2024 5:12:22 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0196 ppm	80.2595 ppm	0.2701 ppm	0.1519 ppm	5.1160 ppm	0.0062 ppm	64.0197 ppm
Concentration per Run 1	0.0191 ppm	80.0335 ppm	0.2762 ppm	0.1524 ppm	5.1153 ppm	0.0062 ppm	64.1056 ppm
Concentration per Run 2	0.0201 ppm	80.1309 ppm	0.2706 ppm	0.1527 ppm	5.1183 ppm	0.0062 ppm	63.9955 ppm
Concentration per Run 3	0.0195 ppm	80.6141 ppm	0.2636 ppm	0.1507 ppm	5.1144 ppm	0.0062 ppm	63.9579 ppm
Concentration RSD	2.5 %	0.4 %	2.3 %	0.7 %	0.0 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0775 ppm	0.1103 ppm	0.7896 ppm	6.2111 ppm	516.3821 [SIC 600]	8.2502 ppm	0.1180 ppm
Concentration per Run 1	0.0773 ppm	0.1104 ppm	0.7862 ppm	6.2191 ppm	517.2194 ppm	8.2469 ppm	0.1177 ppm
Concentration per Run 2	0.0778 ppm	0.1103 ppm	0.7951 ppm	6.2119 ppm	516.8555 ppm	8.2731 ppm	0.1195 ppm
Concentration per Run 3	0.0774 ppm	0.1103 ppm	0.7876 ppm	6.2022 ppm	515.0712 ppm	8.2304 ppm	0.1168 ppm
Concentration RSD	0.3 %	0.1 %	0.6 %	0.1 %	0.2 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.6146 ppm	5.0277 ppm	0.1617 ppm	2.8589 ppm	0.4464 ppm	18.3493 ppm	0.1119 ppm
Concentration per Run 1	13.6074 ppm	5.0348 ppm	0.1596 ppm	2.8696 ppm	0.4433 ppm	18.4318 ppm	0.1058 ppm
Concentration per Run 2	13.6295 ppm	5.0426 ppm	0.1633 ppm	2.8623 ppm	0.4503 ppm	18.3669 ppm	0.1170 ppm
Concentration per Run 3	13.6069 ppm	5.0057 ppm	0.1623 ppm	2.8447 ppm	0.4454 ppm	18.2492 ppm	0.1129 ppm
Concentration RSD	0.1 %	0.4 %	1.2 %	0.4 %	0.8 %	0.5 %	5.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0131 ppm	2.9631 ppm	1.3330 ppm	0.8033 ppm	1.9916 ppm	0.0064 ppm	0.2353 ppm
Concentration per Run 1	0.0145 ppm	2.9777 ppm	1.3247 ppm	0.8043 ppm	1.9892 ppm	0.0059 ppm	0.2364 ppm
Concentration per Run 2	0.0099 ppm	2.9664 ppm	1.3407 ppm	0.8014 ppm	1.9964 ppm	0.0060 ppm	0.2353 ppm
Concentration per Run 3	0.0148 ppm	2.9451 ppm	1.3337 ppm	0.8043 ppm	1.9892 ppm	0.0074 ppm	0.2342 ppm
Concentration RSD	20.9 %	0.6 %	0.6 %	0.2 %	0.2 %	12.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.8079 ppm	106.7057 %	110.5113 %	94.6883 %	116.8515 %	125.7933 %	117.2952 %
Concentration per Run 1	18.7856 ppm	107.0932 %	110.2249 %	94.2185 %	117.3889 %	125.5662 %	116.7542 %
Concentration per Run 2	18.9319 ppm	105.2086 %	109.9904 %	94.5679 %	115.3073 %	124.9413 %	117.5640 %
Concentration per Run 3	18.7062 ppm	107.8152 %	111.3186 %	95.2786 %	117.8583 %	126.8725 %	117.5675 %
Concentration RSD	0.6 %	1.3 %	0.6 %	0.6 %	1.2 %	0.8 %	0.4 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453398-01d2 WG1974891
Analysis started at: 9/24/2024 5:16:19 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	156.9888 ppm	0.0857 ppm	0.0423 ppm	0.5558 ppm	0.0066 ppm	34.0105 ppm
Concentration per Run 1	0.0018 ppm	156.8160 ppm	0.0883 ppm	0.0410 ppm	0.5515 ppm	0.0066 ppm	33.9529 ppm
Concentration per Run 2	0.0021 ppm	157.2287 ppm	0.0853 ppm	0.0420 ppm	0.5586 ppm	0.0067 ppm	34.0938 ppm
Concentration per Run 3	0.0022 ppm	156.9219 ppm	0.0835 ppm	0.0440 ppm	0.5573 ppm	0.0065 ppm	33.9847 ppm
Concentration RSD	12.0 %	0.1 %	2.8 %	3.6 %	0.7 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1084 ppm	0.3257 ppm	0.2196 ppm	257.7211 ppm	46.1560 ppm	0.3337 ppm
Concentration per Run 1	0.0006 ppm	0.1078 ppm	0.3255 ppm	0.2201 ppm	256.6292 ppm	45.7478 ppm	0.3298 ppm
Concentration per Run 2	0.0009 ppm	0.1090 ppm	0.3250 ppm	0.2187 ppm	259.4073 ppm	46.4964 ppm	0.3341 ppm
Concentration per Run 3	0.0012 ppm	0.1084 ppm	0.3267 ppm	0.2198 ppm	257.1268 ppm	46.2238 ppm	0.3374 ppm
Concentration RSD	31.0 %	0.5 %	0.3 %	0.3 %	0.6 %	0.8 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	78.9273 ppm	4.1367 ppm	0.0039 ppm	7.5877 ppm	0.2358 ppm	0.1284 ppm	-0.0066 ppm
Concentration per Run 1	79.0293 ppm	4.1269 ppm	0.0042 ppm	7.5916 ppm	0.2362 ppm	0.1286 ppm	-0.0062 ppm
Concentration per Run 2	78.8628 ppm	4.1635 ppm	0.0035 ppm	7.5802 ppm	0.2351 ppm	0.1290 ppm	-0.0090 ppm
Concentration per Run 3	78.8899 ppm	4.1197 ppm	0.0041 ppm	7.5912 ppm	0.2362 ppm	0.1276 ppm	-0.0045 ppm
Concentration RSD	0.1 %	0.6 %	9.8 %	0.1 %	0.3 %	0.6 %	34.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0040 ppm	0.9720 ppm	0.0167 ppm	0.1911 ppm	8.8993 ppm	0.0087 ppm	0.4133 ppm
Concentration per Run 1	-0.0071 ppm	0.9734 ppm	0.0179 ppm	0.1901 ppm	8.8863 ppm	0.0105 ppm	0.4130 ppm
Concentration per Run 2	-0.0009 ppm	0.9687 ppm	0.0164 ppm	0.1919 ppm	8.9233 ppm	0.0091 ppm	0.4128 ppm
Concentration per Run 3	-0.0042 ppm	0.9740 ppm	0.0160 ppm	0.1913 ppm	8.8882 ppm	0.0065 ppm	0.4142 ppm
Concentration RSD	76.8 %	0.3 %	6.0 %	0.5 %	0.2 %	23.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6128 ppm	109.4579 %	112.0417 %	103.9016 %	127.1038 %	134.5202 %	128.6847 %
Concentration per Run 1	0.6108 ppm	110.6680 %	113.2064 %	103.7788 %	128.5762 %	136.5764 %	128.4378 %
Concentration per Run 2	0.6123 ppm	109.4055 %	110.0689 %	103.1560 %	127.4899 %	131.8090 %	127.8520 %
Concentration per Run 3	0.6153 ppm	108.3000 %	112.8496 %	104.7700 %	125.2453 %	135.1752 %	129.7643 %
Concentration RSD	0.4 %	1.1 %	1.5 %	0.8 %	1.3 %	1.8 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:20:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5012 ppm	0.4778 ppm	0.4744 ppm	0.4834 ppm	0.4898 ppm	0.5004 ppm	0.4793 ppm
Concentration per Run 1	0.4978 ppm	0.4832 ppm	0.4733 ppm	0.4784 ppm	0.4830 ppm	0.4986 ppm	0.4824 ppm
Concentration per Run 2	0.5011 ppm	0.4631 ppm	0.4743 ppm	0.4821 ppm	0.4895 ppm	0.5005 ppm	0.4770 ppm
Concentration per Run 3	0.5047 ppm	0.4871 ppm	0.4755 ppm	0.4898 ppm	0.4968 ppm	0.5020 ppm	0.4786 ppm
Recovery Percentage 1	100.242 %	95.562 %	94.876 %	96.688 %	97.952 %	100.073 %	95.864 %
Concentration RSD	0.7 %	2.7 %	0.2 %	1.2 %	1.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4869 ppm	0.5007 ppm	0.4791 ppm	0.4839 ppm	0.5040 ppm	5.0679 ppm	0.4851 ppm
Concentration per Run 1	0.4900 ppm	0.5025 ppm	0.4746 ppm	0.4838 ppm	0.5001 ppm	5.0439 ppm	0.4853 ppm
Concentration per Run 2	0.4830 ppm	0.4983 ppm	0.4794 ppm	0.4833 ppm	0.5050 ppm	5.0924 ppm	0.4844 ppm
Concentration per Run 3	0.4875 ppm	0.5012 ppm	0.4832 ppm	0.4845 ppm	0.5069 ppm	5.0673 ppm	0.4856 ppm
Recovery Percentage 1	97.375 %	100.133 %	95.810 %	96.773 %	100.805 %	101.357 %	97.014 %
Concentration RSD	0.7 %	0.4 %	0.9 %	0.1 %	0.7 %	0.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4831 ppm	0.4772 ppm	0.4843 ppm	9.7766 ppm	0.4992 ppm	0.4909 ppm	0.4901 ppm
Concentration per Run 1	0.4864 ppm	0.4771 ppm	0.4812 ppm	9.7280 ppm	0.4968 ppm	0.4921 ppm	0.4871 ppm
Concentration per Run 2	0.4796 ppm	0.4747 ppm	0.4824 ppm	9.7604 ppm	0.4970 ppm	0.4912 ppm	0.4872 ppm
Concentration per Run 3	0.4832 ppm	0.4797 ppm	0.4893 ppm	9.8413 ppm	0.5037 ppm	0.4895 ppm	0.4960 ppm
Recovery Percentage 1	96.610 %	95.436 %	96.863 %	97.766 %	99.834 %	98.189 %	98.018 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.6 %	0.8 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4846 ppm	5.2058 ppm	0.4720 ppm	0.4708 ppm	0.4928 ppm	0.4945 ppm	0.4749 ppm
Concentration per Run 1	0.4837 ppm	5.1870 ppm	0.4729 ppm	0.4641 ppm	0.4897 ppm	0.4953 ppm	0.4745 ppm
Concentration per Run 2	0.4854 ppm	5.1960 ppm	0.4677 ppm	0.4707 ppm	0.4925 ppm	0.4952 ppm	0.4745 ppm
Concentration per Run 3	0.4846 ppm	5.2344 ppm	0.4754 ppm	0.4775 ppm	0.4961 ppm	0.4929 ppm	0.4757 ppm
Recovery Percentage 1	96.916 %	99.158 %	94.398 %	94.150 %	98.556 %	98.890 %	94.983 %
Concentration RSD	0.2 %	0.5 %	0.8 %	1.4 %	0.6 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4943 ppm	104.6659 %	103.2870 %	102.4228 %	102.4703 %	102.6938 %	102.3369 %
Concentration per Run 1	0.4914 ppm	104.5851 %	103.8966 %	102.4190 %	102.6699 %	103.2474 %	102.3464 %
Concentration per Run 2	0.4937 ppm	104.8483 %	102.8486 %	102.6533 %	102.8371 %	102.0559 %	102.5009 %
Concentration per Run 3	0.4978 ppm	104.5644 %	103.1157 %	102.1961 %	101.9039 %	102.7781 %	102.1634 %
Recovery Percentage 1	98.863 %						
Concentration RSD	0.7 %	0.2 %	0.5 %	0.2 %	0.5 %	0.6 %	0.2 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:24:10 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0067 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0099 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0003 ppm	0.0041 ppm	0.0012 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0009 ppm	0.0062 ppm	0.0017 ppm	0.0019 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Recovery Percentage 1	6.386 %	6.748 %	17.685 %	2.816 %	-2.313 %	1.767 %	-1.066 %
Concentration RSD	91.5 %	43.6 %	114.0 %	136.9 %	65.0 %	48.6 %	28.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0055 ppm	-0.0306 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0010 ppm	0.0004 ppm	-0.0003 ppm	0.0047 ppm	-0.0356 ppm	-0.0012 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0067 ppm	-0.0153 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0052 ppm	-0.0407 ppm	0.0014 ppm
Recovery Percentage 1	3.260 %	-2.820 %	0.868 %	-0.972 %	11.016 %	-1.222 %	16.641 %
Concentration RSD	47.8 %	66.4 %	455.2 %	179.0 %	18.8 %	44.1 %	212.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0009 ppm	-0.0059 ppm	0.0006 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0017 ppm	-0.0001 ppm	0.0012 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm	0.0050 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	0.0008 ppm	-0.0101 ppm	0.0017 ppm	0.0010 ppm	-0.0020 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0007 ppm	-0.0072 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	-1.162 %	0.431 %	1.737 %	-0.294 %	2.270 %	1.706 %	1.720 %
Concentration RSD	39.8 %	498.6 %	31.0 %	85.4 %	180.2 %	497.9 %	423.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0006 ppm	-0.0013 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	0.0026 ppm	0.0017 ppm	-0.0019 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0010 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 3	-0.0063 ppm	0.0009 ppm	-0.0010 ppm	0.0002 ppm	0.0009 ppm	0.0007 ppm	-0.0006 ppm
Recovery Percentage 1	-11.895 %	0.123 %	-2.555 %	1.435 %	5.858 %	1.978 %	-4.516 %
Concentration RSD	386.3 %	206.4 %	42.6 %	34.9 %	57.1 %	79.3 %	36.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.5694 %	102.0271 %	103.6035 %	103.6980 %	102.3076 %	104.4743 %
Concentration per Run 1	-0.0015 ppm	105.1610 %	102.7265 %	105.0169 %	104.1630 %	103.2898 %	105.4611 %
Concentration per Run 2	-0.0015 ppm	103.8563 %	101.3232 %	102.6545 %	103.1584 %	101.2668 %	103.9227 %
Concentration per Run 3	-0.0012 ppm	104.6910 %	102.0315 %	103.1390 %	103.7725 %	102.3663 %	104.0391 %
Recovery Percentage 1	-27.930 %						
Concentration RSD	11.0 %	0.6 %	0.7 %	1.2 %	0.5 %	1.0 %	0.8 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-15d2 WG1974066
Analysis started at: 9/24/2024 5:30:14 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	123.7490 ppm	0.0344 ppm	0.0143 ppm	0.7508 ppm	0.0101 ppm	40.4816 ppm
Concentration per Run 1	0.0022 ppm	123.7522 ppm	0.0321 ppm	0.0135 ppm	0.7499 ppm	0.0101 ppm	40.5293 ppm
Concentration per Run 2	0.0018 ppm	123.7306 ppm	0.0311 ppm	0.0151 ppm	0.7484 ppm	0.0102 ppm	40.3573 ppm
Concentration per Run 3	0.0012 ppm	123.7643 ppm	0.0399 ppm	0.0145 ppm	0.7540 ppm	0.0101 ppm	40.5582 ppm
Concentration RSD	28.8 %	0.0 %	14.1 %	5.6 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0540 ppm	0.1022 ppm	0.0760 ppm	211.9988 ppm	7.0395 ppm	0.1011 ppm
Concentration per Run 1	0.0024 ppm	0.0546 ppm	0.1023 ppm	0.0760 ppm	211.2717 ppm	7.0837 ppm	0.1010 ppm
Concentration per Run 2	0.0025 ppm	0.0542 ppm	0.1023 ppm	0.0759 ppm	212.2448 ppm	6.9905 ppm	0.1005 ppm
Concentration per Run 3	0.0023 ppm	0.0532 ppm	0.1020 ppm	0.0759 ppm	212.4799 ppm	7.0444 ppm	0.1017 ppm
Concentration RSD	4.7 %	1.4 %	0.2 %	0.1 %	0.3 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.5364 ppm	7.7382 ppm	0.0058 ppm	1.5952 ppm	0.0727 ppm	0.1369 ppm	-0.0015 ppm
Concentration per Run 1	27.4353 ppm	7.7292 ppm	0.0061 ppm	1.5943 ppm	0.0725 ppm	0.1362 ppm	-0.0054 ppm
Concentration per Run 2	27.5572 ppm	7.7379 ppm	0.0059 ppm	1.5976 ppm	0.0729 ppm	0.1385 ppm	-0.0015 ppm
Concentration per Run 3	27.6168 ppm	7.7476 ppm	0.0053 ppm	1.5936 ppm	0.0726 ppm	0.1360 ppm	0.0022 ppm
Concentration RSD	0.3 %	0.1 %	7.6 %	0.1 %	0.3 %	1.0 %	245.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	1.5882 ppm	0.0164 ppm	0.1217 ppm	3.7090 ppm	0.0048 ppm	0.2565 ppm
Concentration per Run 1	0.0009 ppm	1.5800 ppm	0.0164 ppm	0.1216 ppm	3.6917 ppm	0.0045 ppm	0.2562 ppm
Concentration per Run 2	0.0006 ppm	1.6059 ppm	0.0169 ppm	0.1215 ppm	3.7143 ppm	0.0047 ppm	0.2575 ppm
Concentration per Run 3	-0.0006 ppm	1.5787 ppm	0.0159 ppm	0.1220 ppm	3.7211 ppm	0.0052 ppm	0.2560 ppm
Concentration RSD	273.4 %	1.0 %	3.3 %	0.2 %	0.4 %	7.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7200 ppm	108.2183 %	114.8712 %	101.7863 %	**152.1351 %**	**166.7122 %**	**154.4821 %**
Concentration per Run 1	0.7200 ppm	108.7821 %	114.5669 %	101.2990 %	**152.3226 %**	**165.7443 %**	**154.0229 %**
Concentration per Run 2	0.7217 ppm	107.9960 %	115.1877 %	102.2251 %	**152.5450 %**	**167.5742 %**	**154.8685 %**
Concentration per Run 3	0.7183 ppm	107.8769 %	114.8590 %	101.8349 %	**151.5376 %**	**166.8181 %**	**154.5548 %**
Concentration RSD	0.2 %	0.5 %	0.3 %	0.5 %	**0.3 %**	**0.6 %**	**0.3 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-16d2 WG1974066
Analysis started at: 9/24/2024 5:34:25 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	123.6352 ppm	0.0255 ppm	0.0158 ppm	0.6426 ppm	0.0096 ppm	30.7664 ppm
Concentration per Run 1	0.0014 ppm	124.4347 ppm	0.0262 ppm	0.0158 ppm	0.6462 ppm	0.0097 ppm	31.0166 ppm
Concentration per Run 2	0.0021 ppm	123.5392 ppm	0.0245 ppm	0.0171 ppm	0.6405 ppm	0.0096 ppm	30.7491 ppm
Concentration per Run 3	0.0012 ppm	122.9317 ppm	0.0257 ppm	0.0146 ppm	0.6410 ppm	0.0096 ppm	30.5335 ppm
Concentration RSD	29.5 %	0.6 %	3.5 %	7.8 %	0.5 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0492 ppm	0.0974 ppm	0.0914 ppm	196.7052 ppm	8.4410 ppm	0.1017 ppm
Concentration per Run 1	0.0017 ppm	0.0495 ppm	0.0978 ppm	0.0916 ppm	197.9665 ppm	8.4884 ppm	0.1032 ppm
Concentration per Run 2	0.0019 ppm	0.0490 ppm	0.0978 ppm	0.0914 ppm	196.2431 ppm	8.4353 ppm	0.1013 ppm
Concentration per Run 3	0.0020 ppm	0.0490 ppm	0.0964 ppm	0.0911 ppm	195.9061 ppm	8.3993 ppm	0.1006 ppm
Concentration RSD	8.0 %	0.6 %	0.8 %	0.3 %	0.6 %	0.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.7118 ppm	4.3017 ppm	0.0051 ppm	1.1999 ppm	0.0734 ppm	0.1125 ppm	-0.0042 ppm
Concentration per Run 1	22.7103 ppm	4.3526 ppm	0.0046 ppm	1.2099 ppm	0.0740 ppm	0.1128 ppm	-0.0033 ppm
Concentration per Run 2	22.7048 ppm	4.2784 ppm	0.0055 ppm	1.2019 ppm	0.0741 ppm	0.1117 ppm	-0.0037 ppm
Concentration per Run 3	22.7203 ppm	4.2742 ppm	0.0053 ppm	1.1879 ppm	0.0721 ppm	0.1129 ppm	-0.0058 ppm
Concentration RSD	0.0 %	1.0 %	8.8 %	0.9 %	1.6 %	0.6 %	31.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	1.4486 ppm	0.0147 ppm	0.1029 ppm	3.9382 ppm	0.0054 ppm	0.2489 ppm
Concentration per Run 1	-0.0004 ppm	1.4431 ppm	0.0142 ppm	0.1034 ppm	3.9447 ppm	0.0058 ppm	0.2486 ppm
Concentration per Run 2	0.0022 ppm	1.4473 ppm	0.0156 ppm	0.1028 ppm	3.9445 ppm	0.0062 ppm	0.2488 ppm
Concentration per Run 3	0.0029 ppm	1.4553 ppm	0.0145 ppm	0.1025 ppm	3.9255 ppm	0.0043 ppm	0.2493 ppm
Concentration RSD	109.7 %	0.4 %	4.9 %	0.4 %	0.3 %	18.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6755 ppm	111.9350 %	114.7082 %	104.6042 %	152.5709 %	160.3632 %	152.5986 %
Concentration per Run 1	0.6750 ppm	111.0207 %	113.8545 %	105.1129 %	151.3240 %	159.6986 %	153.5978 %
Concentration per Run 2	0.6777 ppm	112.9938 %	114.6693 %	104.4867 %	153.7420 %	160.3458 %	151.9609 %
Concentration per Run 3	0.6737 ppm	111.7904 %	115.6009 %	104.2129 %	152.6466 %	161.0453 %	152.2372 %
Concentration RSD	0.3 %	0.9 %	0.8 %	0.4 %	0.8 %	0.4 %	0.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-17d2 WG1974066
Analysis started at: 9/24/2024 5:38:21 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	117.6826 ppm	0.0281 ppm	0.0110 ppm	0.6745 ppm	0.0095 ppm	27.5997 ppm
Concentration per Run 1	0.0010 ppm	117.9901 ppm	0.0289 ppm	0.0108 ppm	0.6736 ppm	0.0094 ppm	27.6205 ppm
Concentration per Run 2	0.0011 ppm	117.1738 ppm	0.0263 ppm	0.0124 ppm	0.6696 ppm	0.0094 ppm	27.5217 ppm
Concentration per Run 3	0.0014 ppm	117.8839 ppm	0.0292 ppm	0.0098 ppm	0.6802 ppm	0.0096 ppm	27.6569 ppm
Concentration RSD	14.0 %	0.4 %	5.7 %	12.3 %	0.8 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0514 ppm	0.1115 ppm	0.0994 ppm	220.2864 ppm	10.8167 ppm	0.0988 ppm
Concentration per Run 1	0.0012 ppm	0.0505 ppm	0.1119 ppm	0.0996 ppm	220.3769 ppm	10.8382 ppm	0.0995 ppm
Concentration per Run 2	0.0009 ppm	0.0525 ppm	0.1118 ppm	0.0999 ppm	219.1019 ppm	10.7736 ppm	0.0976 ppm
Concentration per Run 3	0.0012 ppm	0.0512 ppm	0.1108 ppm	0.0987 ppm	221.3804 ppm	10.8382 ppm	0.0994 ppm
Concentration RSD	14.9 %	1.9 %	0.6 %	0.6 %	0.5 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.9763 ppm	3.4930 ppm	0.0056 ppm	1.5095 ppm	0.0828 ppm	0.0985 ppm	-0.0051 ppm
Concentration per Run 1	26.0120 ppm	3.4979 ppm	0.0058 ppm	1.5018 ppm	0.0836 ppm	0.0982 ppm	0.0005 ppm
Concentration per Run 2	25.9371 ppm	3.4809 ppm	0.0051 ppm	1.5045 ppm	0.0825 ppm	0.1000 ppm	-0.0051 ppm
Concentration per Run 3	25.9798 ppm	3.5001 ppm	0.0058 ppm	1.5222 ppm	0.0822 ppm	0.0972 ppm	-0.0107 ppm
Concentration RSD	0.1 %	0.3 %	7.2 %	0.7 %	0.9 %	1.4 %	109.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	1.1891 ppm	0.0151 ppm	0.0897 ppm	4.6027 ppm	0.0054 ppm	0.2287 ppm
Concentration per Run 1	0.0012 ppm	1.1840 ppm	0.0134 ppm	0.0901 ppm	4.6131 ppm	0.0046 ppm	0.2287 ppm
Concentration per Run 2	0.0009 ppm	1.1881 ppm	0.0152 ppm	0.0890 ppm	4.5902 ppm	0.0063 ppm	0.2288 ppm
Concentration per Run 3	-0.0005 ppm	1.1951 ppm	0.0167 ppm	0.0902 ppm	4.6047 ppm	0.0054 ppm	0.2285 ppm
Concentration RSD	170.2 %	0.5 %	10.9 %	0.8 %	0.3 %	15.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5698 ppm	112.5742 %	117.3374 %	105.6915 %	**187.1590 %**	**200.8750 %**	**188.8262 %**
Concentration per Run 1	0.5706 ppm	112.2444 %	117.1640 %	105.4815 %	**185.7988 %**	**201.3241 %**	**188.8931 %**
Concentration per Run 2	0.5677 ppm	112.3901 %	118.0721 %	106.1268 %	**187.0447 %**	**200.9085 %**	**189.4456 %**
Concentration per Run 3	0.5710 ppm	113.0882 %	116.7762 %	105.4661 %	**188.6334 %**	**200.3924 %**	**188.1399 %**
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	**0.8 %**	**0.2 %**	**0.3 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-18d2 WG1974066
Analysis started at: 9/24/2024 5:42:16 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	114.8651 ppm	0.0370 ppm	0.0146 ppm	0.8505 ppm	0.0117 ppm	44.5169 ppm
Concentration per Run 1	0.0004 ppm	114.8516 ppm	0.0401 ppm	0.0141 ppm	0.8500 ppm	0.0116 ppm	44.5544 ppm
Concentration per Run 2	0.0008 ppm	114.8658 ppm	0.0351 ppm	0.0141 ppm	0.8515 ppm	0.0117 ppm	44.5886 ppm
Concentration per Run 3	0.0006 ppm	114.8779 ppm	0.0357 ppm	0.0155 ppm	0.8500 ppm	0.0117 ppm	44.4078 ppm
Concentration RSD	30.3 %	0.0 %	7.3 %	5.3 %	0.1 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0789 ppm	0.1124 ppm	0.1210 ppm	327.0468 ppm	15.0470 ppm	0.1137 ppm
Concentration per Run 1	0.0015 ppm	0.0788 ppm	0.1122 ppm	0.1212 ppm	326.9624 ppm	14.9923 ppm	0.1141 ppm
Concentration per Run 2	0.0013 ppm	0.0786 ppm	0.1120 ppm	0.1210 ppm	328.3091 ppm	15.0404 ppm	0.1135 ppm
Concentration per Run 3	0.0015 ppm	0.0793 ppm	0.1130 ppm	0.1208 ppm	325.8689 ppm	15.1083 ppm	0.1134 ppm
Concentration RSD	7.2 %	0.5 %	0.4 %	0.1 %	0.4 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.1247 ppm	7.7070 ppm	0.0068 ppm	4.3212 ppm	0.0973 ppm	0.0817 ppm	-0.0079 ppm
Concentration per Run 1	33.9136 ppm	7.7004 ppm	0.0067 ppm	4.3258 ppm	0.0964 ppm	0.0830 ppm	-0.0073 ppm
Concentration per Run 2	34.2362 ppm	7.7400 ppm	0.0064 ppm	4.3156 ppm	0.0982 ppm	0.0797 ppm	-0.0097 ppm
Concentration per Run 3	34.2242 ppm	7.6806 ppm	0.0073 ppm	4.3221 ppm	0.0972 ppm	0.0825 ppm	-0.0069 ppm
Concentration RSD	0.5 %	0.4 %	6.5 %	0.1 %	0.9 %	2.2 %	19.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	1.2607 ppm	0.0213 ppm	0.1392 ppm	7.5023 ppm	0.0107 ppm	0.3280 ppm
Concentration per Run 1	0.0019 ppm	1.2623 ppm	0.0198 ppm	0.1389 ppm	7.4680 ppm	0.0114 ppm	0.3268 ppm
Concentration per Run 2	-0.0004 ppm	1.2618 ppm	0.0220 ppm	0.1397 ppm	7.5239 ppm	0.0118 ppm	0.3290 ppm
Concentration per Run 3	-0.0042 ppm	1.2580 ppm	0.0221 ppm	0.1391 ppm	7.5150 ppm	0.0090 ppm	0.3282 ppm
Concentration RSD	349.1 %	0.2 %	5.9 %	0.3 %	0.4 %	14.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7481 ppm	113.8758 %	119.0849 %	107.0398 %	**240.0667 %**	**260.2996 %**	**243.5755 %**
Concentration per Run 1	0.7465 ppm	113.8817 %	118.7654 %	107.1529 %	**240.1895 %**	**259.9822 %**	**243.7146 %**
Concentration per Run 2	0.7481 ppm	114.2168 %	118.6660 %	106.7453 %	**240.4949 %**	**258.6676 %**	**242.9845 %**
Concentration per Run 3	0.7498 ppm	113.5288 %	119.8233 %	107.2214 %	**239.5158 %**	**262.2489 %**	**244.0274 %**
Concentration RSD	0.2 %	0.3 %	0.5 %	0.2 %	**0.2 %**	**0.7 %**	**0.2 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-19d2 WG1974066
Analysis started at: 9/24/2024 5:46:11 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	55.1704 ppm	0.0145 ppm	0.0038 ppm	0.2805 ppm	0.0033 ppm	9.7401 ppm
Concentration per Run 1	0.0013 ppm	54.8160 ppm	0.0146 ppm	0.0044 ppm	0.2788 ppm	0.0033 ppm	9.7060 ppm
Concentration per Run 2	0.0004 ppm	55.3948 ppm	0.0137 ppm	0.0024 ppm	0.2816 ppm	0.0033 ppm	9.7473 ppm
Concentration per Run 3	0.0010 ppm	55.3003 ppm	0.0154 ppm	0.0045 ppm	0.2811 ppm	0.0033 ppm	9.7669 ppm
Concentration RSD	53.2 %	0.6 %	5.9 %	30.8 %	0.5 %	1.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0149 ppm	0.0415 ppm	0.0635 ppm	82.8010 ppm	2.2303 ppm	0.0426 ppm
Concentration per Run 1	0.0009 ppm	0.0145 ppm	0.0410 ppm	0.0631 ppm	82.3826 ppm	2.2213 ppm	0.0436 ppm
Concentration per Run 2	0.0011 ppm	0.0149 ppm	0.0412 ppm	0.0634 ppm	83.1549 ppm	2.2449 ppm	0.0426 ppm
Concentration per Run 3	0.0007 ppm	0.0152 ppm	0.0423 ppm	0.0640 ppm	82.8655 ppm	2.2247 ppm	0.0417 ppm
Concentration RSD	24.4 %	2.3 %	1.7 %	0.8 %	0.5 %	0.6 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5030 ppm	0.7965 ppm	0.0018 ppm	0.4696 ppm	0.0250 ppm	0.0763 ppm	-0.0005 ppm
Concentration per Run 1	8.5184 ppm	0.7958 ppm	0.0017 ppm	0.4704 ppm	0.0254 ppm	0.0755 ppm	0.0036 ppm
Concentration per Run 2	8.4792 ppm	0.7972 ppm	0.0021 ppm	0.4700 ppm	0.0246 ppm	0.0784 ppm	-0.0026 ppm
Concentration per Run 3	8.5114 ppm	0.7963 ppm	0.0017 ppm	0.4683 ppm	0.0251 ppm	0.0751 ppm	-0.0024 ppm
Concentration RSD	0.2 %	0.1 %	14.4 %	0.2 %	1.6 %	2.4 %	765.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.6912 ppm	0.0087 ppm	0.0368 ppm	1.1126 ppm	0.0011 ppm	0.0919 ppm
Concentration per Run 1	0.0003 ppm	1.6893 ppm	0.0084 ppm	0.0365 ppm	1.1135 ppm	0.0005 ppm	0.0920 ppm
Concentration per Run 2	-0.0015 ppm	1.6950 ppm	0.0084 ppm	0.0372 ppm	1.1079 ppm	0.0027 ppm	0.0919 ppm
Concentration per Run 3	0.0003 ppm	1.6895 ppm	0.0095 ppm	0.0366 ppm	1.1165 ppm	0.0003 ppm	0.0918 ppm
Concentration RSD	344.0 %	0.2 %	7.4 %	1.0 %	0.4 %	116.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2385 ppm	109.2802 %	111.0832 %	104.5530 %	124.2598 %	128.8481 %	124.6306 %
Concentration per Run 1	0.2378 ppm	109.9390 %	111.4813 %	104.4356 %	124.8370 %	128.9327 %	124.5106 %
Concentration per Run 2	0.2371 ppm	109.5767 %	110.4939 %	104.7331 %	124.3523 %	128.0149 %	124.9899 %
Concentration per Run 3	0.2406 ppm	108.3248 %	111.2746 %	104.4902 %	123.5902 %	129.5968 %	124.3914 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.2 %	0.5 %	0.6 %	0.3 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-20d2 WG1974066
Analysis started at: 9/24/2024 5:50:07 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	146.7599 ppm	0.0328 ppm	0.0064 ppm	0.8549 ppm	0.0128 ppm	38.6072 ppm
Concentration per Run 1	0.0020 ppm	146.5053 ppm	0.0341 ppm	0.0056 ppm	0.8595 ppm	0.0127 ppm	38.6208 ppm
Concentration per Run 2	0.0016 ppm	147.0171 ppm	0.0328 ppm	0.0080 ppm	0.8497 ppm	0.0127 ppm	38.6569 ppm
Concentration per Run 3	0.0020 ppm	146.7573 ppm	0.0316 ppm	0.0057 ppm	0.8555 ppm	0.0128 ppm	38.5438 ppm
Concentration RSD	11.5 %	0.2 %	3.9 %	20.8 %	0.6 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0460 ppm	0.1090 ppm	0.0928 ppm	252.6693 ppm	5.7298 ppm	0.1308 ppm
Concentration per Run 1	0.0023 ppm	0.0459 ppm	0.1088 ppm	0.0924 ppm	253.4187 ppm	5.7621 ppm	0.1316 ppm
Concentration per Run 2	0.0026 ppm	0.0464 ppm	0.1083 ppm	0.0934 ppm	251.5731 ppm	5.6951 ppm	0.1294 ppm
Concentration per Run 3	0.0023 ppm	0.0458 ppm	0.1098 ppm	0.0927 ppm	253.0162 ppm	5.7323 ppm	0.1315 ppm
Concentration RSD	6.9 %	0.7 %	0.7 %	0.5 %	0.4 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.9652 ppm	2.7037 ppm	0.0089 ppm	0.8321 ppm	0.0664 ppm	0.1175 ppm	-0.0046 ppm
Concentration per Run 1	22.9210 ppm	2.7035 ppm	0.0091 ppm	0.8331 ppm	0.0668 ppm	0.1178 ppm	-0.0027 ppm
Concentration per Run 2	23.0243 ppm	2.7080 ppm	0.0083 ppm	0.8323 ppm	0.0659 ppm	0.1181 ppm	-0.0025 ppm
Concentration per Run 3	22.9503 ppm	2.6995 ppm	0.0093 ppm	0.8308 ppm	0.0665 ppm	0.1166 ppm	-0.0086 ppm
Concentration RSD	0.2 %	0.2 %	6.1 %	0.1 %	0.8 %	0.7 %	75.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	5.0496 ppm	0.0318 ppm	0.1207 ppm	3.1706 ppm	0.0059 ppm	0.2778 ppm
Concentration per Run 1	0.0001 ppm	5.0314 ppm	0.0316 ppm	0.1212 ppm	3.1632 ppm	0.0063 ppm	0.2767 ppm
Concentration per Run 2	-0.0009 ppm	5.0499 ppm	0.0324 ppm	0.1198 ppm	3.1723 ppm	0.0050 ppm	0.2780 ppm
Concentration per Run 3	-0.0033 ppm	5.0675 ppm	0.0313 ppm	0.1211 ppm	3.1763 ppm	0.0065 ppm	0.2787 ppm
Concentration RSD	125.9 %	0.4 %	1.8 %	0.7 %	0.2 %	13.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6686 ppm	111.1324 %	114.2390 %	103.4734 %	**242.0420 %**	**258.6844 %**	**246.4109 %**
Concentration per Run 1	0.6660 ppm	110.4081 %	113.3238 %	103.8713 %	**240.3302 %**	**255.9330 %**	**247.9065 %**
Concentration per Run 2	0.6699 ppm	111.0754 %	114.0528 %	103.3496 %	**241.8545 %**	**259.2701 %**	**246.0244 %**
Concentration per Run 3	0.6698 ppm	111.9138 %	115.3403 %	103.1992 %	**243.9413 %**	**260.8500 %**	**245.3018 %**
Concentration RSD	0.3 %	0.7 %	0.9 %	0.3 %	**0.7 %**	**1.0 %**	**0.5 %**

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:54:03 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4893 ppm	0.4511 ppm	0.4620 ppm	0.4748 ppm	0.4687 ppm	0.4790 ppm	0.4598 ppm
Concentration per Run 1	0.4896 ppm	0.4528 ppm	0.4652 ppm	0.4757 ppm	0.4671 ppm	0.4770 ppm	0.4559 ppm
Concentration per Run 2	0.4897 ppm	0.4558 ppm	0.4595 ppm	0.4709 ppm	0.4694 ppm	0.4797 ppm	0.4627 ppm
Concentration per Run 3	0.4885 ppm	0.4447 ppm	0.4614 ppm	0.4777 ppm	0.4695 ppm	0.4803 ppm	0.4609 ppm
Recovery Percentage 1	97.855 %	90.222 %	92.401 %	94.955 %	93.733 %	95.797 %	91.967 %
Concentration RSD	0.1 %	1.3 %	0.6 %	0.7 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4782 ppm	0.4879 ppm	0.4666 ppm	0.4752 ppm	0.4826 ppm	4.8273 ppm	0.4647 ppm
Concentration per Run 1	0.4736 ppm	0.4866 ppm	0.4654 ppm	0.4751 ppm	0.4837 ppm	4.7979 ppm	0.4661 ppm
Concentration per Run 2	0.4817 ppm	0.4862 ppm	0.4677 ppm	0.4752 ppm	0.4838 ppm	4.8692 ppm	0.4644 ppm
Concentration per Run 3	0.4794 ppm	0.4908 ppm	0.4668 ppm	0.4754 ppm	0.4803 ppm	4.8149 ppm	0.4635 ppm
Recovery Percentage 1	95.646 %	97.571 %	93.329 %	95.044 %	96.522 %	96.546 %	92.931 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.0 %	0.4 %	0.8 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4704 ppm	0.4573 ppm	0.4696 ppm	9.3853 ppm	0.4849 ppm	0.4771 ppm	0.4814 ppm
Concentration per Run 1	0.4686 ppm	0.4559 ppm	0.4668 ppm	9.3465 ppm	0.4862 ppm	0.4793 ppm	0.4754 ppm
Concentration per Run 2	0.4729 ppm	0.4593 ppm	0.4693 ppm	9.4166 ppm	0.4815 ppm	0.4750 ppm	0.4821 ppm
Concentration per Run 3	0.4697 ppm	0.4569 ppm	0.4727 ppm	9.3928 ppm	0.4871 ppm	0.4771 ppm	0.4866 ppm
Recovery Percentage 1	94.082 %	91.470 %	93.925 %	93.853 %	96.982 %	95.424 %	96.273 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.4 %	0.6 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4750 ppm	5.1064 ppm	0.4573 ppm	0.4489 ppm	0.4782 ppm	0.4785 ppm	0.4659 ppm
Concentration per Run 1	0.4769 ppm	5.0659 ppm	0.4552 ppm	0.4472 ppm	0.4788 ppm	0.4798 ppm	0.4641 ppm
Concentration per Run 2	0.4763 ppm	5.1171 ppm	0.4551 ppm	0.4498 ppm	0.4800 ppm	0.4785 ppm	0.4671 ppm
Concentration per Run 3	0.4717 ppm	5.1362 ppm	0.4615 ppm	0.4496 ppm	0.4757 ppm	0.4773 ppm	0.4665 ppm
Recovery Percentage 1	94.993 %	97.264 %	91.454 %	89.778 %	95.630 %	95.705 %	93.184 %
Concentration RSD	0.6 %	0.7 %	0.8 %	0.3 %	0.5 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4815 ppm	106.4965 %	107.0001 %	104.8886 %	104.3012 %	106.0456 %	104.7710 %
Concentration per Run 1	0.4806 ppm	107.3311 %	107.1580 %	103.2651 %	105.2106 %	106.2615 %	103.2783 %
Concentration per Run 2	0.4795 ppm	105.9731 %	106.5558 %	104.7214 %	103.7283 %	105.5513 %	104.4560 %
Concentration per Run 3	0.4844 ppm	106.1852 %	107.2865 %	106.6794 %	103.9647 %	106.3242 %	106.5787 %
Recovery Percentage 1	96.307 %						
Concentration RSD	0.5 %	0.7 %	0.4 %	1.6 %	0.8 %	0.4 %	1.6 %

ICP DataTrace 9

9/24/2024 6:02:30 PM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:57:59 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0029 ppm	0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0095 ppm	0.0014 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0049 ppm
Concentration per Run 2	0.0005 ppm	-0.0066 ppm	0.0002 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0037 ppm
Concentration per Run 3	0.0003 ppm	0.0058 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	-0.0036 ppm
Recovery Percentage 1	3.949 %	2.902 %	13.312 %	3.559 %	-0.149 %	-0.625 %	-4.063 %
Concentration RSD	97.2 %	291.4 %	94.1 %	53.6 %	623.9 %	198.1 %	18.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0053 ppm	-0.0048 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0040 ppm	0.0144 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0002 ppm	-0.0004 ppm	0.0059 ppm	-0.0137 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0060 ppm	-0.0153 ppm	0.0011 ppm
Recovery Percentage 1	0.682 %	-1.341 %	1.874 %	-1.625 %	10.579 %	-0.194 %	14.461 %
Concentration RSD	45.2 %	139.3 %	246.2 %	151.8 %	20.8 %	345.0 %	158.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0001 ppm	0.0011 ppm	-0.0074 ppm	0.0005 ppm	0.0003 ppm	-0.0027 ppm
Concentration per Run 1	-0.0032 ppm	-0.0002 ppm	0.0011 ppm	-0.0089 ppm	0.0005 ppm	-0.0006 ppm	-0.0038 ppm
Concentration per Run 2	-0.0023 ppm	0.0004 ppm	0.0016 ppm	-0.0064 ppm	0.0009 ppm	0.0015 ppm	-0.0056 ppm
Concentration per Run 3	-0.0013 ppm	0.0002 ppm	0.0006 ppm	-0.0069 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm
Recovery Percentage 1	-2.271 %	1.237 %	2.157 %	-0.369 %	2.119 %	2.910 %	-5.491 %
Concentration RSD	41.6 %	228.2 %	48.9 %	17.8 %	62.7 %	360.7 %	129.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0016 ppm	-0.0018 ppm	0.0002 ppm	0.0009 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0007 ppm	-0.0031 ppm	-0.0018 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0013 ppm	-0.0003 ppm	-0.0014 ppm	0.0002 ppm	0.0009 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	-0.0016 ppm	-0.0014 ppm	-0.0021 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-7.375 %	-0.322 %	-3.514 %	1.633 %	8.676 %	-0.297 %	-1.794 %
Concentration RSD	164.4 %	85.0 %	19.7 %	51.1 %	36.2 %	209.9 %	118.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	106.6353 %	105.5088 %	104.7091 %	106.1200 %	105.4654 %	105.5029 %
Concentration per Run 1	-0.0017 ppm	107.0450 %	105.4039 %	104.3872 %	106.7803 %	105.4354 %	105.1867 %
Concentration per Run 2	-0.0013 ppm	106.5641 %	104.3201 %	104.9225 %	105.9764 %	104.5000 %	105.7120 %
Concentration per Run 3	-0.0015 ppm	106.2969 %	106.8025 %	104.8177 %	105.6034 %	106.4607 %	105.6100 %
Recovery Percentage 1	-30.020 %						
Concentration RSD	13.6 %	0.4 %	1.2 %	0.3 %	0.6 %	0.9 %	0.3 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: Blank JMF Trace5
Analysis started at: 9/24/2024 9:12:36 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	-4.0 %	0.8 %	0.1 %	0.2 %	-0.5 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	0.0 %	0.2 %	0.0 %	2.4 %	0.0 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	2.7 %	0.8 %	-0.1 %	-0.1 %	-0.1 %	-0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	-0.7 %	-0.2 %	0.0 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICAL
Analysis started at: 9/24/2024 9:18:55 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0049 ppm	24.9199 ppm	0.9976 ppm	0.9978 ppm	0.9971 ppm	0.9961 ppm	9.9747 ppm
Concentration per Run 2	1.0061 ppm	25.5494 ppm	1.0003 ppm	1.0000 ppm	1.0212 ppm	1.0206 ppm	10.1919 ppm
Concentration per Run 3	0.9890 ppm	24.5308 ppm	1.0021 ppm	1.0022 ppm	0.9817 ppm	0.9833 ppm	9.8334 ppm
Concentration RSD	1.0 %	2.1 %	0.2 %	0.2 %	2.0 %	1.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9987 ppm	0.9982 ppm	1.0050 ppm	1.0048 ppm	24.8152 ppm	34.8602 ppm	0.9939 ppm
Concentration per Run 2	0.9993 ppm	0.9993 ppm	1.0049 ppm	1.0051 ppm	25.5303 ppm	35.7635 ppm	1.0229 ppm
Concentration per Run 3	1.0020 ppm	1.0025 ppm	0.9900 ppm	0.9901 ppm	24.6545 ppm	34.3763 ppm	0.9832 ppm
Concentration RSD	0.2 %	0.2 %	0.9 %	0.9 %	1.9 %	2.0 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0532 ppm	0.9954 ppm	0.9876 ppm	24.9013 ppm	0.9993 ppm	0.9984 ppm	0.9980 ppm
Concentration per Run 2	10.0432 ppm	1.0213 ppm	0.9995 ppm	25.5138 ppm	0.9991 ppm	1.0009 ppm	0.9982 ppm
Concentration per Run 3	9.9037 ppm	0.9833 ppm	1.0130 ppm	24.5850 ppm	1.0016 ppm	1.0007 ppm	1.0038 ppm
Concentration RSD	0.8 %	1.9 %	1.3 %	1.9 %	0.1 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9983 ppm	9.9962 ppm	0.9992 ppm	0.9941 ppm	1.0053 ppm	0.9969 ppm	1.0065 ppm
Concentration per Run 2	1.0019 ppm	9.9881 ppm	0.9989 ppm	1.0212 ppm	1.0051 ppm	1.0002 ppm	1.0045 ppm
Concentration per Run 3	0.9998 ppm	10.0157 ppm	1.0020 ppm	0.9848 ppm	0.9896 ppm	1.0028 ppm	0.9890 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	1.9 %	0.9 %	0.3 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	92.0162 %	94.2389 %	95.9169 %	102.0130 %	97.7745 %	99.0139 %
Concentration per Run 1	0.9986 ppm	92.1616 %	93.7692 %	95.9237 %	103.0368 %	97.9072 %	98.4742 %
Concentration per Run 2	1.0000 ppm	90.2599 %	93.8266 %	96.0993 %	100.5135 %	97.8100 %	98.5758 %
Concentration per Run 3	1.0014 ppm	93.6271 %	95.1210 %	95.7276 %	102.4888 %	97.6063 %	99.9916 %
Concentration RSD	0.1 %	1.8 %	0.8 %	0.2 %	1.3 %	0.2 %	0.9 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICV
Analysis started at: 9/24/2024 9:24:57 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5140 ppm	0.4901 ppm	0.4901 ppm	0.4935 ppm	0.4740 ppm	0.4852 ppm	0.4843 ppm
Concentration per Run 1	0.5125 ppm	0.4961 ppm	0.4911 ppm	0.4935 ppm	0.4834 ppm	0.4950 ppm	0.4963 ppm
Concentration per Run 2	0.5146 ppm	0.4844 ppm	0.4906 ppm	0.4931 ppm	0.4716 ppm	0.4825 ppm	0.4794 ppm
Concentration per Run 3	0.5149 ppm	0.4897 ppm	0.4886 ppm	0.4938 ppm	0.4669 ppm	0.4779 ppm	0.4773 ppm
Recovery Percentage 1	102.793 %	98.016 %	98.020 %	98.692 %	94.799 %	97.033 %	96.861 %
Concentration RSD	0.3 %	1.2 %	0.3 %	0.1 %	1.8 %	1.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4996 ppm	0.5108 ppm	0.5052 ppm	0.5001 ppm	0.4953 ppm	5.0387 ppm	0.4775 ppm
Concentration per Run 1	0.4992 ppm	0.5108 ppm	0.5046 ppm	0.4987 ppm	0.5023 ppm	5.1551 ppm	0.4910 ppm
Concentration per Run 2	0.5001 ppm	0.5108 ppm	0.5049 ppm	0.4997 ppm	0.4933 ppm	5.0220 ppm	0.4720 ppm
Concentration per Run 3	0.4994 ppm	0.5108 ppm	0.5059 ppm	0.5018 ppm	0.4902 ppm	4.9389 ppm	0.4696 ppm
Recovery Percentage 1	99.913 %	102.158 %	101.032 %	100.012 %	99.055 %	100.774 %	95.502 %
Concentration RSD	0.1 %	0.0 %	0.1 %	0.3 %	1.3 %	2.2 %	2.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5065 ppm	0.4795 ppm	0.5046 ppm	9.7657 ppm	0.5083 ppm	0.5066 ppm	0.5046 ppm
Concentration per Run 1	0.5060 ppm	0.4887 ppm	0.5005 ppm	9.9614 ppm	0.5080 ppm	0.5066 ppm	0.5044 ppm
Concentration per Run 2	0.5071 ppm	0.4772 ppm	0.5058 ppm	9.6873 ppm	0.5083 ppm	0.5077 ppm	0.5039 ppm
Concentration per Run 3	0.5064 ppm	0.4727 ppm	0.5076 ppm	9.6483 ppm	0.5085 ppm	0.5055 ppm	0.5053 ppm
Recovery Percentage 1	101.300 %	95.907 %	100.928 %	97.657 %	101.651 %	101.322 %	100.910 %
Concentration RSD	0.1 %	1.7 %	0.7 %	1.7 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4938 ppm	5.5238 ppm	0.4815 ppm	0.4656 ppm	0.5080 ppm	0.5072 ppm	0.4973 ppm
Concentration per Run 1	0.4911 ppm	5.5224 ppm	0.4810 ppm	0.4746 ppm	0.5075 ppm	0.5059 ppm	0.4959 ppm
Concentration per Run 2	0.4954 ppm	5.5295 ppm	0.4815 ppm	0.4635 ppm	0.5068 ppm	0.5068 ppm	0.4973 ppm
Concentration per Run 3	0.4949 ppm	5.5194 ppm	0.4818 ppm	0.4588 ppm	0.5095 ppm	0.5088 ppm	0.4986 ppm
Recovery Percentage 1	98.764 %	105.214 %	96.292 %	93.127 %	101.591 %	101.434 %	99.458 %
Concentration RSD	0.5 %	0.1 %	0.1 %	1.7 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5047 ppm	96.6279 %	96.2994 %	97.6555 %	100.7628 %	99.9521 %	99.5057 %
Concentration per Run 1	0.5043 ppm	94.8223 %	96.1320 %	97.7428 %	98.9110 %	100.0684 %	99.3244 %
Concentration per Run 2	0.5055 ppm	96.9480 %	96.6942 %	97.6845 %	101.1127 %	99.8276 %	99.8475 %
Concentration per Run 3	0.5044 ppm	98.1135 %	96.0721 %	97.5394 %	102.2647 %	99.9601 %	99.3454 %
Recovery Percentage 1	100.946 %						
Concentration RSD	0.1 %	1.7 %	0.4 %	0.1 %	1.7 %	0.1 %	0.3 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICB
Analysis started at: 9/24/2024 9:31:00 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0005 ppm	0.0013 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm
Concentration per Run 1	-0.0002 ppm	-0.0060 ppm	-0.0013 ppm	0.0012 ppm	0.0003 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0005 ppm	0.0015 ppm	0.0001 ppm	0.0001 ppm	-0.0043 ppm
Concentration per Run 3	0.0001 ppm	0.0089 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0034 ppm
Recovery Percentage 1	0.089 %	1.801 %	-10.147 %	4.412 %	1.578 %	3.239 %	-1.720 %
Concentration RSD	3,564.0 %	415.9 %	151.6 %	8.9 %	98.8 %	60.5 %	212.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm	0.0005 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0021 ppm	-0.0083 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0037 ppm	0.0270 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0050 ppm	-0.0172 ppm	-0.0009 ppm
Recovery Percentage 1	-0.011 %	-0.722 %	0.577 %	0.278 %	7.226 %	0.020 %	-20.807 %
Concentration RSD	5,324.9 %	65.1 %	646.2 %	475.8 %	39.8 %	4,590.9 %	61.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0001 ppm	0.0029 ppm	0.0014 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	0.0004 ppm	0.0029 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0030 ppm	0.0074 ppm	0.0002 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0010 ppm	-0.0003 ppm	0.0026 ppm	-0.0033 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	0.910 %	1.049 %	5.731 %	0.071 %	0.316 %	-2.482 %	0.001 %
Concentration RSD	200.0 %	376.4 %	7.3 %	386.8 %	115.1 %	61.4 %	201,178.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 1	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	-0.0022 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 3	0.0027 ppm	-0.0006 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-4.273 %	0.111 %	-0.289 %	1.341 %	4.511 %	6.784 %	3.527 %
Concentration RSD	634.2 %	195.3 %	216.4 %	81.4 %	54.2 %	68.3 %	68.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.5179 %	97.3972 %	98.1964 %	96.3664 %	99.4060 %	97.9956 %
Concentration per Run 1	0.0000 ppm	98.1907 %	97.8424 %	98.5264 %	93.8228 %	99.5439 %	98.2756 %
Concentration per Run 2	-0.0001 ppm	99.7056 %	97.3853 %	98.2424 %	96.7748 %	99.5953 %	98.1259 %
Concentration per Run 3	0.0000 ppm	100.6574 %	96.9639 %	97.8203 %	98.5017 %	99.0789 %	97.5854 %
Recovery Percentage 1	-0.288 %						
Concentration RSD	445.9 %	1.3 %	0.5 %	0.4 %	2.5 %	0.3 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICV
Analysis started at: 9/24/2024 9:37:19 AM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5360 ppm	0.5015 ppm	0.5139 ppm	0.5177 ppm	0.4942 ppm	0.5013 ppm	0.4975 ppm
Concentration per Run 1	0.5360 ppm	0.4945 ppm	0.5191 ppm	0.5213 ppm	0.4905 ppm	0.4957 ppm	0.4882 ppm
Concentration per Run 2	0.5352 ppm	0.5042 ppm	0.5127 ppm	0.5167 ppm	0.4983 ppm	0.5064 ppm	0.5034 ppm
Concentration per Run 3	0.5368 ppm	0.5056 ppm	0.5097 ppm	0.5151 ppm	0.4938 ppm	0.5017 ppm	0.5009 ppm
Recovery Percentage 1	107.200 %	100.290 %	102.771 %	103.544 %	98.839 %	100.255 %	99.506 %
Concentration RSD	0.2 %	1.2 %	0.9 %	0.6 %	0.8 %	1.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5248 ppm	0.5371 ppm	0.5294 ppm	0.5224 ppm	0.5171 ppm	5.2171 ppm	0.5067 ppm
Concentration per Run 1	0.5288 ppm	0.5413 ppm	0.5299 ppm	0.5215 ppm	0.5098 ppm	5.1719 ppm	0.5010 ppm
Concentration per Run 2	0.5229 ppm	0.5351 ppm	0.5278 ppm	0.5231 ppm	0.5198 ppm	5.2859 ppm	0.5120 ppm
Concentration per Run 3	0.5226 ppm	0.5349 ppm	0.5304 ppm	0.5225 ppm	0.5217 ppm	5.1935 ppm	0.5070 ppm
Recovery Percentage 1	104.953 %	107.423 %	105.874 %	104.481 %	103.426 %	104.342 %	101.336 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.2 %	1.2 %	1.2 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5255 ppm	0.4978 ppm	0.5290 ppm	10.2084 ppm	0.5320 ppm	0.5300 ppm	0.5283 ppm
Concentration per Run 1	0.5257 ppm	0.4928 ppm	0.5285 ppm	10.1201 ppm	0.5356 ppm	0.5339 ppm	0.5316 ppm
Concentration per Run 2	0.5269 ppm	0.5031 ppm	0.5270 ppm	10.3071 ppm	0.5305 ppm	0.5286 ppm	0.5267 ppm
Concentration per Run 3	0.5240 ppm	0.4976 ppm	0.5315 ppm	10.1979 ppm	0.5298 ppm	0.5274 ppm	0.5268 ppm
Recovery Percentage 1	105.104 %	99.563 %	105.798 %	102.084 %	106.392 %	105.991 %	105.670 %
Concentration RSD	0.3 %	1.0 %	0.4 %	0.9 %	0.6 %	0.6 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5153 ppm	5.9298 ppm	0.5161 ppm	0.4948 ppm	0.5292 ppm	0.5353 ppm	0.5190 ppm
Concentration per Run 1	0.5184 ppm	5.9778 ppm	0.5210 ppm	0.4904 ppm	0.5286 ppm	0.5401 ppm	0.5190 ppm
Concentration per Run 2	0.5140 ppm	5.9126 ppm	0.5128 ppm	0.4990 ppm	0.5285 ppm	0.5336 ppm	0.5184 ppm
Concentration per Run 3	0.5133 ppm	5.8990 ppm	0.5144 ppm	0.4950 ppm	0.5305 ppm	0.5321 ppm	0.5197 ppm
Recovery Percentage 1	103.052 %	112.949 %	103.218 %	98.956 %	105.838 %	107.050 %	103.805 %
Concentration RSD	0.5 %	0.7 %	0.8 %	0.9 %	0.2 %	0.8 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5295 ppm	97.4898 %	96.0242 %	96.5079 %	102.4452 %	99.5743 %	99.9660 %
Concentration per Run 1	0.5343 ppm	99.0129 %	95.6633 %	95.9473 %	103.7720 %	98.7694 %	99.7144 %
Concentration per Run 2	0.5275 ppm	95.8819 %	96.2625 %	96.9929 %	101.0246 %	99.8769 %	100.1979 %
Concentration per Run 3	0.5268 ppm	97.5747 %	96.1468 %	96.5835 %	102.5391 %	100.0767 %	99.9857 %
Recovery Percentage 1	105.902 %						
Concentration RSD	0.8 %	1.6 %	0.3 %	0.5 %	1.3 %	0.7 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICB
Analysis started at: 9/24/2024 9:43:25 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0025 ppm	-0.0018 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0058 ppm	-0.0019 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	-0.0003 ppm	0.0017 ppm	-0.0013 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	-0.0023 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0027 ppm
Recovery Percentage 1	-3.450 %	2.536 %	-36.572 %	3.868 %	0.982 %	1.491 %	-1.672 %
Concentration RSD	87.3 %	117.2 %	28.0 %	48.4 %	83.9 %	44.0 %	52.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0103 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0020 ppm	-0.0112 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0110 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0086 ppm	-0.0004 ppm
Recovery Percentage 1	-0.139 %	-0.519 %	-0.749 %	0.136 %	-0.193 %	-0.411 %	-3.923 %
Concentration RSD	297.8 %	73.2 %	68.3 %	2,552.8 %	1,667.9 %	13.9 %	176.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0031 ppm	0.0000 ppm	0.0025 ppm	-0.0149 ppm	0.0001 ppm	-0.0005 ppm	0.0018 ppm
Concentration per Run 1	-0.0062 ppm	-0.0004 ppm	0.0026 ppm	-0.0255 ppm	0.0002 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 2	-0.0009 ppm	0.0004 ppm	0.0025 ppm	-0.0195 ppm	0.0000 ppm	-0.0007 ppm	0.0027 ppm
Concentration per Run 3	-0.0022 ppm	0.0000 ppm	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0018 ppm
Recovery Percentage 1	-3.112 %	0.085 %	4.965 %	-0.745 %	0.375 %	-5.114 %	3.601 %
Concentration RSD	88.5 %	4,278.8 %	6.8 %	91.1 %	129.6 %	138.0 %	48.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0008 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0025 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	12.574 %	0.106 %	-0.711 %	1.336 %	2.258 %	2.869 %	0.701 %
Concentration RSD	124.8 %	106.9 %	181.3 %	60.5 %	127.0 %	177.3 %	375.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	99.2640 %	97.7379 %	98.2883 %	96.3401 %	99.5735 %	98.1684 %
Concentration per Run 1	-0.0001 ppm	97.9698 %	98.0190 %	98.0077 %	93.8629 %	99.0848 %	98.3008 %
Concentration per Run 2	-0.0001 ppm	99.4153 %	97.5181 %	98.9116 %	96.6973 %	100.2225 %	97.9684 %
Concentration per Run 3	0.0000 ppm	100.4069 %	97.6765 %	97.9458 %	98.4602 %	99.4131 %	98.2360 %
Recovery Percentage 1	-2.054 %						
Concentration RSD	54.4 %	1.2 %	0.3 %	0.6 %	2.4 %	0.6 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/24/2024 9:49:44 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	0.0978 ppm	0.0043 ppm	0.0318 ppm	0.0096 ppm	0.0048 ppm	0.0937 ppm
Concentration per Run 1	0.0047 ppm	0.1005 ppm	0.0043 ppm	0.0314 ppm	0.0100 ppm	0.0049 ppm	0.0995 ppm
Concentration per Run 2	0.0048 ppm	0.0941 ppm	0.0050 ppm	0.0321 ppm	0.0094 ppm	0.0048 ppm	0.0913 ppm
Concentration per Run 3	0.0052 ppm	0.0987 ppm	0.0035 ppm	0.0318 ppm	0.0095 ppm	0.0047 ppm	0.0904 ppm
Recovery Percentage 1	97.936 %	97.786 %	85.024 %	105.849 %	96.127 %	95.964 %	93.740 %
Concentration RSD	5.5 %	3.4 %	17.1 %	1.1 %	3.2 %	1.9 %	5.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0207 ppm	0.0096 ppm	0.0105 ppm	0.0536 ppm	2.5149 ppm	0.0075 ppm
Concentration per Run 1	0.0042 ppm	0.0207 ppm	0.0095 ppm	0.0103 ppm	0.0539 ppm	2.5484 ppm	0.0089 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0097 ppm	0.0106 ppm	0.0543 ppm	2.4871 ppm	0.0059 ppm
Concentration per Run 3	0.0041 ppm	0.0208 ppm	0.0096 ppm	0.0105 ppm	0.0525 ppm	2.5092 ppm	0.0076 ppm
Recovery Percentage 1	102.930 %	103.479 %	96.020 %	104.550 %	107.117 %	100.595 %	74.692 %
Concentration RSD	1.0 %	0.7 %	0.6 %	1.3 %	1.8 %	1.2 %	19.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1039 ppm	0.0100 ppm	0.0532 ppm	1.9782 ppm	0.0198 ppm	0.0111 ppm	0.0516 ppm
Concentration per Run 1	0.1062 ppm	0.0099 ppm	0.0532 ppm	2.0232 ppm	0.0200 ppm	0.0108 ppm	0.0509 ppm
Concentration per Run 2	0.1002 ppm	0.0102 ppm	0.0532 ppm	1.9594 ppm	0.0197 ppm	0.0105 ppm	0.0530 ppm
Concentration per Run 3	0.1054 ppm	0.0098 ppm	0.0531 ppm	1.9518 ppm	0.0196 ppm	0.0119 ppm	0.0509 ppm
Recovery Percentage 1	103.937 %	99.617 %	106.326 %	98.908 %	98.923 %	110.561 %	103.251 %
Concentration RSD	3.1 %	1.8 %	0.2 %	2.0 %	1.1 %	7.0 %	2.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0100 ppm	0.5394 ppm	0.0487 ppm	0.0095 ppm	0.0516 ppm	0.0215 ppm	0.0107 ppm
Concentration per Run 1	0.0086 ppm	0.5418 ppm	0.0487 ppm	0.0097 ppm	0.0519 ppm	0.0217 ppm	0.0106 ppm
Concentration per Run 2	0.0103 ppm	0.5382 ppm	0.0487 ppm	0.0094 ppm	0.0513 ppm	0.0216 ppm	0.0110 ppm
Concentration per Run 3	0.0113 ppm	0.5383 ppm	0.0487 ppm	0.0095 ppm	0.0516 ppm	0.0212 ppm	0.0104 ppm
Recovery Percentage 1	100.424 %	107.889 %	97.400 %	95.236 %	103.151 %	107.421 %	106.687 %
Concentration RSD	13.7 %	0.4 %	0.1 %	1.6 %	0.6 %	1.2 %	2.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0054 ppm	98.3564 %	96.7532 %	97.4468 %	98.2970 %	100.2689 %	99.7615 %
Concentration per Run 1	0.0055 ppm	96.0671 %	96.8899 %	97.4213 %	95.2066 %	100.1296 %	99.6883 %
Concentration per Run 2	0.0054 ppm	98.8392 %	97.2406 %	97.5392 %	98.6318 %	100.5206 %	100.1204 %
Concentration per Run 3	0.0054 ppm	100.1628 %	96.1290 %	97.3799 %	101.0527 %	100.1565 %	99.4756 %
Recovery Percentage 1	108.686 %						
Concentration RSD	0.4 %	2.1 %	0.6 %	0.1 %	3.0 %	0.2 %	0.3 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICSA
Analysis started at: 9/24/2024 10:06:33 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	484.0028 ppm	-0.0059 ppm	-0.0053 ppm	0.0016 ppm	-0.0001 ppm	539.1971 [SIC 1000]
Concentration per Run 1	0.0040 ppm	508.0599 ppm	-0.0091 ppm	-0.0060 ppm	0.0017 ppm	-0.0002 ppm	556.3880 ppm
Concentration per Run 2	0.0021 ppm	477.0258 ppm	-0.0046 ppm	-0.0051 ppm	0.0017 ppm	0.0000 ppm	532.8993 ppm
Concentration per Run 3	0.0024 ppm	466.9228 ppm	-0.0042 ppm	-0.0049 ppm	0.0016 ppm	0.0000 ppm	528.3040 ppm
Recovery Percentage 1	40.587 %	484,002.809 %	-118.912 %	-17.736 %	16.381 %	-1.767 %	539,197.080 %
Concentration RSD	34.7 %	4.4 %	45.3 %	10.4 %	4.0 %	96.9 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0031 ppm	0.0002 ppm	-0.0007 ppm	-0.0091 ppm	179.6320 ppm	-0.0132 ppm	-0.0199 ppm
Concentration per Run 1	0.0031 ppm	-0.0001 ppm	-0.0010 ppm	-0.0096 ppm	186.5615 ppm	0.0003 ppm	-0.0211 ppm
Concentration per Run 2	0.0030 ppm	0.0003 ppm	-0.0008 ppm	-0.0092 ppm	178.3388 ppm	-0.0041 ppm	-0.0190 ppm
Concentration per Run 3	0.0031 ppm	0.0004 ppm	-0.0003 ppm	-0.0086 ppm	173.9958 ppm	-0.0358 ppm	-0.0195 ppm
Recovery Percentage 1	76.502 %	1.087 %	-7.157 %	-91.307 %	359,264.090 %	-0.527 %	-198.699 %
Concentration RSD	2.1 %	121.9 %	46.4 %	5.1 %	3.6 %	149.4 %	5.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	477.3882 ppm	0.0003 ppm	-0.0016 ppm	0.0183 ppm	-0.0076 ppm	-0.0145 ppm	0.0068 ppm
Concentration per Run 1	482.6457 ppm	0.0004 ppm	-0.0019 ppm	0.0114 ppm	-0.0073 ppm	-0.0138 ppm	0.0101 ppm
Concentration per Run 2	482.8202 ppm	0.0004 ppm	-0.0014 ppm	0.0245 ppm	-0.0077 ppm	-0.0158 ppm	0.0054 ppm
Concentration per Run 3	466.6988 ppm	0.0001 ppm	-0.0013 ppm	0.0190 ppm	-0.0078 ppm	-0.0138 ppm	0.0048 ppm
Recovery Percentage 1	477,388.230 %	2.935 %	-3.104 %	0.915 %	-30.363 %	-144.785 %	13.500 %
Concentration RSD	1.9 %	68.9 %	19.2 %	35.9 %	3.7 %	7.8 %	42.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0022 ppm	0.0003 ppm	0.0039 ppm	-0.0010 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 1	-0.0033 ppm	-0.0032 ppm	0.0008 ppm	0.0040 ppm	-0.0007 ppm	0.0027 ppm	-0.0006 ppm
Concentration per Run 2	0.0053 ppm	-0.0026 ppm	0.0006 ppm	0.0038 ppm	-0.0009 ppm	-0.0017 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0009 ppm	-0.0006 ppm	0.0039 ppm	-0.0014 ppm	-0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	7.377 %	-0.446 %	0.583 %	38.842 %	-9.742 %	1.561 %	-6.728 %
Concentration RSD	589.9 %	52.1 %	253.9 %	3.0 %	37.3 %	697.6 %	41.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0011 ppm	90.2627 %	83.4924 %	84.9287 %	96.5835 %	79.6784 %	87.9968 %
Concentration per Run 1	-0.0011 ppm	86.4339 %	82.8062 %	85.0040 %	93.6656 %	79.8291 %	87.3665 %
Concentration per Run 2	-0.0011 ppm	91.6465 %	83.1298 %	84.9266 %	97.8434 %	79.5081 %	87.5820 %
Concentration per Run 3	-0.0010 ppm	92.7078 %	84.5410 %	84.8555 %	98.2414 %	79.6981 %	89.0419 %
Recovery Percentage 1	-21.111 %						
Concentration RSD	6.6 %	3.7 %	1.1 %	0.1 %	2.6 %	0.2 %	1.0 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: xLDR 400 Fe Fail
Analysis started at: 9/24/2024 10:13:16 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.0469 ppm	-0.0058 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0384 ppm
Concentration per Run 1	0.0051 ppm	0.0391 ppm	-0.0065 ppm	0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0364 ppm
Concentration per Run 2	0.0055 ppm	0.0622 ppm	-0.0048 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0493 ppm
Concentration per Run 3	0.0053 ppm	0.0392 ppm	-0.0063 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0296 ppm
Concentration RSD	3.0 %	28.4 %	16.0 %	51.1 %	36.4 %	391.6 %	26.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0027 ppm	-0.0006 ppm	-0.0015 ppm	-0.0227 ppm	356.5900 [SIC 500]	-0.0626 ppm	-0.0020 ppm
Concentration per Run 1	0.0027 ppm	-0.0007 ppm	-0.0013 ppm	-0.0224 ppm	362.0132 ppm	-0.0332 ppm	-0.0025 ppm
Concentration per Run 2	0.0027 ppm	-0.0005 ppm	-0.0017 ppm	-0.0227 ppm	358.2177 ppm	-0.0363 ppm	-0.0017 ppm
Concentration per Run 3	0.0029 ppm	-0.0006 ppm	-0.0014 ppm	-0.0231 ppm	349.5392 ppm	-0.1184 ppm	-0.0017 ppm
Concentration RSD	4.5 %	16.3 %	13.0 %	1.6 %	1.8 %	77.1 %	22.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	-0.0003 ppm	-0.0039 ppm	-0.0076 ppm	-0.0102 ppm	0.0025 ppm	0.0083 ppm
Concentration per Run 1	0.0009 ppm	-0.0008 ppm	-0.0039 ppm	-0.0114 ppm	-0.0100 ppm	0.0022 ppm	0.0080 ppm
Concentration per Run 2	-0.0015 ppm	-0.0002 ppm	-0.0042 ppm	-0.0122 ppm	-0.0103 ppm	0.0020 ppm	0.0091 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0035 ppm	0.0009 ppm	-0.0103 ppm	0.0032 ppm	0.0079 ppm
Concentration RSD	562.3 %	193.2 %	9.3 %	96.5 %	1.7 %	25.4 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0026 ppm	0.0008 ppm	0.0004 ppm	-0.0001 ppm	0.0055 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0028 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0054 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0027 ppm	0.0009 ppm	0.0004 ppm	-0.0003 ppm	0.0050 ppm	-0.0004 ppm
Concentration per Run 3	0.0018 ppm	0.0023 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0060 ppm	0.0001 ppm
Concentration RSD	294.0 %	10.1 %	36.8 %	4.0 %	343.8 %	9.7 %	164.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0012 ppm	99.8099 %	95.4144 %	95.8618 %	106.0597 %	98.1666 %	100.7255 %
Concentration per Run 1	-0.0012 ppm	98.9075 %	95.3968 %	95.1912 %	104.8637 %	97.4960 %	100.6903 %
Concentration per Run 2	-0.0013 ppm	99.7537 %	95.3899 %	96.3433 %	105.9216 %	98.6080 %	100.9009 %
Concentration per Run 3	-0.0010 ppm	100.7687 %	95.4565 %	96.0510 %	107.3939 %	98.3959 %	100.5851 %
Concentration RSD	12.9 %	0.9 %	0.0 %	0.6 %	1.2 %	0.6 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 800 Ca pass
Analysis started at: 9/24/2024 10:19:39 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0315 ppm	-0.0007 ppm	0.0036 ppm	0.0006 ppm	-0.0001 ppm	729.6285 [SIC 1000]
Concentration per Run 1	-0.0003 ppm	0.0345 ppm	-0.0011 ppm	0.0040 ppm	0.0007 ppm	-0.0001 ppm	745.5610 ppm
Concentration per Run 2	-0.0008 ppm	0.0368 ppm	-0.0013 ppm	0.0037 ppm	0.0005 ppm	-0.0001 ppm	728.2433 ppm
Concentration per Run 3	-0.0006 ppm	0.0232 ppm	0.0002 ppm	0.0032 ppm	0.0007 ppm	-0.0001 ppm	715.0812 ppm
Concentration RSD	37.0 %	23.1 %	117.4 %	11.5 %	12.9 %	23.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.1512 ppm	0.0051 ppm	-0.0226 ppm
Concentration per Run 1	0.0041 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.1466 ppm	0.0301 ppm	-0.0214 ppm
Concentration per Run 2	0.0041 ppm	0.0004 ppm	0.0003 ppm	0.0011 ppm	0.1431 ppm	0.0308 ppm	-0.0219 ppm
Concentration per Run 3	0.0041 ppm	0.0004 ppm	0.0005 ppm	0.0009 ppm	0.1639 ppm	-0.0455 ppm	-0.0246 ppm
Concentration RSD	0.5 %	20.7 %	153.5 %	30.9 %	7.4 %	856.4 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0127 ppm	0.0001 ppm	0.0000 ppm	0.0099 ppm	-0.0002 ppm	-0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.0117 ppm	0.0002 ppm	0.0000 ppm	0.0026 ppm	-0.0005 ppm	-0.0009 ppm	-0.0011 ppm
Concentration per Run 2	0.0128 ppm	-0.0001 ppm	0.0001 ppm	0.0201 ppm	-0.0007 ppm	0.0005 ppm	-0.0023 ppm
Concentration per Run 3	0.0136 ppm	0.0004 ppm	0.0000 ppm	0.0070 ppm	0.0005 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	7.4 %	192.4 %	166.5 %	91.6 %	277.1 %	334.8 %	119.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0034 ppm	-0.0002 ppm	0.0049 ppm	-0.0031 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 1	-0.0005 ppm	0.0039 ppm	-0.0005 ppm	0.0049 ppm	-0.0029 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0032 ppm	0.0027 ppm	0.0003 ppm	0.0048 ppm	-0.0031 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	0.0023 ppm	0.0037 ppm	-0.0003 ppm	0.0049 ppm	-0.0033 ppm	0.0018 ppm	0.0008 ppm
Concentration RSD	569.4 %	18.9 %	242.7 %	1.3 %	6.4 %	100.1 %	68.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	93.2231 %	87.4243 %	87.9668 %	94.3997 %	83.6718 %	89.4493 %
Concentration per Run 1	0.0024 ppm	92.2470 %	88.0725 %	87.6786 %	92.7175 %	83.2959 %	90.0959 %
Concentration per Run 2	0.0024 ppm	93.2192 %	87.2539 %	88.3169 %	94.4724 %	84.0428 %	89.1521 %
Concentration per Run 3	0.0023 ppm	94.2030 %	86.9467 %	87.9048 %	96.0092 %	83.6767 %	89.1000 %
Concentration RSD	2.8 %	1.0 %	0.7 %	0.4 %	1.7 %	0.4 %	0.6 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: SIC Multi
Analysis started at: 9/24/2024 10:37:57 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0068 ppm	-0.0004 ppm	0.0095 ppm	0.0009 ppm	0.0036 ppm	0.0085 ppm
Concentration per Run 1	-0.0002 ppm	0.0065 ppm	-0.0014 ppm	0.0092 ppm	0.0009 ppm	0.0037 ppm	0.0120 ppm
Concentration per Run 2	-0.0005 ppm	0.0050 ppm	-0.0011 ppm	0.0099 ppm	0.0009 ppm	0.0036 ppm	0.0076 ppm
Concentration per Run 3	0.0000 ppm	0.0088 ppm	0.0013 ppm	0.0094 ppm	0.0010 ppm	0.0035 ppm	0.0060 ppm
Recovery Percentage 1	-3.231 %	6.785 %	-7.464 %	31.611 %	9.220 %	71.921 %	8.501 %
Concentration RSD	103.0 %	28.5 %	392.2 %	3.6 %	4.2 %	3.0 %	36.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0007 ppm	20.5562 ppm	-0.0102 ppm	-0.0756 ppm	-0.0184 ppm	-0.0004 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	20.6178 ppm	-0.0102 ppm	-0.0762 ppm	-0.0227 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	20.5841 ppm	-0.0105 ppm	-0.0759 ppm	-0.0081 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	20.4668 ppm	-0.0098 ppm	-0.0747 ppm	-0.0245 ppm	-0.0009 ppm
Recovery Percentage 1	-3.544 %	3.528 %	205,562.295 %	-101.550 %	-151.226 %	-0.737 %	-3.844 %
Concentration RSD	17.7 %	22.4 %	0.4 %	3.7 %	1.0 %	48.8 %	186.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0034 ppm	19.1206 ppm	0.0018 ppm	0.0323 ppm	-0.0002 ppm	0.0054 ppm	0.0173 ppm
Concentration per Run 1	-0.0008 ppm	19.0538 ppm	0.0022 ppm	0.0235 ppm	-0.0001 ppm	0.0060 ppm	0.0160 ppm
Concentration per Run 2	-0.0047 ppm	19.0421 ppm	0.0016 ppm	0.0377 ppm	-0.0005 ppm	0.0052 ppm	0.0196 ppm
Concentration per Run 3	-0.0046 ppm	19.2661 ppm	0.0016 ppm	0.0357 ppm	0.0001 ppm	0.0050 ppm	0.0163 ppm
Recovery Percentage 1	-3.390 %	191,206.498 %	3.653 %	1.614 %	-0.652 %	54.144 %	34.562 %
Concentration RSD	66.2 %	0.7 %	18.4 %	23.9 %	167.2 %	10.4 %	11.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	0.0484 ppm	-0.0005 ppm	0.0004 ppm	19.8651 ppm	0.0098 ppm	10.1056 [SIC 10]
Concentration per Run 1	0.0033 ppm	0.0493 ppm	0.0002 ppm	0.0004 ppm	19.8730 ppm	0.0115 ppm	10.0857 ppm
Concentration per Run 2	0.0005 ppm	0.0490 ppm	-0.0010 ppm	0.0005 ppm	19.9464 ppm	0.0103 ppm	10.1260 ppm
Concentration per Run 3	0.0021 ppm	0.0468 ppm	-0.0008 ppm	0.0002 ppm	19.7761 ppm	0.0075 ppm	10.1052 ppm
Recovery Percentage 1	19.745 %	9.674 %	-1.090 %	3.754 %	198,651.403 %	48.784 %	101,056.116 %
Concentration RSD	72.6 %	2.8 %	119.7 %	35.1 %	0.4 %	21.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0051 ppm	101.3196 %	97.5728 %	98.9881 %	109.5324 %	101.5591 %	101.2584 %
Concentration per Run 1	-0.0050 ppm	101.2239 %	97.7122 %	99.1236 %	110.8230 %	101.6621 %	101.3011 %
Concentration per Run 2	-0.0052 ppm	101.3583 %	97.0503 %	98.9052 %	108.9535 %	101.5416 %	100.7507 %
Concentration per Run 3	-0.0051 ppm	101.3767 %	97.9557 %	98.9355 %	108.8207 %	101.4735 %	101.7232 %
Recovery Percentage 1	-101.477 %						
Concentration RSD	1.7 %	0.1 %	0.5 %	0.1 %	1.0 %	0.1 %	0.5 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: IEC 500 AI
Analysis started at: 9/24/2024 10:44:39 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	449.7344 ppm	0.0024 ppm	-0.0089 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0002 ppm	449.6701 ppm	-0.0003 ppm	-0.0091 ppm	0.0001 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	-0.0006 ppm	448.3745 ppm	0.0036 ppm	-0.0091 ppm	-0.0003 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 3	-0.0001 ppm	451.1587 ppm	0.0038 ppm	-0.0084 ppm	0.0003 ppm	0.0000 ppm	0.0066 ppm
Recovery Percentage 1	-2.721 %	449,734.423 %	47.569 %	-29.668 %	0.434 %	0.822 %	6.449 %
Concentration RSD	210.9 %	0.3 %	96.8 %	4.5 %	674.8 %	82.8 %	35.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0023 ppm	0.0002 ppm	-0.0045 ppm	-0.0069 ppm	-0.0035 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0028 ppm	-0.0001 ppm	-0.0039 ppm	0.0081 ppm	-0.0021 ppm
Concentration per Run 2	-0.0010 ppm	0.0000 ppm	0.0022 ppm	0.0003 ppm	-0.0046 ppm	-0.0245 ppm	-0.0045 ppm
Concentration per Run 3	-0.0010 ppm	-0.0001 ppm	0.0021 ppm	0.0005 ppm	-0.0050 ppm	-0.0043 ppm	-0.0040 ppm
Recovery Percentage 1	-24.916 %	-0.017 %	23.398 %	2.264 %	-9.041 %	-0.277 %	-35.212 %
Concentration RSD	2.9 %	4,226.3 %	17.1 %	152.4 %	12.3 %	237.2 %	36.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0030 ppm	0.0030 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 1	-0.0013 ppm	0.0025 ppm	0.0003 ppm	-0.0038 ppm	0.0006 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 2	-0.0045 ppm	0.0033 ppm	-0.0003 ppm	-0.0010 ppm	0.0003 ppm	0.0014 ppm	0.0061 ppm
Concentration per Run 3	-0.0033 ppm	0.0033 ppm	-0.0003 ppm	0.0052 ppm	0.0010 ppm	-0.0016 ppm	0.0047 ppm
Recovery Percentage 1	-3.035 %	30.337 %	-0.177 %	0.007 %	2.565 %	-0.183 %	9.855 %
Concentration RSD	52.7 %	15.2 %	401.7 %	3,353.2 %	49.3 %	8,165.2 %	21.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0046 ppm	0.0140 ppm	-0.0008 ppm	0.0002 ppm	0.0057 ppm	-0.0029 ppm	0.0020 ppm
Concentration per Run 1	0.0063 ppm	0.0149 ppm	-0.0014 ppm	0.0001 ppm	0.0061 ppm	-0.0029 ppm	0.0019 ppm
Concentration per Run 2	0.0038 ppm	0.0130 ppm	-0.0006 ppm	0.0002 ppm	0.0054 ppm	-0.0041 ppm	0.0021 ppm
Concentration per Run 3	0.0037 ppm	0.0141 ppm	-0.0005 ppm	0.0002 ppm	0.0055 ppm	-0.0016 ppm	0.0019 ppm
Recovery Percentage 1	45.895 %	2.809 %	-1.675 %	1.588 %	56.773 %	-14.414 %	19.655 %
Concentration RSD	31.8 %	6.8 %	59.9 %	38.2 %	6.5 %	43.7 %	5.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0007 ppm	100.5804 %	90.4753 %	96.5643 %	101.4513 %	93.7732 %	94.0261 %
Concentration per Run 1	-0.0009 ppm	100.3829 %	90.4453 %	96.6437 %	99.7151 %	93.4661 %	93.9920 %
Concentration per Run 2	-0.0006 ppm	100.5410 %	90.4527 %	96.2915 %	101.2232 %	93.7610 %	93.9612 %
Concentration per Run 3	-0.0006 ppm	100.8174 %	90.5279 %	96.7578 %	103.4157 %	94.0924 %	94.1250 %
Recovery Percentage 1	-14.338 %						
Concentration RSD	21.5 %	0.2 %	0.1 %	0.3 %	1.8 %	0.3 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR Check
Analysis started at: 9/24/2024 10:50:57 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.1293 ppm	20.8003 ppm	23.8130 [SIC 20]	18.3446 ppm	4.7111 ppm	0.0343 ppm
Concentration per Run 1	0.0025 ppm	0.1123 ppm	20.8033 ppm	23.8166 ppm	18.4500 ppm	4.7105 ppm	0.0319 ppm
Concentration per Run 2	0.0026 ppm	0.1368 ppm	20.8118 ppm	23.8327 ppm	18.3687 ppm	4.7633 ppm	0.0339 ppm
Concentration per Run 3	0.0030 ppm	0.1386 ppm	20.7858 ppm	23.7896 ppm	18.2149 ppm	4.6593 ppm	0.0370 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.001 %	119.065 %	91.723 %	94.221 %	0.000 %
Concentration RSD	9.8 %	11.4 %	0.1 %	0.1 %	0.7 %	1.1 %	7.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9171 ppm	4.9209 ppm	-0.0012 ppm	19.9107 ppm	0.0205 ppm	419.5183 ppm	17.3239 ppm
Concentration per Run 1	4.9137 ppm	4.9190 ppm	-0.0014 ppm	20.0410 ppm	0.0196 ppm	424.9133 ppm	17.4494 ppm
Concentration per Run 2	4.9247 ppm	4.9269 ppm	-0.0012 ppm	19.7256 ppm	0.0219 ppm	419.2720 ppm	17.3452 ppm
Concentration per Run 3	4.9130 ppm	4.9168 ppm	-0.0010 ppm	19.9654 ppm	0.0200 ppm	414.3697 ppm	17.1771 ppm
Recovery Percentage 1	98.343 %	98.418 %	0.000 %	99.553 %	0.000 %	83.904 %	86.620 %
Concentration RSD	0.1 %	0.1 %	15.0 %	0.8 %	6.0 %	1.3 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0391 ppm	0.0007 ppm	5.2072 [SIC 20]	398.5535 [SIC 500]	9.5038 ppm	47.1534 ppm	5.1125 ppm
Concentration per Run 1	-0.0353 ppm	0.0009 ppm	5.1746 ppm	400.9624 ppm	9.5025 ppm	47.1674 ppm	5.1091 ppm
Concentration per Run 2	-0.0406 ppm	0.0005 ppm	5.2168 ppm	401.2204 ppm	9.5168 ppm	47.2206 ppm	5.1151 ppm
Concentration per Run 3	-0.0413 ppm	0.0007 ppm	5.2301 ppm	393.4778 ppm	9.4921 ppm	47.0721 ppm	5.1132 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.143 %	79.711 %	95.038 %	94.307 %	102.249 %
Concentration RSD	8.4 %	25.7 %	0.6 %	1.1 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8229 ppm	21.4929 ppm	9.3003 ppm	4.5488 ppm	0.0055 ppm	4.5038 ppm	-0.0023 ppm
Concentration per Run 1	4.8215 ppm	21.4827 ppm	9.3016 ppm	4.5715 ppm	0.0056 ppm	4.4998 ppm	-0.0023 ppm
Concentration per Run 2	4.8264 ppm	21.5138 ppm	9.3170 ppm	4.5660 ppm	0.0055 ppm	4.5067 ppm	-0.0026 ppm
Concentration per Run 3	4.8208 ppm	21.4824 ppm	9.2824 ppm	4.5088 ppm	0.0055 ppm	4.5048 ppm	-0.0021 ppm
Recovery Percentage 1	96.458 %	107.465 %	93.003 %	90.975 %	0.000 %	90.075 %	0.000 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.8 %	0.9 %	0.1 %	10.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.6711 ppm	94.6688 %	86.7843 %	78.9861 %	100.4655 %	91.0039 %	90.3506 %
Concentration per Run 1	19.6680 ppm	94.7252 %	85.8894 %	78.9403 %	101.0198 %	91.0852 %	89.4207 %
Concentration per Run 2	19.7077 ppm	94.1232 %	88.1466 %	78.5673 %	100.0550 %	90.5676 %	91.6526 %
Concentration per Run 3	19.6378 ppm	95.1581 %	86.3170 %	79.4506 %	100.3217 %	91.3588 %	89.9784 %
Recovery Percentage 1	98.356 %						
Concentration RSD	0.2 %	0.5 %	1.4 %	0.6 %	0.5 %	0.4 %	1.3 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 200 K Pass
Analysis started at: 9/24/2024 11:05:28 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0024 ppm	0.0032 ppm	0.0115 ppm	0.0004 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	-0.0004 ppm	-0.0048 ppm	0.0046 ppm	0.0125 ppm	0.0004 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0004 ppm	-0.0067 ppm	0.0027 ppm	0.0112 ppm	0.0003 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 3	0.0004 ppm	0.0044 ppm	0.0022 ppm	0.0106 ppm	0.0005 ppm	0.0001 ppm	0.0049 ppm
Concentration RSD	323.1 %	248.2 %	40.4 %	8.2 %	24.0 %	188.9 %	62.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	-0.0005 ppm	182.5306 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0018 ppm	183.0270 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	-0.0021 ppm	182.7976 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0007 ppm	-0.0013 ppm	181.7670 ppm	-0.0032 ppm
Concentration RSD	2,041.2 %	239.3 %	485.8 %	19.3 %	388.3 %	0.4 %	76.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0017 ppm	0.0001 ppm	0.0019 ppm	0.0177 ppm	-0.0002 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 1	0.0019 ppm	-0.0001 ppm	0.0023 ppm	0.0270 ppm	-0.0004 ppm	0.0007 ppm	0.0035 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	0.0018 ppm	0.0170 ppm	-0.0006 ppm	0.0004 ppm	0.0020 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0017 ppm	0.0091 ppm	0.0004 ppm	-0.0004 ppm	0.0015 ppm
Concentration RSD	46.2 %	225.9 %	17.2 %	50.9 %	241.3 %	221.2 %	42.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.0033 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm
Concentration per Run 1	0.0016 ppm	0.0034 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0024 ppm	0.0007 ppm
Concentration per Run 2	-0.0002 ppm	0.0030 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	0.0010 ppm
Concentration per Run 3	0.0016 ppm	0.0036 ppm	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0004 ppm
Concentration RSD	106.3 %	8.2 %	146.6 %	160.5 %	134.4 %	46.6 %	45.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.3881 %	93.3024 %	94.5830 %	97.0457 %	95.2985 %	95.9181 %
Concentration per Run 1	0.0004 ppm	97.5385 %	93.8416 %	94.2381 %	95.8632 %	94.6930 %	96.4883 %
Concentration per Run 2	0.0003 ppm	95.9989 %	93.4197 %	95.0218 %	95.9569 %	95.9883 %	96.0149 %
Concentration per Run 3	0.0003 ppm	98.6270 %	92.6460 %	94.4890 %	99.3171 %	95.2143 %	95.2510 %
Concentration RSD	16.5 %	1.4 %	0.6 %	0.4 %	2.0 %	0.7 %	0.7 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 200 Na Pass
Analysis started at: 9/24/2024 11:11:45 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0016 ppm	0.0060 ppm	0.0001 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0059 ppm	0.0000 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 2	-0.0005 ppm	-0.0006 ppm	0.0012 ppm	0.0058 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 3	-0.0006 ppm	0.0010 ppm	0.0019 ppm	0.0064 ppm	0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration RSD	95.6 %	467.4 %	23.0 %	5.1 %	189.2 %	156.3 %	36.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.4941 ppm	-0.0027 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm	0.6415 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.4694 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0015 ppm	0.3714 ppm	-0.0028 ppm
Concentration RSD	133.9 %	152.1 %	31.6 %	56.8 %	14,441.1 %	27.7 %	10.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0001 ppm	0.0011 ppm	173.8722 ppm	-0.0004 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 1	0.0030 ppm	0.0005 ppm	0.0011 ppm	175.3594 ppm	-0.0002 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0012 ppm	172.3513 ppm	-0.0004 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 3	0.0008 ppm	-0.0001 ppm	0.0010 ppm	173.9058 ppm	-0.0005 ppm	-0.0011 ppm	0.0016 ppm
Concentration RSD	99.4 %	397.4 %	11.4 %	0.9 %	30.5 %	173.1 %	134.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0040 ppm	-0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0043 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.0037 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0040 ppm	-0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0020 ppm	0.0000 ppm
Concentration RSD	916.4 %	7.9 %	103.0 %	202.0 %	158.6 %	90.4 %	122.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	95.7075 %	91.3182 %	93.8118 %	93.8634 %	93.6559 %	93.8853 %
Concentration per Run 1	0.0003 ppm	95.6506 %	92.2020 %	94.3420 %	91.3510 %	93.7382 %	94.6948 %
Concentration per Run 2	0.0003 ppm	95.9197 %	91.1931 %	93.5473 %	94.1307 %	93.4958 %	93.6782 %
Concentration per Run 3	0.0002 ppm	95.5522 %	90.5594 %	93.5461 %	96.1086 %	93.7338 %	93.2828 %
Concentration RSD	22.4 %	0.2 %	0.9 %	0.5 %	2.5 %	0.1 %	0.8 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: LDR 20 B Pass
Analysis started at: 9/24/2024 11:24:31 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0011 ppm	0.0014 ppm	18.8013 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0004 ppm	-0.0052 ppm	0.0017 ppm	18.8705 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	0.0000 ppm	-0.0019 ppm	0.0013 ppm	18.7788 ppm	0.0001 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 3	0.0006 ppm	0.0104 ppm	0.0013 ppm	18.7547 ppm	0.0002 ppm	0.0000 ppm	0.0050 ppm
Concentration RSD	101.4 %	747.9 %	16.6 %	0.3 %	71.0 %	125.9 %	39.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0097 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0406 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0119 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0022 ppm	-0.0233 ppm	-0.0009 ppm
Concentration RSD	995.7 %	28.5 %	28.6 %	61.1 %	124.4 %	329.2 %	564.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0021 ppm	0.0001 ppm	0.0005 ppm	0.0890 ppm	0.0004 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.0022 ppm	0.0000 ppm	0.0004 ppm	0.0864 ppm	0.0006 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	0.0026 ppm	-0.0001 ppm	0.0005 ppm	0.1034 ppm	0.0002 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0017 ppm	0.0003 ppm	0.0005 ppm	0.0771 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Concentration RSD	20.2 %	320.6 %	7.3 %	15.0 %	65.4 %	88.8 %	59.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	0.0032 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.0009 ppm	0.0025 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0021 ppm	0.0033 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0019 ppm	0.0006 ppm
Concentration per Run 3	-0.0011 ppm	0.0037 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm	0.0002 ppm
Concentration RSD	191.2 %	20.6 %	245.6 %	28.4 %	9,011.9 %	66.1 %	116.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	102.0617 %	99.4966 %	100.6635 %	100.8462 %	102.1692 %	100.8321 %
Concentration per Run 1	0.0005 ppm	100.3359 %	99.6723 %	100.3693 %	98.1622 %	101.5227 %	100.9321 %
Concentration per Run 2	0.0005 ppm	102.9060 %	99.7473 %	101.1747 %	101.7148 %	102.7229 %	101.0043 %
Concentration per Run 3	0.0006 ppm	102.9431 %	99.0702 %	100.4464 %	102.6615 %	102.2621 %	100.5598 %
Concentration RSD	11.5 %	1.5 %	0.4 %	0.4 %	2.4 %	0.6 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:31:27 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5456 ppm	0.4983 ppm	0.5184 ppm	0.5448 ppm	0.4841 ppm	0.4957 ppm	0.4895 ppm
Concentration per Run 1	0.5460 ppm	0.4765 ppm	0.5179 ppm	0.5451 ppm	0.4634 ppm	0.4740 ppm	0.4618 ppm
Concentration per Run 2	0.5457 ppm	0.4945 ppm	0.5184 ppm	0.5468 ppm	0.4900 ppm	0.5024 ppm	0.4993 ppm
Concentration per Run 3	0.5452 ppm	0.5239 ppm	0.5188 ppm	0.5426 ppm	0.4988 ppm	0.5107 ppm	0.5074 ppm
Recovery Percentage 1	109.129 %	99.655 %	103.672 %	108.966 %	96.815 %	99.140 %	97.898 %
Concentration RSD	0.1 %	4.8 %	0.1 %	0.4 %	3.8 %	3.9 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5263 ppm	0.5372 ppm	0.5371 ppm	0.5272 ppm	0.5129 ppm	5.1221 ppm	0.4952 ppm
Concentration per Run 1	0.5238 ppm	0.5345 ppm	0.5378 ppm	0.5277 ppm	0.4886 ppm	4.8873 ppm	0.4731 ppm
Concentration per Run 2	0.5280 ppm	0.5390 ppm	0.5375 ppm	0.5277 ppm	0.5172 ppm	5.2126 ppm	0.5035 ppm
Concentration per Run 3	0.5272 ppm	0.5382 ppm	0.5359 ppm	0.5262 ppm	0.5328 ppm	5.2664 ppm	0.5090 ppm
Recovery Percentage 1	105.268 %	107.445 %	107.415 %	105.438 %	102.570 %	102.442 %	99.035 %
Concentration RSD	0.4 %	0.4 %	0.2 %	0.2 %	4.4 %	4.0 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5376 ppm	0.4916 ppm	0.5281 ppm	10.0020 ppm	0.5357 ppm	0.5336 ppm	0.5338 ppm
Concentration per Run 1	0.5385 ppm	0.4694 ppm	0.5205 ppm	9.5673 ppm	0.5335 ppm	0.5326 ppm	0.5329 ppm
Concentration per Run 2	0.5363 ppm	0.4980 ppm	0.5302 ppm	10.1363 ppm	0.5372 ppm	0.5346 ppm	0.5346 ppm
Concentration per Run 3	0.5381 ppm	0.5074 ppm	0.5337 ppm	10.3026 ppm	0.5364 ppm	0.5335 ppm	0.5338 ppm
Recovery Percentage 1	107.525 %	98.318 %	105.628 %	100.020 %	107.141 %	106.711 %	106.750 %
Concentration RSD	0.2 %	4.0 %	1.3 %	3.9 %	0.4 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5198 ppm	5.9748 ppm	0.5208 ppm	0.4864 ppm	0.5385 ppm	0.5348 ppm	0.5261 ppm
Concentration per Run 1	0.5171 ppm	5.9489 ppm	0.5176 ppm	0.4649 ppm	0.5381 ppm	0.5312 ppm	0.5253 ppm
Concentration per Run 2	0.5234 ppm	5.9942 ppm	0.5229 ppm	0.4936 ppm	0.5392 ppm	0.5381 ppm	0.5270 ppm
Concentration per Run 3	0.5188 ppm	5.9814 ppm	0.5220 ppm	0.5006 ppm	0.5381 ppm	0.5350 ppm	0.5259 ppm
Recovery Percentage 1	103.956 %	113.806 %	104.166 %	97.276 %	107.691 %	106.958 %	105.218 %
Concentration RSD	0.6 %	0.4 %	0.5 %	3.9 %	0.1 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5328 ppm	100.0804 %	95.6921 %	97.4529 %	104.4312 %	100.1917 %	99.1915 %
Concentration per Run 1	0.5298 ppm	103.8960 %	96.1420 %	98.0393 %	106.8595 %	100.6837 %	99.5498 %
Concentration per Run 2	0.5346 ppm	99.2285 %	95.2842 %	97.2264 %	104.1277 %	99.8825 %	98.7342 %
Concentration per Run 3	0.5340 ppm	97.1166 %	95.6500 %	97.0930 %	102.3065 %	100.0089 %	99.2906 %
Recovery Percentage 1	106.562 %						
Concentration RSD	0.5 %	3.5 %	0.4 %	0.5 %	2.2 %	0.4 %	0.4 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:37:29 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0055 ppm	-0.0007 ppm	0.0116 ppm	0.0004 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 1	0.0001 ppm	-0.0081 ppm	-0.0016 ppm	0.0124 ppm	0.0009 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 2	0.0003 ppm	-0.0107 ppm	-0.0013 ppm	0.0114 ppm	0.0002 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0111 ppm	0.0001 ppm	0.0001 ppm	-0.0039 ppm
Recovery Percentage 1	1.403 %	-5.531 %	-13.058 %	38.814 %	3.716 %	4.389 %	-3.029 %
Concentration RSD	164.3 %	124.1 %	209.4 %	5.8 %	116.4 %	61.8 %	26.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0127 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm	-0.0053 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0327 ppm	-0.0004 ppm
Recovery Percentage 1	-0.364 %	-0.714 %	2.296 %	1.276 %	0.371 %	-0.509 %	-16.602 %
Concentration RSD	338.4 %	56.3 %	120.0 %	135.2 %	376.4 %	137.2 %	105.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.0094 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0024 ppm	0.0148 ppm	0.0001 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	0.0018 ppm	0.0164 ppm	0.0003 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	0.0015 ppm	-0.0029 ppm	0.0001 ppm	0.0009 ppm	0.0006 ppm
Recovery Percentage 1	-0.045 %	2.390 %	3.834 %	0.472 %	0.503 %	3.309 %	3.389 %
Concentration RSD	2,213.5 %	21.8 %	23.0 %	113.2 %	90.9 %	157.7 %	55.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0018 ppm	0.0010 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage 1	6.984 %	0.128 %	-0.212 %	3.177 %	2.461 %	6.680 %	1.604 %
Concentration RSD	151.9 %	47.8 %	184.7 %	50.9 %	75.1 %	17.6 %	141.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	102.1195 %	97.3885 %	98.9122 %	98.4848 %	99.9368 %	98.0323 %
Concentration per Run 1	0.0000 ppm	99.8463 %	97.5066 %	99.4215 %	94.5645 %	100.2901 %	97.9139 %
Concentration per Run 2	-0.0001 ppm	103.5533 %	96.9655 %	98.5132 %	99.6283 %	99.4467 %	97.7153 %
Concentration per Run 3	-0.0002 ppm	102.9590 %	97.6935 %	98.8020 %	101.2616 %	100.0737 %	98.4679 %
Recovery Percentage 1	-1.975 %						
Concentration RSD	60.1 %	1.9 %	0.4 %	0.5 %	3.5 %	0.4 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:45:43 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5106 ppm	0.4778 ppm	0.4928 ppm	0.4959 ppm	0.4765 ppm	0.4906 ppm	0.4833 ppm
Concentration per Run 1	0.5115 ppm	0.4842 ppm	0.4953 ppm	0.4982 ppm	0.4911 ppm	0.5054 ppm	0.4971 ppm
Concentration per Run 2	0.5108 ppm	0.4694 ppm	0.4922 ppm	0.4969 ppm	0.4706 ppm	0.4849 ppm	0.4838 ppm
Concentration per Run 3	0.5094 ppm	0.4800 ppm	0.4909 ppm	0.4925 ppm	0.4677 ppm	0.4814 ppm	0.4691 ppm
Recovery Percentage 1	102.116 %	95.569 %	98.557 %	99.177 %	95.293 %	98.110 %	96.662 %
Concentration RSD	0.2 %	1.6 %	0.5 %	0.6 %	2.7 %	2.6 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4995 ppm	0.5101 ppm	0.5026 ppm	0.4974 ppm	0.4931 ppm	5.0943 ppm	0.4811 ppm
Concentration per Run 1	0.5022 ppm	0.5129 ppm	0.5050 ppm	0.4981 ppm	0.5054 ppm	5.2520 ppm	0.4959 ppm
Concentration per Run 2	0.4999 ppm	0.5109 ppm	0.5018 ppm	0.4980 ppm	0.4890 ppm	5.0638 ppm	0.4779 ppm
Concentration per Run 3	0.4962 ppm	0.5066 ppm	0.5010 ppm	0.4962 ppm	0.4849 ppm	4.9670 ppm	0.4697 ppm
Recovery Percentage 1	99.891 %	102.029 %	100.519 %	99.489 %	98.620 %	101.885 %	96.229 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.2 %	2.2 %	2.8 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4997 ppm	0.4868 ppm	0.5005 ppm	9.8714 ppm	0.5081 ppm	0.5065 ppm	0.5064 ppm
Concentration per Run 1	0.5007 ppm	0.5017 ppm	0.4998 ppm	10.1757 ppm	0.5106 ppm	0.5082 ppm	0.5066 ppm
Concentration per Run 2	0.4997 ppm	0.4810 ppm	0.5008 ppm	9.7674 ppm	0.5085 ppm	0.5063 ppm	0.5092 ppm
Concentration per Run 3	0.4987 ppm	0.4778 ppm	0.5009 ppm	9.6709 ppm	0.5052 ppm	0.5049 ppm	0.5035 ppm
Recovery Percentage 1	99.938 %	97.367 %	100.101 %	98.714 %	101.622 %	101.300 %	101.288 %
Concentration RSD	0.2 %	2.7 %	0.1 %	2.7 %	0.5 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4952 ppm	5.5262 ppm	0.4814 ppm	0.4731 ppm	0.5051 ppm	0.5068 ppm	0.4950 ppm
Concentration per Run 1	0.4987 ppm	5.5494 ppm	0.4839 ppm	0.4878 ppm	0.5059 ppm	0.5082 ppm	0.4954 ppm
Concentration per Run 2	0.4970 ppm	5.5346 ppm	0.4818 ppm	0.4685 ppm	0.5057 ppm	0.5091 ppm	0.4950 ppm
Concentration per Run 3	0.4900 ppm	5.4946 ppm	0.4784 ppm	0.4631 ppm	0.5036 ppm	0.5031 ppm	0.4946 ppm
Recovery Percentage 1	99.049 %	105.261 %	96.274 %	94.625 %	101.012 %	101.365 %	98.997 %
Concentration RSD	0.9 %	0.5 %	0.6 %	2.7 %	0.3 %	0.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5052 ppm	97.5619 %	96.0799 %	97.9099 %	114.8060 %	101.0161 %	101.3963 %
Concentration per Run 1	0.5078 ppm	95.0888 %	95.7431 %	97.6492 %	118.0891 %	100.6374 %	101.5453 %
Concentration per Run 2	0.5056 ppm	98.5503 %	96.2720 %	97.8043 %	114.4453 %	100.9800 %	101.4815 %
Concentration per Run 3	0.5021 ppm	99.0466 %	96.2245 %	98.2762 %	111.8836 %	101.4310 %	101.1623 %
Recovery Percentage 1	101.037 %						
Concentration RSD	0.6 %	2.2 %	0.3 %	0.3 %	2.7 %	0.4 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:51:46 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0014 ppm	-0.0002 ppm	0.0042 ppm	0.0000 ppm	0.0001 ppm	-0.0030 ppm
Concentration per Run 1	-0.0003 ppm	0.0055 ppm	-0.0010 ppm	0.0045 ppm	-0.0001 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 2	-0.0005 ppm	0.0011 ppm	0.0007 ppm	0.0046 ppm	0.0000 ppm	0.0001 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0024 ppm	-0.0005 ppm	0.0036 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm
Recovery Percentage 1	-3.495 %	1.385 %	-4.981 %	14.055 %	-0.183 %	1.100 %	-3.008 %
Concentration RSD	104.9 %	286.6 %	357.5 %	13.5 %	468.6 %	30.6 %	42.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0283 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	-0.0049 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	-0.0270 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0004 ppm	-0.0530 ppm	-0.0013 ppm
Recovery Percentage 1	-0.542 %	0.215 %	0.362 %	0.718 %	-0.573 %	-1.133 %	-19.736 %
Concentration RSD	126.0 %	441.4 %	961.8 %	404.7 %	46.6 %	85.1 %	44.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0023 ppm	-0.0086 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0024 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0025 ppm	-0.0045 ppm	-0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0020 ppm	-0.0218 ppm	-0.0002 ppm	-0.0008 ppm	0.0017 ppm
Recovery Percentage 1	-0.445 %	2.632 %	4.559 %	-0.431 %	-0.160 %	-2.695 %	2.013 %
Concentration RSD	84.0 %	101.0 %	12.4 %	135.7 %	528.0 %	331.0 %	90.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0033 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 2	0.0016 ppm	-0.0006 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0004 ppm
Recovery Percentage 1	15.190 %	0.017 %	-0.784 %	0.653 %	0.938 %	5.825 %	5.285 %
Concentration RSD	119.3 %	807.6 %	78.4 %	133.1 %	197.5 %	91.2 %	25.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	102.1897 %	98.6759 %	99.6296 %	99.5180 %	101.1018 %	98.8760 %
Concentration per Run 1	-0.0002 ppm	101.3038 %	98.5676 %	99.5695 %	97.2566 %	100.7443 %	98.5904 %
Concentration per Run 2	-0.0002 ppm	102.2978 %	98.5757 %	99.6172 %	99.7915 %	101.1588 %	98.6618 %
Concentration per Run 3	-0.0002 ppm	102.9675 %	98.8843 %	99.7022 %	101.5061 %	101.4024 %	99.3758 %
Recovery Percentage 1	-3.541 %						
Concentration RSD	10.8 %	0.8 %	0.2 %	0.1 %	2.1 %	0.3 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-1 WG1975196
Analysis started at: 9/24/2024 12:03:35 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0065 ppm	-0.0004 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 1	0.0005 ppm	-0.0114 ppm	-0.0007 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 2	-0.0003 ppm	-0.0049 ppm	-0.0012 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0030 ppm	0.0007 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0125 ppm
Recovery Percentage 1	1.031 %	-6.452 %	-7.560 %	6.596 %	0.899 %	-0.028 %	8.369 %
Concentration RSD	521.1 %	68.3 %	256.6 %	7.2 %	12.5 %	1,956.5 %	73.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	-0.0029 ppm	-0.0361 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0005 ppm	-0.0035 ppm	-0.0324 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0006 ppm	-0.0014 ppm	-0.0618 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0038 ppm	-0.0142 ppm	-0.0030 ppm
Recovery Percentage 1	0.147 %	-0.533 %	-5.880 %	3.639 %	-5.845 %	-1.445 %	-20.737 %
Concentration RSD	670.5 %	37.7 %	83.3 %	91.8 %	44.8 %	66.5 %	40.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0003 ppm	-0.0097 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0218 ppm	-0.0002 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0088 ppm	-0.0002 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	0.431 %	1.667 %	0.617 %	-0.486 %	-0.865 %	3.074 %	1.670 %
Concentration RSD	156.8 %	59.9 %	102.5 %	119.5 %	21.7 %	109.0 %	63.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.0055 ppm	-0.0011 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0050 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0012 ppm	0.0059 ppm	-0.0013 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	0.0057 ppm	-0.0014 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	10.750 %	1.104 %	-2.184 %	1.218 %	-0.726 %	0.646 %	1.717 %
Concentration RSD	44.9 %	8.9 %	42.7 %	28.1 %	380.0 %	595.3 %	138.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	100.9672 %	100.3772 %	100.9966 %	96.2671 %	101.0856 %	99.6335 %
Concentration per Run 1	0.0002 ppm	97.6105 %	100.1361 %	100.9621 %	91.1846 %	100.7255 %	99.1697 %
Concentration per Run 2	0.0002 ppm	102.6136 %	100.5446 %	101.2368 %	97.6699 %	101.4432 %	99.7917 %
Concentration per Run 3	0.0002 ppm	102.6774 %	100.4507 %	100.7910 %	99.9470 %	101.0881 %	99.9392 %
Recovery Percentage 1	3.487 %						
Concentration RSD	8.3 %	2.9 %	0.2 %	0.2 %	4.7 %	0.4 %	0.4 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-2 WG1975196
Analysis started at: 9/24/2024 12:09:53 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	1.7810 ppm	0.1172 ppm	0.9437 ppm	1.7553 ppm	0.0454 ppm	8.8849 ppm
Concentration per Run 1	0.0510 ppm	1.7653 ppm	0.1157 ppm	0.9453 ppm	1.7526 ppm	0.0454 ppm	8.8576 ppm
Concentration per Run 2	0.0522 ppm	1.7949 ppm	0.1177 ppm	0.9424 ppm	1.7598 ppm	0.0455 ppm	8.9159 ppm
Concentration per Run 3	0.0522 ppm	1.7827 ppm	0.1182 ppm	0.9433 ppm	1.7535 ppm	0.0455 ppm	8.8811 ppm
Concentration RSD	1.3 %	0.8 %	1.1 %	0.2 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0521 ppm	0.4837 ppm	0.1987 ppm	0.2491 ppm	0.8946 ppm	9.2537 ppm	-0.0027 ppm
Concentration per Run 1	0.0521 ppm	0.4841 ppm	0.1992 ppm	0.2495 ppm	0.8920 ppm	9.2301 ppm	-0.0021 ppm
Concentration per Run 2	0.0522 ppm	0.4836 ppm	0.1983 ppm	0.2493 ppm	0.8929 ppm	9.2534 ppm	-0.0046 ppm
Concentration per Run 3	0.0520 ppm	0.4833 ppm	0.1985 ppm	0.2486 ppm	0.8988 ppm	9.2774 ppm	-0.0014 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	0.4 %	0.3 %	62.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8710 ppm	0.4526 ppm	0.8784 ppm	9.0910 ppm	0.4867 ppm	0.5249 ppm	0.4755 ppm
Concentration per Run 1	9.9000 ppm	0.4507 ppm	0.8553 ppm	9.0533 ppm	0.4878 ppm	0.5261 ppm	0.4718 ppm
Concentration per Run 2	9.8673 ppm	0.4540 ppm	0.8797 ppm	9.1061 ppm	0.4860 ppm	0.5237 ppm	0.4768 ppm
Concentration per Run 3	9.8458 ppm	0.4532 ppm	0.9003 ppm	9.1137 ppm	0.4861 ppm	0.5250 ppm	0.4779 ppm
Concentration RSD	0.3 %	0.4 %	2.6 %	0.4 %	0.2 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1160 ppm	0.6963 ppm	0.9161 ppm	0.8513 ppm	0.9906 ppm	0.1171 ppm	0.4887 ppm
Concentration per Run 1	0.1169 ppm	0.6958 ppm	0.9149 ppm	0.8488 ppm	0.9922 ppm	0.1177 ppm	0.4892 ppm
Concentration per Run 2	0.1154 ppm	0.6966 ppm	0.9160 ppm	0.8529 ppm	0.9911 ppm	0.1167 ppm	0.4892 ppm
Concentration per Run 3	0.1157 ppm	0.6965 ppm	0.9173 ppm	0.8522 ppm	0.9885 ppm	0.1171 ppm	0.4877 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %	0.3 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4902 ppm	102.4910 %	97.7618 %	98.3407 %	99.4915 %	100.9721 %	99.7506 %
Concentration per Run 1	0.4909 ppm	103.2604 %	97.4782 %	98.5629 %	97.6559 %	100.8762 %	99.1858 %
Concentration per Run 2	0.4899 ppm	101.9284 %	97.8008 %	98.3062 %	99.4800 %	101.1424 %	99.8564 %
Concentration per Run 3	0.4897 ppm	102.2842 %	98.0062 %	98.1530 %	101.3387 %	100.8977 %	100.2095 %
Concentration RSD	0.1 %	0.7 %	0.3 %	0.2 %	1.9 %	0.1 %	0.5 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-01 WG1975196
Analysis started at: 9/24/2024 12:16:00 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0032 ppm	-0.0002 ppm	0.0245 ppm	0.0198 ppm	0.0001 ppm	19.5602 ppm
Concentration per Run 1	0.0002 ppm	0.0102 ppm	0.0010 ppm	0.0245 ppm	0.0213 ppm	0.0001 ppm	19.7710 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0247 ppm	0.0191 ppm	0.0001 ppm	19.3809 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0012 ppm	0.0244 ppm	0.0189 ppm	0.0001 ppm	19.5288 ppm
Concentration RSD	63.7 %	184.8 %	574.8 %	0.5 %	6.9 %	46.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0027 ppm	0.0025 ppm	1.7151 ppm	-0.0036 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0029 ppm	0.0033 ppm	1.7486 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0025 ppm	1.7195 ppm	-0.0049 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0027 ppm	0.0017 ppm	1.6773 ppm	-0.0034 ppm
Concentration RSD	2,113.7 %	118.9 %	37.9 %	7.1 %	32.7 %	2.1 %	36.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2667 ppm	0.0010 ppm	0.0069 ppm	11.5434 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	6.2862 ppm	0.0013 ppm	0.0080 ppm	11.6539 ppm	0.0002 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	6.2657 ppm	0.0009 ppm	0.0067 ppm	11.4521 ppm	0.0003 ppm	0.0004 ppm	0.0041 ppm
Concentration per Run 3	6.2481 ppm	0.0007 ppm	0.0061 ppm	11.5241 ppm	0.0002 ppm	-0.0004 ppm	0.0009 ppm
Concentration RSD	0.3 %	30.1 %	14.0 %	0.9 %	20.2 %	26,004.3 %	62.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	4.0652 ppm	0.0014 ppm	0.0767 ppm	0.0010 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	0.0020 ppm	4.0818 ppm	0.0014 ppm	0.0778 ppm	0.0009 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	0.0005 ppm	4.0590 ppm	0.0016 ppm	0.0760 ppm	0.0011 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0011 ppm	4.0548 ppm	0.0012 ppm	0.0762 ppm	0.0010 ppm	0.0014 ppm	0.0010 ppm
Concentration RSD	64.9 %	0.4 %	14.4 %	1.3 %	8.2 %	181.4 %	50.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	105.4771 %	99.5212 %	99.6199 %	97.8644 %	100.1760 %	99.0831 %
Concentration per Run 1	0.0019 ppm	104.1908 %	99.5798 %	99.6231 %	93.8963 %	99.7098 %	98.7013 %
Concentration per Run 2	0.0018 ppm	106.4998 %	99.2833 %	99.6949 %	98.7254 %	100.2833 %	98.9345 %
Concentration per Run 3	0.0018 ppm	105.7407 %	99.7005 %	99.5418 %	100.9715 %	100.5349 %	99.6135 %
Concentration RSD	2.0 %	1.1 %	0.2 %	0.1 %	3.7 %	0.4 %	0.5 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-02 WG1975196
Analysis started at: 9/24/2024 12:22:13 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0022 ppm	0.0002 ppm	0.0928 ppm	0.0127 ppm	0.0000 ppm	16.7242 ppm
Concentration per Run 1	0.0000 ppm	0.0072 ppm	-0.0013 ppm	0.0935 ppm	0.0131 ppm	0.0001 ppm	17.1527 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0921 ppm	0.0123 ppm	0.0000 ppm	16.4910 ppm
Concentration per Run 3	0.0009 ppm	-0.0001 ppm	0.0020 ppm	0.0927 ppm	0.0126 ppm	0.0000 ppm	16.5287 ppm
Concentration RSD	281.4 %	192.8 %	802.7 %	0.8 %	3.1 %	126.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0009 ppm	0.0218 ppm	1.2679 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0229 ppm	1.3060 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0212 ppm	1.2193 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0009 ppm	0.0215 ppm	1.2786 ppm	0.0023 ppm
Concentration RSD	196.3 %	178.8 %	9.5 %	27.7 %	4.1 %	3.5 %	453.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.9293 ppm	0.0025 ppm	0.0014 ppm	12.6416 ppm	0.0000 ppm	0.0006 ppm	0.0021 ppm
Concentration per Run 1	8.9512 ppm	0.0027 ppm	0.0016 ppm	12.9467 ppm	0.0001 ppm	0.0011 ppm	0.0026 ppm
Concentration per Run 2	8.9429 ppm	0.0026 ppm	0.0017 ppm	12.4608 ppm	-0.0001 ppm	0.0009 ppm	0.0019 ppm
Concentration per Run 3	8.8937 ppm	0.0023 ppm	0.0010 ppm	12.5175 ppm	0.0000 ppm	-0.0003 ppm	0.0019 ppm
Concentration RSD	0.3 %	8.0 %	26.5 %	2.1 %	818.6 %	138.4 %	17.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	10.0264 ppm	0.0000 ppm	0.0808 ppm	0.0004 ppm	0.0017 ppm	0.0014 ppm
Concentration per Run 1	0.0012 ppm	10.0620 ppm	0.0006 ppm	0.0826 ppm	0.0001 ppm	0.0015 ppm	0.0011 ppm
Concentration per Run 2	0.0013 ppm	10.0183 ppm	-0.0006 ppm	0.0799 ppm	0.0005 ppm	0.0014 ppm	0.0019 ppm
Concentration per Run 3	-0.0004 ppm	9.9990 ppm	-0.0001 ppm	0.0799 ppm	0.0005 ppm	0.0022 ppm	0.0012 ppm
Concentration RSD	137.5 %	0.3 %	2,208.7 %	1.9 %	54.1 %	26.5 %	30.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	103.1114 %	99.4447 %	99.9729 %	96.8916 %	100.0126 %	99.0104 %
Concentration per Run 1	0.0016 ppm	100.8174 %	100.0616 %	100.1984 %	92.6087 %	99.6963 %	99.3313 %
Concentration per Run 2	0.0016 ppm	104.9595 %	98.9176 %	99.9297 %	98.5852 %	99.9311 %	98.5123 %
Concentration per Run 3	0.0016 ppm	103.5573 %	99.3548 %	99.7905 %	99.4810 %	100.4103 %	99.1874 %
Concentration RSD	2.6 %	2.0 %	0.6 %	0.2 %	3.9 %	0.4 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-03 WG1975196
Analysis started at: 9/24/2024 12:28:24 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0048 ppm	-0.0002 ppm	0.0189 ppm	0.0220 ppm	0.0000 ppm	9.5975 ppm
Concentration per Run 1	0.0000 ppm	-0.0056 ppm	0.0008 ppm	0.0192 ppm	0.0219 ppm	0.0000 ppm	9.5332 ppm
Concentration per Run 2	-0.0001 ppm	0.0155 ppm	-0.0015 ppm	0.0186 ppm	0.0220 ppm	0.0000 ppm	9.6011 ppm
Concentration per Run 3	0.0000 ppm	0.0047 ppm	0.0001 ppm	0.0187 ppm	0.0222 ppm	-0.0001 ppm	9.6581 ppm
Concentration RSD	150.3 %	217.2 %	598.9 %	1.8 %	0.5 %	896.3 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm	-0.0021 ppm	0.9294 ppm	-0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0012 ppm	-0.0009 ppm	0.9493 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	-0.0039 ppm	0.9168 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0005 ppm	-0.0016 ppm	0.9222 ppm	-0.0016 ppm
Concentration RSD	1,126.6 %	45.4 %	358.8 %	44.0 %	73.0 %	1.9 %	54.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.8923 ppm	0.0003 ppm	0.0007 ppm	12.3463 ppm	-0.0003 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	4.9368 ppm	0.0002 ppm	0.0007 ppm	12.2712 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	4.8739 ppm	0.0006 ppm	0.0006 ppm	12.3935 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	4.8662 ppm	0.0003 ppm	0.0008 ppm	12.3742 ppm	-0.0002 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	0.8 %	59.5 %	10.7 %	0.5 %	73.8 %	110.9 %	110.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	7.5624 ppm	-0.0004 ppm	0.0473 ppm	0.0004 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	7.6184 ppm	-0.0006 ppm	0.0470 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	0.0013 ppm	7.5528 ppm	-0.0003 ppm	0.0474 ppm	0.0009 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	7.5160 ppm	-0.0003 ppm	0.0476 ppm	0.0005 ppm	0.0030 ppm	0.0007 ppm
Concentration RSD	39.5 %	0.7 %	39.9 %	0.7 %	113.3 %	201.6 %	24.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	105.1759 %	101.0625 %	101.0685 %	98.5779 %	101.5132 %	100.6576 %
Concentration per Run 1	0.0011 ppm	105.6490 %	100.5427 %	100.8763 %	96.2848 %	100.9947 %	99.7982 %
Concentration per Run 2	0.0010 ppm	104.6838 %	101.0597 %	101.2361 %	98.7103 %	101.5079 %	100.7507 %
Concentration per Run 3	0.0011 ppm	105.1950 %	101.5849 %	101.0931 %	100.7385 %	102.0372 %	101.4239 %
Concentration RSD	5.8 %	0.5 %	0.5 %	0.2 %	2.3 %	0.5 %	0.8 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453250-01 WG1975196
Analysis started at: 9/24/2024 12:34:37 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.8145 ppm	0.0155 ppm	0.0820 ppm	0.0175 ppm	0.0000 ppm	8.7226 ppm
Concentration per Run 1	-0.0001 ppm	0.8119 ppm	0.0147 ppm	0.0826 ppm	0.0177 ppm	0.0001 ppm	8.7407 ppm
Concentration per Run 2	0.0001 ppm	0.8128 ppm	0.0169 ppm	0.0813 ppm	0.0172 ppm	0.0000 ppm	8.7572 ppm
Concentration per Run 3	0.0003 ppm	0.8188 ppm	0.0149 ppm	0.0821 ppm	0.0175 ppm	-0.0001 ppm	8.6701 ppm
Concentration RSD	272.7 %	0.5 %	7.7 %	0.8 %	1.5 %	1,677.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0066 ppm	0.0164 ppm	73.8590 ppm	0.0415 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	-0.0008 ppm	0.0067 ppm	0.0140 ppm	74.1726 ppm	0.0413 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0068 ppm	0.0187 ppm	74.1576 ppm	0.0428 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0008 ppm	0.0064 ppm	0.0164 ppm	73.2468 ppm	0.0404 ppm
Concentration RSD	492.6 %	20.1 %	5.5 %	3.3 %	14.1 %	0.7 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.3394 ppm	0.0008 ppm	0.0439 ppm	141.9585 ppm	0.0733 ppm	0.0006 ppm	0.0061 ppm
Concentration per Run 1	5.3478 ppm	0.0010 ppm	0.0439 ppm	142.3406 ppm	0.0735 ppm	0.0013 ppm	0.0042 ppm
Concentration per Run 2	5.3399 ppm	0.0006 ppm	0.0437 ppm	142.7381 ppm	0.0730 ppm	0.0001 ppm	0.0072 ppm
Concentration per Run 3	5.3304 ppm	0.0008 ppm	0.0440 ppm	140.7969 ppm	0.0734 ppm	0.0005 ppm	0.0068 ppm
Concentration RSD	0.2 %	24.9 %	0.4 %	0.7 %	0.4 %	100.3 %	26.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0034 ppm	8.7754 ppm	0.0010 ppm	0.1861 ppm	0.0010 ppm	0.0015 ppm	0.0066 ppm
Concentration per Run 1	0.0002 ppm	8.8395 ppm	0.0009 ppm	0.1861 ppm	0.0005 ppm	0.0010 ppm	0.0069 ppm
Concentration per Run 2	0.0036 ppm	8.7345 ppm	0.0009 ppm	0.1871 ppm	0.0014 ppm	0.0014 ppm	0.0065 ppm
Concentration per Run 3	0.0065 ppm	8.7521 ppm	0.0012 ppm	0.1850 ppm	0.0011 ppm	0.0022 ppm	0.0065 ppm
Concentration RSD	92.3 %	0.6 %	18.6 %	0.6 %	45.7 %	40.8 %	4.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	101.6782 %	95.0381 %	96.1121 %	97.4712 %	94.8582 %	96.6518 %
Concentration per Run 1	0.0021 ppm	100.9558 %	94.7921 %	96.0715 %	94.3831 %	94.4393 %	96.0574 %
Concentration per Run 2	0.0021 ppm	101.2234 %	95.0878 %	96.2544 %	97.2604 %	95.1816 %	96.7616 %
Concentration per Run 3	0.0021 ppm	102.8554 %	95.2343 %	96.0105 %	100.7702 %	94.9536 %	97.1364 %
Concentration RSD	0.5 %	1.0 %	0.2 %	0.1 %	3.3 %	0.4 %	0.6 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-3 WG1975196
Analysis started at: 9/24/2024 12:40:50 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	2.7468 ppm	0.1433 ppm	1.0883 ppm	1.9295 ppm	0.0500 ppm	18.6359 ppm
Concentration per Run 1	0.0526 ppm	2.7630 ppm	0.1434 ppm	1.0897 ppm	1.9435 ppm	0.0503 ppm	18.7495 ppm
Concentration per Run 2	0.0518 ppm	2.7804 ppm	0.1430 ppm	1.0885 ppm	1.9593 ppm	0.0508 ppm	18.9223 ppm
Concentration per Run 3	0.0526 ppm	2.6969 ppm	0.1434 ppm	1.0869 ppm	1.8858 ppm	0.0490 ppm	18.2359 ppm
Concentration RSD	0.9 %	1.6 %	0.2 %	0.1 %	2.0 %	1.8 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0548 ppm	0.5103 ppm	0.2030 ppm	0.2658 ppm	0.9940 ppm	84.3278 ppm	0.0437 ppm
Concentration per Run 1	0.0549 ppm	0.5114 ppm	0.2026 ppm	0.2657 ppm	0.9946 ppm	85.0946 ppm	0.0456 ppm
Concentration per Run 2	0.0548 ppm	0.5102 ppm	0.2030 ppm	0.2663 ppm	1.0151 ppm	85.6142 ppm	0.0440 ppm
Concentration per Run 3	0.0547 ppm	0.5094 ppm	0.2035 ppm	0.2653 ppm	0.9724 ppm	82.2746 ppm	0.0415 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	2.2 %	2.1 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.9460 ppm	0.4902 ppm	1.0000 ppm	153.2013 ppm	0.5800 ppm	0.5433 ppm	0.5302 ppm
Concentration per Run 1	14.9604 ppm	0.4933 ppm	0.9798 ppm	154.5067 ppm	0.5814 ppm	0.5441 ppm	0.5324 ppm
Concentration per Run 2	14.9381 ppm	0.4982 ppm	1.0016 ppm	155.7567 ppm	0.5800 ppm	0.5438 ppm	0.5267 ppm
Concentration per Run 3	14.9397 ppm	0.4790 ppm	1.0185 ppm	149.3404 ppm	0.5785 ppm	0.5419 ppm	0.5313 ppm
Concentration RSD	0.1 %	2.0 %	1.9 %	2.2 %	0.2 %	0.2 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1259 ppm	9.4229 ppm	0.9710 ppm	1.1134 ppm	1.0309 ppm	0.1179 ppm	0.5153 ppm
Concentration per Run 1	0.1226 ppm	9.4503 ppm	0.9728 ppm	1.1233 ppm	1.0305 ppm	0.1193 ppm	0.5162 ppm
Concentration per Run 2	0.1275 ppm	9.4241 ppm	0.9712 ppm	1.1296 ppm	1.0310 ppm	0.1181 ppm	0.5153 ppm
Concentration per Run 3	0.1278 ppm	9.3943 ppm	0.9690 ppm	1.0872 ppm	1.0311 ppm	0.1163 ppm	0.5144 ppm
Concentration RSD	2.3 %	0.3 %	0.2 %	2.1 %	0.0 %	1.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5269 ppm	98.0153 %	94.4758 %	95.1991 %	97.7071 %	95.2859 %	97.4895 %
Concentration per Run 1	0.5289 ppm	97.0235 %	94.3755 %	95.2362 %	93.9341 %	94.9045 %	97.2439 %
Concentration per Run 2	0.5267 ppm	96.5853 %	94.7286 %	95.0431 %	96.8574 %	95.2839 %	97.6641 %
Concentration per Run 3	0.5251 ppm	100.4370 %	94.3232 %	95.3179 %	102.3298 %	95.6695 %	97.5603 %
Concentration RSD	0.4 %	2.2 %	0.2 %	0.1 %	4.4 %	0.4 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-4 WG1975196
Analysis started at: 9/24/2024 12:47:02 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.7760 ppm	0.0150 ppm	0.0792 ppm	0.0170 ppm	0.0000 ppm	8.3003 ppm
Concentration per Run 1	-0.0001 ppm	0.7846 ppm	0.0153 ppm	0.0786 ppm	0.0172 ppm	0.0000 ppm	8.3530 ppm
Concentration per Run 2	-0.0005 ppm	0.7658 ppm	0.0149 ppm	0.0799 ppm	0.0169 ppm	0.0000 ppm	8.2559 ppm
Concentration per Run 3	0.0004 ppm	0.7775 ppm	0.0147 ppm	0.0790 ppm	0.0168 ppm	0.0000 ppm	8.2920 ppm
Concentration RSD	798.0 %	1.2 %	1.8 %	0.9 %	1.2 %	2,042.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0009 ppm	0.0063 ppm	0.0165 ppm	69.9156 ppm	0.0391 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0007 ppm	0.0060 ppm	0.0177 ppm	70.5519 ppm	0.0399 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0063 ppm	0.0163 ppm	69.4415 ppm	0.0392 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0010 ppm	0.0066 ppm	0.0155 ppm	69.7532 ppm	0.0383 ppm
Concentration RSD	82.7 %	8.1 %	25.4 %	4.8 %	6.7 %	0.8 %	2.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.1238 ppm	0.0009 ppm	0.0478 ppm	134.5488 ppm	0.0697 ppm	0.0012 ppm	0.0054 ppm
Concentration per Run 1	5.0506 ppm	0.0012 ppm	0.0483 ppm	135.6059 ppm	0.0697 ppm	0.0001 ppm	0.0057 ppm
Concentration per Run 2	5.1693 ppm	0.0009 ppm	0.0479 ppm	133.7464 ppm	0.0700 ppm	0.0019 ppm	0.0047 ppm
Concentration per Run 3	5.1516 ppm	0.0007 ppm	0.0470 ppm	134.2942 ppm	0.0693 ppm	0.0015 ppm	0.0058 ppm
Concentration RSD	1.3 %	26.4 %	1.4 %	0.7 %	0.5 %	83.4 %	11.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0024 ppm	8.3508 ppm	0.0027 ppm	0.1771 ppm	0.0012 ppm	0.0008 ppm	0.0063 ppm
Concentration per Run 1	0.0000 ppm	8.3102 ppm	0.0024 ppm	0.1784 ppm	0.0009 ppm	-0.0002 ppm	0.0062 ppm
Concentration per Run 2	0.0049 ppm	8.4027 ppm	0.0029 ppm	0.1758 ppm	0.0011 ppm	0.0013 ppm	0.0062 ppm
Concentration per Run 3	0.0022 ppm	8.3396 ppm	0.0028 ppm	0.1770 ppm	0.0015 ppm	0.0012 ppm	0.0063 ppm
Concentration RSD	103.3 %	0.6 %	11.3 %	0.7 %	25.8 %	106.2 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	103.2645 %	96.5358 %	97.7981 %	100.0000 %	96.8309 %	98.1324 %
Concentration per Run 1	0.0014 ppm	102.6716 %	98.2925 %	98.6223 %	97.9747 %	97.0381 %	99.3389 %
Concentration per Run 2	0.0015 ppm	103.7412 %	95.3440 %	97.7870 %	100.3267 %	96.6503 %	97.2297 %
Concentration per Run 3	0.0015 ppm	103.3806 %	95.9711 %	96.9851 %	101.6985 %	96.8043 %	97.8285 %
Concentration RSD	3.2 %	0.5 %	1.6 %	0.8 %	1.9 %	0.2 %	1.1 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-5 WG1975196
Analysis started at: 9/24/2024 12:53:16 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	2.8428 ppm	0.1422 ppm	1.1167 ppm	1.9947 ppm	0.0516 ppm	19.2877 ppm
Concentration per Run 1	0.0505 ppm	2.9474 ppm	0.1417 ppm	1.1172 ppm	2.0486 ppm	0.0529 ppm	19.8300 ppm
Concentration per Run 2	0.0504 ppm	2.8938 ppm	0.1419 ppm	1.1182 ppm	2.0360 ppm	0.0527 ppm	19.6511 ppm
Concentration per Run 3	0.0505 ppm	2.6873 ppm	0.1428 ppm	1.1149 ppm	1.8995 ppm	0.0492 ppm	18.3820 ppm
Concentration RSD	0.1 %	4.8 %	0.4 %	0.2 %	4.1 %	4.1 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0550 ppm	0.5119 ppm	0.2056 ppm	0.2689 ppm	1.0389 ppm	86.0477 ppm	0.0424 ppm
Concentration per Run 1	0.0551 ppm	0.5124 ppm	0.2059 ppm	0.2693 ppm	1.0653 ppm	88.6578 ppm	0.0469 ppm
Concentration per Run 2	0.0551 ppm	0.5125 ppm	0.2052 ppm	0.2686 ppm	1.0604 ppm	87.7481 ppm	0.0414 ppm
Concentration per Run 3	0.0548 ppm	0.5108 ppm	0.2058 ppm	0.2688 ppm	0.9911 ppm	81.7373 ppm	0.0390 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	4.0 %	4.4 %	9.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.2598 ppm	0.5056 ppm	1.0181 ppm	155.8496 ppm	0.5818 ppm	0.5399 ppm	0.4978 ppm
Concentration per Run 1	15.2574 ppm	0.5192 ppm	0.9949 ppm	160.5496 ppm	0.5837 ppm	0.5413 ppm	0.4930 ppm
Concentration per Run 2	15.2713 ppm	0.5157 ppm	1.0212 ppm	159.0177 ppm	0.5820 ppm	0.5404 ppm	0.4981 ppm
Concentration per Run 3	15.2508 ppm	0.4819 ppm	1.0380 ppm	147.9815 ppm	0.5797 ppm	0.5380 ppm	0.5023 ppm
Concentration RSD	0.1 %	4.1 %	2.1 %	4.4 %	0.4 %	0.3 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1271 ppm	9.7771 ppm	1.0214 ppm	1.1715 ppm	1.0659 ppm	0.1191 ppm	0.5208 ppm
Concentration per Run 1	0.1264 ppm	9.8038 ppm	1.0219 ppm	1.2027 ppm	1.0664 ppm	0.1185 ppm	0.5197 ppm
Concentration per Run 2	0.1272 ppm	9.7821 ppm	1.0222 ppm	1.1960 ppm	1.0661 ppm	0.1208 ppm	0.5212 ppm
Concentration per Run 3	0.1277 ppm	9.7455 ppm	1.0200 ppm	1.1159 ppm	1.0653 ppm	0.1180 ppm	0.5214 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %	4.1 %	0.1 %	1.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5295 ppm	95.8685 %	94.4200 %	95.7966 %	93.6202 %	95.8075 %	96.8919 %
Concentration per Run 1	0.5308 ppm	92.7394 %	94.5096 %	95.8351 %	88.7141 %	95.6321 %	96.8448 %
Concentration per Run 2	0.5301 ppm	93.9052 %	94.4326 %	95.5622 %	91.9950 %	95.5218 %	96.7881 %
Concentration per Run 3	0.5275 ppm	100.9609 %	94.3179 %	95.9924 %	100.1516 %	96.2687 %	97.0427 %
Concentration RSD	0.3 %	4.6 %	0.1 %	0.2 %	6.3 %	0.4 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-6D5 WG1975196
Analysis started at: 9/24/2024 12:59:18 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.1563 ppm	0.0046 ppm	0.0181 ppm	0.0046 ppm	0.0000 ppm	1.7279 ppm
Concentration per Run 1	0.0001 ppm	0.1542 ppm	0.0041 ppm	0.0180 ppm	0.0052 ppm	0.0001 ppm	1.7200 ppm
Concentration per Run 2	0.0002 ppm	0.1513 ppm	0.0041 ppm	0.0184 ppm	0.0046 ppm	0.0000 ppm	1.7341 ppm
Concentration per Run 3	0.0003 ppm	0.1635 ppm	0.0055 ppm	0.0180 ppm	0.0039 ppm	0.0000 ppm	1.7296 ppm
Concentration RSD	48.0 %	4.1 %	17.3 %	1.3 %	14.2 %	175.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0053 ppm	14.8781 ppm	0.0075 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0015 ppm	0.0073 ppm	14.8725 ppm	0.0075 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0017 ppm	0.0062 ppm	14.8557 ppm	0.0075 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0024 ppm	14.9061 ppm	0.0075 ppm
Concentration RSD	52.4 %	333.6 %	93.9 %	4.3 %	48.9 %	0.2 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.1040 ppm	0.0004 ppm	0.0157 ppm	29.0579 ppm	0.0142 ppm	-0.0001 ppm	0.0082 ppm
Concentration per Run 1	1.1011 ppm	0.0002 ppm	0.0166 ppm	28.9617 ppm	0.0142 ppm	-0.0002 ppm	0.0074 ppm
Concentration per Run 2	1.1073 ppm	0.0006 ppm	0.0158 ppm	29.0717 ppm	0.0143 ppm	0.0002 ppm	0.0088 ppm
Concentration per Run 3	1.1035 ppm	0.0005 ppm	0.0146 ppm	29.1401 ppm	0.0142 ppm	-0.0004 ppm	0.0083 ppm
Concentration RSD	0.3 %	54.0 %	6.3 %	0.3 %	0.6 %	289.0 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	1.7032 ppm	0.0025 ppm	0.0375 ppm	0.0007 ppm	0.0010 ppm	0.0017 ppm
Concentration per Run 1	-0.0007 ppm	1.7018 ppm	0.0028 ppm	0.0378 ppm	0.0006 ppm	0.0011 ppm	0.0020 ppm
Concentration per Run 2	-0.0011 ppm	1.7050 ppm	0.0019 ppm	0.0374 ppm	0.0007 ppm	0.0013 ppm	0.0015 ppm
Concentration per Run 3	0.0009 ppm	1.7027 ppm	0.0027 ppm	0.0372 ppm	0.0006 ppm	0.0005 ppm	0.0015 ppm
Concentration RSD	368.0 %	0.1 %	19.9 %	0.9 %	13.8 %	39.7 %	17.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	104.7059 %	97.5402 %	98.3150 %	102.0833 %	100.3239 %	99.5272 %
Concentration per Run 1	0.0009 ppm	104.4798 %	97.3771 %	98.7616 %	100.0943 %	100.3404 %	99.2836 %
Concentration per Run 2	0.0008 ppm	104.9865 %	97.5888 %	97.9574 %	102.1582 %	100.1457 %	99.4912 %
Concentration per Run 3	0.0008 ppm	104.6515 %	97.6546 %	98.2261 %	103.9973 %	100.4857 %	99.8067 %
Concentration RSD	4.5 %	0.2 %	0.1 %	0.4 %	1.9 %	0.2 %	0.3 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:05:31 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5254 ppm	0.5082 ppm	0.4999 ppm	0.4976 ppm	0.5071 ppm	0.5203 ppm	0.5178 ppm
Concentration per Run 1	0.5265 ppm	0.5109 ppm	0.4989 ppm	0.4949 ppm	0.5132 ppm	0.5269 ppm	0.5218 ppm
Concentration per Run 2	0.5248 ppm	0.5288 ppm	0.5011 ppm	0.4990 ppm	0.5206 ppm	0.5329 ppm	0.5313 ppm
Concentration per Run 3	0.5250 ppm	0.4848 ppm	0.4997 ppm	0.4989 ppm	0.4876 ppm	0.5012 ppm	0.5003 ppm
Recovery Percentage 1	105.086 %	101.632 %	99.976 %	99.523 %	101.424 %	104.068 %	103.558 %
Concentration RSD	0.2 %	4.4 %	0.2 %	0.5 %	3.4 %	3.2 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5043 ppm	0.5158 ppm	0.5200 ppm	0.5065 ppm	0.5248 ppm	5.4118 ppm	0.5102 ppm
Concentration per Run 1	0.5018 ppm	0.5130 ppm	0.5197 ppm	0.5076 ppm	0.5257 ppm	5.4879 ppm	0.5184 ppm
Concentration per Run 2	0.5052 ppm	0.5173 ppm	0.5202 ppm	0.5065 ppm	0.5413 ppm	5.5357 ppm	0.5215 ppm
Concentration per Run 3	0.5059 ppm	0.5170 ppm	0.5199 ppm	0.5056 ppm	0.5075 ppm	5.2119 ppm	0.4907 ppm
Recovery Percentage 1	100.869 %	103.154 %	103.990 %	101.308 %	104.969 %	108.237 %	102.043 %
Concentration RSD	0.4 %	0.5 %	0.0 %	0.2 %	3.2 %	3.2 %	3.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5127 ppm	0.5184 ppm	0.5091 ppm	10.5081 ppm	0.5123 ppm	0.5111 ppm	0.5159 ppm
Concentration per Run 1	0.5113 ppm	0.5238 ppm	0.5027 ppm	10.6526 ppm	0.5096 ppm	0.5087 ppm	0.5126 ppm
Concentration per Run 2	0.5137 ppm	0.5311 ppm	0.5108 ppm	10.7617 ppm	0.5139 ppm	0.5125 ppm	0.5176 ppm
Concentration per Run 3	0.5131 ppm	0.5003 ppm	0.5139 ppm	10.1100 ppm	0.5134 ppm	0.5120 ppm	0.5176 ppm
Recovery Percentage 1	102.544 %	103.681 %	101.829 %	105.081 %	102.457 %	102.218 %	103.186 %
Concentration RSD	0.2 %	3.1 %	1.1 %	3.3 %	0.5 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5012 ppm	5.5980 ppm	0.4863 ppm	0.5026 ppm	0.5159 ppm	0.5114 ppm	0.5041 ppm
Concentration per Run 1	0.4982 ppm	5.5667 ppm	0.4841 ppm	0.5086 ppm	0.5168 ppm	0.5080 ppm	0.5034 ppm
Concentration per Run 2	0.5035 ppm	5.6130 ppm	0.4873 ppm	0.5152 ppm	0.5156 ppm	0.5122 ppm	0.5053 ppm
Concentration per Run 3	0.5019 ppm	5.6144 ppm	0.4875 ppm	0.4841 ppm	0.5152 ppm	0.5139 ppm	0.5036 ppm
Recovery Percentage 1	100.244 %	106.629 %	97.257 %	100.527 %	103.173 %	102.274 %	100.821 %
Concentration RSD	0.5 %	0.5 %	0.4 %	3.3 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5101 ppm	93.5802 %	96.9175 %	98.1740 %	96.6467 %	101.0532 %	100.0649 %
Concentration per Run 1	0.5076 ppm	91.9643 %	97.1006 %	98.7441 %	95.1809 %	101.4704 %	100.1793 %
Concentration per Run 2	0.5111 ppm	91.7496 %	97.0034 %	98.0285 %	95.3546 %	100.9451 %	100.2150 %
Concentration per Run 3	0.5117 ppm	97.0266 %	96.6486 %	97.7494 %	99.4047 %	100.7441 %	99.8004 %
Recovery Percentage 1	102.022 %						
Concentration RSD	0.4 %	3.2 %	0.2 %	0.5 %	2.5 %	0.4 %	0.2 %

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:11:33 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0055 ppm	0.0003 ppm	0.0019 ppm	0.0001 ppm	0.0002 ppm	-0.0060 ppm
Concentration per Run 1	-0.0002 ppm	-0.0039 ppm	0.0014 ppm	0.0019 ppm	0.0002 ppm	0.0003 ppm	-0.0051 ppm
Concentration per Run 2	-0.0004 ppm	-0.0121 ppm	-0.0006 ppm	0.0023 ppm	0.0001 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	-0.0104 ppm
Recovery Percentage 1	-4.143 %	-5.499 %	6.807 %	6.410 %	1.396 %	3.394 %	-6.027 %
Concentration RSD	42.0 %	107.9 %	285.2 %	18.1 %	44.4 %	84.7 %	65.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	-0.0145 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0007 ppm	-0.0183 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0019 ppm	-0.0106 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0147 ppm	-0.0010 ppm
Recovery Percentage 1	-0.045 %	0.364 %	2.108 %	2.843 %	2.206 %	-0.581 %	-11.542 %
Concentration RSD	854.1 %	148.1 %	107.6 %	103.2 %	64.9 %	26.3 %	55.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0031 ppm	0.0052 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0036 ppm	0.0190 ppm	0.0004 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0029 ppm	-0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0028 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	0.0027 ppm	-0.0023 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Recovery Percentage 1	-0.387 %	1.605 %	6.112 %	0.259 %	0.495 %	-0.213 %	3.352 %
Concentration RSD	330.5 %	125.0 %	15.0 %	231.9 %	207.2 %	1,472.5 %	60.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0015 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0008 ppm	0.0025 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	0.0013 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0024 ppm	0.0001 ppm
Concentration per Run 3	0.0018 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Recovery Percentage 1	6.643 %	0.291 %	-0.062 %	2.628 %	0.695 %	3.734 %	2.154 %
Concentration RSD	200.2 %	67.9 %	105.1 %	63.5 %	95.2 %	209.7 %	119.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	103.6304 %	98.3163 %	99.3591 %	100.3378 %	100.4504 %	98.7197 %
Concentration per Run 1	-0.0002 ppm	104.0350 %	98.5576 %	100.0357 %	98.7376 %	100.9115 %	98.8425 %
Concentration per Run 2	-0.0002 ppm	103.1049 %	98.2820 %	99.0603 %	100.4003 %	100.2284 %	98.6902 %
Concentration per Run 3	-0.0002 ppm	103.7512 %	98.1092 %	98.9813 %	101.8754 %	100.2113 %	98.6265 %
Recovery Percentage 1	-3.460 %						
Concentration RSD	11.7 %	0.5 %	0.2 %	0.6 %	1.6 %	0.4 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:17:52 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5456 ppm	0.4916 ppm	0.5218 ppm	0.5211 ppm	0.4917 ppm	0.5021 ppm	0.4973 ppm
Concentration per Run 1	0.5436 ppm	0.4709 ppm	0.5208 ppm	0.5212 ppm	0.4729 ppm	0.4825 ppm	0.4756 ppm
Concentration per Run 2	0.5453 ppm	0.4995 ppm	0.5224 ppm	0.5187 ppm	0.4993 ppm	0.5098 ppm	0.5083 ppm
Concentration per Run 3	0.5479 ppm	0.5044 ppm	0.5223 ppm	0.5234 ppm	0.5028 ppm	0.5140 ppm	0.5080 ppm
Recovery Percentage 1	109.122 %	98.325 %	104.360 %	104.221 %	98.340 %	100.418 %	99.462 %
Concentration RSD	0.4 %	3.7 %	0.2 %	0.5 %	3.3 %	3.4 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5270 ppm	0.5392 ppm	0.5377 ppm	0.5270 ppm	0.5190 ppm	5.1935 ppm	0.5023 ppm
Concentration per Run 1	0.5279 ppm	0.5397 ppm	0.5352 ppm	0.5252 ppm	0.4938 ppm	4.9934 ppm	0.4798 ppm
Concentration per Run 2	0.5252 ppm	0.5375 ppm	0.5383 ppm	0.5269 ppm	0.5271 ppm	5.2912 ppm	0.5105 ppm
Concentration per Run 3	0.5279 ppm	0.5403 ppm	0.5395 ppm	0.5288 ppm	0.5361 ppm	5.2958 ppm	0.5167 ppm
Recovery Percentage 1	105.397 %	107.835 %	107.538 %	105.393 %	103.798 %	103.869 %	100.467 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	4.3 %	3.3 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5349 ppm	0.4985 ppm	0.5320 ppm	10.1634 ppm	0.5359 ppm	0.5333 ppm	0.5364 ppm
Concentration per Run 1	0.5340 ppm	0.4786 ppm	0.5288 ppm	9.7838 ppm	0.5365 ppm	0.5336 ppm	0.5357 ppm
Concentration per Run 2	0.5360 ppm	0.5055 ppm	0.5304 ppm	10.3135 ppm	0.5348 ppm	0.5317 ppm	0.5364 ppm
Concentration per Run 3	0.5346 ppm	0.5113 ppm	0.5367 ppm	10.3930 ppm	0.5363 ppm	0.5346 ppm	0.5370 ppm
Recovery Percentage 1	106.974 %	99.694 %	106.397 %	101.634 %	107.175 %	106.664 %	107.271 %
Concentration RSD	0.2 %	3.5 %	0.8 %	3.3 %	0.2 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5205 ppm	5.9882 ppm	0.5212 ppm	0.4949 ppm	0.5362 ppm	0.5356 ppm	0.5248 ppm
Concentration per Run 1	0.5207 ppm	5.9957 ppm	0.5224 ppm	0.4758 ppm	0.5344 ppm	0.5357 ppm	0.5235 ppm
Concentration per Run 2	0.5197 ppm	5.9656 ppm	0.5191 ppm	0.5029 ppm	0.5365 ppm	0.5347 ppm	0.5245 ppm
Concentration per Run 3	0.5210 ppm	6.0034 ppm	0.5221 ppm	0.5061 ppm	0.5377 ppm	0.5363 ppm	0.5265 ppm
Recovery Percentage 1	104.097 %	114.061 %	104.240 %	98.986 %	107.239 %	107.113 %	104.967 %
Concentration RSD	0.1 %	0.3 %	0.3 %	3.4 %	0.3 %	0.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5329 ppm	100.4895 %	96.4629 %	97.6422 %	104.8937 %	100.6636 %	100.0359 %
Concentration per Run 1	0.5338 ppm	104.2514 %	96.5556 %	97.3437 %	107.2681 %	100.5632 %	100.1559 %
Concentration per Run 2	0.5315 ppm	99.6371 %	96.3778 %	97.7199 %	104.7020 %	100.7812 %	99.8987 %
Concentration per Run 3	0.5334 ppm	97.5800 %	96.4554 %	97.8631 %	102.7110 %	100.6465 %	100.0532 %
Recovery Percentage 1	106.584 %						
Concentration RSD	0.2 %	3.4 %	0.1 %	0.3 %	2.2 %	0.1 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:23:54 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0038 ppm	0.0000 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	-0.0025 ppm
Concentration per Run 1	0.0004 ppm	-0.0031 ppm	-0.0006 ppm	0.0021 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.0006 ppm	-0.0048 ppm	0.0007 ppm	0.0019 ppm	0.0002 ppm	0.0003 ppm	-0.0058 ppm
Concentration per Run 3	0.0002 ppm	-0.0034 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm	-0.0029 ppm
Recovery Percentage 1	5.570 %	-3.764 %	0.867 %	6.152 %	1.789 %	4.653 %	-2.468 %
Concentration RSD	48.2 %	24.0 %	1,586.1 %	16.4 %	10.6 %	13.7 %	144.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0247 ppm	-0.0036 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0157 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0005 ppm	0.0007 ppm	-0.0180 ppm	-0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0404 ppm	-0.0040 ppm
Recovery Percentage 1	0.383 %	-0.497 %	-1.369 %	2.535 %	-0.320 %	-0.988 %	-36.494 %
Concentration RSD	48.1 %	280.0 %	266.1 %	128.9 %	489.7 %	55.3 %	18.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0025 ppm	0.0009 ppm	0.0002 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 1	-0.0033 ppm	0.0001 ppm	0.0031 ppm	0.0087 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0024 ppm	-0.0141 ppm	0.0006 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 3	0.0019 ppm	0.0003 ppm	0.0021 ppm	0.0082 ppm	0.0002 ppm	0.0008 ppm	0.0027 ppm
Recovery Percentage 1	-0.383 %	1.147 %	5.098 %	0.047 %	0.796 %	3.210 %	3.771 %
Concentration RSD	705.9 %	148.8 %	19.1 %	1,385.4 %	180.5 %	129.1 %	64.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0019 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	0.0008 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0030 ppm	0.0004 ppm
Recovery Percentage 1	2.233 %	0.100 %	-0.154 %	2.621 %	2.886 %	9.259 %	2.758 %
Concentration RSD	545.0 %	85.2 %	69.7 %	105.2 %	78.7 %	56.3 %	42.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	105.1649 %	100.7490 %	100.2047 %	102.6685 %	101.6954 %	101.3004 %
Concentration per Run 1	0.0001 ppm	104.9510 %	100.9443 %	100.4374 %	101.5068 %	101.8583 %	101.3469 %
Concentration per Run 2	0.0001 ppm	105.8237 %	100.8700 %	100.1595 %	103.4054 %	101.6115 %	101.3904 %
Concentration per Run 3	-0.0002 ppm	104.7199 %	100.4328 %	100.0171 %	103.0932 %	101.6162 %	101.1640 %
Recovery Percentage 1	0.623 %						
Concentration RSD	513.6 %	0.6 %	0.3 %	0.2 %	1.0 %	0.1 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-04 WG1975196
Analysis started at: 9/24/2024 1:41:25 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0077 ppm	0.0004 ppm	0.0222 ppm	0.0863 ppm	0.0000 ppm	93.0666 ppm
Concentration per Run 1	-0.0004 ppm	0.0002 ppm	0.0014 ppm	0.0221 ppm	0.0882 ppm	0.0000 ppm	95.2104 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	0.0003 ppm	0.0219 ppm	0.0850 ppm	0.0000 ppm	91.5036 ppm
Concentration per Run 3	0.0005 ppm	0.0079 ppm	-0.0006 ppm	0.0226 ppm	0.0856 ppm	-0.0001 ppm	92.4858 ppm
Concentration RSD	1,048.6 %	96.0 %	273.2 %	1.7 %	2.0 %	309.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0017 ppm	0.0072 ppm	2.8324 ppm	-0.0047 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0069 ppm	2.9354 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm	0.0073 ppm	2.7599 ppm	-0.0054 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0012 ppm	0.0074 ppm	2.8021 ppm	-0.0043 ppm
Concentration RSD	1,126.2 %	460.9 %	130.2 %	26.1 %	3.8 %	3.2 %	14.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.5599 ppm	0.0001 ppm	0.0004 ppm	3.9948 ppm	-0.0005 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 1	15.6071 ppm	-0.0001 ppm	0.0003 ppm	4.0841 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	15.5485 ppm	0.0001 ppm	0.0005 ppm	3.9254 ppm	-0.0010 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 3	15.5239 ppm	0.0003 ppm	0.0005 ppm	3.9750 ppm	-0.0005 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	0.3 %	274.3 %	31.1 %	2.0 %	108.7 %	259.2 %	103.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	5.8056 ppm	-0.0003 ppm	0.2480 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0015 ppm	5.8246 ppm	-0.0001 ppm	0.2534 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0014 ppm	5.7996 ppm	-0.0004 ppm	0.2439 ppm	0.0001 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	5.7926 ppm	-0.0004 ppm	0.2467 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	72.3 %	0.3 %	53.6 %	2.0 %	46.8 %	163.5 %	44.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	103.1043 %	98.0827 %	97.9460 %	95.9002 %	96.9976 %	97.2852 %
Concentration per Run 1	0.0022 ppm	100.9059 %	98.0790 %	98.0263 %	91.7578 %	96.6648 %	96.8688 %
Concentration per Run 2	0.0020 ppm	104.1628 %	98.4234 %	98.1924 %	96.8719 %	97.1243 %	97.5838 %
Concentration per Run 3	0.0021 ppm	104.2442 %	97.7458 %	97.6194 %	99.0708 %	97.2037 %	97.4030 %
Concentration RSD	5.1 %	1.8 %	0.3 %	0.3 %	3.9 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-05 WG1975196
Analysis started at: 9/24/2024 1:47:39 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0028 ppm	-0.0001 ppm	0.0085 ppm	0.0046 ppm	0.0000 ppm	17.1602 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0087 ppm	0.0047 ppm	0.0000 ppm	17.2341 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	-0.0010 ppm	0.0083 ppm	0.0045 ppm	-0.0001 ppm	17.0021 ppm
Concentration per Run 3	-0.0002 ppm	0.0052 ppm	0.0011 ppm	0.0087 ppm	0.0046 ppm	0.0001 ppm	17.2445 ppm
Concentration RSD	991.0 %	84.8 %	1,372.5 %	2.7 %	2.3 %	1,256.8 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0006 ppm	0.0625 ppm	0.7137 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0011 ppm	0.0629 ppm	0.7420 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0620 ppm	0.6764 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0011 ppm	0.0001 ppm	0.0626 ppm	0.7226 ppm	0.0026 ppm
Concentration RSD	4,074.9 %	62.3 %	42.4 %	76.5 %	0.8 %	4.7 %	398.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4875 ppm	0.0331 ppm	0.0004 ppm	5.3796 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	2.4986 ppm	0.0331 ppm	0.0002 ppm	5.4002 ppm	-0.0005 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 2	2.4976 ppm	0.0329 ppm	0.0003 ppm	5.3357 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 3	2.4662 ppm	0.0333 ppm	0.0008 ppm	5.4029 ppm	-0.0006 ppm	0.0009 ppm	0.0009 ppm
Concentration RSD	0.7 %	0.5 %	79.6 %	0.7 %	51.2 %	167.8 %	3,057.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	10.7062 ppm	-0.0008 ppm	0.1371 ppm	0.0004 ppm	0.0012 ppm	0.0014 ppm
Concentration per Run 1	0.0010 ppm	10.7600 ppm	-0.0008 ppm	0.1376 ppm	0.0004 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 2	-0.0002 ppm	10.7227 ppm	-0.0008 ppm	0.1360 ppm	0.0006 ppm	0.0014 ppm	0.0015 ppm
Concentration per Run 3	0.0008 ppm	10.6357 ppm	-0.0008 ppm	0.1377 ppm	0.0003 ppm	0.0015 ppm	0.0014 ppm
Concentration RSD	114.2 %	0.6 %	5.4 %	0.7 %	31.1 %	48.1 %	10.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	103.8599 %	99.8257 %	100.5443 %	98.2820 %	101.0580 %	99.4201 %
Concentration per Run 1	0.0004 ppm	103.3603 %	99.7746 %	100.7424 %	95.9519 %	100.7286 %	99.1469 %
Concentration per Run 2	0.0005 ppm	104.6890 %	99.6470 %	100.4677 %	98.6791 %	100.7991 %	99.0321 %
Concentration per Run 3	0.0005 ppm	103.5304 %	100.0554 %	100.4227 %	100.2150 %	101.6462 %	100.0812 %
Concentration RSD	11.0 %	0.7 %	0.2 %	0.2 %	2.2 %	0.5 %	0.6 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-06 WG1975196
Analysis started at: 9/24/2024 1:53:52 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0024 ppm	-0.0001 ppm	0.0065 ppm	0.0196 ppm	0.0000 ppm	3.8192 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	0.0010 ppm	0.0068 ppm	0.0203 ppm	0.0000 ppm	3.9171 ppm
Concentration per Run 2	0.0001 ppm	-0.0023 ppm	-0.0013 ppm	0.0065 ppm	0.0195 ppm	0.0000 ppm	3.7828 ppm
Concentration per Run 3	-0.0003 ppm	0.0077 ppm	0.0001 ppm	0.0061 ppm	0.0192 ppm	0.0000 ppm	3.7579 ppm
Concentration RSD	685.4 %	211.4 %	1,543.6 %	5.1 %	2.8 %	184.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0013 ppm	0.0006 ppm	0.8899 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0010 ppm	0.0014 ppm	0.0009 ppm	0.9264 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0013 ppm	0.0004 ppm	0.8813 ppm	-0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0010 ppm	0.0004 ppm	0.8621 ppm	0.0000 ppm
Concentration RSD	264.1 %	52.0 %	19.8 %	15.5 %	51.5 %	3.7 %	93.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.5447 ppm	0.0014 ppm	0.0003 ppm	1.5381 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	1.5533 ppm	0.0011 ppm	0.0003 ppm	1.5804 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	1.5411 ppm	0.0012 ppm	0.0004 ppm	1.5336 ppm	-0.0004 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	1.5397 ppm	0.0018 ppm	0.0002 ppm	1.5005 ppm	-0.0001 ppm	-0.0006 ppm	0.0017 ppm
Concentration RSD	0.5 %	30.0 %	34.1 %	2.6 %	134.9 %	117.1 %	80.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	3.4074 ppm	-0.0008 ppm	0.0163 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	3.4271 ppm	-0.0009 ppm	0.0169 ppm	-0.0001 ppm	0.0015 ppm	0.0000 ppm
Concentration per Run 2	0.0029 ppm	3.4040 ppm	-0.0005 ppm	0.0161 ppm	0.0001 ppm	0.0019 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	3.3912 ppm	-0.0011 ppm	0.0159 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm
Concentration RSD	135.1 %	0.5 %	39.7 %	3.1 %	571.2 %	65.4 %	114.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	102.1439 %	100.7394 %	101.5349 %	96.1642 %	102.0711 %	99.7961 %
Concentration per Run 1	0.0014 ppm	100.0370 %	100.1148 %	101.3524 %	92.2464 %	101.3257 %	98.9195 %
Concentration per Run 2	0.0014 ppm	102.9262 %	101.2916 %	101.4742 %	97.0473 %	102.1429 %	100.3078 %
Concentration per Run 3	0.0013 ppm	103.4685 %	100.8119 %	101.7780 %	99.1989 %	102.7446 %	100.1611 %
Concentration RSD	3.6 %	1.8 %	0.6 %	0.2 %	3.7 %	0.7 %	0.8 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-07 WG1975196
Analysis started at: 9/24/2024 2:00:08 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0134 ppm	0.0096 ppm	0.0000 ppm	10.4192 ppm
Concentration per Run 1	-0.0001 ppm	0.0046 ppm	-0.0003 ppm	0.0132 ppm	0.0098 ppm	0.0000 ppm	10.6762 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0134 ppm	0.0093 ppm	0.0000 ppm	10.2554 ppm
Concentration per Run 3	-0.0001 ppm	-0.0056 ppm	0.0006 ppm	0.0136 ppm	0.0096 ppm	0.0001 ppm	10.3261 ppm
Concentration RSD	181.0 %	9,497.7 %	451.1 %	1.5 %	2.5 %	221.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0008 ppm	0.0035 ppm	0.9725 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0006 ppm	0.0033 ppm	1.0021 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0008 ppm	0.0032 ppm	0.9666 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0010 ppm	0.0039 ppm	0.9486 ppm	0.0016 ppm
Concentration RSD	164.3 %	77.6 %	11.7 %	25.1 %	11.3 %	2.8 %	4,784.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5683 ppm	0.0096 ppm	0.0003 ppm	13.7428 ppm	-0.0003 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 1	5.5818 ppm	0.0099 ppm	0.0002 ppm	14.0741 ppm	0.0000 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 2	5.5745 ppm	0.0093 ppm	0.0004 ppm	13.5344 ppm	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	5.5485 ppm	0.0096 ppm	0.0003 ppm	13.6199 ppm	-0.0005 ppm	0.0001 ppm	0.0019 ppm
Concentration RSD	0.3 %	2.8 %	25.8 %	2.1 %	110.5 %	130.7 %	107.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	6.9631 ppm	-0.0011 ppm	0.0509 ppm	0.0003 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	6.9835 ppm	-0.0012 ppm	0.0520 ppm	0.0004 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 2	0.0030 ppm	6.9081 ppm	-0.0010 ppm	0.0503 ppm	0.0002 ppm	0.0020 ppm	0.0003 ppm
Concentration per Run 3	-0.0044 ppm	6.9978 ppm	-0.0010 ppm	0.0505 ppm	0.0003 ppm	0.0012 ppm	0.0006 ppm
Concentration RSD	977.4 %	0.7 %	11.0 %	1.9 %	32.2 %	26.8 %	37.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	103.0658 %	99.1461 %	99.4055 %	95.5186 %	99.8334 %	98.7193 %
Concentration per Run 1	0.0008 ppm	100.9902 %	98.9959 %	99.4820 %	90.7784 %	99.3772 %	98.1423 %
Concentration per Run 2	0.0007 ppm	104.8025 %	99.2326 %	100.2811 %	97.1993 %	100.7810 %	98.6987 %
Concentration per Run 3	0.0007 ppm	103.4047 %	99.2097 %	98.4535 %	98.5780 %	99.3421 %	99.3169 %
Concentration RSD	5.0 %	1.9 %	0.1 %	0.9 %	4.4 %	0.8 %	0.6 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-08 WG1975196
Analysis started at: 9/24/2024 2:06:22 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0073 ppm	0.0003 ppm	0.0833 ppm	0.0417 ppm	0.0000 ppm	57.3325 ppm
Concentration per Run 1	-0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0838 ppm	0.0425 ppm	0.0000 ppm	58.1128 ppm
Concentration per Run 2	-0.0003 ppm	0.0070 ppm	0.0012 ppm	0.0825 ppm	0.0414 ppm	0.0000 ppm	57.1872 ppm
Concentration per Run 3	0.0000 ppm	0.0137 ppm	-0.0013 ppm	0.0837 ppm	0.0412 ppm	0.0001 ppm	56.6974 ppm
Concentration RSD	100.5 %	84.5 %	417.8 %	0.9 %	1.6 %	3,242.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0028 ppm	0.0076 ppm	4.2790 ppm	-0.0037 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm	0.0086 ppm	4.3309 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0026 ppm	0.0068 ppm	4.2791 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0028 ppm	0.0074 ppm	4.2269 ppm	-0.0021 ppm
Concentration RSD	253.7 %	365.6 %	171.4 %	9.5 %	12.1 %	1.2 %	38.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.1579 ppm	0.0729 ppm	0.0013 ppm	8.1542 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	11.1855 ppm	0.0738 ppm	0.0014 ppm	8.2676 ppm	0.0002 ppm	-0.0006 ppm	0.0019 ppm
Concentration per Run 2	11.1518 ppm	0.0727 ppm	0.0013 ppm	8.1167 ppm	0.0002 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	11.1364 ppm	0.0722 ppm	0.0013 ppm	8.0782 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm
Concentration RSD	0.2 %	1.1 %	1.8 %	1.2 %	6.5 %	299.2 %	94.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	4.2778 ppm	-0.0010 ppm	0.2698 ppm	0.0006 ppm	0.0019 ppm	0.0007 ppm
Concentration per Run 1	0.0024 ppm	4.2965 ppm	-0.0010 ppm	0.2730 ppm	0.0002 ppm	0.0014 ppm	0.0009 ppm
Concentration per Run 2	-0.0003 ppm	4.2515 ppm	-0.0010 ppm	0.2693 ppm	0.0009 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 3	-0.0019 ppm	4.2855 ppm	-0.0010 ppm	0.2672 ppm	0.0006 ppm	0.0019 ppm	0.0006 ppm
Concentration RSD	4,203.4 %	0.5 %	2.7 %	1.1 %	61.6 %	21.7 %	29.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	102.4643 %	98.1717 %	98.7715 %	96.2679 %	98.2205 %	97.6915 %
Concentration per Run 1	0.0017 ppm	101.7275 %	98.4643 %	98.4431 %	94.1255 %	97.5353 %	97.4631 %
Concentration per Run 2	0.0018 ppm	102.5920 %	98.2497 %	99.4077 %	96.8049 %	98.9020 %	97.8190 %
Concentration per Run 3	0.0015 ppm	103.0735 %	97.8011 %	98.4635 %	97.8734 %	98.2240 %	97.7923 %
Concentration RSD	8.1 %	0.7 %	0.3 %	0.6 %	2.0 %	0.7 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-10 WG1975196
Analysis started at: 9/24/2024 2:12:35 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0067 ppm	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0444 ppm
Concentration per Run 1	0.0000 ppm	-0.0029 ppm	-0.0008 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0538 ppm
Concentration per Run 2	0.0007 ppm	-0.0090 ppm	-0.0004 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0387 ppm
Concentration per Run 3	0.0003 ppm	-0.0083 ppm	0.0016 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0405 ppm
Concentration RSD	100.1 %	49.3 %	1,045.7 %	18.5 %	81.1 %	1,005.4 %	18.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	0.0015 ppm	-0.0449 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0008 ppm	0.0027 ppm	-0.0282 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0003 ppm	0.0007 ppm	-0.1002 ppm	-0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0008 ppm	0.0012 ppm	-0.0064 ppm	-0.0050 ppm
Concentration RSD	96.1 %	241.9 %	10.7 %	39.8 %	68.9 %	109.3 %	72.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0065 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0079 ppm	0.0003 ppm	0.0001 ppm	0.0041 ppm	0.0000 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 3	0.0068 ppm	0.0001 ppm	0.0003 ppm	-0.0025 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm
Concentration RSD	23.1 %	61.3 %	195.4 %	670.3 %	98.7 %	401.4 %	125.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0075 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0075 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.0075 ppm	-0.0009 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0073 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	-0.0005 ppm	0.0004 ppm
Concentration RSD	225.5 %	1.5 %	10.4 %	13.5 %	221.4 %	134.2 %	18.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	103.6213 %	100.2391 %	100.7634 %	96.2641 %	101.4351 %	98.9847 %
Concentration per Run 1	0.0008 ppm	101.9527 %	99.9360 %	100.9061 %	92.7663 %	101.0341 %	98.3568 %
Concentration per Run 2	0.0008 ppm	103.6503 %	100.6095 %	100.7286 %	96.8079 %	101.1753 %	99.3414 %
Concentration per Run 3	0.0009 ppm	105.2609 %	100.1717 %	100.6555 %	99.2181 %	102.0960 %	99.2558 %
Concentration RSD	7.3 %	1.6 %	0.3 %	0.1 %	3.4 %	0.6 %	0.6 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 2:18:53 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5431 ppm	0.5121 ppm	0.5205 ppm	0.5191 ppm	0.4986 ppm	0.5105 ppm	0.5061 ppm
Concentration per Run 1	0.5416 ppm	0.5299 ppm	0.5198 ppm	0.5195 ppm	0.5194 ppm	0.5322 ppm	0.5285 ppm
Concentration per Run 2	0.5438 ppm	0.4985 ppm	0.5193 ppm	0.5195 ppm	0.4880 ppm	0.4991 ppm	0.4898 ppm
Concentration per Run 3	0.5438 ppm	0.5078 ppm	0.5223 ppm	0.5183 ppm	0.4885 ppm	0.5003 ppm	0.5001 ppm
Recovery Percentage 1	108.611 %	102.414 %	104.098 %	103.817 %	99.727 %	102.104 %	101.228 %
Concentration RSD	0.2 %	3.2 %	0.3 %	0.1 %	3.6 %	3.7 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5256 ppm	0.5377 ppm	0.5355 ppm	0.5211 ppm	0.5282 ppm	5.3083 ppm	0.5125 ppm
Concentration per Run 1	0.5261 ppm	0.5378 ppm	0.5350 ppm	0.5197 ppm	0.5460 ppm	5.5415 ppm	0.5348 ppm
Concentration per Run 2	0.5260 ppm	0.5383 ppm	0.5355 ppm	0.5215 ppm	0.5191 ppm	5.1775 ppm	0.5011 ppm
Concentration per Run 3	0.5246 ppm	0.5371 ppm	0.5360 ppm	0.5222 ppm	0.5197 ppm	5.2057 ppm	0.5016 ppm
Recovery Percentage 1	105.119 %	107.544 %	107.105 %	104.228 %	105.650 %	106.165 %	102.505 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %	2.9 %	3.8 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5277 ppm	0.5073 ppm	0.5308 ppm	10.3595 ppm	0.5342 ppm	0.5341 ppm	0.5358 ppm
Concentration per Run 1	0.5279 ppm	0.5271 ppm	0.5270 ppm	10.7846 ppm	0.5350 ppm	0.5336 ppm	0.5370 ppm
Concentration per Run 2	0.5251 ppm	0.4967 ppm	0.5319 ppm	10.1450 ppm	0.5347 ppm	0.5353 ppm	0.5364 ppm
Concentration per Run 3	0.5302 ppm	0.4980 ppm	0.5334 ppm	10.1488 ppm	0.5329 ppm	0.5333 ppm	0.5341 ppm
Recovery Percentage 1	105.550 %	101.450 %	106.157 %	103.595 %	106.842 %	106.814 %	107.166 %
Concentration RSD	0.5 %	3.4 %	0.6 %	3.6 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5206 ppm	5.9885 ppm	0.5202 ppm	0.5048 ppm	0.5307 ppm	0.5348 ppm	0.5181 ppm
Concentration per Run 1	0.5208 ppm	5.9925 ppm	0.5202 ppm	0.5255 ppm	0.5293 ppm	0.5339 ppm	0.5164 ppm
Concentration per Run 2	0.5227 ppm	5.9917 ppm	0.5205 ppm	0.4939 ppm	0.5306 ppm	0.5370 ppm	0.5186 ppm
Concentration per Run 3	0.5185 ppm	5.9814 ppm	0.5198 ppm	0.4948 ppm	0.5322 ppm	0.5336 ppm	0.5191 ppm
Recovery Percentage 1	104.127 %	114.067 %	104.031 %	100.951 %	106.142 %	106.965 %	103.614 %
Concentration RSD	0.4 %	0.1 %	0.1 %	3.6 %	0.3 %	0.4 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5323 ppm	98.3622 %	98.0595 %	97.7668 %	102.4627 %	100.5706 %	101.3666 %
Concentration per Run 1	0.5325 ppm	94.1386 %	98.2779 %	97.7158 %	99.0677 %	100.5066 %	101.3445 %
Concentration per Run 2	0.5327 ppm	100.7255 %	97.6082 %	97.6623 %	103.9001 %	100.3890 %	101.1601 %
Concentration per Run 3	0.5316 ppm	100.2223 %	98.2925 %	97.9222 %	104.4202 %	100.8163 %	101.5953 %
Recovery Percentage 1	106.452 %						
Concentration RSD	0.1 %	3.7 %	0.4 %	0.1 %	2.9 %	0.2 %	0.2 %

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:24:56 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0041 ppm	0.0002 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0020 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Recovery Percentage 1	1.916 %	1.550 %	16.988 %	3.155 %	0.936 %	0.736 %	2.459 %
Concentration RSD	186.5 %	149.6 %	121.4 %	0.7 %	172.9 %	11.6 %	202.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0451 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	-0.0344 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0005 ppm	-0.0027 ppm	-0.0317 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0016 ppm	-0.0693 ppm	-0.0013 ppm
Recovery Percentage 1	-0.101 %	-1.219 %	0.903 %	3.529 %	0.609 %	-1.804 %	-13.762 %
Concentration RSD	514.5 %	55.3 %	567.4 %	49.1 %	862.0 %	46.5 %	158.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0019 ppm	-0.0032 ppm	0.0001 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0025 ppm	-0.0058 ppm	-0.0001 ppm	-0.0008 ppm	0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0018 ppm	-0.0008 ppm	0.0002 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 3	-0.0021 ppm	-0.0001 ppm	0.0013 ppm	-0.0029 ppm	0.0001 ppm	-0.0010 ppm	0.0018 ppm
Recovery Percentage 1	-0.982 %	-0.324 %	3.758 %	-0.158 %	0.385 %	-7.212 %	3.502 %
Concentration RSD	105.6 %	298.3 %	30.7 %	80.0 %	158.5 %	37.8 %	54.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0014 ppm	0.0015 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 2	0.0022 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	0.0014 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0004 ppm
Recovery Percentage 1	16.686 %	0.142 %	-0.430 %	1.622 %	2.001 %	5.228 %	4.862 %
Concentration RSD	28.3 %	98.0 %	93.9 %	45.5 %	75.0 %	54.9 %	28.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.3818 %	98.9415 %	99.5034 %	95.9454 %	100.5797 %	98.3947 %
Concentration per Run 1	0.0001 ppm	96.0302 %	99.0218 %	99.8956 %	91.3295 %	100.9115 %	98.3147 %
Concentration per Run 2	-0.0002 ppm	101.9505 %	98.8781 %	99.3424 %	97.0752 %	100.3746 %	98.3546 %
Concentration per Run 3	0.0000 ppm	103.1648 %	98.9246 %	99.2723 %	99.4316 %	100.4529 %	98.5149 %
Recovery Percentage 1	-0.441 %						
Concentration RSD	580.9 %	3.8 %	0.1 %	0.3 %	4.3 %	0.3 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-01 WG1974743
Analysis started at: 9/24/2024 2:57:07 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0580 ppm	-0.0006 ppm	0.0094 ppm	0.0762 ppm	0.0000 ppm	34.7281 ppm
Concentration per Run 1	0.0005 ppm	0.0512 ppm	0.0007 ppm	0.0094 ppm	0.0756 ppm	0.0001 ppm	34.4242 ppm
Concentration per Run 2	0.0000 ppm	0.0659 ppm	-0.0004 ppm	0.0092 ppm	0.0773 ppm	0.0000 ppm	35.3112 ppm
Concentration per Run 3	-0.0001 ppm	0.0570 ppm	-0.0020 ppm	0.0097 ppm	0.0756 ppm	0.0000 ppm	34.4488 ppm
Concentration RSD	281.6 %	12.8 %	226.7 %	3.1 %	1.3 %	140.1 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0022 ppm	0.0032 ppm	-0.0003 ppm	0.0078 ppm	0.0741 ppm	0.3714 ppm	-0.0027 ppm
Concentration per Run 1	0.0022 ppm	0.0030 ppm	-0.0007 ppm	0.0081 ppm	0.0697 ppm	0.3820 ppm	-0.0025 ppm
Concentration per Run 2	0.0021 ppm	0.0033 ppm	-0.0001 ppm	0.0079 ppm	0.0784 ppm	0.3735 ppm	-0.0025 ppm
Concentration per Run 3	0.0022 ppm	0.0034 ppm	0.0000 ppm	0.0073 ppm	0.0742 ppm	0.3588 ppm	-0.0030 ppm
Concentration RSD	0.3 %	5.3 %	160.1 %	4.9 %	5.8 %	3.2 %	10.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2773 ppm	0.4079 ppm	0.0002 ppm	133.2281 ppm	0.0045 ppm	0.0584 ppm	0.0033 ppm
Concentration per Run 1	1.2740 ppm	0.4035 ppm	0.0004 ppm	132.3367 ppm	0.0045 ppm	0.0591 ppm	0.0036 ppm
Concentration per Run 2	1.2783 ppm	0.4149 ppm	-0.0001 ppm	135.4295 ppm	0.0045 ppm	0.0576 ppm	0.0021 ppm
Concentration per Run 3	1.2796 ppm	0.4053 ppm	0.0004 ppm	131.9182 ppm	0.0044 ppm	0.0584 ppm	0.0042 ppm
Concentration RSD	0.2 %	1.5 %	108.3 %	1.4 %	1.3 %	1.2 %	32.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	2.3056 ppm	0.0001 ppm	0.1111 ppm	0.0007 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	-0.0005 ppm	2.3127 ppm	0.0003 ppm	0.1100 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	2.3046 ppm	0.0003 ppm	0.1129 ppm	0.0009 ppm	-0.0010 ppm	0.0011 ppm
Concentration per Run 3	0.0010 ppm	2.2995 ppm	-0.0003 ppm	0.1103 ppm	0.0007 ppm	0.0007 ppm	0.0009 ppm
Concentration RSD	535.5 %	0.3 %	444.6 %	1.4 %	22.5 %	1,920.7 %	19.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1947 ppm	93.9710 %	93.4989 %	94.5702 %	98.7345 %	92.2857 %	95.2540 %
Concentration per Run 1	0.1955 ppm	94.2217 %	93.4796 %	94.4410 %	99.0036 %	91.9740 %	95.3186 %
Concentration per Run 2	0.1947 ppm	92.5681 %	93.3120 %	94.5467 %	97.5515 %	92.2666 %	95.0005 %
Concentration per Run 3	0.1941 ppm	95.1232 %	93.7049 %	94.7228 %	99.6483 %	92.6165 %	95.4431 %
Concentration RSD	0.4 %	1.4 %	0.2 %	0.2 %	1.1 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-02 WG1974743
Analysis started at: 9/24/2024 3:03:20 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0603 ppm	0.0003 ppm	0.0073 ppm	0.0674 ppm	0.0000 ppm	31.9973 ppm
Concentration per Run 1	0.0002 ppm	0.0709 ppm	0.0014 ppm	0.0079 ppm	0.0704 ppm	0.0001 ppm	33.4196 ppm
Concentration per Run 2	0.0000 ppm	0.0575 ppm	-0.0008 ppm	0.0073 ppm	0.0661 ppm	0.0000 ppm	31.5472 ppm
Concentration per Run 3	0.0003 ppm	0.0526 ppm	0.0004 ppm	0.0065 ppm	0.0655 ppm	0.0000 ppm	31.0251 ppm
Concentration RSD	86.0 %	15.8 %	351.6 %	9.7 %	3.9 %	108.4 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.0033 ppm	-0.0002 ppm	0.0099 ppm	0.1528 ppm	0.4626 ppm	-0.0034 ppm
Concentration per Run 1	0.0013 ppm	0.0033 ppm	-0.0004 ppm	0.0097 ppm	0.1571 ppm	0.5092 ppm	-0.0040 ppm
Concentration per Run 2	0.0012 ppm	0.0033 ppm	-0.0003 ppm	0.0101 ppm	0.1511 ppm	0.4571 ppm	-0.0015 ppm
Concentration per Run 3	0.0013 ppm	0.0032 ppm	0.0002 ppm	0.0098 ppm	0.1500 ppm	0.4215 ppm	-0.0048 ppm
Concentration RSD	4.2 %	1.8 %	171.5 %	1.9 %	2.5 %	9.5 %	49.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8190 ppm	0.4052 ppm	0.0001 ppm	131.4129 ppm	0.0044 ppm	0.0313 ppm	0.0018 ppm
Concentration per Run 1	1.8133 ppm	0.4239 ppm	0.0002 ppm	137.5723 ppm	0.0044 ppm	0.0309 ppm	0.0024 ppm
Concentration per Run 2	1.8206 ppm	0.3991 ppm	0.0000 ppm	129.4874 ppm	0.0042 ppm	0.0320 ppm	0.0010 ppm
Concentration per Run 3	1.8230 ppm	0.3925 ppm	0.0002 ppm	127.1792 ppm	0.0044 ppm	0.0311 ppm	0.0020 ppm
Concentration RSD	0.3 %	4.1 %	99.9 %	4.2 %	2.2 %	1.8 %	40.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	2.0493 ppm	0.0000 ppm	0.0923 ppm	0.0005 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0016 ppm	2.0457 ppm	-0.0003 ppm	0.0967 ppm	0.0007 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 2	0.0029 ppm	2.0508 ppm	0.0000 ppm	0.0910 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	2.0515 ppm	0.0002 ppm	0.0894 ppm	0.0006 ppm	-0.0005 ppm	0.0009 ppm
Concentration RSD	78.5 %	0.2 %	547.4 %	4.1 %	59.2 %	98.0 %	14.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1092 ppm	95.2979 %	94.5509 %	95.6931 %	100.4486 %	93.3077 %	95.9861 %
Concentration per Run 1	0.1090 ppm	91.2285 %	94.7726 %	95.5554 %	96.5440 %	93.3485 %	96.1917 %
Concentration per Run 2	0.1092 ppm	96.3053 %	94.7819 %	95.7080 %	100.9084 %	93.1465 %	95.9626 %
Concentration per Run 3	0.1093 ppm	98.3599 %	94.0980 %	95.8159 %	103.8933 %	93.4281 %	95.8039 %
Concentration RSD	0.2 %	3.9 %	0.4 %	0.1 %	3.7 %	0.2 %	0.2 %

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-03 WG1974743
Analysis started at: 9/24/2024 3:09:30 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0318 ppm	0.0006 ppm	0.0167 ppm	0.1770 ppm	0.0000 ppm	46.1277 ppm
Concentration per Run 1	0.0007 ppm	0.0279 ppm	-0.0004 ppm	0.0165 ppm	0.1814 ppm	0.0000 ppm	47.2892 ppm
Concentration per Run 2	0.0006 ppm	0.0381 ppm	0.0004 ppm	0.0169 ppm	0.1783 ppm	0.0000 ppm	46.3485 ppm
Concentration per Run 3	-0.0003 ppm	0.0293 ppm	0.0019 ppm	0.0167 ppm	0.1712 ppm	0.0000 ppm	44.7454 ppm
Concentration RSD	174.8 %	17.4 %	184.9 %	1.1 %	3.0 %	60.4 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0017 ppm	0.0026 ppm	-0.0006 ppm	0.0031 ppm	0.2154 ppm	0.9795 ppm	-0.0016 ppm
Concentration per Run 1	0.0017 ppm	0.0025 ppm	-0.0009 ppm	0.0029 ppm	0.2201 ppm	0.9817 ppm	-0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0026 ppm	-0.0004 ppm	0.0034 ppm	0.2161 ppm	0.9717 ppm	-0.0027 ppm
Concentration per Run 3	0.0017 ppm	0.0027 ppm	-0.0004 ppm	0.0030 ppm	0.2100 ppm	0.9850 ppm	-0.0019 ppm
Concentration RSD	2.5 %	3.7 %	45.8 %	7.6 %	2.4 %	0.7 %	76.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.5293 ppm	0.3650 ppm	0.0004 ppm	137.5990 ppm	0.0119 ppm	0.1256 ppm	0.0037 ppm
Concentration per Run 1	1.4786 ppm	0.3730 ppm	0.0004 ppm	141.1382 ppm	0.0117 ppm	0.1251 ppm	0.0035 ppm
Concentration per Run 2	1.5611 ppm	0.3677 ppm	0.0003 ppm	138.2246 ppm	0.0122 ppm	0.1264 ppm	0.0042 ppm
Concentration per Run 3	1.5480 ppm	0.3542 ppm	0.0004 ppm	133.4342 ppm	0.0119 ppm	0.1252 ppm	0.0035 ppm
Concentration RSD	2.9 %	2.7 %	14.8 %	2.8 %	1.9 %	0.6 %	11.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	1.5687 ppm	0.0003 ppm	0.1615 ppm	0.0000 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 1	0.0032 ppm	1.5680 ppm	0.0000 ppm	0.1657 ppm	-0.0002 ppm	-0.0016 ppm	0.0012 ppm
Concentration per Run 2	0.0026 ppm	1.5721 ppm	0.0005 ppm	0.1622 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	1.5660 ppm	0.0003 ppm	0.1565 ppm	0.0003 ppm	-0.0004 ppm	0.0010 ppm
Concentration RSD	88.7 %	0.2 %	96.9 %	2.9 %	662.3 %	92.1 %	20.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.8817 ppm	91.2340 %	93.5591 %	93.4801 %	95.9588 %	91.0459 %	95.2588 %
Concentration per Run 1	0.8800 ppm	88.9579 %	95.8080 %	93.3536 %	94.0016 %	91.0930 %	98.2917 %
Concentration per Run 2	0.8834 ppm	90.6747 %	92.2370 %	93.6545 %	95.6006 %	91.0480 %	93.3548 %
Concentration per Run 3	0.8817 ppm	94.0693 %	92.6323 %	93.4322 %	98.2741 %	90.9965 %	94.1300 %
Concentration RSD	0.2 %	2.9 %	2.1 %	0.2 %	2.2 %	0.1 %	2.8 %

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-04 WG1974743
Analysis started at: 9/24/2024 3:15:40 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0554 ppm	0.0002 ppm	0.0083 ppm	0.0513 ppm	0.0000 ppm	54.2001 ppm
Concentration per Run 1	-0.0003 ppm	0.0562 ppm	0.0007 ppm	0.0083 ppm	0.0521 ppm	-0.0001 ppm	55.0900 ppm
Concentration per Run 2	-0.0004 ppm	0.0581 ppm	-0.0011 ppm	0.0083 ppm	0.0519 ppm	0.0000 ppm	54.7727 ppm
Concentration per Run 3	0.0003 ppm	0.0518 ppm	0.0009 ppm	0.0083 ppm	0.0498 ppm	0.0001 ppm	52.7377 ppm
Concentration RSD	313.5 %	5.8 %	641.2 %	0.4 %	2.4 %	3,833.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0021 ppm	-0.0002 ppm	0.0057 ppm	0.0133 ppm	0.6004 ppm	-0.0037 ppm
Concentration per Run 1	0.0004 ppm	0.0024 ppm	-0.0003 ppm	0.0054 ppm	0.0140 ppm	0.6010 ppm	-0.0036 ppm
Concentration per Run 2	0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0057 ppm	0.0128 ppm	0.6218 ppm	-0.0028 ppm
Concentration per Run 3	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0061 ppm	0.0131 ppm	0.5783 ppm	-0.0049 ppm
Concentration RSD	7.7 %	13.1 %	100.0 %	6.8 %	4.9 %	3.6 %	28.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.1774 ppm	0.2361 ppm	0.0002 ppm	141.1895 ppm	0.0046 ppm	0.0079 ppm	0.0025 ppm
Concentration per Run 1	2.1770 ppm	0.2395 ppm	0.0003 ppm	144.2046 ppm	0.0043 ppm	0.0091 ppm	0.0029 ppm
Concentration per Run 2	2.1769 ppm	0.2386 ppm	0.0001 ppm	142.4072 ppm	0.0046 ppm	0.0083 ppm	0.0028 ppm
Concentration per Run 3	2.1784 ppm	0.2302 ppm	0.0002 ppm	136.9568 ppm	0.0048 ppm	0.0064 ppm	0.0019 ppm
Concentration RSD	0.0 %	2.2 %	37.7 %	2.7 %	5.5 %	17.6 %	20.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	3.7793 ppm	-0.0003 ppm	0.1346 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	0.0045 ppm	3.7868 ppm	-0.0007 ppm	0.1373 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	3.7790 ppm	-0.0007 ppm	0.1359 ppm	0.0010 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	0.0009 ppm	3.7720 ppm	0.0004 ppm	0.1306 ppm	0.0007 ppm	-0.0004 ppm	0.0011 ppm
Concentration RSD	124.2 %	0.2 %	202.7 %	2.6 %	39.3 %	586.3 %	33.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0585 ppm	91.2730 %	92.6294 %	93.5492 %	96.3090 %	91.5465 %	95.0892 %
Concentration per Run 1	0.0587 ppm	89.3029 %	92.3364 %	93.4435 %	94.8129 %	91.3161 %	94.8547 %
Concentration per Run 2	0.0583 ppm	90.0379 %	92.5910 %	93.2910 %	94.7543 %	91.4982 %	94.9771 %
Concentration per Run 3	0.0585 ppm	94.4782 %	92.9609 %	93.9130 %	99.3598 %	91.8252 %	95.4359 %
Concentration RSD	0.3 %	3.1 %	0.3 %	0.3 %	2.7 %	0.3 %	0.3 %

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LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:33:26 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0488 ppm	0.5079 ppm	0.0012 ppm	0.0023 ppm	0.4936 ppm	0.5162 ppm	0.5068 ppm
Concentration per Run 1	0.0701 ppm	0.5165 ppm	0.0058 ppm	0.0063 ppm	0.5117 ppm	0.5348 ppm	0.5287 ppm
Concentration per Run 2	0.0432 ppm	0.4984 ppm	-0.0008 ppm	0.0006 ppm	0.4799 ppm	0.5021 ppm	0.4926 ppm
Concentration per Run 3	0.0332 ppm	0.5089 ppm	-0.0016 ppm	-0.0001 ppm	0.4891 ppm	0.5118 ppm	0.4992 ppm
Recovery Percentage 1	9.766 %	101.584 %	0.231 %	0.452 %	98.721 %	103.247 %	101.366 %
Concentration RSD	39.1 %	1.8 %	351.0 %	154.9 %	3.3 %	3.3 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0026 ppm	0.0017 ppm	0.0497 ppm	0.0449 ppm	0.5204 ppm	5.2758 ppm	0.5148 ppm
Concentration per Run 1	0.0071 ppm	0.0064 ppm	0.0723 ppm	0.0643 ppm	0.5380 ppm	5.4804 ppm	0.5348 ppm
Concentration per Run 2	0.0007 ppm	-0.0003 ppm	0.0425 ppm	0.0394 ppm	0.5086 ppm	5.1369 ppm	0.4995 ppm
Concentration per Run 3	0.0001 ppm	-0.0010 ppm	0.0341 ppm	0.0310 ppm	0.5146 ppm	5.2101 ppm	0.5100 ppm
Recovery Percentage 1	0.523 %	0.342 %	9.930 %	8.976 %	104.082 %	105.516 %	102.954 %
Concentration RSD	147.9 %	238.6 %	40.4 %	38.5 %	3.0 %	3.4 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0480 ppm	0.5046 ppm	0.0136 ppm	10.1544 ppm	0.0035 ppm	0.0065 ppm	0.0016 ppm
Concentration per Run 1	0.0703 ppm	0.5213 ppm	0.0231 ppm	10.5500 ppm	0.0079 ppm	0.0108 ppm	0.0052 ppm
Concentration per Run 2	0.0397 ppm	0.4911 ppm	0.0109 ppm	9.8668 ppm	0.0014 ppm	0.0046 ppm	0.0000 ppm
Concentration per Run 3	0.0341 ppm	0.5015 ppm	0.0070 ppm	10.0465 ppm	0.0011 ppm	0.0041 ppm	-0.0005 ppm
Recovery Percentage 1	9.603 %	100.922 %	2.726 %	101.544 %	0.697 %	1.304 %	0.313 %
Concentration RSD	40.5 %	3.0 %	61.6 %	3.5 %	110.4 %	57.2 %	201.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0272 ppm	0.0017 ppm	0.4978 ppm	0.0534 ppm	0.0141 ppm	0.0509 ppm
Concentration per Run 1	0.0067 ppm	0.0768 ppm	0.0064 ppm	0.5159 ppm	0.0754 ppm	0.0268 ppm	0.0727 ppm
Concentration per Run 2	-0.0018 ppm	0.0054 ppm	-0.0003 ppm	0.4838 ppm	0.0469 ppm	0.0110 ppm	0.0443 ppm
Concentration per Run 3	-0.0035 ppm	-0.0005 ppm	-0.0010 ppm	0.4936 ppm	0.0379 ppm	0.0046 ppm	0.0359 ppm
Recovery Percentage 1	0.093 %	0.519 %	0.348 %	99.550 %	10.677 %	2.827 %	10.190 %
Concentration RSD	1,178.1 %	158.0 %	234.4 %	3.3 %	36.7 %	81.0 %	37.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0025 ppm	97.7002 %	291.5060 %	421.7214 %	103.1884 %	332.5018 %	211.0263 %
Concentration per Run 1	0.0071 ppm	94.4516 %	291.5060 %	383.8530 %	100.6731 %	239.0561 %	220.9963 %
Concentration per Run 2	0.0005 ppm	100.0178 %	N/A	N/A	104.5924 %	343.5802 %	228.0353 %
Concentration per Run 3	-0.0001 ppm	98.6312 %	N/A	459.5898 %	104.2997 %	414.8691 %	184.0472 %
Recovery Percentage 1	0.499 %						
Concentration RSD	160.1 %	3.0 %	N/A	12.7 %	2.1 %	26.6 %	11.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:39:48 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0097 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0001 ppm	-0.0094 ppm	0.0010 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 2	-0.0001 ppm	-0.0078 ppm	-0.0022 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	-0.0006 ppm	-0.0118 ppm	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0078 ppm
Recovery Percentage 1	-3.521 %	-9.677 %	-12.260 %	0.778 %	-0.494 %	0.518 %	4.232 %
Concentration RSD	114.6 %	20.4 %	259.4 %	76.9 %	281.3 %	111.9 %	75.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	-0.0075 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0028 ppm	-0.0146 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	-0.0013 ppm	-0.0099 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0009 ppm	0.0020 ppm	-0.0019 ppm
Recovery Percentage 1	-0.486 %	-0.005 %	1.905 %	7.602 %	0.356 %	-0.300 %	-8.286 %
Concentration RSD	122.5 %	20,418.8 %	205.4 %	33.0 %	1,271.5 %	114.3 %	157.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0012 ppm	-0.0015 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	-0.0027 ppm	0.0005 ppm	0.0013 ppm	-0.0035 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 2	0.0012 ppm	-0.0001 ppm	0.0014 ppm	0.0045 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	0.0011 ppm	-0.0054 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Recovery Percentage 1	-0.949 %	1.175 %	2.447 %	-0.074 %	0.455 %	-2.171 %	1.592 %
Concentration RSD	207.6 %	258.4 %	12.7 %	356.6 %	132.6 %	91.0 %	39.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0007 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0012 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.0010 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm
Recovery Percentage 1	7.311 %	0.146 %	-0.935 %	0.221 %	-0.339 %	1.737 %	3.027 %
Concentration RSD	92.3 %	77.7 %	65.9 %	148.0 %	946.5 %	21.0 %	53.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	96.1139 %	97.1680 %	98.2210 %	92.4183 %	98.2618 %	96.0050 %
Concentration per Run 1	-0.0001 ppm	94.2371 %	97.3411 %	98.1636 %	88.6675 %	97.7066 %	95.9655 %
Concentration per Run 2	0.0000 ppm	94.9986 %	96.9031 %	98.1909 %	91.3508 %	98.3072 %	95.8344 %
Concentration per Run 3	-0.0001 ppm	99.1061 %	97.2598 %	98.3086 %	97.2366 %	98.7717 %	96.2152 %
Recovery Percentage 1	-1.114 %						
Concentration RSD	74.2 %	2.7 %	0.2 %	0.1 %	4.7 %	0.5 %	0.2 %

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LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:51:22 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5142 ppm	0.4716 ppm	0.4889 ppm	0.4942 ppm	0.4677 ppm	0.4847 ppm	0.4700 ppm
Concentration per Run 1	0.5137 ppm	0.4809 ppm	0.4889 ppm	0.4946 ppm	0.4841 ppm	0.5005 ppm	0.4845 ppm
Concentration per Run 2	0.5135 ppm	0.4659 ppm	0.4881 ppm	0.4940 ppm	0.4601 ppm	0.4769 ppm	0.4661 ppm
Concentration per Run 3	0.5154 ppm	0.4681 ppm	0.4898 ppm	0.4940 ppm	0.4590 ppm	0.4768 ppm	0.4594 ppm
Recovery Percentage 1	102.841 %	94.329 %	97.789 %	98.838 %	93.545 %	96.949 %	94.001 %
Concentration RSD	0.2 %	1.7 %	0.2 %	0.1 %	3.0 %	2.8 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4875 ppm	0.4973 ppm	0.4972 ppm	0.4854 ppm	0.4733 ppm	4.9849 ppm	0.4772 ppm
Concentration per Run 1	0.4891 ppm	0.4984 ppm	0.4958 ppm	0.4855 ppm	0.4889 ppm	5.1989 ppm	0.4917 ppm
Concentration per Run 2	0.4865 ppm	0.4963 ppm	0.4980 ppm	0.4854 ppm	0.4626 ppm	4.8803 ppm	0.4706 ppm
Concentration per Run 3	0.4869 ppm	0.4970 ppm	0.4980 ppm	0.4854 ppm	0.4684 ppm	4.8755 ppm	0.4693 ppm
Recovery Percentage 1	97.504 %	99.452 %	99.450 %	97.089 %	94.657 %	99.698 %	95.442 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.0 %	2.9 %	3.7 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5056 ppm	0.4758 ppm	0.4779 ppm	9.5379 ppm	0.5039 ppm	0.5056 ppm	0.4997 ppm
Concentration per Run 1	0.5021 ppm	0.4914 ppm	0.4746 ppm	9.8627 ppm	0.5050 ppm	0.5059 ppm	0.4998 ppm
Concentration per Run 2	0.5081 ppm	0.4688 ppm	0.4774 ppm	9.3852 ppm	0.5031 ppm	0.5058 ppm	0.4995 ppm
Concentration per Run 3	0.5064 ppm	0.4673 ppm	0.4816 ppm	9.3657 ppm	0.5037 ppm	0.5050 ppm	0.4999 ppm
Recovery Percentage 1	101.111 %	95.165 %	95.579 %	95.379 %	100.787 %	101.117 %	99.943 %
Concentration RSD	0.6 %	2.8 %	0.7 %	3.0 %	0.2 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5062 ppm	5.5042 ppm	0.4731 ppm	0.4494 ppm	0.5032 ppm	0.4963 ppm	0.4882 ppm
Concentration per Run 1	0.5082 ppm	5.5114 ppm	0.4739 ppm	0.4647 ppm	0.5024 ppm	0.4938 ppm	0.4877 ppm
Concentration per Run 2	0.5046 ppm	5.4956 ppm	0.4717 ppm	0.4418 ppm	0.5033 ppm	0.4966 ppm	0.4892 ppm
Concentration per Run 3	0.5058 ppm	5.5055 ppm	0.4736 ppm	0.4419 ppm	0.5038 ppm	0.4984 ppm	0.4879 ppm
Recovery Percentage 1	101.241 %	104.841 %	94.614 %	89.888 %	100.631 %	99.253 %	97.649 %
Concentration RSD	0.4 %	0.1 %	0.3 %	2.9 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4981 ppm	98.3364 %	98.3686 %	99.5717 %	103.2241 %	100.7265 %	100.0438 %
Concentration per Run 1	0.4994 ppm	94.7942 %	98.8108 %	99.2762 %	99.9243 %	100.3911 %	100.5230 %
Concentration per Run 2	0.4974 ppm	100.2704 %	98.2900 %	99.7727 %	104.6094 %	100.9313 %	99.9862 %
Concentration per Run 3	0.4977 ppm	99.9445 %	98.0049 %	99.6663 %	105.1387 %	100.8572 %	99.6222 %
Recovery Percentage 1	99.628 %						
Concentration RSD	0.2 %	3.1 %	0.4 %	0.3 %	2.8 %	0.3 %	0.5 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:57:25 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0040 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0057 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0051 ppm	-0.0006 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0043 ppm
Concentration per Run 3	-0.0005 ppm	0.0012 ppm	-0.0012 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm	-0.0028 ppm
Recovery Percentage 1	0.444 %	3.976 %	-8.909 %	3.334 %	0.901 %	5.101 %	-0.062 %
Concentration RSD	1,907.2 %	61.1 %	184.3 %	13.3 %	175.9 %	34.1 %	6,094.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0020 ppm	-0.0023 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0022 ppm	0.0104 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0030 ppm	0.0043 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0008 ppm	-0.0217 ppm	-0.0032 ppm
Recovery Percentage 1	0.652 %	-0.384 %	2.735 %	5.141 %	4.010 %	-0.093 %	-29.530 %
Concentration RSD	95.1 %	106.4 %	89.2 %	56.7 %	54.8 %	735.6 %	23.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0019 ppm	0.0092 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0011 ppm	0.0002 ppm	0.0022 ppm	0.0148 ppm	0.0003 ppm	-0.0002 ppm	0.0018 ppm
Concentration per Run 2	-0.0022 ppm	0.0001 ppm	0.0019 ppm	0.0082 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.0003 ppm	0.0017 ppm	0.0047 ppm	0.0004 ppm	-0.0002 ppm	0.0015 ppm
Recovery Percentage 1	-0.949 %	2.167 %	3.861 %	0.461 %	0.792 %	-0.266 %	2.513 %
Concentration RSD	186.8 %	40.0 %	13.7 %	56.0 %	134.9 %	883.5 %	58.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	0.0011 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	0.0009 ppm	0.0018 ppm	-0.0008 ppm	0.0003 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	0.0031 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0017 ppm	0.0005 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm
Recovery Percentage 1	18.990 %	0.229 %	-0.893 %	2.057 %	1.376 %	7.356 %	2.670 %
Concentration RSD	60.3 %	59.4 %	124.7 %	53.4 %	142.6 %	2.1 %	11.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.0772 %	99.5327 %	100.0183 %	96.9335 %	99.9820 %	98.1548 %
Concentration per Run 1	0.0000 ppm	97.0995 %	100.1435 %	100.0725 %	94.2020 %	99.7128 %	98.5907 %
Concentration per Run 2	0.0000 ppm	99.4945 %	99.1920 %	99.9593 %	97.3499 %	99.9983 %	97.8708 %
Concentration per Run 3	0.0000 ppm	100.6375 %	99.2625 %	100.0231 %	99.2487 %	100.2350 %	98.0030 %
Recovery Percentage 1	-0.440 %						
Concentration RSD	98.0 %	1.8 %	0.5 %	0.1 %	2.6 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975268-2 WG1975268
Analysis started at: 9/24/2024 4:03:58 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0557 ppm	2.1024 ppm	0.1253 ppm	1.0043 ppm	2.0741 ppm	0.0545 ppm	10.4090 ppm
Concentration per Run 1	0.0557 ppm	2.1415 ppm	0.1260 ppm	1.0075 ppm	2.1212 ppm	0.0557 ppm	10.6438 ppm
Concentration per Run 2	0.0559 ppm	2.1538 ppm	0.1269 ppm	1.0025 ppm	2.1133 ppm	0.0556 ppm	10.6428 ppm
Concentration per Run 3	0.0554 ppm	2.0119 ppm	0.1229 ppm	1.0030 ppm	1.9879 ppm	0.0522 ppm	9.9404 ppm
Concentration RSD	0.5 %	3.7 %	1.7 %	0.3 %	3.6 %	3.7 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0551 ppm	0.5146 ppm	0.2124 ppm	0.2658 ppm	1.0527 ppm	10.8644 ppm	-0.0003 ppm
Concentration per Run 1	0.0553 ppm	0.5163 ppm	0.2120 ppm	0.2667 ppm	1.0711 ppm	11.1107 ppm	-0.0018 ppm
Concentration per Run 2	0.0550 ppm	0.5136 ppm	0.2126 ppm	0.2659 ppm	1.0761 ppm	11.0598 ppm	0.0003 ppm
Concentration per Run 3	0.0550 ppm	0.5139 ppm	0.2127 ppm	0.2649 ppm	1.0110 ppm	10.4228 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	3.4 %	3.5 %	465.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6237 ppm	0.5372 ppm	0.9358 ppm	10.5516 ppm	0.5242 ppm	0.5627 ppm	0.5119 ppm
Concentration per Run 1	10.6303 ppm	0.5495 ppm	0.9160 ppm	10.7879 ppm	0.5258 ppm	0.5645 ppm	0.5084 ppm
Concentration per Run 2	10.6369 ppm	0.5468 ppm	0.9358 ppm	10.7458 ppm	0.5232 ppm	0.5616 ppm	0.5116 ppm
Concentration per Run 3	10.6040 ppm	0.5155 ppm	0.9556 ppm	10.1210 ppm	0.5237 ppm	0.5619 ppm	0.5158 ppm
Concentration RSD	0.2 %	3.5 %	2.1 %	3.5 %	0.3 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1254 ppm	0.7439 ppm	0.9936 ppm	0.9985 ppm	1.0662 ppm	0.1241 ppm	0.5268 ppm
Concentration per Run 1	0.1249 ppm	0.7454 ppm	0.9946 ppm	1.0213 ppm	1.0688 ppm	0.1249 ppm	0.5281 ppm
Concentration per Run 2	0.1276 ppm	0.7422 ppm	0.9926 ppm	1.0173 ppm	1.0658 ppm	0.1235 ppm	0.5266 ppm
Concentration per Run 3	0.1237 ppm	0.7442 ppm	0.9936 ppm	0.9571 ppm	1.0639 ppm	0.1238 ppm	0.5257 ppm
Concentration RSD	1.6 %	0.2 %	0.1 %	3.6 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5236 ppm	93.0334 %	97.5017 %	98.4551 %	91.9695 %	99.6356 %	98.0528 %
Concentration per Run 1	0.5252 ppm	90.5902 %	97.5929 %	98.6106 %	88.5270 %	99.2983 %	98.0198 %
Concentration per Run 2	0.5222 ppm	91.2930 %	97.6967 %	98.5991 %	90.6235 %	99.9497 %	97.9535 %
Concentration per Run 3	0.5233 ppm	97.2168 %	97.2156 %	98.1555 %	96.7579 %	99.6589 %	98.1851 %
Concentration RSD	0.3 %	3.9 %	0.3 %	0.3 %	4.7 %	0.3 %	0.1 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-01D2 WG1974088
Analysis started at: 9/24/2024 4:11:58 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	10.6846 ppm	0.0166 ppm	0.0095 ppm	0.0345 ppm	0.0007 ppm	6.8915 ppm
Concentration per Run 1	0.0007 ppm	10.7952 ppm	0.0172 ppm	0.0092 ppm	0.0348 ppm	0.0008 ppm	6.9600 ppm
Concentration per Run 2	0.0007 ppm	10.7543 ppm	0.0153 ppm	0.0095 ppm	0.0346 ppm	0.0007 ppm	6.9265 ppm
Concentration per Run 3	0.0009 ppm	10.5043 ppm	0.0175 ppm	0.0098 ppm	0.0342 ppm	0.0007 ppm	6.7879 ppm
Concentration RSD	12.9 %	1.5 %	7.2 %	2.8 %	0.8 %	4.0 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0093 ppm	0.0332 ppm	0.0108 ppm	17.0913 ppm	1.3722 ppm	0.0195 ppm
Concentration per Run 1	0.0008 ppm	0.0092 ppm	0.0331 ppm	0.0107 ppm	17.2364 ppm	1.4030 ppm	0.0184 ppm
Concentration per Run 2	0.0008 ppm	0.0093 ppm	0.0336 ppm	0.0107 ppm	17.1825 ppm	1.3780 ppm	0.0205 ppm
Concentration per Run 3	0.0008 ppm	0.0095 ppm	0.0330 ppm	0.0110 ppm	16.8548 ppm	1.3356 ppm	0.0197 ppm
Concentration RSD	4.4 %	1.8 %	0.9 %	1.4 %	1.2 %	2.5 %	5.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5563 ppm	0.1809 ppm	0.0038 ppm	0.1981 ppm	0.0189 ppm	0.0437 ppm	0.0064 ppm
Concentration per Run 1	4.5380 ppm	0.1825 ppm	0.0041 ppm	0.1879 ppm	0.0191 ppm	0.0434 ppm	0.0054 ppm
Concentration per Run 2	4.5606 ppm	0.1821 ppm	0.0037 ppm	0.2067 ppm	0.0188 ppm	0.0439 ppm	0.0063 ppm
Concentration per Run 3	4.5702 ppm	0.1782 ppm	0.0036 ppm	0.1996 ppm	0.0189 ppm	0.0439 ppm	0.0074 ppm
Concentration RSD	0.4 %	1.3 %	7.1 %	4.8 %	0.8 %	0.6 %	16.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	2.0042 ppm	0.0029 ppm	0.0332 ppm	1.1253 ppm	0.0026 ppm	0.0341 ppm
Concentration per Run 1	0.0000 ppm	1.9993 ppm	0.0030 ppm	0.0336 ppm	1.1216 ppm	0.0033 ppm	0.0337 ppm
Concentration per Run 2	0.0041 ppm	2.0008 ppm	0.0027 ppm	0.0335 ppm	1.1249 ppm	0.0024 ppm	0.0343 ppm
Concentration per Run 3	0.0002 ppm	2.0125 ppm	0.0031 ppm	0.0326 ppm	1.1294 ppm	0.0021 ppm	0.0344 ppm
Concentration RSD	160.1 %	0.4 %	6.9 %	1.6 %	0.3 %	24.9 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1136 ppm	104.3220 %	105.7670 %	107.2671 %	116.4535 %	100.5483 %	101.6312 %
Concentration per Run 1	0.1134 ppm	102.8012 %	105.5486 %	107.5441 %	119.5653 %	101.1015 %	101.8376 %
Concentration per Run 2	0.1133 ppm	104.1873 %	106.0357 %	107.0580 %	116.3863 %	100.3987 %	101.6876 %
Concentration per Run 3	0.1141 ppm	105.9774 %	105.7167 %	107.1991 %	113.4091 %	100.1448 %	101.3683 %
Concentration RSD	0.4 %	1.5 %	0.2 %	0.2 %	2.6 %	0.5 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-02D2 WG1974088
Analysis started at: 9/24/2024 4:18:08 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	13.1129 ppm	0.0130 ppm	0.0106 ppm	0.0442 ppm	0.0008 ppm	8.0782 ppm
Concentration per Run 1	0.0009 ppm	13.4192 ppm	0.0138 ppm	0.0104 ppm	0.0453 ppm	0.0008 ppm	8.2763 ppm
Concentration per Run 2	0.0005 ppm	13.5618 ppm	0.0110 ppm	0.0108 ppm	0.0459 ppm	0.0008 ppm	8.3423 ppm
Concentration per Run 3	0.0009 ppm	12.3577 ppm	0.0143 ppm	0.0106 ppm	0.0413 ppm	0.0008 ppm	7.6159 ppm
Concentration RSD	30.3 %	5.0 %	13.5 %	2.1 %	5.7 %	5.0 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0006 ppm	0.0079 ppm	0.0325 ppm	0.0066 ppm	21.0323 ppm	1.8660 ppm	0.0249 ppm
Concentration per Run 1	0.0006 ppm	0.0080 ppm	0.0324 ppm	0.0065 ppm	21.4691 ppm	1.9360 ppm	0.0252 ppm
Concentration per Run 2	0.0006 ppm	0.0078 ppm	0.0322 ppm	0.0065 ppm	21.7516 ppm	1.9281 ppm	0.0252 ppm
Concentration per Run 3	0.0006 ppm	0.0078 ppm	0.0330 ppm	0.0068 ppm	19.8762 ppm	1.7338 ppm	0.0244 ppm
Concentration RSD	2.3 %	1.9 %	1.2 %	3.2 %	4.8 %	6.1 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5892 ppm	0.1944 ppm	0.0013 ppm	0.2567 ppm	0.0194 ppm	0.0655 ppm	0.0043 ppm
Concentration per Run 1	5.5887 ppm	0.1992 ppm	0.0013 ppm	0.2698 ppm	0.0191 ppm	0.0652 ppm	0.0039 ppm
Concentration per Run 2	5.5975 ppm	0.1999 ppm	0.0011 ppm	0.2589 ppm	0.0196 ppm	0.0654 ppm	0.0049 ppm
Concentration per Run 3	5.5815 ppm	0.1839 ppm	0.0013 ppm	0.2413 ppm	0.0196 ppm	0.0659 ppm	0.0043 ppm
Concentration RSD	0.1 %	4.6 %	8.7 %	5.6 %	1.4 %	0.6 %	10.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	2.0442 ppm	0.0019 ppm	0.0362 ppm	0.8489 ppm	0.0024 ppm	0.0368 ppm
Concentration per Run 1	0.0021 ppm	2.0475 ppm	0.0022 ppm	0.0368 ppm	0.8486 ppm	0.0029 ppm	0.0368 ppm
Concentration per Run 2	0.0022 ppm	2.0405 ppm	0.0018 ppm	0.0376 ppm	0.8499 ppm	0.0020 ppm	0.0368 ppm
Concentration per Run 3	0.0011 ppm	2.0447 ppm	0.0019 ppm	0.0342 ppm	0.8483 ppm	0.0023 ppm	0.0368 ppm
Concentration RSD	32.5 %	0.2 %	10.2 %	4.9 %	0.1 %	19.0 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1020 ppm	95.3530 %	103.8629 %	105.1612 %	92.4303 %	99.5986 %	99.0440 %
Concentration per Run 1	0.1021 ppm	92.8033 %	104.2011 %	105.2185 %	89.5565 %	99.5391 %	99.2181 %
Concentration per Run 2	0.1021 ppm	93.0656 %	103.4725 %	105.0662 %	90.7708 %	99.5901 %	98.7959 %
Concentration per Run 3	0.1019 ppm	100.1902 %	103.9152 %	105.1989 %	96.9637 %	99.6666 %	99.1181 %
Concentration RSD	0.1 %	4.4 %	0.4 %	0.1 %	4.3 %	0.1 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-07D2 WG1974088
Analysis started at: 9/24/2024 4:24:20 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	12.3220 ppm	0.0197 ppm	0.0108 ppm	0.0240 ppm	0.0008 ppm	5.6957 ppm
Concentration per Run 1	0.0004 ppm	12.6381 ppm	0.0197 ppm	0.0102 ppm	0.0246 ppm	0.0008 ppm	5.8500 ppm
Concentration per Run 2	0.0012 ppm	12.1575 ppm	0.0212 ppm	0.0113 ppm	0.0237 ppm	0.0009 ppm	5.6221 ppm
Concentration per Run 3	0.0008 ppm	12.1702 ppm	0.0181 ppm	0.0109 ppm	0.0238 ppm	0.0009 ppm	5.6148 ppm
Concentration RSD	44.8 %	2.2 %	7.9 %	4.9 %	2.1 %	3.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	0.0108 ppm	0.0379 ppm	0.0095 ppm	22.8465 ppm	1.7750 ppm	0.0253 ppm
Concentration per Run 1	0.0003 ppm	0.0106 ppm	0.0376 ppm	0.0094 ppm	23.4054 ppm	1.8211 ppm	0.0286 ppm
Concentration per Run 2	0.0002 ppm	0.0108 ppm	0.0382 ppm	0.0095 ppm	22.5607 ppm	1.7290 ppm	0.0259 ppm
Concentration per Run 3	0.0003 ppm	0.0110 ppm	0.0379 ppm	0.0095 ppm	22.5733 ppm	1.7748 ppm	0.0214 ppm
Concentration RSD	12.5 %	2.0 %	0.8 %	0.8 %	2.1 %	2.6 %	14.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9024 ppm	0.2027 ppm	0.0021 ppm	0.2728 ppm	0.0219 ppm	0.0122 ppm	0.0022 ppm
Concentration per Run 1	5.8896 ppm	0.2075 ppm	0.0020 ppm	0.2813 ppm	0.0218 ppm	0.0116 ppm	0.0032 ppm
Concentration per Run 2	5.9180 ppm	0.2005 ppm	0.0022 ppm	0.2677 ppm	0.0220 ppm	0.0123 ppm	0.0007 ppm
Concentration per Run 3	5.8994 ppm	0.2000 ppm	0.0022 ppm	0.2694 ppm	0.0219 ppm	0.0128 ppm	0.0028 ppm
Concentration RSD	0.2 %	2.1 %	5.7 %	2.7 %	0.5 %	5.2 %	60.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	2.3956 ppm	0.0027 ppm	0.0249 ppm	0.9748 ppm	0.0020 ppm	0.0421 ppm
Concentration per Run 1	0.0011 ppm	2.3954 ppm	0.0025 ppm	0.0256 ppm	0.9714 ppm	0.0018 ppm	0.0420 ppm
Concentration per Run 2	0.0011 ppm	2.3873 ppm	0.0032 ppm	0.0246 ppm	0.9773 ppm	0.0026 ppm	0.0422 ppm
Concentration per Run 3	0.0026 ppm	2.4040 ppm	0.0025 ppm	0.0245 ppm	0.9757 ppm	0.0016 ppm	0.0420 ppm
Concentration RSD	53.8 %	0.3 %	15.7 %	2.4 %	0.3 %	26.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0912 ppm	107.7197 %	107.3504 %	108.6417 %	103.8736 %	100.6267 %	100.7479 %
Concentration per Run 1	0.0911 ppm	105.4594 %	107.3849 %	108.9042 %	101.5450 %	101.0854 %	100.6502 %
Concentration per Run 2	0.0912 ppm	109.4557 %	107.2755 %	108.9228 %	105.2972 %	100.8443 %	100.6054 %
Concentration per Run 3	0.0915 ppm	108.2440 %	107.3909 %	108.0982 %	104.7785 %	99.9503 %	100.9882 %
Concentration RSD	0.2 %	1.9 %	0.1 %	0.4 %	2.0 %	0.6 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-08D2 WG1974088
Analysis started at: 9/24/2024 4:30:32 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	11.9023 ppm	0.0208 ppm	0.0094 ppm	0.0266 ppm	0.0008 ppm	6.0980 ppm
Concentration per Run 1	0.0004 ppm	11.8716 ppm	0.0206 ppm	0.0099 ppm	0.0264 ppm	0.0008 ppm	6.0882 ppm
Concentration per Run 2	0.0004 ppm	12.2181 ppm	0.0199 ppm	0.0090 ppm	0.0274 ppm	0.0007 ppm	6.2540 ppm
Concentration per Run 3	0.0005 ppm	11.6172 ppm	0.0220 ppm	0.0093 ppm	0.0259 ppm	0.0008 ppm	5.9518 ppm
Concentration RSD	11.2 %	2.5 %	5.0 %	4.7 %	2.9 %	3.1 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0090 ppm	0.0357 ppm	0.0109 ppm	21.7153 ppm	1.5899 ppm	0.0235 ppm
Concentration per Run 1	0.0008 ppm	0.0091 ppm	0.0361 ppm	0.0112 ppm	21.6334 ppm	1.5870 ppm	0.0218 ppm
Concentration per Run 2	0.0009 ppm	0.0089 ppm	0.0364 ppm	0.0110 ppm	22.2689 ppm	1.6588 ppm	0.0248 ppm
Concentration per Run 3	0.0008 ppm	0.0092 ppm	0.0345 ppm	0.0105 ppm	21.2436 ppm	1.5239 ppm	0.0240 ppm
Concentration RSD	2.4 %	1.6 %	2.8 %	3.3 %	2.4 %	4.2 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.4831 ppm	0.1973 ppm	0.0014 ppm	0.2570 ppm	0.0219 ppm	0.0094 ppm	0.0028 ppm
Concentration per Run 1	5.5269 ppm	0.1967 ppm	0.0013 ppm	0.2420 ppm	0.0221 ppm	0.0094 ppm	0.0026 ppm
Concentration per Run 2	5.5226 ppm	0.2020 ppm	0.0016 ppm	0.2807 ppm	0.0217 ppm	0.0090 ppm	0.0032 ppm
Concentration per Run 3	5.3999 ppm	0.1933 ppm	0.0013 ppm	0.2483 ppm	0.0220 ppm	0.0098 ppm	0.0026 ppm
Concentration RSD	1.3 %	2.2 %	13.4 %	8.1 %	0.8 %	4.1 %	13.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	2.2636 ppm	0.0021 ppm	0.0260 ppm	0.9161 ppm	0.0010 ppm	0.0405 ppm
Concentration per Run 1	0.0010 ppm	2.2686 ppm	0.0028 ppm	0.0260 ppm	0.9244 ppm	0.0009 ppm	0.0406 ppm
Concentration per Run 2	0.0006 ppm	2.2629 ppm	0.0016 ppm	0.0267 ppm	0.9221 ppm	0.0018 ppm	0.0409 ppm
Concentration per Run 3	0.0014 ppm	2.2592 ppm	0.0019 ppm	0.0254 ppm	0.9018 ppm	0.0002 ppm	0.0400 ppm
Concentration RSD	42.2 %	0.2 %	30.0 %	2.4 %	1.4 %	85.6 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1975 ppm	100.8079 %	105.4085 %	106.9695 %	96.8589 %	99.4413 %	98.9029 %
Concentration per Run 1	0.1976 ppm	101.5761 %	104.8962 %	107.2056 %	97.0072 %	99.4605 %	98.3132 %
Concentration per Run 2	0.1975 ppm	98.2392 %	104.6692 %	106.7000 %	94.8517 %	99.3895 %	98.1121 %
Concentration per Run 3	0.1974 ppm	102.6085 %	106.6600 %	107.0028 %	98.7179 %	99.4738 %	100.2834 %
Concentration RSD	0.1 %	2.3 %	1.0 %	0.2 %	2.0 %	0.0 %	1.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 4:36:44 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5262 ppm	0.4811 ppm	0.5005 ppm	0.5018 ppm	0.4741 ppm	0.4961 ppm	0.4777 ppm
Concentration per Run 1	0.5322 ppm	0.4804 ppm	0.4996 ppm	0.5002 ppm	0.4909 ppm	0.5132 ppm	0.4932 ppm
Concentration per Run 2	0.5294 ppm	0.4956 ppm	0.5019 ppm	0.5027 ppm	0.4679 ppm	0.4901 ppm	0.4767 ppm
Concentration per Run 3	0.5171 ppm	0.4675 ppm	0.4999 ppm	0.5025 ppm	0.4634 ppm	0.4852 ppm	0.4633 ppm
Recovery Percentage 1	105.245 %	96.230 %	100.094 %	100.364 %	94.813 %	99.229 %	95.543 %
Concentration RSD	1.5 %	2.9 %	0.2 %	0.3 %	3.1 %	3.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4950 ppm	0.5049 ppm	0.5093 ppm	0.4913 ppm	0.4954 ppm	5.0877 ppm	0.4873 ppm
Concentration per Run 1	0.4937 ppm	0.5037 ppm	0.5155 ppm	0.4945 ppm	0.5167 ppm	5.2310 ppm	0.5022 ppm
Concentration per Run 2	0.4958 ppm	0.5054 ppm	0.5110 ppm	0.4942 ppm	0.4866 ppm	5.0635 ppm	0.4833 ppm
Concentration per Run 3	0.4954 ppm	0.5055 ppm	0.5012 ppm	0.4853 ppm	0.4829 ppm	4.9685 ppm	0.4765 ppm
Recovery Percentage 1	98.991 %	100.973 %	101.854 %	98.267 %	99.077 %	101.753 %	97.466 %
Concentration RSD	0.2 %	0.2 %	1.4 %	1.1 %	3.7 %	2.6 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5155 ppm	0.4849 ppm	0.4881 ppm	9.6880 ppm	0.5118 ppm	0.5139 ppm	0.5095 ppm
Concentration per Run 1	0.5207 ppm	0.5003 ppm	0.4833 ppm	10.0229 ppm	0.5114 ppm	0.5145 ppm	0.5081 ppm
Concentration per Run 2	0.5173 ppm	0.4799 ppm	0.4883 ppm	9.5757 ppm	0.5123 ppm	0.5128 ppm	0.5093 ppm
Concentration per Run 3	0.5087 ppm	0.4744 ppm	0.4926 ppm	9.4654 ppm	0.5116 ppm	0.5143 ppm	0.5111 ppm
Recovery Percentage 1	103.107 %	96.972 %	97.616 %	96.880 %	102.360 %	102.779 %	101.899 %
Concentration RSD	1.2 %	2.8 %	1.0 %	3.0 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5177 ppm	5.6025 ppm	0.4830 ppm	0.4607 ppm	0.5125 ppm	0.5013 ppm	0.4949 ppm
Concentration per Run 1	0.5144 ppm	5.5919 ppm	0.4824 ppm	0.4758 ppm	0.5170 ppm	0.5028 ppm	0.5000 ppm
Concentration per Run 2	0.5216 ppm	5.6026 ppm	0.4834 ppm	0.4553 ppm	0.5153 ppm	0.5006 ppm	0.4962 ppm
Concentration per Run 3	0.5172 ppm	5.6128 ppm	0.4831 ppm	0.4509 ppm	0.5052 ppm	0.5007 ppm	0.4884 ppm
Recovery Percentage 1	103.550 %	106.713 %	96.593 %	92.132 %	102.499 %	100.270 %	98.979 %
Concentration RSD	0.7 %	0.2 %	0.1 %	2.9 %	1.2 %	0.2 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5070 ppm	97.1074 %	97.5179 %	98.2442 %	100.3587 %	99.3849 %	98.1512 %
Concentration per Run 1	0.5060 ppm	93.9936 %	96.8369 %	98.1112 %	97.6097 %	99.3029 %	97.3869 %
Concentration per Run 2	0.5075 ppm	97.5437 %	97.5340 %	98.1635 %	99.9746 %	99.2667 %	97.9785 %
Concentration per Run 3	0.5074 ppm	99.7850 %	98.1828 %	98.4580 %	103.4918 %	99.5849 %	99.0882 %
Recovery Percentage 1	101.398 %						
Concentration RSD	0.2 %	3.0 %	0.7 %	0.2 %	2.9 %	0.2 %	0.9 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 4:42:47 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0029 ppm	0.0006 ppm	0.0012 ppm	0.0005 ppm	0.0006 ppm	-0.0015 ppm
Concentration per Run 1	0.0006 ppm	-0.0092 ppm	-0.0004 ppm	0.0017 ppm	0.0007 ppm	0.0008 ppm	-0.0051 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0007 ppm	-0.0009 ppm	0.0018 ppm	0.0008 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm
Recovery Percentage 1	7.045 %	-2.937 %	11.679 %	3.966 %	4.538 %	11.087 %	-1.544 %
Concentration RSD	63.9 %	188.7 %	191.7 %	37.0 %	42.0 %	45.9 %	215.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0044 ppm	0.0023 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0048 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0012 ppm	0.0042 ppm	0.0104 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0041 ppm	-0.0035 ppm	-0.0019 ppm
Recovery Percentage 1	1.673 %	-0.451 %	0.993 %	8.839 %	8.770 %	0.092 %	7.539 %
Concentration RSD	53.9 %	98.8 %	411.9 %	32.2 %	8.9 %	315.8 %	345.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0007 ppm	0.0021 ppm	-0.0029 ppm	0.0003 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 1	-0.0014 ppm	0.0010 ppm	0.0023 ppm	0.0099 ppm	0.0000 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 2	-0.0005 ppm	0.0008 ppm	0.0024 ppm	-0.0065 ppm	0.0006 ppm	-0.0013 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0018 ppm	-0.0120 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-0.609 %	7.357 %	4.268 %	-0.144 %	1.244 %	-4.990 %	3.874 %
Concentration RSD	122.8 %	39.2 %	14.1 %	396.0 %	92.2 %	140.5 %	80.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0018 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.0029 ppm	0.0025 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0025 ppm	0.0006 ppm	0.0005 ppm	0.0006 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	0.0010 ppm	0.0005 ppm	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	11.620 %	0.364 %	0.329 %	6.460 %	4.542 %	3.647 %	2.026 %
Concentration RSD	145.9 %	62.7 %	302.5 %	42.1 %	69.7 %	25.6 %	163.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	92.1748 %	97.3531 %	98.0821 %	88.8937 %	97.7022 %	95.4157 %
Concentration per Run 1	0.0002 ppm	88.0500 %	97.0587 %	98.0210 %	83.8120 %	97.3939 %	95.1718 %
Concentration per Run 2	0.0000 ppm	92.2536 %	97.6916 %	98.3097 %	89.1492 %	98.0367 %	95.6118 %
Concentration per Run 3	0.0001 ppm	96.2206 %	97.3089 %	97.9157 %	93.7197 %	97.6761 %	95.4635 %
Recovery Percentage 1	1.404 %						
Concentration RSD	155.1 %	4.4 %	0.3 %	0.2 %	5.6 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-1 WG1974264
Analysis started at: 9/24/2024 4:51:09 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0010 ppm	-0.0013 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0224 ppm
Concentration per Run 1	0.0004 ppm	-0.0029 ppm	0.0006 ppm	0.0014 ppm	-0.0003 ppm	0.0000 ppm	0.0240 ppm
Concentration per Run 2	-0.0001 ppm	0.0015 ppm	-0.0019 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0278 ppm
Concentration per Run 3	0.0006 ppm	0.0043 ppm	-0.0028 ppm	0.0016 ppm	0.0002 ppm	-0.0001 ppm	0.0154 ppm
Recovery Percentage 1	4.445 %	0.956 %	-26.983 %	4.579 %	-0.725 %	-0.856 %	22.375 %
Concentration RSD	112.8 %	378.0 %	132.5 %	15.7 %	318.9 %	125.8 %	28.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	0.0007 ppm	0.0028 ppm	-0.0221 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0012 ppm	0.0005 ppm	0.0053 ppm	-0.0210 ppm	-0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0010 ppm	0.0009 ppm	0.0006 ppm	-0.0416 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0008 ppm	0.0025 ppm	-0.0038 ppm	-0.0024 ppm
Recovery Percentage 1	0.172 %	-1.217 %	-11.216 %	7.168 %	5.588 %	-0.885 %	-19.594 %
Concentration RSD	337.2 %	82.4 %	10.2 %	26.3 %	83.6 %	85.6 %	49.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0001 ppm	0.0008 ppm	0.0074 ppm	0.0000 ppm	-0.0011 ppm	0.0019 ppm
Concentration per Run 1	0.0017 ppm	-0.0001 ppm	0.0009 ppm	0.0059 ppm	-0.0001 ppm	-0.0014 ppm	0.0029 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	0.0007 ppm	0.0066 ppm	0.0001 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0003 ppm	0.0008 ppm	0.0095 ppm	-0.0001 ppm	-0.0011 ppm	0.0032 ppm
Recovery Percentage 1	1.415 %	1.005 %	1.592 %	0.368 %	-0.101 %	-11.086 %	3.878 %
Concentration RSD	27.3 %	240.6 %	14.2 %	25.9 %	545.3 %	22.2 %	99.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0037 ppm	0.0091 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.0033 ppm	0.0089 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 2	0.0040 ppm	0.0096 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0038 ppm	0.0089 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0002 ppm
Recovery Percentage 1	37.033 %	1.823 %	0.316 %	0.468 %	3.557 %	-4.787 %	2.887 %
Concentration RSD	10.9 %	4.7 %	150.2 %	373.3 %	72.3 %	30.9 %	24.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	93.7717 %	97.6619 %	98.7534 %	105.0823 %	96.5884 %	97.6413 %
Concentration per Run 1	0.0030 ppm	86.1048 %	97.1241 %	98.1460 %	104.0652 %	96.2054 %	97.3867 %
Concentration per Run 2	0.0030 ppm	96.0173 %	97.3001 %	98.4624 %	104.9418 %	95.9737 %	97.1889 %
Concentration per Run 3	0.0031 ppm	99.1930 %	98.5615 %	99.6517 %	106.2399 %	97.5861 %	98.3483 %
Recovery Percentage 1	60.883 %						
Concentration RSD	0.9 %	7.3 %	0.8 %	0.8 %	1.0 %	0.9 %	0.6 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-2 WG1974264
Analysis started at: 9/24/2024 4:57:26 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0533 ppm	1.9476 ppm	0.1167 ppm	0.9383 ppm	1.9377 ppm	0.0515 ppm	9.5855 ppm
Concentration per Run 1	0.0527 ppm	2.0480 ppm	0.1163 ppm	0.9369 ppm	2.0340 ppm	0.0540 ppm	10.0647 ppm
Concentration per Run 2	0.0540 ppm	1.9284 ppm	0.1187 ppm	0.9379 ppm	1.9255 ppm	0.0512 ppm	9.5319 ppm
Concentration per Run 3	0.0533 ppm	1.8662 ppm	0.1150 ppm	0.9402 ppm	1.8538 ppm	0.0493 ppm	9.1600 ppm
Concentration RSD	1.3 %	4.7 %	1.6 %	0.2 %	4.7 %	4.6 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4852 ppm	0.1982 ppm	0.2481 ppm	1.0071 ppm	10.2193 ppm	-0.0025 ppm
Concentration per Run 1	0.0508 ppm	0.4850 ppm	0.1979 ppm	0.2491 ppm	1.0511 ppm	10.7898 ppm	-0.0001 ppm
Concentration per Run 2	0.0507 ppm	0.4851 ppm	0.1986 ppm	0.2474 ppm	1.0025 ppm	10.1589 ppm	-0.0025 ppm
Concentration per Run 3	0.0509 ppm	0.4854 ppm	0.1981 ppm	0.2477 ppm	0.9677 ppm	9.7092 ppm	-0.0048 ppm
Concentration RSD	0.2 %	0.0 %	0.2 %	0.4 %	4.2 %	5.3 %	95.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.7221 ppm	0.5059 ppm	0.9735 ppm	9.7976 ppm	0.4974 ppm	0.5305 ppm	0.4973 ppm
Concentration per Run 1	9.7460 ppm	0.5302 ppm	0.9710 ppm	10.2873 ppm	0.4965 ppm	0.5296 ppm	0.4949 ppm
Concentration per Run 2	9.7095 ppm	0.5034 ppm	0.9747 ppm	9.7242 ppm	0.4978 ppm	0.5310 ppm	0.4974 ppm
Concentration per Run 3	9.7108 ppm	0.4840 ppm	0.9750 ppm	9.3813 ppm	0.4980 ppm	0.5311 ppm	0.4995 ppm
Concentration RSD	0.2 %	4.6 %	0.2 %	4.7 %	0.2 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1163 ppm	0.6015 ppm	0.9442 ppm	0.9329 ppm	0.9905 ppm	0.1145 ppm	0.4928 ppm
Concentration per Run 1	0.1160 ppm	0.6004 ppm	0.9411 ppm	0.9782 ppm	0.9922 ppm	0.1154 ppm	0.4935 ppm
Concentration per Run 2	0.1135 ppm	0.6029 ppm	0.9454 ppm	0.9282 ppm	0.9902 ppm	0.1140 ppm	0.4919 ppm
Concentration per Run 3	0.1192 ppm	0.6013 ppm	0.9461 ppm	0.8923 ppm	0.9890 ppm	0.1139 ppm	0.4929 ppm
Concentration RSD	2.5 %	0.2 %	0.3 %	4.6 %	0.2 %	0.7 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4889 ppm	90.7466 %	95.6671 %	96.4899 %	95.8113 %	95.8698 %	96.1180 %
Concentration per Run 1	0.4886 ppm	86.3463 %	95.4573 %	96.3198 %	92.7279 %	96.0389 %	95.8897 %
Concentration per Run 2	0.4887 ppm	91.4665 %	95.8068 %	96.4529 %	95.9781 %	95.8129 %	96.2362 %
Concentration per Run 3	0.4895 ppm	94.4269 %	95.7373 %	96.6971 %	98.7280 %	95.7576 %	96.2282 %
Concentration RSD	0.1 %	4.5 %	0.2 %	0.2 %	3.1 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453404-16 WG1974264
Analysis started at: 9/24/2024 5:03:33 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0278 ppm	0.0023 ppm	0.0182 ppm	0.0319 ppm	0.0000 ppm	176.6270 ppm
Concentration per Run 1	0.0000 ppm	0.0291 ppm	0.0039 ppm	0.0183 ppm	0.0319 ppm	0.0000 ppm	176.4595 ppm
Concentration per Run 2	-0.0002 ppm	0.0283 ppm	0.0015 ppm	0.0181 ppm	0.0324 ppm	0.0000 ppm	179.1222 ppm
Concentration per Run 3	-0.0010 ppm	0.0259 ppm	0.0016 ppm	0.0181 ppm	0.0314 ppm	0.0001 ppm	174.2992 ppm
Concentration RSD	136.3 %	6.1 %	58.9 %	0.7 %	1.5 %	81.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.0075 ppm	-0.0001 ppm	0.0025 ppm	0.2803 ppm	0.4415 ppm	-0.0050 ppm
Concentration per Run 1	0.0013 ppm	0.0074 ppm	0.0003 ppm	0.0024 ppm	0.2763 ppm	0.4551 ppm	-0.0066 ppm
Concentration per Run 2	0.0013 ppm	0.0076 ppm	-0.0001 ppm	0.0022 ppm	0.2863 ppm	0.4253 ppm	-0.0033 ppm
Concentration per Run 3	0.0013 ppm	0.0077 ppm	-0.0005 ppm	0.0029 ppm	0.2784 ppm	0.4441 ppm	-0.0050 ppm
Concentration RSD	3.8 %	2.1 %	375.4 %	14.9 %	1.9 %	3.4 %	32.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8799 ppm	0.4126 ppm	0.0029 ppm	2.1692 ppm	0.0093 ppm	0.0467 ppm	0.0017 ppm
Concentration per Run 1	1.8778 ppm	0.4110 ppm	0.0029 ppm	2.1514 ppm	0.0096 ppm	0.0464 ppm	0.0008 ppm
Concentration per Run 2	1.8853 ppm	0.4187 ppm	0.0031 ppm	2.2079 ppm	0.0091 ppm	0.0464 ppm	0.0021 ppm
Concentration per Run 3	1.8768 ppm	0.4080 ppm	0.0029 ppm	2.1483 ppm	0.0091 ppm	0.0474 ppm	0.0021 ppm
Concentration RSD	0.2 %	1.3 %	3.4 %	1.5 %	2.9 %	1.2 %	43.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0031 ppm	0.5350 ppm	-0.0001 ppm	0.3721 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0044 ppm	0.5350 ppm	0.0002 ppm	0.3718 ppm	0.0000 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	0.5365 ppm	0.0000 ppm	0.3768 ppm	0.0003 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 3	0.0036 ppm	0.5334 ppm	-0.0006 ppm	0.3678 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm
Concentration RSD	49.3 %	0.3 %	364.0 %	1.2 %	99.8 %	2,115.0 %	43.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0307 ppm	92.1859 %	93.9249 %	93.7256 %	96.9028 %	90.3072 %	94.0711 %
Concentration per Run 1	0.0307 ppm	92.2124 %	93.8800 %	93.7658 %	97.1810 %	90.2530 %	94.0316 %
Concentration per Run 2	0.0309 ppm	91.2501 %	93.7023 %	93.7709 %	96.3818 %	90.0676 %	93.6544 %
Concentration per Run 3	0.0307 ppm	93.0951 %	94.1922 %	93.6403 %	97.1455 %	90.6009 %	94.5272 %
Concentration RSD	0.4 %	1.0 %	0.3 %	0.1 %	0.5 %	0.3 %	0.5 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453422-15 WG1974264
Analysis started at: 9/24/2024 5:09:44 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0370 ppm	0.0002 ppm	0.0099 ppm	0.0392 ppm	0.0000 ppm	157.4353 ppm
Concentration per Run 1	0.0003 ppm	0.0375 ppm	-0.0016 ppm	0.0100 ppm	0.0412 ppm	0.0000 ppm	165.1487 ppm
Concentration per Run 2	0.0000 ppm	0.0413 ppm	-0.0001 ppm	0.0098 ppm	0.0386 ppm	0.0000 ppm	155.1127 ppm
Concentration per Run 3	-0.0006 ppm	0.0321 ppm	0.0022 ppm	0.0098 ppm	0.0378 ppm	0.0001 ppm	152.0444 ppm
Concentration RSD	412.4 %	12.5 %	1,100.7 %	1.6 %	4.5 %	234.0 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0029 ppm	0.0287 ppm	0.2492 ppm	-0.0035 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0030 ppm	0.0322 ppm	0.2958 ppm	-0.0033 ppm
Concentration per Run 2	0.0004 ppm	0.0019 ppm	0.0000 ppm	0.0028 ppm	0.0277 ppm	0.2154 ppm	-0.0049 ppm
Concentration per Run 3	0.0004 ppm	0.0021 ppm	-0.0007 ppm	0.0031 ppm	0.0262 ppm	0.2363 ppm	-0.0023 ppm
Concentration RSD	4.0 %	3.3 %	105.3 %	5.0 %	10.8 %	16.7 %	36.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9381 ppm	0.1800 ppm	0.0008 ppm	0.7629 ppm	0.0018 ppm	0.0103 ppm	0.0006 ppm
Concentration per Run 1	0.9393 ppm	0.1885 ppm	0.0008 ppm	0.7914 ppm	0.0020 ppm	0.0096 ppm	0.0002 ppm
Concentration per Run 2	0.9477 ppm	0.1775 ppm	0.0007 ppm	0.7637 ppm	0.0014 ppm	0.0110 ppm	-0.0002 ppm
Concentration per Run 3	0.9272 ppm	0.1741 ppm	0.0008 ppm	0.7335 ppm	0.0019 ppm	0.0102 ppm	0.0018 ppm
Concentration RSD	1.1 %	4.2 %	9.5 %	3.8 %	19.4 %	6.6 %	175.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	0.4549 ppm	-0.0006 ppm	0.3368 ppm	-0.0001 ppm	-0.0008 ppm	0.0005 ppm
Concentration per Run 1	0.0020 ppm	0.4567 ppm	-0.0009 ppm	0.3537 ppm	-0.0001 ppm	-0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0031 ppm	0.4523 ppm	0.0001 ppm	0.3314 ppm	-0.0002 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0027 ppm	0.4556 ppm	-0.0009 ppm	0.3253 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration RSD	22.1 %	0.5 %	95.9 %	4.4 %	197.6 %	19.9 %	18.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0140 ppm	91.4888 %	94.3630 %	94.6082 %	96.9834 %	91.4880 %	95.0430 %
Concentration per Run 1	0.0142 ppm	87.4563 %	94.3907 %	94.3082 %	94.2376 %	91.2793 %	94.9822 %
Concentration per Run 2	0.0139 ppm	93.1327 %	93.6020 %	94.9032 %	97.8698 %	91.7354 %	94.2702 %
Concentration per Run 3	0.0140 ppm	93.8773 %	95.0963 %	94.6133 %	98.8428 %	91.4491 %	95.8767 %
Concentration RSD	1.1 %	3.8 %	0.8 %	0.3 %	2.5 %	0.3 %	0.8 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453167-03 WG1974264
Analysis started at: 9/24/2024 5:15:55 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	0.5231 ppm	0.0006 ppm	0.8002 ppm	0.0974 ppm	0.0001 ppm	47.7701 ppm
Concentration per Run 1	0.0023 ppm	0.5378 ppm	0.0011 ppm	0.8021 ppm	0.0982 ppm	0.0000 ppm	48.2146 ppm
Concentration per Run 2	0.0024 ppm	0.5217 ppm	0.0008 ppm	0.7985 ppm	0.0979 ppm	0.0001 ppm	47.9886 ppm
Concentration per Run 3	0.0021 ppm	0.5097 ppm	0.0000 ppm	0.8001 ppm	0.0961 ppm	0.0000 ppm	47.1072 ppm
Concentration RSD	6.4 %	2.7 %	89.2 %	0.2 %	1.2 %	33.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0652 ppm	0.0758 ppm	0.0647 ppm	-0.0061 ppm	116.3141 ppm	22.3407 ppm	0.1096 ppm
Concentration per Run 1	0.0654 ppm	0.0760 ppm	0.0651 ppm	-0.0058 ppm	117.1900 ppm	22.5067 ppm	0.1121 ppm
Concentration per Run 2	0.0650 ppm	0.0755 ppm	0.0644 ppm	-0.0063 ppm	117.0270 ppm	22.5283 ppm	0.1094 ppm
Concentration per Run 3	0.0653 ppm	0.0757 ppm	0.0647 ppm	-0.0062 ppm	114.7254 ppm	21.9871 ppm	0.1072 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	4.3 %	1.2 %	1.4 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2921 ppm	1.0948 ppm	0.0684 ppm	9.7102 ppm	0.9732 ppm	0.0022 ppm	-0.0008 ppm
Concentration per Run 1	3.2879 ppm	1.1029 ppm	0.0683 ppm	9.7971 ppm	0.9774 ppm	0.0019 ppm	-0.0009 ppm
Concentration per Run 2	3.2891 ppm	1.1037 ppm	0.0683 ppm	9.7574 ppm	0.9695 ppm	0.0029 ppm	0.0003 ppm
Concentration per Run 3	3.2994 ppm	1.0777 ppm	0.0686 ppm	9.5761 ppm	0.9728 ppm	0.0018 ppm	-0.0019 ppm
Concentration RSD	0.2 %	1.4 %	0.3 %	1.2 %	0.4 %	27.2 %	127.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0037 ppm	4.8804 ppm	0.0020 ppm	0.1408 ppm	0.0024 ppm	0.0007 ppm	0.0080 ppm
Concentration per Run 1	0.0048 ppm	4.9015 ppm	0.0025 ppm	0.1417 ppm	0.0026 ppm	0.0004 ppm	0.0077 ppm
Concentration per Run 2	0.0021 ppm	4.8678 ppm	0.0016 ppm	0.1420 ppm	0.0021 ppm	0.0014 ppm	0.0082 ppm
Concentration per Run 3	0.0043 ppm	4.8718 ppm	0.0021 ppm	0.1388 ppm	0.0024 ppm	0.0004 ppm	0.0080 ppm
Concentration RSD	39.0 %	0.4 %	21.7 %	1.3 %	9.3 %	79.5 %	3.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	50.4162 ppm	90.6382 %	94.1266 %	94.2781 %	100.4327 %	93.1431 %	97.0826 %
Concentration per Run 1	50.7401 ppm	89.3970 %	93.7943 %	94.3365 %	100.7516 %	92.9739 %	96.8357 %
Concentration per Run 2	50.1730 ppm	89.9465 %	94.4543 %	94.1131 %	98.9849 %	93.2065 %	97.4890 %
Concentration per Run 3	50.3356 ppm	92.5711 %	94.1311 %	94.3847 %	101.5616 %	93.2488 %	96.9232 %
Concentration RSD	0.6 %	1.9 %	0.4 %	0.2 %	1.3 %	0.2 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-3 WG1974264
Analysis started at: 9/24/2024 5:22:13 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0528 ppm	2.3380 ppm	0.1176 ppm	1.7106 ppm	1.9254 ppm	0.0481 ppm	55.0472 ppm
Concentration per Run 1	0.0528 ppm	2.3854 ppm	0.1182 ppm	1.7130 ppm	1.9741 ppm	0.0494 ppm	56.4629 ppm
Concentration per Run 2	0.0528 ppm	2.3454 ppm	0.1176 ppm	1.7055 ppm	1.9265 ppm	0.0480 ppm	55.0706 ppm
Concentration per Run 3	0.0529 ppm	2.2831 ppm	0.1170 ppm	1.7132 ppm	1.8758 ppm	0.0468 ppm	53.6080 ppm
Concentration RSD	0.2 %	2.2 %	0.5 %	0.3 %	2.6 %	2.7 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.1130 ppm	0.5450 ppm	0.2496 ppm	0.2368 ppm	112.7098 ppm	30.9482 ppm	0.1040 ppm
Concentration per Run 1	0.1133 ppm	0.5463 ppm	0.2477 ppm	0.2352 ppm	115.4039 ppm	31.8441 ppm	0.1061 ppm
Concentration per Run 2	0.1126 ppm	0.5434 ppm	0.2486 ppm	0.2362 ppm	112.8120 ppm	30.8962 ppm	0.1034 ppm
Concentration per Run 3	0.1131 ppm	0.5454 ppm	0.2524 ppm	0.2389 ppm	109.9134 ppm	30.1042 ppm	0.1025 ppm
Concentration RSD	0.3 %	0.3 %	1.0 %	0.8 %	2.4 %	2.8 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.1334 ppm	1.5108 ppm	1.0433 ppm	18.6154 ppm	1.4163 ppm	0.5124 ppm	0.4842 ppm
Concentration per Run 1	12.0544 ppm	1.5491 ppm	1.0425 ppm	19.0836 ppm	1.4212 ppm	0.5142 ppm	0.4852 ppm
Concentration per Run 2	12.1216 ppm	1.5118 ppm	1.0415 ppm	18.6160 ppm	1.4128 ppm	0.5106 ppm	0.4808 ppm
Concentration per Run 3	12.2241 ppm	1.4715 ppm	1.0457 ppm	18.1467 ppm	1.4149 ppm	0.5125 ppm	0.4865 ppm
Concentration RSD	0.7 %	2.6 %	0.2 %	2.5 %	0.3 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1169 ppm	5.3517 ppm	0.9185 ppm	1.0147 ppm	0.9471 ppm	0.1138 ppm	0.4771 ppm
Concentration per Run 1	0.1190 ppm	5.3667 ppm	0.9219 ppm	1.0396 ppm	0.9428 ppm	0.1134 ppm	0.4751 ppm
Concentration per Run 2	0.1180 ppm	5.3357 ppm	0.9165 ppm	1.0152 ppm	0.9446 ppm	0.1133 ppm	0.4749 ppm
Concentration per Run 3	0.1137 ppm	5.3527 ppm	0.9172 ppm	0.9892 ppm	0.9539 ppm	0.1147 ppm	0.4812 ppm
Concentration RSD	2.4 %	0.3 %	0.3 %	2.5 %	0.6 %	0.7 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	49.2392 ppm	92.7547 %	93.9310 %	93.6965 %	100.9020 %	93.0230 %	96.7796 %
Concentration per Run 1	49.4556 ppm	90.4698 %	94.2045 %	93.3929 %	99.9322 %	92.7098 %	97.0428 %
Concentration per Run 2	49.2368 ppm	92.8752 %	93.9954 %	93.6958 %	100.8150 %	93.1352 %	96.8178 %
Concentration per Run 3	49.0251 ppm	94.9190 %	93.5930 %	94.0007 %	101.9588 %	93.2239 %	96.4781 %
Concentration RSD	0.4 %	2.4 %	0.3 %	0.3 %	1.0 %	0.3 %	0.3 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-4 WG1974264
Analysis started at: 9/24/2024 5:28:27 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	0.5223 ppm	0.0008 ppm	0.8195 ppm	0.0983 ppm	0.0001 ppm	47.5785 ppm
Concentration per Run 1	0.0017 ppm	0.5213 ppm	0.0028 ppm	0.8224 ppm	0.0986 ppm	0.0001 ppm	47.7420 ppm
Concentration per Run 2	0.0016 ppm	0.5240 ppm	-0.0010 ppm	0.8175 ppm	0.0986 ppm	0.0001 ppm	47.8743 ppm
Concentration per Run 3	0.0022 ppm	0.5215 ppm	0.0005 ppm	0.8186 ppm	0.0977 ppm	0.0001 ppm	47.1192 ppm
Concentration RSD	17.4 %	0.3 %	245.6 %	0.3 %	0.5 %	16.2 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0677 ppm	0.0782 ppm	0.0673 ppm	-0.0064 ppm	116.0178 ppm	22.3393 ppm	0.1107 ppm
Concentration per Run 1	0.0679 ppm	0.0782 ppm	0.0674 ppm	-0.0064 ppm	116.5146 ppm	22.4275 ppm	0.1102 ppm
Concentration per Run 2	0.0675 ppm	0.0780 ppm	0.0673 ppm	-0.0062 ppm	118.7473 ppm	22.4596 ppm	0.1101 ppm
Concentration per Run 3	0.0678 ppm	0.0783 ppm	0.0674 ppm	-0.0066 ppm	112.7914 ppm	22.1308 ppm	0.1118 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	2.6 %	2.6 %	0.8 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.4036 ppm	1.0899 ppm	0.0723 ppm	9.7483 ppm	1.0005 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 1	3.4111 ppm	1.0913 ppm	0.0727 ppm	9.7815 ppm	1.0027 ppm	0.0020 ppm	-0.0025 ppm
Concentration per Run 2	3.3994 ppm	1.0986 ppm	0.0721 ppm	9.8282 ppm	0.9998 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	3.4002 ppm	1.0799 ppm	0.0723 ppm	9.6352 ppm	0.9991 ppm	0.0020 ppm	0.0008 ppm
Concentration RSD	0.2 %	0.9 %	0.4 %	1.0 %	0.2 %	43.7 %	521.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0032 ppm	4.9782 ppm	0.0022 ppm	0.1409 ppm	0.0030 ppm	0.0003 ppm	0.0085 ppm
Concentration per Run 1	0.0058 ppm	4.9907 ppm	0.0024 ppm	0.1406 ppm	0.0029 ppm	0.0007 ppm	0.0084 ppm
Concentration per Run 2	-0.0001 ppm	4.9723 ppm	0.0025 ppm	0.1419 ppm	0.0033 ppm	0.0011 ppm	0.0086 ppm
Concentration per Run 3	0.0038 ppm	4.9717 ppm	0.0019 ppm	0.1402 ppm	0.0030 ppm	-0.0007 ppm	0.0084 ppm
Concentration RSD	93.4 %	0.2 %	14.7 %	0.6 %	7.2 %	283.0 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	51.8492 ppm	94.2802 %	93.4621 %	93.7942 %	101.2065 %	92.9427 %	96.1366 %
Concentration per Run 1	51.6681 ppm	93.5748 %	93.2464 %	94.0174 %	101.5224 %	92.8792 %	95.9224 %
Concentration per Run 2	51.9002 ppm	93.8801 %	93.4566 %	93.5781 %	100.1970 %	92.9180 %	96.3156 %
Concentration per Run 3	51.9792 ppm	95.3858 %	93.6833 %	93.7872 %	101.9002 %	93.0309 %	96.1719 %
Concentration RSD	0.3 %	1.0 %	0.2 %	0.2 %	0.9 %	0.1 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-5 WG1974264
Analysis started at: 9/24/2024 5:34:49 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0519 ppm	2.4310 ppm	0.1265 ppm	1.7868 ppm	2.0097 ppm	0.0500 ppm	54.6548 ppm
Concentration per Run 1	0.0525 ppm	2.4739 ppm	0.1274 ppm	1.7866 ppm	2.0548 ppm	0.0510 ppm	55.8322 ppm
Concentration per Run 2	0.0516 ppm	2.4173 ppm	0.1241 ppm	1.7806 ppm	1.9935 ppm	0.0496 ppm	54.2098 ppm
Concentration per Run 3	0.0516 ppm	2.4018 ppm	0.1279 ppm	1.7933 ppm	1.9810 ppm	0.0493 ppm	53.9224 ppm
Concentration RSD	1.0 %	1.6 %	1.6 %	0.4 %	2.0 %	1.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.1169 ppm	0.5824 ppm	0.2662 ppm	0.2573 ppm	110.3245 ppm	30.9162 ppm	0.1004 ppm
Concentration per Run 1	0.1169 ppm	0.5827 ppm	0.2650 ppm	0.2574 ppm	112.5909 ppm	31.7062 ppm	0.1011 ppm
Concentration per Run 2	0.1166 ppm	0.5807 ppm	0.2656 ppm	0.2564 ppm	109.4586 ppm	30.5768 ppm	0.0993 ppm
Concentration per Run 3	0.1172 ppm	0.5838 ppm	0.2679 ppm	0.2581 ppm	108.9238 ppm	30.4657 ppm	0.1009 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.3 %	1.8 %	2.2 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.0992 ppm	1.5041 ppm	1.1544 ppm	19.3246 ppm	1.4471 ppm	0.5426 ppm	0.5126 ppm
Concentration per Run 1	13.0433 ppm	1.5350 ppm	1.1522 ppm	19.7467 ppm	1.4484 ppm	0.5436 ppm	0.5118 ppm
Concentration per Run 2	13.1189 ppm	1.4932 ppm	1.1517 ppm	19.1994 ppm	1.4419 ppm	0.5407 ppm	0.5105 ppm
Concentration per Run 3	13.1353 ppm	1.4842 ppm	1.1592 ppm	19.0278 ppm	1.4509 ppm	0.5434 ppm	0.5156 ppm
Concentration RSD	0.4 %	1.8 %	0.4 %	1.9 %	0.3 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1234 ppm	5.8876 ppm	1.0263 ppm	1.0873 ppm	1.0528 ppm	0.1193 ppm	0.5126 ppm
Concentration per Run 1	0.1215 ppm	5.8887 ppm	1.0272 ppm	1.1124 ppm	1.0493 ppm	0.1175 ppm	0.5118 ppm
Concentration per Run 2	0.1262 ppm	5.8688 ppm	1.0213 ppm	1.0789 ppm	1.0540 ppm	0.1193 ppm	0.5125 ppm
Concentration per Run 3	0.1226 ppm	5.9054 ppm	1.0306 ppm	1.0706 ppm	1.0552 ppm	0.1210 ppm	0.5134 ppm
Concentration RSD	2.0 %	0.3 %	0.5 %	2.0 %	0.3 %	1.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	49.2481 ppm	96.4880 %	94.2178 %	94.0622 %	102.9295 %	94.2225 %	97.7640 %
Concentration per Run 1	49.4947 ppm	94.4073 %	94.4572 %	94.0694 %	101.3543 %	94.1378 %	98.1876 %
Concentration per Run 2	49.0795 ppm	97.3328 %	93.9474 %	94.0205 %	103.4934 %	94.4915 %	97.4450 %
Concentration per Run 3	49.1701 ppm	97.7240 %	94.2489 %	94.0968 %	103.9406 %	94.0382 %	97.6596 %
Concentration RSD	0.4 %	1.9 %	0.3 %	0.0 %	1.3 %	0.3 %	0.4 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-6D5 WG1974264
Analysis started at: 9/24/2024 5:41:01 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.1015 ppm	-0.0011 ppm	0.1619 ppm	0.0182 ppm	0.0000 ppm	8.7582 ppm
Concentration per Run 1	0.0007 ppm	0.1060 ppm	-0.0018 ppm	0.1621 ppm	0.0183 ppm	0.0000 ppm	8.7198 ppm
Concentration per Run 2	0.0006 ppm	0.0915 ppm	-0.0007 ppm	0.1621 ppm	0.0179 ppm	0.0001 ppm	8.7585 ppm
Concentration per Run 3	0.0005 ppm	0.1071 ppm	-0.0007 ppm	0.1613 ppm	0.0182 ppm	0.0001 ppm	8.7963 ppm
Concentration RSD	18.7 %	8.5 %	58.7 %	0.3 %	1.1 %	107.4 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0130 ppm	0.0149 ppm	0.0130 ppm	-0.0010 ppm	21.6462 ppm	4.1115 ppm	0.0189 ppm
Concentration per Run 1	0.0130 ppm	0.0150 ppm	0.0128 ppm	-0.0009 ppm	21.4758 ppm	4.1364 ppm	0.0167 ppm
Concentration per Run 2	0.0130 ppm	0.0149 ppm	0.0133 ppm	-0.0010 ppm	21.6848 ppm	4.1455 ppm	0.0198 ppm
Concentration per Run 3	0.0130 ppm	0.0148 ppm	0.0128 ppm	-0.0012 ppm	21.7779 ppm	4.0527 ppm	0.0202 ppm
Concentration RSD	0.1 %	0.6 %	2.1 %	12.9 %	0.7 %	1.2 %	10.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6851 ppm	0.2044 ppm	0.0157 ppm	1.8293 ppm	0.1929 ppm	0.0007 ppm	-0.0014 ppm
Concentration per Run 1	0.6838 ppm	0.2036 ppm	0.0160 ppm	1.8166 ppm	0.1924 ppm	0.0011 ppm	-0.0014 ppm
Concentration per Run 2	0.6866 ppm	0.2048 ppm	0.0156 ppm	1.8285 ppm	0.1932 ppm	0.0007 ppm	-0.0020 ppm
Concentration per Run 3	0.6850 ppm	0.2049 ppm	0.0154 ppm	1.8429 ppm	0.1931 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	0.2 %	0.3 %	2.0 %	0.7 %	0.2 %	67.5 %	37.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.9506 ppm	0.0004 ppm	0.0263 ppm	0.0008 ppm	0.0010 ppm	0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.9507 ppm	0.0004 ppm	0.0262 ppm	0.0009 ppm	0.0012 ppm	0.0019 ppm
Concentration per Run 2	-0.0012 ppm	0.9504 ppm	0.0004 ppm	0.0263 ppm	0.0007 ppm	0.0013 ppm	0.0020 ppm
Concentration per Run 3	-0.0010 ppm	0.9507 ppm	0.0004 ppm	0.0265 ppm	0.0008 ppm	0.0005 ppm	0.0017 ppm
Concentration RSD	191.3 %	0.0 %	5.8 %	0.5 %	12.0 %	42.0 %	7.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	11.0628 ppm	104.0990 %	99.8941 %	99.7277 %	106.0219 %	101.4043 %	102.3383 %
Concentration per Run 1	11.0733 ppm	104.1478 %	99.4864 %	99.8027 %	105.2803 %	101.6132 %	102.0768 %
Concentration per Run 2	11.0762 ppm	103.8379 %	100.2957 %	99.5390 %	106.2452 %	101.1808 %	102.5188 %
Concentration per Run 3	11.0388 ppm	104.3112 %	99.9001 %	99.8414 %	106.5401 %	101.4189 %	102.4193 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.2 %	0.6 %	0.2 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:47:09 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5082 ppm	0.4660 ppm	0.4782 ppm	0.4860 ppm	0.4582 ppm	0.4722 ppm	0.4688 ppm
Concentration per Run 1	0.5073 ppm	0.4479 ppm	0.4796 ppm	0.4864 ppm	0.4360 ppm	0.4485 ppm	0.4416 ppm
Concentration per Run 2	0.5091 ppm	0.4713 ppm	0.4778 ppm	0.4861 ppm	0.4670 ppm	0.4810 ppm	0.4788 ppm
Concentration per Run 3	0.5080 ppm	0.4787 ppm	0.4772 ppm	0.4855 ppm	0.4716 ppm	0.4871 ppm	0.4861 ppm
Recovery Percentage 1	101.631 %	93.199 %	95.636 %	97.202 %	91.637 %	94.436 %	93.767 %
Concentration RSD	0.2 %	3.5 %	0.3 %	0.1 %	4.2 %	4.4 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4837 ppm	0.4936 ppm	0.4935 ppm	0.4804 ppm	0.4653 ppm	4.5460 ppm	0.4691 ppm
Concentration per Run 1	0.4839 ppm	0.4936 ppm	0.4921 ppm	0.4791 ppm	0.4322 ppm	4.3069 ppm	0.4454 ppm
Concentration per Run 2	0.4832 ppm	0.4934 ppm	0.4949 ppm	0.4810 ppm	0.4759 ppm	4.6271 ppm	0.4793 ppm
Concentration per Run 3	0.4840 ppm	0.4939 ppm	0.4933 ppm	0.4810 ppm	0.4877 ppm	4.7039 ppm	0.4827 ppm
Recovery Percentage 1	96.744 %	98.729 %	98.693 %	96.079 %	93.058 %	90.919 %	93.827 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.2 %	6.3 %	4.6 %	4.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4901 ppm	0.4673 ppm	0.4790 ppm	9.4484 ppm	0.4928 ppm	0.4923 ppm	0.4922 ppm
Concentration per Run 1	0.4927 ppm	0.4442 ppm	0.4753 ppm	8.9936 ppm	0.4942 ppm	0.4924 ppm	0.4909 ppm
Concentration per Run 2	0.4897 ppm	0.4766 ppm	0.4782 ppm	9.5983 ppm	0.4917 ppm	0.4921 ppm	0.4912 ppm
Concentration per Run 3	0.4878 ppm	0.4812 ppm	0.4836 ppm	9.7531 ppm	0.4924 ppm	0.4923 ppm	0.4946 ppm
Recovery Percentage 1	98.014 %	93.468 %	95.800 %	94.484 %	98.551 %	98.457 %	98.445 %
Concentration RSD	0.5 %	4.3 %	0.9 %	4.2 %	0.3 %	0.0 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4907 ppm	5.3649 ppm	0.4579 ppm	0.4445 ppm	0.4916 ppm	0.4937 ppm	0.4788 ppm
Concentration per Run 1	0.4925 ppm	5.3734 ppm	0.4590 ppm	0.4217 ppm	0.4911 ppm	0.4941 ppm	0.4781 ppm
Concentration per Run 2	0.4894 ppm	5.3673 ppm	0.4571 ppm	0.4531 ppm	0.4923 ppm	0.4938 ppm	0.4790 ppm
Concentration per Run 3	0.4903 ppm	5.3541 ppm	0.4576 ppm	0.4585 ppm	0.4916 ppm	0.4932 ppm	0.4792 ppm
Recovery Percentage 1	98.144 %	102.189 %	91.579 %	88.890 %	98.330 %	98.738 %	95.756 %
Concentration RSD	0.3 %	0.2 %	0.2 %	4.5 %	0.1 %	0.1 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4913 ppm	106.2454 %	99.3573 %	100.0682 %	109.7056 %	102.6245 %	101.9280 %
Concentration per Run 1	0.4921 ppm	110.8213 %	99.3024 %	100.4279 %	114.2359 %	102.6371 %	101.8878 %
Concentration per Run 2	0.4910 ppm	104.3679 %	99.1987 %	100.0416 %	107.9474 %	102.6498 %	101.5935 %
Concentration per Run 3	0.4907 ppm	103.5470 %	99.5706 %	99.7350 %	106.9334 %	102.5866 %	102.3028 %
Recovery Percentage 1	98.252 %						
Concentration RSD	0.2 %	3.7 %	0.2 %	0.3 %	3.6 %	0.0 %	0.3 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:53:12 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0067 ppm	-0.0013 ppm	0.0023 ppm	0.0005 ppm	0.0005 ppm	0.0086 ppm
Concentration per Run 1	-0.0002 ppm	-0.0106 ppm	-0.0011 ppm	0.0024 ppm	0.0007 ppm	0.0007 ppm	0.0173 ppm
Concentration per Run 2	-0.0003 ppm	0.0025 ppm	-0.0014 ppm	0.0024 ppm	0.0006 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0118 ppm	-0.0013 ppm	0.0020 ppm	0.0003 ppm	0.0003 ppm	0.0043 ppm
Recovery Percentage 1	-2.429 %	-6.652 %	-25.195 %	7.591 %	5.002 %	10.208 %	8.573 %
Concentration RSD	80.0 %	119.1 %	11.0 %	9.6 %	40.3 %	35.1 %	88.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0020 ppm	-0.0228 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	-0.0078 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0024 ppm	-0.0336 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0017 ppm	-0.0270 ppm	-0.0033 ppm
Recovery Percentage 1	0.740 %	0.144 %	-5.191 %	2.794 %	4.019 %	-0.911 %	-15.514 %
Concentration RSD	92.7 %	472.8 %	76.1 %	42.1 %	17.4 %	58.9 %	115.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0013 ppm	0.0005 ppm	0.0026 ppm	-0.0062 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0030 ppm	-0.0016 ppm	-0.0005 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0007 ppm	0.0025 ppm	-0.0145 ppm	-0.0003 ppm	-0.0012 ppm	0.0014 ppm
Concentration per Run 3	-0.0041 ppm	0.0000 ppm	0.0023 ppm	-0.0026 ppm	0.0002 ppm	0.0005 ppm	0.0019 ppm
Recovery Percentage 1	-1.279 %	5.378 %	5.197 %	-0.311 %	-0.870 %	-0.003 %	2.237 %
Concentration RSD	192.2 %	83.0 %	15.4 %	116.1 %	182.4 %	332,396.0 %	82.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0022 ppm	0.0017 ppm	-0.0005 ppm	0.0005 ppm	0.0004 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 1	0.0022 ppm	0.0016 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0036 ppm	0.0019 ppm	-0.0008 ppm	0.0004 ppm	0.0005 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 3	0.0006 ppm	0.0017 ppm	-0.0006 ppm	0.0005 ppm	0.0004 ppm	0.0007 ppm	0.0004 ppm
Recovery Percentage 1	21.539 %	0.339 %	-0.959 %	4.576 %	3.656 %	5.257 %	4.556 %
Concentration RSD	70.9 %	9.8 %	72.1 %	20.0 %	37.7 %	30.9 %	31.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	94.6761 %	96.4362 %	97.5388 %	93.2957 %	98.2471 %	96.3030 %
Concentration per Run 1	0.0012 ppm	93.0415 %	97.1606 %	96.8736 %	90.6477 %	96.9186 %	96.8182 %
Concentration per Run 2	0.0008 ppm	92.3348 %	96.1933 %	98.4677 %	91.6584 %	99.3564 %	96.0739 %
Concentration per Run 3	0.0008 ppm	98.6519 %	95.9546 %	97.2751 %	97.5811 %	98.4664 %	96.0168 %
Recovery Percentage 1	18.554 %						
Concentration RSD	23.0 %	3.7 %	0.7 %	0.9 %	4.0 %	1.3 %	0.5 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 60 Zn
Analysis started at: 9/24/2024 6:11:52 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0062 ppm	-0.0021 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	-0.0001 ppm	-0.0112 ppm	-0.0021 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 2	0.0007 ppm	0.0015 ppm	-0.0029 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 3	0.0000 ppm	-0.0090 ppm	-0.0013 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0019 ppm
Concentration RSD	228.7 %	108.9 %	38.8 %	63.8 %	23.0 %	1,070.5 %	56.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0534 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0021 ppm	-0.0419 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0331 ppm	-0.0030 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0010 ppm	-0.0851 ppm	0.0001 ppm
Concentration RSD	86.1 %	53.1 %	334.4 %	42.7 %	98.0 %	52.2 %	158.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0018 ppm	0.0001 ppm	0.0012 ppm	-0.0052 ppm	0.0003 ppm	-0.0001 ppm	-0.0056 ppm
Concentration per Run 1	0.0013 ppm	0.0000 ppm	0.0014 ppm	-0.0122 ppm	0.0002 ppm	-0.0002 ppm	-0.0045 ppm
Concentration per Run 2	0.0024 ppm	0.0003 ppm	0.0014 ppm	-0.0070 ppm	0.0005 ppm	0.0007 ppm	-0.0062 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0009 ppm	0.0035 ppm	0.0001 ppm	-0.0009 ppm	-0.0062 ppm
Concentration RSD	29.3 %	268.4 %	24.2 %	152.9 %	80.1 %	701.4 %	17.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.0013 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	0.0010 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	734.1 %	7,331.0 %	253.4 %	48.4 %	51.2 %	115.4 %	74.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	53.8125 ppm	101.7480 %	99.5166 %	99.9848 %	99.4938 %	100.7588 %	99.6858 %
Concentration per Run 1	54.1715 ppm	101.1574 %	99.5465 %	100.1794 %	97.8666 %	100.5515 %	99.7109 %
Concentration per Run 2	53.5259 ppm	101.9089 %	99.4685 %	100.1101 %	99.6089 %	101.1079 %	99.5183 %
Concentration per Run 3	53.7401 ppm	102.1776 %	99.5349 %	99.6649 %	101.0058 %	100.6170 %	99.8282 %
Concentration RSD	0.6 %	0.5 %	0.0 %	0.3 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/24/2024 6:25:59 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 60 Si
Analysis started at: 9/24/2024 6:18:14 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0105 ppm	-0.0020 ppm	0.0051 ppm	0.0000 ppm	0.0001 ppm	0.0059 ppm
Concentration per Run 1	0.0004 ppm	0.0156 ppm	-0.0009 ppm	0.0050 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0003 ppm	0.0090 ppm	-0.0031 ppm	0.0051 ppm	-0.0001 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 3	-0.0003 ppm	0.0070 ppm	-0.0020 ppm	0.0051 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm
Concentration RSD	747.0 %	42.8 %	54.8 %	0.8 %	802.5 %	73.7 %	75.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0012 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	-0.0365 ppm	-0.0012 ppm
Concentration per Run 1	0.0001 ppm	-0.0011 ppm	-0.0001 ppm	-0.0005 ppm	0.0018 ppm	-0.0633 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0089 ppm	-0.0016 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	-0.0002 ppm	-0.0001 ppm	0.0029 ppm	-0.0551 ppm	-0.0014 ppm
Concentration RSD	9.0 %	16.9 %	232.7 %	135.6 %	92.9 %	108.4 %	49.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0018 ppm	0.0002 ppm	0.0003 ppm	-0.0018 ppm	-0.0020 ppm	0.0007 ppm	0.0027 ppm
Concentration per Run 1	0.0023 ppm	0.0003 ppm	0.0004 ppm	-0.0065 ppm	-0.0018 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0004 ppm	-0.0064 ppm	-0.0022 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0074 ppm	-0.0020 ppm	0.0009 ppm	0.0034 ppm
Concentration RSD	53.1 %	60.3 %	39.5 %	440.7 %	11.3 %	22.8 %	64.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	**60.2962 [SIC 100]**	-0.0005 ppm	0.0001 ppm	0.0003 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	60.2139 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0036 ppm	60.3411 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 3	0.0008 ppm	60.3335 ppm	-0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0028 ppm	0.0001 ppm
Concentration RSD	120.8 %	0.1 %	34.7 %	96.7 %	67.0 %	114.3 %	67.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0079 ppm	102.1115 %	99.2547 %	100.3080 %	108.0916 %	103.1054 %	102.8482 %
Concentration per Run 1	0.0085 ppm	101.3921 %	99.2315 %	100.2160 %	108.2719 %	102.9563 %	102.7159 %
Concentration per Run 2	0.0073 ppm	102.4341 %	99.3801 %	100.4664 %	107.6942 %	103.1768 %	103.0925 %
Concentration per Run 3	0.0078 ppm	102.5082 %	99.1524 %	100.2415 %	108.3088 %	103.1832 %	102.7362 %
Concentration RSD	8.1 %	0.6 %	0.1 %	0.1 %	0.3 %	0.1 %	0.2 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

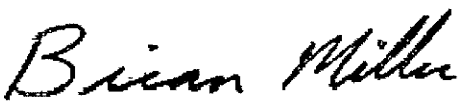
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 4

9/20/2024 4:21:41 PM

LabBook: WG1973931_09192024T4.imexp

Index:	Label:	Rack	Vial	Start time:
1	xBlank TAA Trace4	0	1	9/19/2024 4:55:41 PM
2	xICAL	0	2	9/19/2024 5:02:07 PM
3	Blank TAA Trace4	0	1	9/19/2024 5:10:25 PM
4	ICAL	0	2	9/19/2024 5:16:48 PM
5	ICV	0	3	9/19/2024 5:52:16 PM
6	ICB	0	4	9/19/2024 5:58:20 PM
7	ICV	0	10	9/19/2024 6:04:46 PM
8	ICB	0	4	9/19/2024 6:10:52 PM
9	LLOQ	0	5	9/19/2024 6:17:18 PM
10	xICSA not enough volume	0	6	9/19/2024 6:23:42 PM
11	ICSA	0	6	9/19/2024 6:32:27 PM
12	xSIC Multi not enough volume	0	7	9/19/2024 6:57:47 PM
13	LDR Check	0	8	9/19/2024 7:04:43 PM
14	zICSA	0	6	9/20/2024 9:39:38 AM
15	SIC Multi	0	7	9/20/2024 9:46:22 AM
16	LLOQ 005 Zn pass	1	1	9/20/2024 9:54:41 AM
17	LLOQ 05 Fe pass	1	2	9/20/2024 10:01:03 AM
18	LDR 500 Ca pass	1	3	9/20/2024 10:07:17 AM
19	LDR 500 Na pass	1	4	9/20/2024 10:13:46 AM
20	LDR 20 B	1	5	9/20/2024 10:20:18 AM
21	CCV	0	3	9/20/2024 10:28:06 AM
22	CCB	0	4	9/20/2024 10:34:09 AM
23	WG1973498-1 WG1973498	1	6	9/20/2024 10:40:33 AM
24	WG1973498-2 WG1973498	1	7	9/20/2024 10:46:57 AM
25	L2452799-01 WG1973498	1	15	9/20/2024 10:53:10 AM
26	L2452868-06 WG1973498	1	16	9/20/2024 10:59:33 AM
27	L2453058-01 WG1973498	1	8	9/20/2024 11:05:57 AM
28	WG1973498-3 WG1973498	1	9	9/20/2024 11:12:17 AM
29	WG1973498-4 WG1973498	1	10	9/20/2024 11:18:30 AM
30	WG1973498-5 WG1973498	1	11	9/20/2024 11:24:42 AM
31	WG1973498-6D5 WG1973498	1	12	9/20/2024 11:30:55 AM
32	CCV	0	3	9/20/2024 11:37:19 AM
33	CCB	0	4	9/20/2024 11:43:21 AM
34	WG1973898-1 WG1973898	1	17	9/20/2024 11:51:58 AM
35	WG1973898-2 WG1973898	1	18	9/20/2024 11:58:30 AM
36	L2451391-25 WG1973498	1	13	9/20/2024 12:04:43 PM
37	L2451391-26 WG1973498	1	14	9/20/2024 12:10:59 PM
38	L2448058-04 WG1973898	1	19	9/20/2024 12:17:18 PM
39	WG1973898-3 WG1973898	1	20	9/20/2024 12:23:48 PM
40	WG1973898-4 WG1973898	1	21	9/20/2024 12:30:10 PM
41	WG1973898-5 WG1973898	1	22	9/20/2024 12:36:40 PM
42	WG1973898-6D5 WG1973898	1	23	9/20/2024 12:43:03 PM
43	CCV	0	3	9/20/2024 12:49:27 PM
44	CCB	0	4	9/20/2024 12:55:30 PM
45	WG1973830-1 WG1973830	1	24	9/20/2024 1:04:24 PM
46	WG1973830-2 WG1973830	1	25	9/20/2024 1:10:50 PM
47	L2452763-02 WG1973830	1	31	9/20/2024 1:17:00 PM
48	L2452825-01 WG1973830	1	32	9/20/2024 1:23:25 PM
49	L2452844-01 WG1973830	1	33	9/20/2024 1:29:44 PM
50	L2453053-01 WG1973830	1	26	9/20/2024 1:36:07 PM
51	WG1973830-3 WG1973830	1	27	9/20/2024 1:42:26 PM
52	WG1973830-4 WG1973830	1	28	9/20/2024 1:48:36 PM
53	WG1973830-5 WG1973830	1	29	9/20/2024 1:54:46 PM
54	WG1973830-6D5 WG1973830	1	30	9/20/2024 2:00:56 PM
55	CCV	0	3	9/20/2024 2:07:17 PM
56	CCB	0	4	9/20/2024 2:13:20 PM
57	WG1974186-17 WG1974186	1	34	9/20/2024 2:19:46 PM
58	WG1974186-18 WG1974186	1	35	9/20/2024 2:26:11 PM
59	L2453053-02 WG1974186	1	41	9/20/2024 2:32:24 PM
60	L2453053-03 WG1974186	1	42	9/20/2024 2:38:43 PM
61	L2453053-04 WG1974186	1	43	9/20/2024 2:45:02 PM
62	L2453053-01 WG1974186	1	36	9/20/2024 2:51:21 PM
63	WG1974186-19 WG1974186	1	37	9/20/2024 2:57:42 PM
64	WG1974186-20 WG1974186	1	38	9/20/2024 3:03:52 PM
65	WG1974186-21 WG1974186	1	39	9/20/2024 3:10:01 PM
66	WG1974186-22D5 WG1974186	1	40	9/20/2024 3:16:11 PM
67	CCV	0	3	9/20/2024 3:22:32 PM
68	CCB	0	4	9/20/2024 3:28:35 PM
69	L2453053-05 WG1974186	1	44	9/20/2024 3:39:59 PM
70	CCV	0	3	9/20/2024 3:49:02 PM
71	CCB	0	4	9/20/2024 3:55:05 PM
72	LLOQ	0	5	9/20/2024 4:01:31 PM

Sequence Trace 4

9/20/2024 4:21:41 PM

Sequence Trace 9

9/24/2024 6:02:56 PM

LabBook: WG1975360_09242024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace9	0	1	9/24/2024 6:10:19 AM
2	ICAL	0	2	9/24/2024 6:14:03 AM
3	ICV	0	3	9/24/2024 6:17:55 AM
4	ICB	0	4	9/24/2024 6:21:49 AM
5	LLOQ	0	5	9/24/2024 6:30:07 AM
6	ICSA	0	6	9/24/2024 6:34:08 AM
7	SIC Multi	0	7	9/24/2024 6:38:03 AM
8	LDR Check	0	8	9/24/2024 6:41:59 AM
9	xLLOQ 0.005ppm	1	1	9/24/2024 7:09:07 AM
10	LLOQ 0.01ppm As soil TCLP	1	2	9/24/2024 7:13:05 AM
11	LDR 20 As pass	1	3	9/24/2024 7:16:57 AM
12	LDR 20 B pass	1	4	9/24/2024 7:20:50 AM
13	LDR 200 Fe pass	1	5	9/24/2024 7:24:42 AM
14	XLDR 1000 Ca	1	6	9/24/2024 7:28:35 AM
15	LDR 500 Fe pass	1	7	9/24/2024 7:34:29 AM
16	CCV	0	3	9/24/2024 7:41:14 AM
17	CCB	0	4	9/24/2024 7:45:13 AM
18	WG1974842-1 WG1974842	1	8	9/24/2024 8:10:13 AM
19	WG1974842-2 WG1974842	1	9	9/24/2024 8:14:12 AM
20	L2450787-01 WG1974842	1	20	9/24/2024 8:18:06 AM
21	L2450787-02 WG1974842	1	21	9/24/2024 8:22:00 AM
22	L2450791-01 WG1974842	1	22	9/24/2024 8:25:54 AM
23	L2454463-01 WG1974842	1	10	9/24/2024 8:29:48 AM
24	WG1974842-3 WG1974842	1	11	9/24/2024 8:33:43 AM
25	WG1974842-4 WG1974842	1	12	9/24/2024 8:37:37 AM
26	WG1974842-5 WG1974842	1	13	9/24/2024 8:41:32 AM
27	WG1974842-6D5 WG1974842	1	14	9/24/2024 8:45:24 AM
28	CCV	0	3	9/24/2024 8:49:16 AM
29	CCB	0	4	9/24/2024 8:53:10 AM
30	xwrong spot	0	5	9/24/2024 9:04:19 AM
31	xLLOQ 0.005ppm	1	1	9/24/2024 9:05:16 AM
32	L2450791-02 WG1974842	1	23	9/24/2024 9:09:21 AM
33	L2454463-03 WG1974842	1	24	9/24/2024 9:13:16 AM
34	L2454463-04 WG1974842	1	25	9/24/2024 9:17:10 AM
35	L2454463-02 WG1974842	1	15	9/24/2024 9:21:03 AM
36	WG1974842-7 WG1974842	1	16	9/24/2024 9:24:55 AM
37	WG1974842-8 WG1974842	1	17	9/24/2024 9:28:48 AM
38	WG1974842-9 WG1974842	1	18	9/24/2024 9:32:41 AM
39	WG1974842-10D5 WG1974842	1	19	9/24/2024 9:36:35 AM
40	CCV	0	3	9/24/2024 9:40:28 AM
41	CCB	0	4	9/24/2024 9:44:22 AM
42	LDR 750 Ca pass	1	48	9/24/2024 10:00:44 AM
43	LLOQ 0.005ppm As waters	1	47	9/24/2024 10:04:53 AM
44	L2454463-05 WG1974842	1	26	9/24/2024 10:08:48 AM
45	L2454463-06 WG1974842	1	27	9/24/2024 10:12:41 AM
46	L2454463-07 WG1974842	1	28	9/24/2024 10:16:33 AM
47	L2453276-01 WG1974865	1	31	9/24/2024 10:20:26 AM
48	WG1974865-3 WG1974865	1	32	9/24/2024 10:24:20 AM
49	WG1974865-4 WG1974865	1	33	9/24/2024 10:28:14 AM
50	WG1974865-5 WG1974865	1	34	9/24/2024 10:32:08 AM
51	WG1974865-6D5 WG1974865	1	35	9/24/2024 10:36:03 AM
52	CCV	0	3	9/24/2024 10:39:58 AM
53	CCB	0	4	9/24/2024 10:43:52 AM
54	WG1974865-1 WG1974865	1	29	9/24/2024 10:51:03 AM
55	WG1975349-1 WG1975349	1	49	9/24/2024 10:55:11 AM
56	WG1974865-2 WG1974865	1	30	9/24/2024 10:59:04 AM
57	WG1975349-2 WG1975349	1	50	9/24/2024 11:02:57 AM
58	WG1975349-3 WG1975349	1	51	9/24/2024 11:06:50 AM
59	L2453277-01 WG1974865	1	36	9/24/2024 11:10:43 AM
60	WG1974865-7 WG1974865	1	37	9/24/2024 11:14:38 AM
61	WG1974865-8 WG1974865	1	38	9/24/2024 11:18:31 AM
62	WG1974865-9 WG1974865	1	39	9/24/2024 11:22:24 AM
63	WG1974865-10D5 WG1974865	1	40	9/24/2024 11:26:17 AM
64	CCV	0	3	9/24/2024 11:30:11 AM
65	CCB	0	4	9/24/2024 11:34:05 AM
66	WG1975353-1 WG1975353	1	53	9/24/2024 11:39:09 AM
67	WG1975353-2D2 WG1975353	1	54	9/24/2024 11:43:11 AM
68	L2454601-01 WG1975349	1	52	9/24/2024 11:47:04 AM

Sequence Trace 9

9/24/2024 6:02:56 PM

Index	Label	Rack	Vial	Started at
69	L2453255-01 WG1974865	1	46	9/24/2024 11:50:57 AM
70	L2453252-04 WG1974865	1	41	9/24/2024 11:54:52 AM
71	L2453252-05 WG1974865	1	42	9/24/2024 11:58:45 AM
72	L2453252-06 WG1974865	1	43	9/24/2024 12:02:39 PM
73	L2454641-01D2 WG1975353	1	60	9/24/2024 12:06:33 PM
74	L2454641-02D2 WG1975353	2	1	9/24/2024 12:10:28 PM
75	L2454641-03D2 WG1975353	2	2	9/24/2024 12:14:22 PM
76	CCV	0	3	9/24/2024 12:18:17 PM
77	CCB	0	4	9/24/2024 12:22:12 PM
78	WG1975268-1 WG1975268	2	3	9/24/2024 12:29:12 PM
79	WG1975268-2 WG1975268	2	4	9/24/2024 12:33:24 PM
80	L2453252-07 WG1974865	1	44	9/24/2024 12:37:18 PM
81	L2453252-08 WG1974865	1	45	9/24/2024 12:41:12 PM
82	L2453342-06 WG1975268	2	10	9/24/2024 12:45:07 PM
83	L2454641-04D2 WG1975353	1	55	9/24/2024 12:49:02 PM
84	WG1975353-3D2 WG1975353	1	56	9/24/2024 12:52:56 PM
85	WG1975353-4D2 WG1975353	1	57	9/24/2024 12:56:51 PM
86	WG1975353-5D2 WG1975353	1	58	9/24/2024 1:00:45 PM
87	WG1975353-6D10 WG1975353	1	59	9/24/2024 1:04:40 PM
88	CCV	0	3	9/24/2024 1:08:35 PM
89	CCB	0	4	9/24/2024 1:12:30 PM
90	L2453342-05 WG1973830	2	11	9/24/2024 1:18:02 PM
91	WG1973830-7 WG1973830	2	12	9/24/2024 1:22:12 PM
92	WG1973830-8 WG1973830	2	13	9/24/2024 1:26:07 PM
93	WG1973830-9 WG1973830	2	14	9/24/2024 1:30:02 PM
94	WG1973830-10D5 WG1973830	2	15	9/24/2024 1:33:57 PM
95	L2453016-04 WG1975268	2	5	9/24/2024 1:37:51 PM
96	WG1975268-3 WG1975268	2	6	9/24/2024 1:41:46 PM
97	WG1975268-4 WG1975268	2	7	9/24/2024 1:45:40 PM
98	WG1975268-5 WG1975268	2	8	9/24/2024 1:49:34 PM
99	WG1975268-6D5 WG1975268	2	9	9/24/2024 1:53:29 PM
100	CCV	0	3	9/24/2024 1:57:24 PM
101	CCB	0	4	9/24/2024 2:01:18 PM
102	L2453342-10 WG1973830	2	22	9/24/2024 2:07:42 PM
103	L2453342-01 WG1973830	2	16	9/24/2024 2:11:43 PM
104	L2453342-02 WG1973830	2	17	9/24/2024 2:15:38 PM
105	L2453342-03 WG1973830	2	18	9/24/2024 2:19:33 PM
106	L2453342-04 WG1973830	2	19	9/24/2024 2:23:27 PM
107	L2453342-07 WG1973830	2	20	9/24/2024 2:27:22 PM
108	L2453342-08 WG1973830	2	21	9/24/2024 2:31:17 PM
109	CCV	0	3	9/24/2024 2:35:12 PM
110	CCB	0	4	9/24/2024 2:39:06 PM
111	WG1974066-1 WG1974066	2	23	9/24/2024 3:03:19 PM
112	WG1974066-2d2 WG1974066	2	24	9/24/2024 3:07:34 PM
113	L2453391-01d2 WG1974066	2	25	9/24/2024 3:11:30 PM
114	WG1974066-3d2 WG1974066	2	26	9/24/2024 3:15:25 PM
115	WG1974066-4d2 WG1974066	2	27	9/24/2024 3:19:20 PM
116	WG1974066-5d2 WG1974066	2	28	9/24/2024 3:23:15 PM
117	WG1974066-6d10 WG1974066	2	29	9/24/2024 3:27:10 PM
118	L2453391-02d2 WG1974066	2	30	9/24/2024 3:31:05 PM
119	L2453391-03d2 WG1974066	2	31	9/24/2024 3:35:00 PM
120	L2453391-04d2 WG1974066	2	32	9/24/2024 3:38:55 PM
121	CCV	0	3	9/24/2024 3:42:50 PM
122	CCB	0	4	9/24/2024 3:46:45 PM
123	L2453391-05d2 WG1974066	2	33	9/24/2024 3:52:01 PM
124	L2453391-06d2 WG1974066	2	34	9/24/2024 3:56:10 PM
125	L2453391-07d2 WG1974066	2	35	9/24/2024 4:00:05 PM
126	L2453391-08d2 WG1974066	2	36	9/24/2024 4:04:00 PM
127	L2453391-09d2 WG1974066	2	37	9/24/2024 4:07:56 PM
128	L2453391-10d2 WG1974066	2	38	9/24/2024 4:11:51 PM
129	L2453391-11d2 WG1974066	2	39	9/24/2024 4:15:47 PM
130	L2453391-12d2 WG1974066	2	40	9/24/2024 4:19:42 PM
131	L2453391-13d2 WG1974066	2	41	9/24/2024 4:23:37 PM
132	L2453391-14d2 WG1974066	2	42	9/24/2024 4:27:33 PM
133	CCV	0	3	9/24/2024 4:31:29 PM
134	CCB	0	4	9/24/2024 4:35:23 PM
135	WG1974891-1 WG1974891	2	49	9/24/2024 4:40:43 PM
136	WG1974891-2d2 WG1974891	2	50	9/24/2024 4:44:53 PM
137	WG1974891-3d2 WG1974891	2	51	9/24/2024 4:48:48 PM
138	L2453184-01d2 WG1974891	2	52	9/24/2024 4:52:44 PM
139	L2453184-02d2 WG1974891	2	53	9/24/2024 4:56:39 PM
140	L2453184-03d2 WG1974891	2	54	9/24/2024 5:00:34 PM
141	L2453184-04d2 WG1974891	2	55	9/24/2024 5:04:30 PM
142	L2453208-01d2 WG1974891	2	56	9/24/2024 5:08:25 PM

Sequence Trace 9

9/24/2024 6:02:56 PM

Index	Label	Rack	Vial	Started at
143	L2453314-01d2 WG1974891	2	57	9/24/2024 5:12:22 PM
144	L2453398-01d2 WG1974891	2	58	9/24/2024 5:16:19 PM
145	CCV	0	3	9/24/2024 5:20:14 PM
146	CCB	0	4	9/24/2024 5:24:10 PM
147	L2453391-15d2 WG1974066	2	43	9/24/2024 5:30:14 PM
148	L2453391-16d2 WG1974066	2	44	9/24/2024 5:34:25 PM
149	L2453391-17d2 WG1974066	2	45	9/24/2024 5:38:21 PM
150	L2453391-18d2 WG1974066	2	46	9/24/2024 5:42:16 PM
151	L2453391-19d2 WG1974066	2	47	9/24/2024 5:46:11 PM
152	L2453391-20d2 WG1974066	2	48	9/24/2024 5:50:07 PM
153	CCV	0	3	9/24/2024 5:54:03 PM
154	CCB	0	4	9/24/2024 5:57:59 PM
155	WG1974561-1 WG1974561	2	59	
156	WG1974561-2d2 WG1974561	2	60	
157	L2453188-02d2 WG1974561	3	6	
158	L2453188-03d2 WG1974561	3	7	
159	L2453188-04d2 WG1974561	3	8	
160	L2453188-01d2 WG1974561	3	1	
161	WG1974561-3d2 WG1974561	3	2	
162	WG1974561-4d2 WG1974561	3	3	
163	WG1974561-5d2 WG1974561	3	4	
164	WG1974561-6d10 WG1974561	3	5	
165	CCV	0	3	
166	CCB	0	4	
167	L2453188-05d2 WG1974561	3	9	
168	L2453188-06d2 WG1974561	3	10	
169	L2453311-01d2 WG1974561	3	11	
170	L2453311-02d2 WG1974561	3	12	
171	L2453311-03d2 WG1974561	3	13	
172	L2453311-04d2 WG1974561	3	14	
173	CCV	0	3	
174	CCB	0	4	
175	CCV	0	3	
176	CCB	0	4	
177	LLOQ	0	5	

Sequence Trace 5

9/24/2024 6:26:14 PM

LabBook: WG1975466_09242024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace5	0	1	9/24/2024 9:12:36 AM
2	ICAL	0	2	9/24/2024 9:18:55 AM
3	ICV	0	3	9/24/2024 9:24:57 AM
4	ICB	0	4	9/24/2024 9:31:00 AM
5	ICV	0	10	9/24/2024 9:37:19 AM
6	ICB	0	4	9/24/2024 9:43:25 AM
7	LLOQ RL	0	5	9/24/2024 9:49:44 AM
8	ICSA	0	6	9/24/2024 10:06:33 AM
9	xLDR 400 Fe Fail	1	1	9/24/2024 10:13:16 AM
10	LDR 800 Ca pass	1	2	9/24/2024 10:19:39 AM
11	SIC Multi	0	7	9/24/2024 10:37:57 AM
12	IEC 500 Al	1	3	9/24/2024 10:44:39 AM
13	LDR Check	0	8	9/24/2024 10:50:57 AM
14	LDR 200 K Pass	1	4	9/24/2024 11:05:28 AM
15	LDR 200 Na Pass	1	5	9/24/2024 11:11:45 AM
16	xLDR 100 Na Pass	1	6	9/24/2024 11:18:12 AM
17	LDR 20 B Pass	1	7	9/24/2024 11:24:31 AM
18	CCV	0	3	9/24/2024 11:31:27 AM
19	CCB	0	4	9/24/2024 11:37:29 AM
20	CCV	0	3	9/24/2024 11:45:43 AM
21	CCB	0	4	9/24/2024 11:51:46 AM
22	WG1975196-1 WG1975196	1	8	9/24/2024 12:03:35 PM
23	WG1975196-2 WG1975196	1	9	9/24/2024 12:09:53 PM
24	L2453342-01 WG1975196	1	15	9/24/2024 12:16:00 PM
25	L2453342-02 WG1975196	1	16	9/24/2024 12:22:13 PM
26	L2453342-03 WG1975196	1	17	9/24/2024 12:28:24 PM
27	L2453250-01 WG1975196	1	10	9/24/2024 12:34:37 PM
28	WG1975196-3 WG1975196	1	11	9/24/2024 12:40:50 PM
29	WG1975196-4 WG1975196	1	12	9/24/2024 12:47:02 PM
30	WG1975196-5 WG1975196	1	13	9/24/2024 12:53:16 PM
31	WG1975196-6D5 WG1975196	1	14	9/24/2024 12:59:18 PM
32	CCV	0	3	9/24/2024 1:05:31 PM
33	CCB	0	4	9/24/2024 1:11:33 PM
34	CCV	0	3	9/24/2024 1:17:52 PM
35	CCB	0	4	9/24/2024 1:23:54 PM
36	L2453342-04 WG1975196	1	18	9/24/2024 1:41:25 PM
37	L2453342-05 WG1975196	1	19	9/24/2024 1:47:39 PM
38	L2453342-06 WG1975196	1	20	9/24/2024 1:53:52 PM
39	L2453342-07 WG1975196	1	21	9/24/2024 2:00:08 PM
40	L2453342-08 WG1975196	1	22	9/24/2024 2:06:22 PM
41	L2453342-10 WG1975196	1	23	9/24/2024 2:12:35 PM
42	CCV	0	3	9/24/2024 2:18:53 PM
43	CCB	0	4	9/24/2024 2:24:56 PM
44	L2453311-01 WG1974743	1	24	9/24/2024 2:57:07 PM
45	L2453311-02 WG1974743	1	25	9/24/2024 3:03:20 PM
46	L2453311-03 WG1974743	1	26	9/24/2024 3:09:30 PM
47	L2453311-04 WG1974743	1	27	9/24/2024 3:15:40 PM
48	CCV	0	3	9/24/2024 3:33:26 PM
49	CCB	0	4	9/24/2024 3:39:48 PM
50	CCV	0	3	9/24/2024 3:51:22 PM
51	CCB	0	4	9/24/2024 3:57:25 PM
52	WG1975268-2 WG1975268	1	32	9/24/2024 4:03:58 PM
53	L2453345-01D2 WG1974088	1	28	9/24/2024 4:11:58 PM
54	L2453345-02D2 WG1974088	1	29	9/24/2024 4:18:08 PM
55	L2453345-07D2 WG1974088	1	30	9/24/2024 4:24:20 PM
56	L2453345-08D2 WG1974088	1	31	9/24/2024 4:30:32 PM
57	CCV	0	3	9/24/2024 4:36:44 PM
58	CCB	0	4	9/24/2024 4:42:47 PM
59	WG1974264-1 WG1974264	1	33	9/24/2024 4:51:09 PM
60	WG1974264-2 WG1974264	1	34	9/24/2024 4:57:26 PM
61	L2453404-16 WG1974264	1	40	9/24/2024 5:03:33 PM
62	L2453422-15 WG1974264	1	41	9/24/2024 5:09:44 PM
63	L2453167-03 WG1974264	1	35	9/24/2024 5:15:55 PM
64	WG1974264-3 WG1974264	1	36	9/24/2024 5:22:13 PM
65	WG1974264-4 WG1974264	1	37	9/24/2024 5:28:27 PM
66	WG1974264-5 WG1974264	1	38	9/24/2024 5:34:49 PM
67	WG1974264-6D5 WG1974264	1	39	9/24/2024 5:41:01 PM
68	CCV	0	3	9/24/2024 5:47:09 PM
69	CCB	0	4	9/24/2024 5:53:12 PM
70	xLDR 60 Zn No Exposure	1	42	9/24/2024 5:59:31 PM
71	LDR 60 Zn	1	42	9/24/2024 6:11:52 PM
72	LDR 60 Si	1	43	9/24/2024 6:18:14 PM

Sequence Trace 5

9/24/2024 6:26:14 PM

Index:	Label:	Rack	Vial	Start time:
73	CCV	0	3	
74	CCB	0	4	
75	CCV	0	3	
76	CCB	0	4	
77	CCV	0	3	
78	CCB	0	4	
79	LLOQ RL	0	5	

METALS ELN REPORT

Workgroup: WG1973830

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS, FPS, MIX	METSPIKE2	IPS, FPS, MIX	326, 140

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452763-02 WATER	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2452825-01 WATER	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2452844-01 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453053-01 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453053-02 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453053-03 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453053-04 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453053-05 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-01 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-02 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-03 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-04 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-05 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-07 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	

METALS ELN REPORT

Workgroup: WG1973830

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453342-08 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
L2453342-10 SAMP	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-1 BLANK	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-2 LCS	09/20/24 08:00	Alexander Gonatas	50	<2	0.5	09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-3 MS	09/20/24 08:00	Alexander Gonatas	50	<2	0.5	09/20/24 08:00	7	95.1	09/20/24 11:00	50	FM2437130422 CLH
WG1973830-4 MSD	09/20/24 08:00	Alexander Gonatas	50	<2	0.5	09/20/24 08:00	7	95.1	09/20/24 11:00	50	IPS2433150405 CLH
WG1973830-5 PS	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-6 SERDIL	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-7 MS	09/20/24 08:00	Alexander Gonatas	50	<2	0.5	09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-8 MSD	09/20/24 08:00	Alexander Gonatas	50	<2	0.5	09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-9 PS	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	
WG1973830-10 SERDIL	09/20/24 08:00	Alexander Gonatas	50	<2		09/20/24 08:00	7	95.1	09/20/24 11:00	50	ELN:efm

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1973830

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1975196

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2453250-01 SAMP	09/23/24 20:59	Maisie Mcqueen	09-19-24 11:22	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-01 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-02 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-03 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-04 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-05 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-06 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-07 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-08 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
L2453342-10 SAMP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
WG1975196-1 BLANK	09/23/24 20:59	Maisie Mcqueen	09/19/24 11:22	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	eln: cme
WG1975196-2 LCS	09/23/24 20:59	Maisie Mcqueen	NA	50	<2	0.5	09/23/24 20:59	7	94.2	09/23/24 23:59	50	
WG1975196-3 MS	09/23/24 20:59	Maisie Mcqueen	NA	50	<2	0.5	09/23/24 20:59	7	94.2	09/23/24 23:59	50	

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1975196

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1975196-4 DUP	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
WG1975196-5 PS	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	
WG1975196-6 SERDIL	09/23/24 20:59	Maisie Mcqueen	NA	50	<2		09/23/24 20:59	7	94.2	09/23/24 23:59	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1975268

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452152-01	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-02	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-03	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-04	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2453016-04 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453342-06 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453672-01 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-01 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-02 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-03 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-04 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-06 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-07 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-08 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1975268

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453720-09 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-1 BLANK	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	FM2438201045 AJT
WG1975268-2 LCS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	ELN:cme
WG1975268-3 MS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-4 DUP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-5 PS	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-6 SERDIL	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-7 MS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-8 MSD	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-9 PS	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-10 SERDIL	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	IPS2433150405CLH

Reported: 24-SEP-24 07:25 PM

METALS ELN REPORT

Workgroup: WG1975268

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1973832-1	**Date Collected**	: NA
Client ID	: WG1973832-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CEY
Lab File ID	: WG1975103.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00015	0.00020	0.00009	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:50
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975201-1	**Date Collected**	: NA
Client ID	: WG1975201-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975201-4	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/24/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975201-6	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1DDUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/24/24 12:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975376.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00016	0.00020	0.0001	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00085	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:46
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975270-1	**Date Collected**	: NA
Client ID	: WG1975270-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879154-1			R1879154-3			R1879154-5			
Date Analyzed :	09/23/24 11:39			09/23/24 12:28			09/23/24 13:10			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	95	0.0050	0.00510	102	0.00510	103		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1879472-1			R1879472-3			R1879472-5		R1879472-7	
Date Analyzed	:	09/24/24 07:13			09/24/24 08:25			09/24/24 09:27		09/24/24 10:32	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0031	104	0.0050	0.00480	96	0.00470	94	0.00470	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879472-9			R1879472-11		R1879472-13	
Date Analyzed :				09/24/24 11:58			09/24/24 12:37		09/24/24 13:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	95	0.00470	94	0.00460	93

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1879529-1			R1879529-3			R1879529-5		R1879529-7	
Date Analyzed	:	09/24/24 10:51			09/24/24 11:33			09/24/24 12:22		09/24/24 13:01	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0029	95	0.0050	0.00500	100	0.00500	99	0.00500	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879529-9			R1879529-11		R1879529-13	
Date Analyzed :				09/24/24 13:42			09/24/24 14:32		09/24/24 15:49	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00500	100	0.00500	100

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1879154-2		R1879154-4		R1879154-6				WG1973832-1	
Date Analyzed	:	09/23/24 11:42		09/23/24 12:32		09/23/24 13:13				09/23/24 12:50	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury		0.0000910	U	0.0000910	U	0.0000910	U			0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879472-2		R1879472-4		R1879472-6		R1879472-8		WG1975201-1	
Date Analyzed :	09/24/24 07:16		09/24/24 08:28		09/24/24 09:30		09/24/24 10:35		09/24/24 11:31	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879472-10		R1879472-12		R1879472-14			
Date Analyzed :			09/24/24 12:01		09/24/24 12:41		09/24/24 13:08			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879529-2		R1879529-4		R1879529-6		R1879529-8		WG1975270-1	
Date Analyzed :	09/24/24 10:54		09/24/24 11:36		09/24/24 12:25		09/24/24 13:05		09/24/24 12:45	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879529-10		R1879529-12		R1879529-14			
Date Analyzed :			09/24/24 13:46		09/24/24 14:35		09/24/24 15:53			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453053-01		
Matrix Spike	: WG1973832-3	**MS Analysis Date**	: 09/23/24 13:00
Matrix Spike Dup	: WG1973832-4	**MSD Analysis Date**	: 09/23/24 13:04

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00473	95	0.005	0.00479	96	1	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01		
Matrix Spike	: WG1975201-3	**MS Analysis Date**	: 09/24/24 11:41
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00428	86					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2453342-02		
Matrix Spike	: WG1975201-5	**MS Analysis Date**	: 09/24/24 12:04
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	0.00015J	0.005	0.00436	87					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10D	**Matrix**	: WATER
Lab Sample ID	: L2453342-05		
Matrix Spike	: WG1973832-5	**MS Analysis Date**	: 09/24/24 15:20
Matrix Spike Dup	: WG1973832-6	**MSD Analysis Date**	: 09/24/24 15:23

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00463	93	0.005	0.00454	91	2	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975270-3	**MS Analysis Date**	: 09/24/24 12:55
Matrix Spike Dup	: WG1975270-4	**MSD Analysis Date**	: 09/24/24 12:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00022	0.005	0.00459	87	0.005	0.00433	82	6	70-130	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01	**Analysis Date**	: 09/24/24 11:38
Dup Sample ID	: WG1975201-4	**DUP Analysis Date**	: 09/24/24 11:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2453342-02	**Analysis Date**	: 09/24/24 11:54
Dup Sample ID	: WG1975201-6	**DUP Analysis Date**	: 09/24/24 12:08

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	0.00015J	0.00016J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1973832-2	**LCS Analysis Date**	: 09/23/24 12:54
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00100	0.000890	89.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975201-2	**LCS Analysis Date**	: 09/24/24 11:35
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	0.00100	0.000850	85.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975270-2	**LCS Analysis Date**	: 09/24/24 12:48
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00100	0.00100	100.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1973832-1	09/20/24 08:50	-	25
WG1973832-2	09/20/24 08:50	-	25
WG1973832-3	09/20/24 11:58	-	25
WG1973832-4	09/20/24 11:58	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-01	09/23/24 22:31	-	25
L2453342-02	09/23/24 22:31	-	25
L2453342-03	09/23/24 22:31	-	25
L2453342-04	09/23/24 22:31	-	25
L2453342-05	09/23/24 22:31	-	25
L2453342-06	09/23/24 22:31	-	25
L2453342-07	09/23/24 22:31	-	25
L2453342-08	09/23/24 22:31	-	25
L2453342-10	09/23/24 22:31	-	25
WG1975201-1	09/23/24 22:31	-	25
WG1975201-2	09/23/24 22:31	-	25
WG1975201-3	09/23/24 22:31	-	25
WG1975201-4	09/23/24 22:31	-	25
WG1975201-5	09/23/24 22:31	-	25
WG1975201-6	09/23/24 22:31	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-06	09/23/24 22:31	-	25
WG1975270-1	09/23/24 22:31	-	25
WG1975270-2	09/23/24 22:31	-	25
WG1975270-3	09/23/24 22:31	-	25
WG1975270-4	09/23/24 22:31	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453342-01	09/20/24 08:50	-	25
L2453342-02	09/20/24 08:50	-	25
L2453342-03	09/20/24 08:50	-	25
L2453342-04	09/20/24 08:50	-	25
L2453342-05	09/20/24 08:50	-	25
L2453342-07	09/20/24 08:50	-	25
L2453342-08	09/20/24 08:50	-	25
L2453342-10	09/20/24 08:50	-	25
WG1973832-5	09/20/24 08:50	-	25
WG1973832-6	09/20/24 08:50	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 09/23/24 11:39	**End Date**	: 09/23/24 13:13

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1879154-1 ICV	1	11:39:37	X
R1879154-2 ICB	1	11:42:57	X
R1879154-3 CCV	1	12:28:52	X
R1879154-4 CCB	1	12:32:10	X
WG1973832-1 BLANK	1	12:50:51	X
WG1973832-2 LCS	1	12:54:10	X
WG1973832-3 MS	1	13:00:46	X
WG1973832-4 MSD	1	13:04:04	X
R1879154-5 CCV	1	13:10:41	X
R1879154-6 CCB	1	13:13:59	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 09/24/24 07:13	**End Date**	: 09/24/24 13:08

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1879472-1 ICV	1	07:13:01	X
R1879472-2 ICB	1	07:16:19	X
R1879472-3 CCV	1	08:25:34	X
R1879472-4 CCB	1	08:28:53	X
R1879472-5 CCV	1	09:27:26	X
R1879472-6 CCB	1	09:30:44	X
R1879472-7 CCV	1	10:32:25	X
R1879472-8 CCB	1	10:35:43	X
WG1975201-1 BLANK	1	11:31:47	X
WG1975201-2 LCS	1	11:35:03	X
L2453342-01	1	11:38:21	X
WG1975201-3 MS	1	11:41:38	X
WG1975201-4 DUP	1	11:44:56	X
L2453342-02	1	11:54:49	X
R1879472-9 CCV	1	11:58:08	X
R1879472-10 CCB	1	12:01:25	X
WG1975201-5 MS	1	12:04:43	X
WG1975201-6 DUP	1	12:08:01	X
L2453342-03	1	12:24:31	X
L2453342-04	1	12:27:49	X
L2453342-05	1	12:31:07	X
L2453342-06	1	12:34:25	X
R1879472-11 CCV	1	12:37:43	X
R1879472-12 CCB	1	12:41:01	X
L2453342-07	1	12:44:19	X
L2453342-08	1	12:47:38	X
L2453342-10	1	12:50:56	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 09/24/24 07:13	**End Date**	: 09/24/24 13:08

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1879472-13 CCV	1	13:04:56	X
R1879472-14 CCB	1	13:08:15	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 09/24/24 10:51	**End Date**	: 09/24/24 15:53

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1879529-1 ICV	1	10:51:14	X
R1879529-2 ICB	1	10:54:34	X
R1879529-3 CCV	1	11:33:34	X
R1879529-4 CCB	1	11:36:54	X
R1879529-5 CCV	1	12:22:02	X
R1879529-6 CCB	1	12:25:21	X
WG1975270-1 BLANK	1	12:45:13	X
WG1975270-2 LCS	1	12:48:31	X
WG1975270-3 MS	1	12:55:08	X
WG1975270-4 MSD	1	12:58:27	X
R1879529-7 CCV	1	13:01:45	X
R1879529-8 CCB	1	13:05:03	X
R1879529-9 CCV	1	13:42:53	X
R1879529-10 CCB	1	13:46:11	X
L2453342-06	1	14:15:45	X
R1879529-11 CCV	1	14:32:23	X
R1879529-12 CCB	1	14:35:41	X
L2453342-05	1	15:16:46	X
WG1973832-5 MS	1	15:20:04	X
WG1973832-6 MSD	1	15:23:23	X
L2453342-01	1	15:26:41	X
L2453342-02	1	15:29:59	X
L2453342-03	1	15:33:17	X
L2453342-04	1	15:36:35	X
L2453342-07	1	15:39:53	X
L2453342-08	1	15:43:11	X
L2453342-10	1	15:46:29	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 09/24/24 10:51	**End Date**	: 09/24/24 15:53

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1879529-13 CCV	1	15:49:48	X
R1879529-14 CCB	1	15:53:06	X

Date Created: 03/19/18
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File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 9/23/2024
Name :

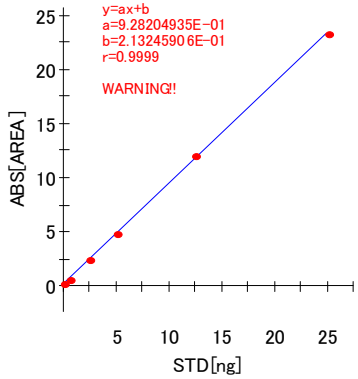
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2455	0.0347	-	09/23/2024 11:17	CEY,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.6250	0.4436	11.3	09/23/2024 11:21	CEY,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.4667	2.4278	2.9	09/23/2024 11:24	CEY,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.8349	4.9791	0.4	09/23/2024 11:27	CEY,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.0056	12.7045	1.6	09/23/2024 11:30	CEY,NIC1
6	10.000	2.500	2.500	2.500	25.000	23.3351	24.9103	0.4	09/23/2024 11:34	CEY,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	6.8439	7.1435	2.857	-	09/23/2024 11:39	CEY,NIC1
2	ICB	2.500	2.500	2.500	0.2893	0.0819	0.033	-	09/23/2024 11:42	CEY,NIC1
3	0.2 PPB	2.500	2.500	2.500	0.6425	0.4625	0.185	-	09/23/2024 11:46	CEY,NIC1
4	I2453052-01 WG1973876	2.500	2.500	2.500	0.2591	0.0494	0.020	-	09/23/2024 11:59	CEY,NIC1
5	I2453052-02 WG1973876	2.500	2.500	2.500	0.2630	0.0536	0.021	-	09/23/2024 12:02	CEY,NIC1
6	I2453052-03 WG1973876	2.500	2.500	2.500	0.2500	0.0396	0.016	-	09/23/2024 12:05	CEY,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	I2453062-01 WG1973876	2.500	2.500	2.500	0.2481	0.0375	0.015	-	09/23/2024 12:09	CEY,NIC1
8	I2453062-02 WG1973876	2.500	2.500	2.500	0.2168	0.0038	0.002	-	09/23/2024 12:12	CEY,NIC1
9	I2453062-03 WG1973876	2.500	2.500	2.500	0.2420	0.0310	0.012	-	09/23/2024 12:15	CEY,NIC1
10	I2453062-04 WG1973876	2.500	2.500	2.500	0.2272	0.0150	0.006	-	09/23/2024 12:18	CEY,NIC1
11	I2453062-05 WG1973876	2.500	2.500	2.500	0.2353	0.0238	0.010	-	09/23/2024 12:22	CEY,NIC1
12	I2453070-06 WG1973876	2.500	2.500	2.500	0.2465	0.0358	0.014	-	09/23/2024 12:25	CEY,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	12.1032	12.8096	5.124	102.5	09/23/2024 12:28	CEY,NIC1
14	Check Blank	2.500	2.500	2.500	0.3534	0.1510	0.060	-	09/23/2024 12:32	CEY,NIC1
15	L2453002-01 WG1973434	2.500	2.500	2.500	0.1723	-0.0441	-0.018	-	09/23/2024 12:37	CEY,NIC1
16	L2453002-03 WG1973434	2.500	2.500	2.500	0.1699	-0.0467	-0.019	-	09/23/2024 12:40	CEY,NIC1
17	L2453051-01 WG1973434	2.500	2.500	2.500	0.1734	-0.0429	-0.017	-	09/23/2024 12:44	CEY,NIC1
18	L2453051-02 WG1973434	2.500	2.500	2.500	0.1962	-0.0184	-0.007	-	09/23/2024 12:47	CEY,NIC1
19	WG1973832-1 WG1973832	2.500	2.500	2.500	0.1847	-0.0308	-0.012	-	09/23/2024 12:50	CEY,NIC1
20	WG1973832-2 WG1973832	2.500	2.500	2.500	2.2846	2.2316	0.893	-	09/23/2024 12:54	CEY,NIC1
21	L2453053-01 WG1973832	2.500	2.500	2.500	0.1755	-0.0407	-0.016	-	09/23/2024 12:57	CEY,NIC1
22	WG1973832-3 WG1973832	2.500	2.500	2.500	11.1923	11.8283	4.731	-	09/23/2024 13:00	CEY,NIC1
23	WG1973832-4 WG1973832	2.500	2.500	2.500	11.3395	11.9869	4.795	-	09/23/2024 13:04	CEY,NIC1
24	L2452763-02 WG1973832	2.500	2.500	2.500	0.2432	0.0323	0.013	-	09/23/2024 13:07	CEY,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	12.1231	12.8311	5.132	102.6	09/23/2024 13:10	CEY,NIC1
26	Check Blank	2.500	2.500	2.500	0.3591	0.1571	0.063	-	09/23/2024 13:13	CEY,NIC1
27	L2453053-02 WG1973832	2.500	2.500	2.500	0.2212	0.0086	0.003	-	09/23/2024 13:18	CEY,NIC1
28	L2453053-03 WG1973832	2.500	2.500	2.500	0.2336	0.0219	0.009	-	09/23/2024 13:21	CEY,NIC1
29	L2453053-04 WG1973832	2.500	2.500	2.500	0.2199	0.0072	0.003	-	09/23/2024 13:24	CEY,NIC1
30	L2453053-05 WG1973832	2.500	2.500	2.500	0.2088	-0.0048	-0.002	-	09/23/2024 13:28	CEY,NIC1
31	XHG2438210337FAC	2.500	2.500	2.500	2.4928	2.4559	0.982	-	09/23/2024 13:31	CEY,NIC1
32	wg1974310-1 wg1974310	2.500	2.500	2.500	0.2028	-0.0113	-0.005	-	09/23/2024 13:35	CEY,NIC1
33	wg1974310-2 wg1974310	2.500	2.500	2.500	2.3964	2.3520	0.941	-	09/23/2024 13:39	CEY,NIC1
34	I2453011-01 wg1974310	2.500	2.500	2.500	0.1942	-0.0205	-0.008	-	09/23/2024 13:42	CEY,NIC1
35	wg1974310-3 wg1974310	2.500	2.500	2.500	11.2301	11.8690	4.748	-	09/23/2024 13:45	CEY,NIC1
36	wg1974310-4 wg1974310	2.500	2.500	2.500	0.2186	0.0058	0.002	-	09/23/2024 13:49	CEY,NIC1
37	xCheck STD(5ug/L)	2.500	2.500	2.500	0.3614	0.1596	0.064	-	09/23/2024 13:52	CEY,NIC1/Check STD Err
38	Check STD(5ug/L)	2.500	2.500	2.500	12.2031	12.9172	5.167	103.3	09/23/2024 13:59	CEY,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.3655	0.1640	0.066	-	09/23/2024 14:02	CEY,NIC1
40	I2453011-02 wg1974310	2.500	2.500	2.500	0.2067	-0.0071	-0.003	-	09/23/2024 14:06	CEY,NIC1
41	wg1974310-5 wg1974310	2.500	2.500	2.500	11.4416	12.0968	4.839	-	09/23/2024 14:09	CEY,NIC1
42	wg1974310-6 wg1974310	2.500	2.500	2.500	0.2024	-0.0117	-0.005	-	09/23/2024 14:12	CEY,NIC1
43	I2453011-03 wg1974310	2.500	2.500	2.500	0.1935	-0.0213	-0.009	-	09/23/2024 14:15	CEY,NIC1
44	I2453011-04 wg1974310	2.500	2.500	2.500	0.2091	-0.0045	-0.002	-	09/23/2024 14:19	CEY,NIC1
45	I2453063-01 wg1974310	2.500	2.500	2.500	0.2000	-0.0143	-0.006	-	09/23/2024 14:22	CEY,NIC1
46	WG1974261-1 WG1974261	2.500	2.500	2.500	0.1764	-0.0397	-0.016	-	09/23/2024 14:25	CEY,NIC1
47	WG1974261-2 WG1974261	2.500	2.500	2.500	2.3782	2.3324	0.933	-	09/23/2024 14:29	CEY,NIC1
48	WG1974261-3 WG1974261	2.500	2.500	2.500	2.3543	2.3067	0.923	-	09/23/2024 14:32	CEY,NIC1
49	L2452952-01 WG1974261	2.500	2.500	2.500	0.1931	-0.0217	-0.009	-	09/23/2024 14:35	CEY,NIC1
50	xCheck STD(5ug/L)	2.500	2.500	2.500	0.3180	0.1129	0.045	-	09/23/2024 14:39	CEY,NIC1/Check STD Erro
51	Check STD(5ug/L)	2.500	2.500	2.500	12.1581	12.8688	5.148	103.0	09/23/2024 14:43	CEY,NIC1
52	Check Blank	2.500	2.500	2.500	0.3699	0.1688	0.068	-	09/23/2024 14:47	CEY,NIC1
53	WG1974296-1 WG1974296	2.500	2.500	2.500	0.1788	-0.0371	-0.015	-	09/23/2024 15:09	CEY,NIC1
54	WG1974296-2 WG1974296	2.500	2.500	2.500	2.3736	2.3275	0.931	-	09/23/2024 15:12	CEY,NIC1
55	WG1974296-3 WG1974296	2.500	2.500	2.500	2.4213	2.3788	0.952	-	09/23/2024 15:15	CEY,NIC1
56	L2452976-03 WG1974296	2.500	2.500	2.500	0.1994	-0.0149	-0.006	-	09/23/2024 15:19	CEY,NIC1
57	Check STD(5ug/L)	2.500	2.500	2.500	11.7561	12.4357	4.974	99.5	09/23/2024 15:51	DJR,NIC1
58	Check Blank	2.500	2.500	2.500	0.3081	0.1022	0.041	-	09/23/2024 15:55	DJR,NIC1
59	wg1973795-1 wg1973795	2.500	2.500	2.500	0.2367	0.0253	0.010	-	09/23/2024 15:58	DJR,NIC1
60	wg1973795-2 wg1973795	2.500	2.500	2.500	2.5871	2.5575	1.023	-	09/23/2024 16:01	DJR,NIC1
61	L2452909-10 wg1973795	2.500	2.500	2.500	0.4504	0.2555	0.102	-	09/23/2024 16:05	DJR,NIC1
62	wg1973795-3 wg1973795	2.500	2.500	2.500	12.1201	12.8278	5.131	-	09/23/2024 16:08	DJR,NIC1
63	Check STD(5ug/L)	2.500	2.500	2.500	12.1405	12.8498	5.140	102.8	09/23/2024 16:21	DJR,NIC1
64	Check Blank	2.500	2.500	2.500	0.3048	0.0986	0.039	-	09/23/2024 16:24	DJR,NIC1
65	wg1973795-4 wg1973795	2.500	2.500	2.500	11.5457	12.2090	4.884	-	09/23/2024 16:35	DJR,NIC1
66	L2452619-12 wg1973795	2.500	2.500	2.500	0.2448	0.0340	0.014	-	09/23/2024 16:38	DJR,NIC1
67	wg1973795-5 wg1973795	2.500	2.500	2.500	11.5128	12.1736	4.869	-	09/23/2024 16:42	DJR,NIC1
68	wg1973795-6 wg1973795	2.500	2.500	2.500	0.2396	0.0284	0.011	-	09/23/2024 16:45	DJR,NIC1
69	L2452619-11 wg1973795	2.500	2.500	2.500	0.2435	0.0326	0.013	-	09/23/2024 16:48	DJR,NIC1
70	L2452909-01 wg1973795	2.500	2.500	2.500	0.2564	0.0465	0.019	-	09/23/2024 16:51	DJR,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2452909-02 wg1973795	2.500	2.500	2.500	0.3739	0.1731	0.069	-	09/23/2024 16:55	DJR,NIC1
72	L2452909-03 wg1973795	2.500	2.500	2.500	0.2716	0.0629	0.025	-	09/23/2024 16:58	DJR,NIC1
73	L2452909-04 wg1973795	2.500	2.500	2.500	2.3779	2.3321	0.933	-	09/23/2024 17:01	DJR,NIC1
74	L2452909-06 wg1973795	2.500	2.500	2.500	0.3540	0.1516	0.061	-	09/23/2024 17:05	DJR,NIC1
75	Check STD(5ug/L)	2.500	2.500	2.500	12.2500	12.9678	5.187	103.7	09/23/2024 17:08	DJR,NIC1
76	Check Blank	2.500	2.500	2.500	0.3150	0.1096	0.044	-	09/23/2024 17:11	DJR,NIC1
77	L2452909-07 wg1973795	2.500	2.500	2.500	0.9414	0.7845	0.314	-	09/23/2024 17:35	DJR,NIC1
78	L2452909-08 wg1973795	2.500	2.500	2.500	0.2394	0.0282	0.011	-	09/23/2024 17:38	DJR,NIC1
79	L2452909-11 wg1973795	2.500	2.500	2.500	0.2976	0.0909	0.036	-	09/23/2024 17:41	DJR,NIC1
80	L2452909-12 wg1973795	2.500	2.500	2.500	1.0072	0.8554	0.342	-	09/23/2024 17:45	DJR,NIC1
81	L2452909-13 wg1973795	2.500	2.500	2.500	0.4521	0.2573	0.103	-	09/23/2024 17:48	DJR,NIC1
82	L2452909-14 wg1973795	2.500	2.500	2.500	3.2068	3.2251	1.290	-	09/23/2024 17:51	DJR,NIC1
83	L2452909-15 wg1973795	2.500	2.500	2.500	0.2404	0.0293	0.012	-	09/23/2024 17:55	DJR,NIC1
84	WG1974930-1 WG1974930	2.500	2.500	2.500	0.2992	0.0926	0.037	-	09/23/2024 18:13	DJR,NIC1
85	WG1974930-2 WG1974930	2.500	2.500	2.500	2.4867	2.4493	0.980	-	09/23/2024 18:16	DJR,NIC1
86	L2453596-02 WG1974930	2.500	2.500	2.500	1.2395	1.1056	0.442	-	09/23/2024 18:20	DJR,NIC1
87	Check STD(5ug/L)	2.500	2.500	2.500	12.2942	13.0154	5.206	104.1	09/23/2024 18:23	DJR,NIC1
88	Check Blank	2.500	2.500	2.500	0.3103	0.1046	0.042	-	09/23/2024 18:26	DJR,NIC1
89	WG1974930-3 WG1974930	2.500	2.500	2.500	12.8263	13.5887	5.435	-	09/23/2024 18:33	DJR,NIC1
90	WG1974930-4 WG1974930	2.500	2.500	2.500	1.1893	1.0516	0.421	-	09/23/2024 18:36	DJR,NIC1
91	L2450558-21 WG1974930	2.500	2.500	2.500	0.8388	0.6739	0.270	-	09/23/2024 18:39	DJR,NIC1
92	L2450558-22 WG1974930	2.500	2.500	2.500	0.8980	0.7377	0.295	-	09/23/2024 18:43	DJR,NIC1
93	L2453596-01 WG1974930	2.500	2.500	2.500	0.3201	0.1151	0.046	-	09/23/2024 18:46	DJR,NIC1
94	X5 PPB	2.500	2.500	2.500	11.8726	12.5612	5.024	-	09/23/2024 20:07	DJR,NIC1
95	wg1974976-1 wg1974976	2.500	2.500	2.500	0.1757	-0.0405	-0.016	-	09/23/2024 20:26	DJR,NIC1
96	wg1974976-2 wg1974976	2.500	2.500	2.500	2.3399	2.2911	0.916	-	09/23/2024 20:29	DJR,NIC1
97	L2453183-02 wg1974976	2.500	2.500	2.500	1.1208	0.9778	0.391	-	09/23/2024 20:32	DJR,NIC1
98	wg1974976-3 wg1974976	2.500	2.500	2.500	12.5674	13.3097	5.324	-	09/23/2024 20:35	DJR,NIC1
99	Check STD(5ug/L)	2.500	2.500	2.500	12.3337	13.0580	5.223	104.5	09/23/2024 20:39	DJR,NIC1
100	Check Blank	2.500	2.500	2.500	0.2967	0.0899	0.036	-	09/23/2024 20:42	DJR,NIC1
101	wg1974976-4 wg1974976	2.500	2.500	2.500	1.3158	1.1878	0.475	-	09/23/2024 20:59	DJR,NIC1
102	XL2453183-01 wg1974976	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	09/23/2024 21:02	DJR,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	L2453183-03 wg1974976	2.500	2.500	2.500	0.9449	0.7882	0.315	-	09/23/2024 21:09	DJR,NIC1
104	L2453183-04 wg1974976	2.500	2.500	2.500	0.5808	0.3960	0.158	-	09/23/2024 21:12	DJR,NIC1
105	L2453183-05 wg1974976	2.500	2.500	2.500	0.5272	0.3382	0.135	-	09/23/2024 21:15	DJR,NIC1
106	L2453183-06 wg1974976	2.500	2.500	2.500	0.5591	0.3726	0.149	-	09/23/2024 21:19	DJR,NIC1
107	L2453183-07 wg1974976	2.500	2.500	2.500	0.5449	0.3573	0.143	-	09/23/2024 21:22	DJR,NIC1
108	L2453183-08 wg1974976	2.500	2.500	2.500	2.2381	2.1815	0.873	-	09/23/2024 21:25	DJR,NIC1
109	XL2453183-01D10 wg1974976	2.500	2.500	2.500	23.2531	24.8219	9.929	-	09/23/2024 21:36	DJR,NIC1
110	Check STD(5ug/L)	2.500	2.500	2.500	12.1136	12.8208	5.128	102.6	09/23/2024 21:39	DJR,NIC1
111	Check Blank	2.500	2.500	2.500	0.3016	0.0952	0.038	-	09/23/2024 21:43	DJR,NIC1
112	wg1974992-1 wg1974992	2.500	2.500	2.500	0.1599	-0.0575	-0.023	-	09/23/2024 21:46	DJR,NIC1
113	wg1974992-2 wg1974992	2.500	2.500	2.500	2.3629	2.3159	0.926	-	09/23/2024 21:49	DJR,NIC1
114	I2454397-01 wg1974992	2.500	2.500	2.500	0.2247	0.0123	0.005	-	09/23/2024 21:53	DJR,NIC1
115	wg1974992-3 wg1974992	2.500	2.500	2.500	11.0127	11.6348	4.654	-	09/23/2024 21:56	DJR,NIC1
116	wg1974992-4 wg1974992	2.500	2.500	2.500	0.1992	-0.0151	-0.006	-	09/23/2024 21:59	DJR,NIC1
117	I2454397-02 wg1974992	2.500	2.500	2.500	0.1792	-0.0367	-0.015	-	09/23/2024 22:02	DJR,NIC1
118	I2454397-03 wg1974992	2.500	2.500	2.500	0.5604	0.3740	0.150	-	09/23/2024 22:06	DJR,NIC1
119	I2454397-04 wg1974992	2.500	2.500	2.500	0.1695	-0.0471	-0.019	-	09/23/2024 22:09	DJR,NIC1
120	L2453183-01D25 wg1974976	2.500	2.500	2.500	9.5486	10.0574	4.023	-	09/23/2024 22:12	DJR,NIC1
121	Check STD(5ug/L)	2.500	2.500	2.500	11.9150	12.6069	5.043	100.9	09/23/2024 22:16	DJR,NIC1
122	Check Blank	2.500	2.500	2.500	0.3017	0.0953	0.038	-	09/23/2024 22:19	DJR,NIC1
123	Check STD(5ug/L)	2.500	2.500	2.500	11.7815	12.4630	4.985	99.7	09/23/2024 23:47	DJR,NIC1
124	Check Blank	2.500	2.500	2.500	0.2350	0.0234	0.009	-	09/23/2024 23:51	DJR,NIC1
125	WG1975050-1 WG1975050	2.500	2.500	2.500	0.1736	-0.0427	-0.017	-	09/23/2024 23:54	DJR,NIC1
126	WG1975050-2 WG1975050	2.500	2.500	2.500	2.3517	2.3039	0.922	-	09/23/2024 23:57	DJR,NIC1
127	L2453864-09 WG1975050	2.500	2.500	2.500	0.2586	0.0489	0.020	-	09/24/2024 00:01	DJR,NIC1
128	WG1975050-3 WG1975050	2.500	2.500	2.500	11.3281	11.9746	4.790	-	09/24/2024 00:04	DJR,NIC1
129	WG1975050-4 WG1975050	2.500	2.500	2.500	0.2997	0.0931	0.037	-	09/24/2024 00:07	DJR,NIC1
130	L2453864-10 WG1975050	2.500	2.500	2.500	0.2356	0.0241	0.010	-	09/24/2024 00:10	DJR,NIC1
131	Check STD(5ug/L)	2.500	2.500	2.500	12.1818	12.8943	5.158	103.2	09/24/2024 00:14	DJR,NIC1
132	Check Blank	2.500	2.500	2.500	0.2930	0.0859	0.034	-	09/24/2024 00:17	DJR,NIC1
133	Check STD(5ug/L)	2.500	2.500	2.500	12.1641	12.8752	5.150	103.0	09/24/2024 00:20	DJR,NIC1
134	Check Blank	2.500	2.500	2.500	0.2946	0.0876	0.035	-	09/24/2024 00:24	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

Title :
Date : 09/24/2024
Name :

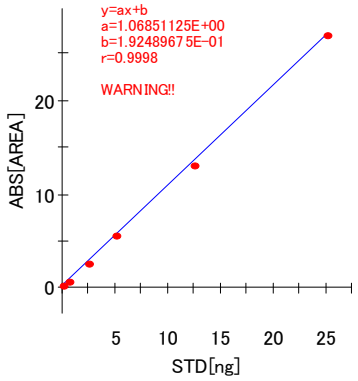
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.3770	0.1727	-	09/24/2024 06:29	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.7471	0.5190	3.8	09/24/2024 06:32	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.7029	2.3494	6.0	09/24/2024 07:07	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.6870	5.1422	2.8	09/24/2024 06:39	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	13.1864	12.1608	2.7	09/24/2024 06:42	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	27.0718	25.1559	0.6	09/24/2024 06:45	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.5119	7.7860	3.114	-	09/24/2024 07:13	JWN,NIC3
2	ICB	2.500	2.500	2.500	0.3879	0.1829	0.073	-	09/24/2024 07:16	JWN,NIC3
3	0.2PPB	2.500	2.500	2.500	0.7295	0.5026	0.201	-	09/24/2024 07:32	JWN,NIC3
4	WG1975009-1 WG1975009	2.500	2.500	2.500	0.1608	-0.0297	-0.012	-	09/24/2024 07:55	JWN,NIC3
5	XWG1975009-2 WG1975009	2.500	2.500	2.500	2.2430	1.9190	0.768	-	09/24/2024 07:59	JWN,NIC3
6	L2454324-02 WG1975009	2.500	2.500	2.500	0.1682	-0.0227	-0.009	-	09/24/2024 08:02	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1975009-3 WG1975009	2.500	2.500	2.500	22.1859	20.5832	8.233	-	09/24/2024 08:05	JWN,NIC3
8	WG1975009-4 WG1975009	2.500	2.500	2.500	0.2645	0.0674	0.027	-	09/24/2024 08:09	JWN,NIC3
9	L2453183-01 WG1975009	2.500	2.500	2.500	3.3888	2.9914	1.197	-	09/24/2024 08:12	JWN,NIC3
10	L2453183-02 WG1975009	2.500	2.500	2.500	0.3007	0.1013	0.041	-	09/24/2024 08:15	JWN,NIC3
11	L2453183-03 WG1975009	2.500	2.500	2.500	0.3131	0.1129	0.045	-	09/24/2024 08:18	JWN,NIC3
12	L2453183-04 WG1975009	2.500	2.500	2.500	0.2124	0.0186	0.007	-	09/24/2024 08:22	JWN,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.9917	11.9785	4.791	95.8	09/24/2024 08:25	JWN,NIC3
14	Check Blank	2.500	2.500	2.500	0.4261	0.2186	0.087	-	09/24/2024 08:28	JWN,NIC3
15	L2453183-05 WG1975009	2.500	2.500	2.500	0.1883	-0.0039	-0.002	-	09/24/2024 08:32	JWN,NIC3
16	L2453183-06 WG1975009	2.500	2.500	2.500	0.2167	0.0227	0.009	-	09/24/2024 08:35	JWN,NIC3
17	L2453183-07 WG1975009	2.500	2.500	2.500	0.2282	0.0334	0.013	-	09/24/2024 08:39	JWN,NIC3
18	L2453183-08 WG1975009	2.500	2.500	2.500	0.2102	0.0166	0.007	-	09/24/2024 08:42	JWN,NIC3
19	WG1975009-2 WG1975009	2.500	2.500	2.500	2.5255	2.1834	0.873	-	09/24/2024 08:55	JWN,NIC3
20	XWG1975009-3 WG1975009	2.500	2.500	2.500	22.7280	21.0906	8.436	-	09/24/2024 09:09	JWN,NIC3
21	PS 4324-02 WG1975009	2.500	2.500	2.500	12.3950	11.4201	4.568	-	09/24/2024 09:14	JWN,NIC3
22	WG1974402-1 WG1974402	2.500	2.500	2.500	0.1870	-0.0051	-0.002	-	09/24/2024 09:17	JWN,NIC3
23	WG1974402-2 WG1974402	2.500	2.500	2.500	2.5435	2.2003	0.880	-	09/24/2024 09:20	JWN,NIC3
24	L2453887-01 WG1974402	2.500	2.500	2.500	0.2409	0.0453	0.018	-	09/24/2024 09:24	JWN,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	12.7597	11.7614	4.705	94.1	09/24/2024 09:27	JWN,NIC3
26	Check Blank	2.500	2.500	2.500	0.4130	0.2064	0.083	-	09/24/2024 09:30	JWN,NIC3
27	WG1974402-3 WG1974402	2.500	2.500	2.500	11.7794	10.8440	4.338	-	09/24/2024 09:34	JWN,NIC3
28	WG1974402-4 WG1974402	2.500	2.500	2.500	0.2739	0.0762	0.030	-	09/24/2024 09:37	JWN,NIC3
29	L2453397-01 WG1974402	2.500	2.500	2.500	0.1896	-0.0027	-0.001	-	09/24/2024 10:05	JWN,NIC3
30	L2453989-09 WG1974402	2.500	2.500	2.500	0.1928	0.0003	0.000	-	09/24/2024 10:09	JWN,NIC3
31	L2453124-05 WG1974402	2.500	2.500	2.500	0.2201	0.0258	0.010	-	09/24/2024 10:12	JWN,NIC3
32	L2453129-01 WG1974402	2.500	2.500	2.500	0.2057	0.0124	0.005	-	09/24/2024 10:15	JWN,NIC3
33	xL2453129-06 WG1974402	2.500	2.500	2.500	52.8711	49.3009	19.720	-	09/24/2024 10:19	JWN,NIC3
34	L2453129-07 WG1974402	2.500	2.500	2.500	0.2053	0.0120	0.005	-	09/24/2024 10:22	JWN,NIC3
35	L2453429-06 WG1974402	2.500	2.500	2.500	0.2174	0.0233	0.009	-	09/24/2024 10:25	JWN,NIC3
36	L2453680-07 WG1974402	2.500	2.500	2.500	0.2158	0.0218	0.009	-	09/24/2024 10:29	JWN,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.8517	11.8475	4.739	94.8	09/24/2024 10:32	JWN,NIC3
38	Check Blank	2.500	2.500	2.500	0.4073	0.2010	0.080	-	09/24/2024 10:35	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2453729-08 WG1974402	2.500	2.500	2.500	0.1891	-0.0032	-0.001	-	09/24/2024 10:43	JWN,NIC3
40	L2453129-06d5 WG1974402	2.500	2.500	2.500	10.4336	9.5845	3.834	-	09/24/2024 11:27	JWN,NIC3
41	WG1975201-1 WG1975201	2.500	2.500	2.500	0.2393	0.0438	0.018	-	09/24/2024 11:31	JWN,NIC3
42	WG1975201-2 WG1975201	2.500	2.500	2.500	2.4730	2.1343	0.854	-	09/24/2024 11:35	JWN,NIC3
43	L2453342-01 WG1975201	2.500	2.500	2.500	0.3945	0.1891	0.076	-	09/24/2024 11:38	JWN,NIC3
44	WG1975201-3 WG1975201	2.500	2.500	2.500	11.6465	10.7196	4.288	-	09/24/2024 11:41	JWN,NIC3
45	WG1975201-4 WG1975201	2.500	2.500	2.500	0.2458	0.0499	0.020	-	09/24/2024 11:44	JWN,NIC3
46	L2453250-01 WG1975201	2.500	2.500	2.500	0.2539	0.0575	0.023	-	09/24/2024 11:48	JWN,NIC3
47	L2454223-01 WG1975201	2.500	2.500	2.500	0.3348	0.1332	0.053	-	09/24/2024 11:51	JWN,NIC3
48	L2453342-02 WG1975201	2.500	2.500	2.500	0.6054	0.3864	0.155	-	09/24/2024 11:54	JWN,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.8869	11.8805	4.752	95.0	09/24/2024 11:58	JWN,NIC3
50	Check Blank	2.500	2.500	2.500	0.4046	0.1985	0.079	-	09/24/2024 12:01	JWN,NIC3
51	WG1975201-5 WG1975201	2.500	2.500	2.500	11.8540	10.9138	4.366	-	09/24/2024 12:04	JWN,NIC3
52	WG1975201-6 WG1975201	2.500	2.500	2.500	0.6311	0.4105	0.164	-	09/24/2024 12:08	JWN,NIC3
53	L2451154-01 WG1975201	2.500	2.500	2.500	1.3205	1.0557	0.422	-	09/24/2024 12:11	JWN,NIC3
54	L2451154-02 WG1975201	2.500	2.500	2.500	0.3609	0.1576	0.063	-	09/24/2024 12:14	JWN,NIC3
55	L2451159-01 WG1975201	2.500	2.500	2.500	0.2811	0.0829	0.033	-	09/24/2024 12:17	JWN,NIC3
56	L2451159-02 WG1975201	2.500	2.500	2.500	0.2265	0.0318	0.013	-	09/24/2024 12:21	JWN,NIC3
57	L2453342-03 WG1975201	2.500	2.500	2.500	0.2107	0.0170	0.007	-	09/24/2024 12:24	JWN,NIC3
58	L2453342-04 WG1975201	2.500	2.500	2.500	0.2447	0.0489	0.020	-	09/24/2024 12:27	JWN,NIC3
59	L2453342-05 WG1975201	2.500	2.500	2.500	0.2569	0.0603	0.024	-	09/24/2024 12:31	JWN,NIC3
60	L2453342-06 WG1975201	2.500	2.500	2.500	0.2626	0.0656	0.026	-	09/24/2024 12:34	JWN,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.7738	11.7746	4.710	94.2	09/24/2024 12:37	JWN,NIC3
62	Check Blank	2.500	2.500	2.500	0.3949	0.1894	0.076	-	09/24/2024 12:41	JWN,NIC3
63	L2453342-07 WG1975201	2.500	2.500	2.500	0.2417	0.0461	0.018	-	09/24/2024 12:44	JWN,NIC3
64	L2453342-08 WG1975201	2.500	2.500	2.500	0.2045	0.0112	0.004	-	09/24/2024 12:47	JWN,NIC3
65	L2453342-10 WG1975201	2.500	2.500	2.500	0.2029	0.0097	0.004	-	09/24/2024 12:50	JWN,NIC3
66	Check STD(5ug/L)	2.500	2.500	2.500	12.5783	11.5917	4.637	92.7	09/24/2024 13:04	JWN,NIC3
67	Check Blank	2.500	2.500	2.500	0.2065	0.0131	0.005	-	09/24/2024 13:08	JWN,NIC3

Title :
Date : 9/24/2024
Name :

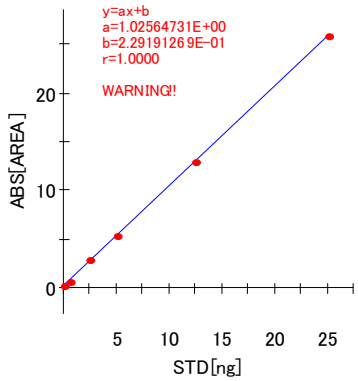
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2127	-0.0161	-	09/24/2024 10:31	MJR,NIC2
2	0.200	2.500	2.500	2.500	0.500	0.7486	0.5064	1.3	09/24/2024 10:34	MJR,NIC2
3	1.000	2.500	2.500	2.500	2.500	2.9065	2.6104	4.4	09/24/2024 10:37	MJR,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.3135	4.9572	0.9	09/24/2024 10:41	MJR,NIC2
5	5.000	2.500	2.500	2.500	12.500	12.9364	12.3895	0.9	09/24/2024 10:44	MJR,NIC2
6	10.000	2.500	2.500	2.500	25.000	25.9244	25.0527	0.2	09/24/2024 10:47	MJR,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.5478	7.1356	2.854	-	09/24/2024 10:51	MJR,NIC2
2	ICB	2.500	2.500	2.500	0.2176	-0.0113	-0.005	-	09/24/2024 10:54	MJR,NIC2
3	0.2 PPB	2.500	2.500	2.500	0.7587	0.5163	0.207	-	09/24/2024 10:57	MJR,NIC2
4	WG1975123-1 WG1975123	2.500	2.500	2.500	0.2791	0.0487	0.019	-	09/24/2024 11:03	MJR,NIC2
5	WG1975123-2 WG1975123	2.500	2.500	2.500	2.8752	2.5798	1.032	-	09/24/2024 11:06	MJR,NIC2
6	L2453204-01 WG1975123	2.500	2.500	2.500	1.8196	1.5506	0.620	-	09/24/2024 11:10	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1975123-3 WG1975123	2.500	2.500	2.500	15.1216	14.5200	5.808	-	09/24/2024 11:13	MJR,NIC2
8	WG1975123-4 WG1975123	2.500	2.500	2.500	1.9044	1.6333	0.653	-	09/24/2024 11:16	MJR,NIC2
9	L2453204-02 WG1975123	2.500	2.500	2.500	0.6687	0.4285	0.171	-	09/24/2024 11:20	MJR,NIC2
10	L2453204-03 WG1975123	2.500	2.500	2.500	0.6625	0.4225	0.169	-	09/24/2024 11:23	MJR,NIC2
11	L2453209-01 WG1975123	2.500	2.500	2.500	0.7670	0.5244	0.210	-	09/24/2024 11:26	MJR,NIC2
12	L2453209-03 WG1975123	2.500	2.500	2.500	0.9128	0.6665	0.267	-	09/24/2024 11:30	MJR,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	13.0219	12.4728	4.989	99.8	09/24/2024 11:33	MJR,NIC2
14	Check Blank	2.500	2.500	2.500	0.2767	0.0463	0.019	-	09/24/2024 11:36	MJR,NIC2
15	L2453144-01 WG1975123	2.500	2.500	2.500	1.3412	1.0842	0.434	-	09/24/2024 11:40	MJR,NIC2
16	L2453211-02 WG1975123	2.500	2.500	2.500	1.0050	0.7564	0.303	-	09/24/2024 11:43	MJR,NIC2
17	I2453238-01 WG1975123	2.500	2.500	2.500	1.3421	1.0851	0.434	-	09/24/2024 11:46	MJR,NIC2
18	I2453305-01 WG1975123	2.500	2.500	2.500	0.6983	0.4574	0.183	-	09/24/2024 11:50	MJR,NIC2
19	I2453305-02 WG1975123	2.500	2.500	2.500	0.6261	0.3870	0.155	-	09/24/2024 11:53	MJR,NIC2
20	I2453305-03 WG1975123	2.500	2.500	2.500	0.6573	0.4174	0.167	-	09/24/2024 11:56	MJR,NIC2
21	I2453566-01 WG1975123	2.500	2.500	2.500	0.6324	0.3931	0.157	-	09/24/2024 12:00	MJR,NIC2
22	I2453721-02 WG1975123	2.500	2.500	2.500	0.6050	0.3664	0.147	-	09/24/2024 12:03	MJR,NIC2
23	I2453721-03 WG1975123	2.500	2.500	2.500	0.6224	0.3834	0.153	-	09/24/2024 12:06	MJR,NIC2
24	WG1975116-1 WG1975116	2.500	2.500	2.500	0.3970	0.1636	0.065	-	09/24/2024 12:18	MJR,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	12.9397	12.3927	4.957	99.1	09/24/2024 12:22	MJR,NIC2
26	Check Blank	2.500	2.500	2.500	0.2785	0.0481	0.019	-	09/24/2024 12:25	MJR,NIC2
27	WG1975116-2 WG1975116	2.500	2.500	2.500	2.8047	2.5111	1.004	-	09/24/2024 12:28	MJR,NIC2
28	I2454256-01 WG1975116	2.500	2.500	2.500	0.5635	0.3259	0.130	-	09/24/2024 12:31	MJR,NIC2
29	WG1975116-3 WG1975116	2.500	2.500	2.500	12.4878	11.9521	4.781	-	09/24/2024 12:35	MJR,NIC2
30	WG1975116-4 WG1975116	2.500	2.500	2.500	0.5175	0.2811	0.112	-	09/24/2024 12:38	MJR,NIC2
31	I2454257-01 WG1975116	2.500	2.500	2.500	0.3937	0.1604	0.064	-	09/24/2024 12:41	MJR,NIC2
32	WG1975270-1 WG1975270	2.500	2.500	2.500	0.4599	0.2249	0.090	-	09/24/2024 12:45	MJR,NIC2
33	WG1975270-2 WG1975270	2.500	2.500	2.500	2.7973	2.5039	1.002	-	09/24/2024 12:48	MJR,NIC2
34	L2453720-02 WG1975270	2.500	2.500	2.500	0.8117	0.5679	0.227	-	09/24/2024 12:51	MJR,NIC2
35	WG1975270-3 WG1975270	2.500	2.500	2.500	12.0041	11.4805	4.592	-	09/24/2024 12:55	MJR,NIC2
36	WG1975270-4 WG1975270	2.500	2.500	2.500	11.3326	10.8258	4.330	-	09/24/2024 12:58	MJR,NIC2
37	Check STD(5ug/L)	2.500	2.500	2.500	13.0319	12.4826	4.993	99.9	09/24/2024 13:01	MJR,NIC2
38	Check Blank	2.500	2.500	2.500	0.2771	0.0467	0.019	-	09/24/2024 13:05	MJR,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2454223-01 WG1975270	2.500	2.500	2.500	0.4368	0.2024	0.081	-	09/24/2024 13:09	MJR,NIC2
40	L2453313-01 WG1975270	2.500	2.500	2.500	1.6167	1.3528	0.541	-	09/24/2024 13:13	MJR,NIC2
41	WG1975151-1 WG1975151	2.500	2.500	2.500	0.4275	0.1933	0.077	-	09/24/2024 13:16	MJR,NIC2
42	WG1975151-2 WG1975151	2.500	2.500	2.500	2.8103	2.5166	1.007	-	09/24/2024 13:19	MJR,NIC2
43	L2453874-02 WG1975151	2.500	2.500	2.500	0.6507	0.4110	0.164	-	09/24/2024 13:23	MJR,NIC2
44	WG1975151-3 WG1975151	2.500	2.500	2.500	12.2683	11.7381	4.695	-	09/24/2024 13:26	MJR,NIC2
45	WG1975151-4 WG1975151	2.500	2.500	2.500	0.6042	0.3656	0.146	-	09/24/2024 13:29	MJR,NIC2
46	WG1975500-1 WG1975500	2.500	2.500	2.500	0.4337	0.1994	0.080	-	09/24/2024 13:32	DJR,NIC2
47	WG1975500-2 WG1975500	2.500	2.500	2.500	2.7688	2.4761	0.990	-	09/24/2024 13:36	DJR,NIC2
48	I2409778-150 WG1975500	2.500	2.500	2.500	0.2987	0.0678	0.027	-	09/24/2024 13:39	DJR,NIC2
49	Check STD(5ug/L)	2.500	2.500	2.500	13.0388	12.4893	4.996	99.9	09/24/2024 13:42	DJR,NIC2
50	Check Blank	2.500	2.500	2.500	0.2759	0.0455	0.018	-	09/24/2024 13:46	DJR,NIC2
51	WG1975500-3 WG1975500	2.500	2.500	2.500	11.6868	11.1711	4.468	-	09/24/2024 13:59	DJR,NIC2
52	WG1975500-4 WG1975500	2.500	2.500	2.500	0.3985	0.1651	0.066	-	09/24/2024 14:02	DJR,NIC2
53	I2453167-01 WG1975500	2.500	2.500	2.500	0.3691	0.1364	0.055	-	09/24/2024 14:05	DJR,NIC2
54	I2453547-01 WG1975164	2.500	2.500	2.500	0.4104	0.1767	0.071	-	09/24/2024 14:09	MJR,NIC2
55	I2453547-02 WG1975164	2.500	2.500	2.500	0.3722	0.1394	0.056	-	09/24/2024 14:12	MJR,NIC2
56	L2453342-06 WG1975270	2.500	2.500	2.500	0.2257	-0.0034	-0.001	-	09/24/2024 14:15	MJR,NIC2
57	L2453250-01 WG1974310	2.500	2.500	2.500	0.2193	-0.0096	-0.004	-	09/24/2024 14:19	MJR,NIC2
58	L2453317-01 WG1974310	2.500	2.500	2.500	0.1303	-0.0964	-0.039	-	09/24/2024 14:22	MJR,NIC2
59	L2453320-01 WG1974310	2.500	2.500	2.500	0.1506	-0.0766	-0.031	-	09/24/2024 14:25	MJR,NIC2
60	L2453433-01 WG1974310	2.500	2.500	2.500	0.5690	0.3313	0.133	-	09/24/2024 14:29	MJR,NIC2
61	Check STD(5ug/L)	2.500	2.500	2.500	13.0327	12.4833	4.993	99.9	09/24/2024 14:32	MJR,NIC2
62	Check Blank	2.500	2.500	2.500	0.2709	0.0407	0.016	-	09/24/2024 14:35	MJR,NIC2
63	L2453342-05 WG1973832	2.500	2.500	2.500	0.1831	-0.0449	-0.018	-	09/24/2024 15:16	MJR,NIC2
64	WG1973832-5 WG1973832	2.500	2.500	2.500	12.1209	11.5943	4.638	-	09/24/2024 15:20	MJR,NIC2
65	WG1973832-6 WG1973832	2.500	2.500	2.500	11.8745	11.3541	4.542	-	09/24/2024 15:23	MJR,NIC2
66	L2453342-01 WG1973832	2.500	2.500	2.500	0.1770	-0.0509	-0.020	-	09/24/2024 15:26	MJR,NIC2
67	L2453342-02 WG1973832	2.500	2.500	2.500	2.4262	2.1421	0.857	-	09/24/2024 15:29	MJR,NIC2
68	L2453342-03 WG1973832	2.500	2.500	2.500	0.1707	-0.0570	-0.023	-	09/24/2024 15:33	MJR,NIC2
69	L2453342-04 WG1973832	2.500	2.500	2.500	0.1635	-0.0640	-0.026	-	09/24/2024 15:36	MJR,NIC2
70	L2453342-07 WG1973832	2.500	2.500	2.500	0.1575	-0.0699	-0.028	-	09/24/2024 15:39	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2453342-08 WG1973832	2.500	2.500	2.500	0.1640	-0.0636	-0.025	-	09/24/2024 15:43	MJR,NIC2
72	L2453342-10 WG1973832	2.500	2.500	2.500	0.1567	-0.0707	-0.028	-	09/24/2024 15:46	MJR,NIC2
73	Check STD(5ug/L)	2.500	2.500	2.500	13.0550	12.5051	5.002	100.0	09/24/2024 15:49	MJR,NIC2
74	Check Blank	2.500	2.500	2.500	0.2733	0.0430	0.017	-	09/24/2024 15:53	MJR,NIC2

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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ERA
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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

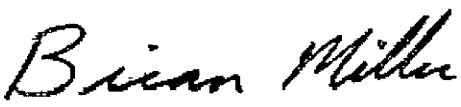
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	CURVE: WG1972915
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	0.2 PPB	
4	10	l2453052-01 WG1973876	
5	11	l2453052-02 WG1973876	
6	12	l2453052-03 WG1973876	
7	13	l2453062-01 WG1973876	
8	14	l2453062-02 WG1973876	
9	15	l2453062-03 WG1973876	
10	16	l2453062-04 WG1973876	
11	17	l2453062-05 WG1973876	
12	18	l2453070-06 WG1973876	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2453002-01 WG1973434	
16	22	L2453002-03 WG1973434	
17	23	L2453051-01 WG1973434	
18	24	L2453051-02 WG1973434	
19	25	WG1973832-1 WG1973832	
20	26	WG1973832-2 WG1973832	
21	27	L2453053-01 WG1973832	
22	28	WG1973832-3 WG1973832	
23	29	WG1973832-4 WG1973832	
24	30	L2452763-02 WG1973832	
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	L2453053-02 WG1973832	
28	34	L2453053-03 WG1973832	
29	35	L2453053-04 WG1973832	
30	36	L2453053-05 WG1973832	
31	37	XHG2438210337FAC	
32	38	wg1974310-1 wg1974310	
33	39	wg1974310-2 wg1974310	
34	40	l2453011-01 wg1974310	
35	41	wg1974310-3 wg1974310	
36	42	wg1974310-4 wg1974310	
37	43	xCheck STD(5ug/L)	

38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	l2453011-02 wg1974310
41	46	wg1974310-5 wg1974310
42	47	wg1974310-6 wg1974310
43	48	l2453011-03 wg1974310
44	49	l2453011-04 wg1974310
45	50	l2453063-01 wg1974310
46	51	WG1974261-1 WG1974261
47	52	WG1974261-2 WG1974261
48	53	WG1974261-3 WG1974261
49	54	L2452952-01 WG1974261
50	55	xCheck STD(5ug/L)
51	55	Check STD(5ug/L)
52	56	Check Blank
53	57	WG1974296-1 WG1974296
54	58	WG1974296-2 WG1974296
55	59	WG1974296-3 WG1974296
56	60	L2452976-03 WG1974296
57	61	Check STD(5ug/L)
58	62	Check Blank
59	63	wg1973795-1 wg1973795
60	64	wg1973795-2 wg1973795
61	65	L2452909-10 wg1973795
62	66	wg1973795-3 wg1973795
63	67	Check STD(5ug/L)
64	68	Check Blank
65	69	wg1973795-4 wg1973795
66	70	L2452619-12 wg1973795
67	71	wg1973795-5 wg1973795
68	72	wg1973795-6 wg1973795
69	73	L2452619-11 wg1973795
70	74	L2452909-01 wg1973795
71	75	L2452909-02 wg1973795
72	76	L2452909-03 wg1973795
73	77	L2452909-04 wg1973795
74	78	L2452909-06 wg1973795
75	79	Check STD(5ug/L)
76	80	Check Blank
77	1	L2452909-07 wg1973795
78	2	L2452909-08 wg1973795
79	3	L2452909-11 wg1973795
80	4	L2452909-12 wg1973795
81	5	L2452909-13 wg1973795

82	6	L2452909-14 wg1973795
83	7	L2452909-15 wg1973795
84	8	WG1974930-1 WG1974930
85	9	WG1974930-2 WG1974930
86	10	L2453596-02 WG1974930
87	11	Check STD(5ug/L)
88	12	Check Blank
89	13	WG1974930-3 WG1974930
90	14	WG1974930-4 WG1974930
91	15	L2450558-21 WG1974930
92	16	L2450558-22 WG1974930
93	17	L2453596-01 WG1974930
94	18	X5 PPB
95	19	wg1974976-1 wg1974976
96	20	wg1974976-2 wg1974976
97	21	L2453183-02 wg1974976
98	22	wg1974976-3 wg1974976
99	23	Check STD(5ug/L)
100	24	Check Blank
101	25	wg1974976-4 wg1974976
102	26	XL2453183-01 wg1974976
103	27	L2453183-03 wg1974976
104	28	L2453183-04 wg1974976
105	29	L2453183-05 wg1974976
106	30	L2453183-06 wg1974976
107	31	L2453183-07 wg1974976
108	32	L2453183-08 wg1974976
109	33	XL2453183-01D10 wg1974976
110	35	Check STD(5ug/L)
111	36	Check Blank
112	37	wg1974992-1 wg1974992
113	38	wg1974992-2 wg1974992
114	39	l2454397-01 wg1974992
115	40	wg1974992-3 wg1974992
116	41	wg1974992-4 wg1974992
117	42	l2454397-02 wg1974992
118	43	l2454397-03 wg1974992
119	44	l2454397-04 wg1974992
120	45	L2453183-01D25 wg1974976
121	47	Check STD(5ug/L)
122	48	Check Blank
123	49	Check STD(5ug/L)
124	50	Check Blank
125	51	WG1975050-1 WG1975050

126	52	WG1975050-2 WG1975050
127	53	L2453864-09 WG1975050
128	54	WG1975050-3 WG1975050
129	55	WG1975050-4 WG1975050
130	56	L2453864-10 WG1975050
131	57	Check STD(5ug/L)
132	58	Check Blank
133	59	Check STD(5ug/L)
134	60	Check Blank

No.	Sample No.	NAME	Curve: WG1973972
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	0.2PPB	
4	10	WG1975009-1	WG1975009
5	11	XWG1975009-2	WG1975009
6	12	L2454324-02	WG1975009
7	13	WG1975009-3	WG1975009
8	14	WG1975009-4	WG1975009
9	15	L2453183-01	WG1975009
10	16	L2453183-02	WG1975009
11	17	L2453183-03	WG1975009
12	18	L2453183-04	WG1975009
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2453183-05	WG1975009
16	22	L2453183-06	WG1975009
17	23	L2453183-07	WG1975009
18	24	L2453183-08	WG1975009
19	25	WG1975009-2	WG1975009
20	26	XWG1975009-3	WG1975009
21	27	PS 4324-02	WG1975009
22	28	WG1974402-1	WG1974402
23	29	WG1974402-2	WG1974402
24	30	L2453887-01	WG1974402
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	WG1974402-3	WG1974402
28	34	WG1974402-4	WG1974402
29	35	L2453397-01	WG1974402
30	36	L2453989-09	WG1974402
31	37	L2453124-05	WG1974402
32	38	L2453129-01	WG1974402
33	39	xL2453129-06	WG1974402
34	40	L2453129-07	WG1974402
35	41	L2453429-06	WG1974402
36	42	L2453680-07	WG1974402
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2453729-08 WG1974402
40	46	L2453129-06d5 WG1974402
41	47	WG1975201-1 WG1975201
42	48	WG1975201-2 WG1975201
43	49	L2453342-01 WG1975201
44	50	WG1975201-3 WG1975201
45	51	WG1975201-4 WG1975201
46	52	L2453250-01 WG1975201
47	53	L2454223-01 WG1975201
48	54	L2453342-02 WG1975201
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1975201-5 WG1975201
52	58	WG1975201-6 WG1975201
53	59	L2451154-01 WG1975201
54	60	L2451154-02 WG1975201
55	61	L2451159-01 WG1975201
56	62	L2451159-02 WG1975201
57	63	L2453342-03 WG1975201
58	64	L2453342-04 WG1975201
59	65	L2453342-05 WG1975201
60	66	L2453342-06 WG1975201
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2453342-07 WG1975201
64	70	L2453342-08 WG1975201
65	71	L2453342-10 WG1975201
66	72	Check STD(5ug/L)
67	73	Check Blank

No.	Sample No.	NAME	CURVE: WG1973972
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	0.2 PPB	
4	10	WG1975123-1	WG1975123
5	11	WG1975123-2	WG1975123
6	12	L2453204-01	WG1975123
7	13	WG1975123-3	WG1975123
8	14	WG1975123-4	WG1975123
9	15	L2453204-02	WG1975123
10	16	L2453204-03	WG1975123
11	17	L2453209-01	WG1975123
12	18	L2453209-03	WG1975123
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2453144-01	WG1975123
16	22	L2453211-02	WG1975123
17	23	l2453238-01	WG1975123
18	24	l2453305-01	WG1975123
19	25	l2453305-02	WG1975123
20	26	l2453305-03	WG1975123
21	27	l2453566-01	WG1975123
22	28	l2453721-02	WG1975123
23	29	l2453721-03	WG1975123
24	30	WG1975116-1	WG1975116
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	WG1975116-2	WG1975116
28	34	l2454256-01	WG1975116
29	35	WG1975116-3	WG1975116
30	36	WG1975116-4	WG1975116
31	37	l2454257-01	WG1975116
32	38	WG1975270-1	WG1975270
33	39	WG1975270-2	WG1975270
34	40	L2453720-02	WG1975270
35	41	WG1975270-3	WG1975270
36	42	WG1975270-4	WG1975270
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2454223-01 WG1975270
40	46	L2453313-01 WG1975270
41	47	WG1975151-1 WG1975151
42	48	WG1975151-2 WG1975151
43	49	L2453874-02 WG1975151
44	50	WG1975151-3 WG1975151
45	51	WG1975151-4 WG1975151
46	52	WG1975500-1 WG1975500
47	53	WG1975500-2 WG1975500
48	54	l2409778-150 WG1975500
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1975500-3 WG1975500
52	58	WG1975500-4 WG1975500
53	59	l2453167-01 WG1975500
54	60	l2453547-01 WG1975164
55	61	l2453547-02 WG1975164
56	62	L2453342-06 WG1975270
57	63	L2453250-01 WG1974310
58	64	L2453317-01 WG1974310
59	65	L2453320-01 WG1974310
60	66	L2453433-01 WG1974310
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2453342-05 WG1973832
64	70	WG1973832-5 WG1973832
65	71	WG1973832-6 WG1973832
66	72	L2453342-01 WG1973832
67	73	L2453342-02 WG1973832
68	74	L2453342-03 WG1973832
69	75	L2453342-04 WG1973832
70	76	L2453342-07 WG1973832
71	77	L2453342-08 WG1973832
72	78	L2453342-10 WG1973832
73	79	Check STD(5ug/L)
74	80	Check Blank

METALS ELN REPORT

Workgroup: WG1975270

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG2438170807AJTV1HG2438170807AJTV1	METSPIKE	HG2438170832007AJTV1	348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2438191900CLH
	NaCl-NH2OH.HCl	HH2438191515MJR
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452544-01 SAMP	09/23/24 22:31	Maisie Mcqueen	2.5		09/23/24 22:31	8	95.9	09/24/24 00:31	25	10X DILUTION KMNO4
L2452544-02 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2452544-03 SAMP	09/23/24 22:31	Maisie Mcqueen	12.5		09/23/24 22:31	8	95.9	09/24/24 00:31	25	2X DILUTION KMNO4
L2452544-04 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453313-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453342-06 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453672-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-02 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-03 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-04 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	

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METALS ELN REPORT

Workgroup: WG1975270

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453720-06 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-07 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-08 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-09 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2454223-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-1 BLANK	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	ELN:cme
WG1975270-2 LCS	09/23/24 22:31	Maisie Mcqueen	25	0.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	ELN: ADG
WG1975270-3 MS	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-4 MSD	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-5 MS	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-6 DUP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	

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METALS ELN REPORT

Workgroup: WG1975270

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

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METALS ELN REPORT

Workgroup: WG1973832

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 344

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2438191900CLH
	NaCl-NH2OH.HCl	HH2438191515MJR
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452763-02 WATER	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453053-01 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453053-02 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453053-03 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453053-04 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453053-05 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-01 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-02 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-03 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-04 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-05 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-07 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	

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METALS ELN REPORT

Workgroup: WG1973832

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453342-08 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
L2453342-10 SAMP	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
WG1973832-1 BLANK	09/20/24 08:50	Alexander Gonatas	25		09/20/24 08:50	5	95.0	09/20/24 10:50	25	
WG1973832-2 LCS	09/20/24 08:50	Alexander Gonatas	25	0.25	09/20/24 08:50	5	95.0	09/20/24 10:50	25	ELN: NRS
WG1973832-3 MS	09/20/24 11:58	Alexander Gonatas	25	1.25	09/20/24 11:58	5	95.0	09/20/24 10:50	25	
WG1973832-4 MSD	09/20/24 11:58	Alexander Gonatas	25	1.25	09/20/24 11:58	5	95.0	09/20/24 10:50	25	
WG1973832-5 MS	09/20/24 08:50	Alexander Gonatas	25	1.25	09/20/24 08:50	5	95.0	09/20/24 10:50	25	
WG1973832-6 MSD	09/20/24 08:50	Alexander Gonatas	25	1.25	09/20/24 08:50	5	95.0	09/20/24 10:50	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

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METALS ELN REPORT

Workgroup: WG1975201

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2438191900CLH
	NaCl-NH2OH.HCl	HH2438191515MJR
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2451154-01 SAMP	09/23/24 22:31	Maisie Mcqueen	09-07-24 04:51	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2451154-02 SAMP	09/23/24 22:31	Maisie Mcqueen	09-07-24 04:51	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2451159-01 SAMP	09/23/24 22:31	Maisie Mcqueen	09-07-24 04:50	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2451159-02 SAMP	09/23/24 22:31	Maisie Mcqueen	09-07-24 04:51	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453250-01 SAMP	09/23/24 22:31	Maisie Mcqueen	09-19-24 11:22	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-01 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-02 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-03 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-04 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-05 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-06 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-07 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	

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METALS ELN REPORT

Workgroup: WG1975201

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453342-08 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2453342-10 SAMP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
L2454223-01 SAMP	09/23/24 22:31	Maisie Mcqueen	09-20-24 18:36	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
WG1975201-1 BLANK	09/23/24 22:31	Maisie Mcqueen	09/07/24 04:51	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	ELN:cme
WG1975201-2 LCS	09/23/24 22:31	Maisie Mcqueen	NA	25	0.25	09/23/24 22:31	5	94.3	09/24/24 00:31	25	
WG1975201-3 MS	09/23/24 22:31	Maisie Mcqueen	NA	25	1.25	09/23/24 22:31	5	94.3	09/24/24 00:31	25	
WG1975201-4 DUP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	
WG1975201-5 MS	09/23/24 22:31	Maisie Mcqueen	NA	25	1.25	09/23/24 22:31	5	94.3	09/24/24 00:31	25	
WG1975201-6 DUP	09/23/24 22:31	Maisie Mcqueen	NA	25		09/23/24 22:31	5	94.3	09/24/24 00:31	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 24-SEP-24 04:48 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.51	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.84	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.5	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-04	**Date Collected**	:	09/17/24 08:23
Client ID	:	MW-13S	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 17:25
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG1975752.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	4.2	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.9	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.90	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 17:25
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1975752.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 9/24/2024 17:25
Technician: MRM
Work group: WG1975752
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2452659-01	33.9	0	10.0	33.9
SAMP	L2452659-02	1.56	6.9	1.0	8.46
SAMP	L2452661-01	34.3	0	10.0	34.3
SAMP	L2452661-02	5.92	6.5	1.0	12.42
SAMP	L2453342-01	0	0.51	1.0	0.51
SAMP	L2453342-02	0.128	0.84	1.0	0.84
SAMP	L2453342-03	0	2.5	1.0	2.5
SAMP	L2453342-04	0	4.2	1.0	4.2
SAMP	L2453342-05	0.092	0	1.0	0
SAMP	L2453342-06	0	0.24	1.0	0.24
SAMP	L2453342-07	0.0868	1.9	1.0	1.9
SAMP	L2453342-08	0.102	0.9	1.0	0.9
SAMP	L2453342-10	0.219	0	1.0	0.219

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 15:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.128	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 15:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.092	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.086	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.102	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:42
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.219	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974257-1	**Date Collected**	: NA
Client ID	: WG1974257-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 15:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974257-3	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10SDUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/23/24 16:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.356	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-1	**Date Collected**	: NA
Client ID	: WG1975410-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 16:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.109	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1975410-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.243	0.300	0.066	J

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Original Run Filename: OM_9-23-2024_11-59-17AM.OMN Created: 9/23/2024 11:59:17 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_11-59-17AM.OMN Last Modified: 9/23/2024 12:38:47 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.36685			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.01300			
	Known Conc:		100.00000			
CCB	1	S10	0.02654			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	8.14072			
LO ICV 1.0	1	2	1.04171			
ICB	1	3	0.00975			
WG1974167-1 T	1	4	0.01138		1.00	
WG1974167-2 T	1	5	37.34071		15.00	
LCS LO	1	6	4.15372		3.00	
L2452663-01 T	1	7	1016.10706		30.00	
L2452665-01 T	1	8	47.71375		6.00	
L2452665-02 T	1	9	1.24331		3.00	
L2452666-01 T	1	10	15.26053		3.00	
CCV 0.4000	1	S6	0.58433			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09477			
	Known Conc:		100.00000			
CCB	1	S10	0.05274			
	Known Conc:		100.00000			
L2452666-02 T	1	11	9.30784		3.00	
L2452734-01 T	1	12	1.06834		3.00	
L2452743-01 T	1	13	0.40023		3.00	
L2452743-02 T	1	14	0.62088		3.00	
L2452743-03 T	1	15	0.41046		3.00	
L2452743-04 T	1	16	0.35988		3.00	
L2452829-01 T	1	17	692.58820		30.00	

CCV failed

Cal only

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

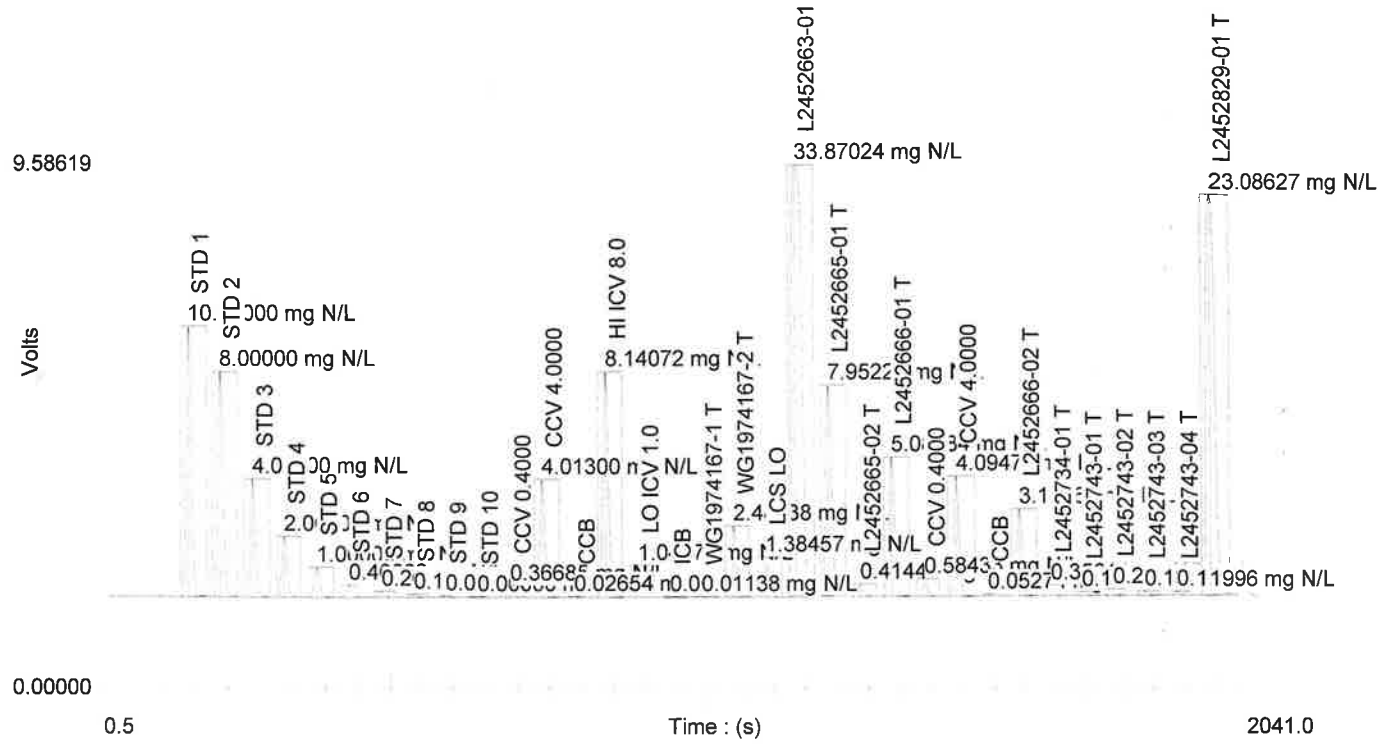
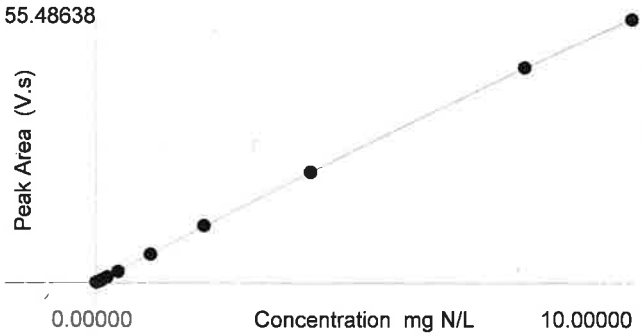


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Original Run Filename: OM_9-23-2024_12-45-09PM.OMN Created: 9/23/2024 12:45:09 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_12-45-09PM.OMN Last Modified: 9/23/2024 1:22:11 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38058			93%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01619			100%
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			✓
CCB	1	S10	0.03360			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	8.04196			101%
LO ICV 1.0	1	2	1.03379			103%
ICB	1	3	0.01642			
WG1974167-1 T	1	4	0.01597		1.00	
WG1974167-2 T	1	5	36.75468		15.00	92%
LCS LO	1	6	4.11734		3.00	103%
L2452663-01 T; 20X	1	7	3475.26196		600.00	
L2452665-01 T	1	8	42.60271		6.00	
L2452666-01 T	1	9	15.49785		3.00	
L2452665-02 T	1	10	0.72484		3.00	
CCV 0.4000	1	S6	0.40337			101%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03605			101%
	Known Conc:		100.00000			
CCB	1	S10	0.03552			✓
	Known Conc:		100.00000			
L2452666-02 T	1	11	9.16154		3.00	
L2452734-01 T	1	12	1.02576		3.00	
L2452743-01 T	1	13	0.37604		3.00	
L2452743-02 T	1	14	0.60869		3.00	
L2452743-03 T	1	15	0.38819		3.00	
L2452743-04 T	1	16	0.35290		3.00	
L2452829-01 T; 20X	1	17	925.65399		600.00	
L2452961-01 T	1	18	1.94394		3.00	
L2452962-01 T	1	19	1.50293		3.00	
L2453063-01 T	1	20	0.08629		3.00	
CCV 0.4000	1	S6	0.38328			95%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10197			103%
	Known Conc:		100.00000			
CCB	1	S10	0.03177			✓
	Known Conc:		100.00000			
WG1974167-4 T	1	21	8.41055		3.00	
WG1974167-3 T	1	22	0.39069		3.00	
L2453250-01 T	1	23	12.54752		3.00	
CCV 0.4000	1	S6	0.39923			100%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08749			102%
	Known Conc:		100.00000			
CCB	1	S10	0.03694			✓
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

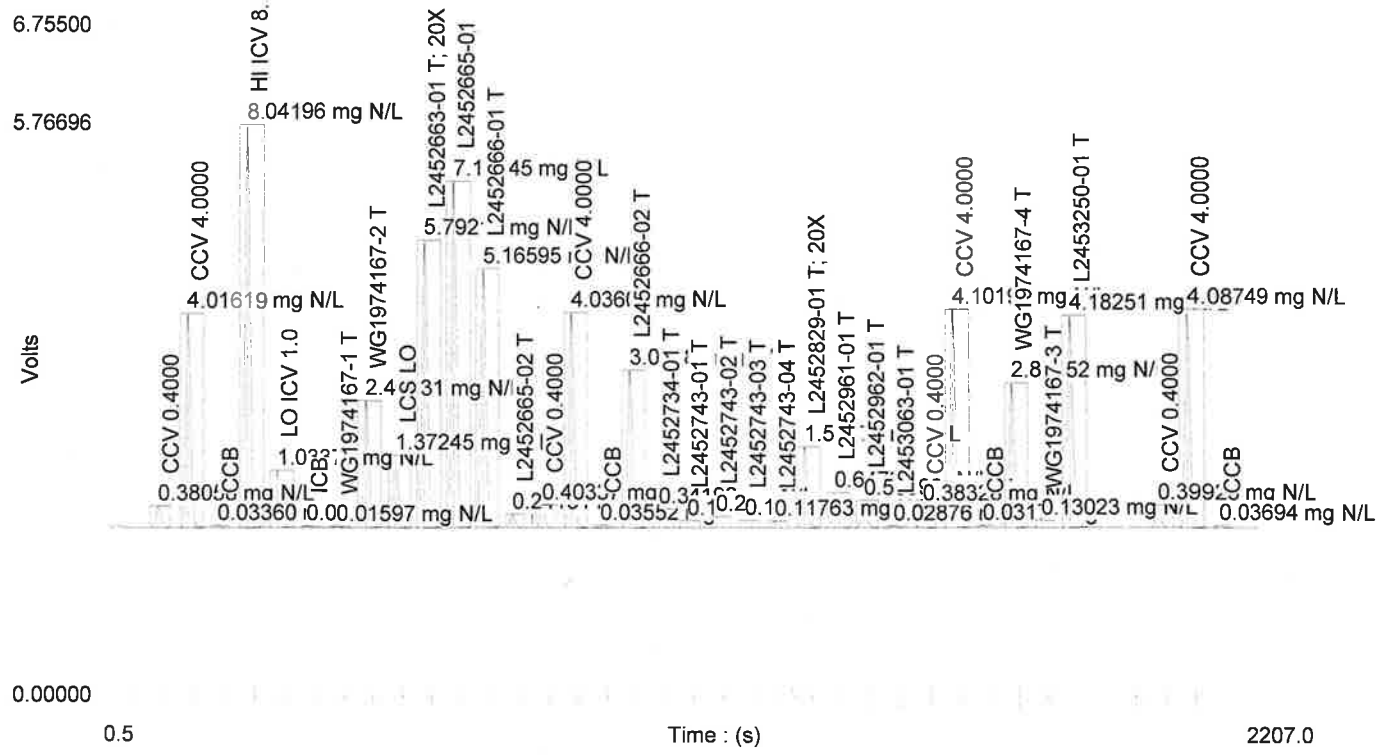
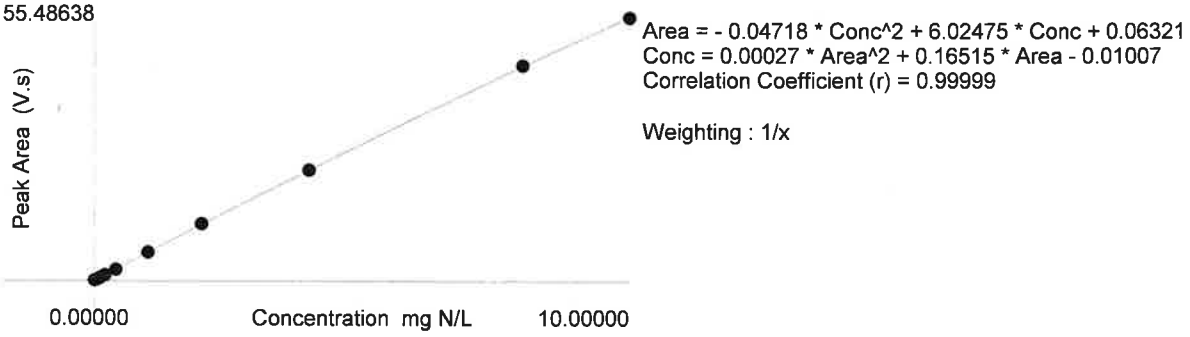


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Original Run Filename: OM_9-23-2024_03-22-25PM.OMN Created: 9/23/2024 3:22:25 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_03-22-25PM.OMN Last Modified: 9/23/2024 3:40:06 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.36225			98 ✓
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.96084			99%
	Known Conc:		100.00000			✓
CCB	1	S10	0.02398			
	Known Conc:		100.00000			
WG1974257-1 T	1	1	0.01768		1.00	
WG1974257-2 T	1	2	38.25994		15.00	96%
LCS LO	1	3	3.89793		3.00	97%
L2451391-23 T	1	4	0.47628		3.00	
L2451391-24 T	1	5	1.04170		3.00	
L2451391-25 T	1	6	0.22284		3.00	
L2451391-26 T	1	7	0.69141		6.00	
L2453342-01 T	1	8	0.02830		3.00	
L2453342-02 T	1	9	0.12773		3.00	
L2453342-03 T	1	10	0.02139		3.00	
CCV 0.4000	1	S6	0.37698			94%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03071			101%
	Known Conc:		100.00000			
CCB	1	S10	0.03500			✓
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

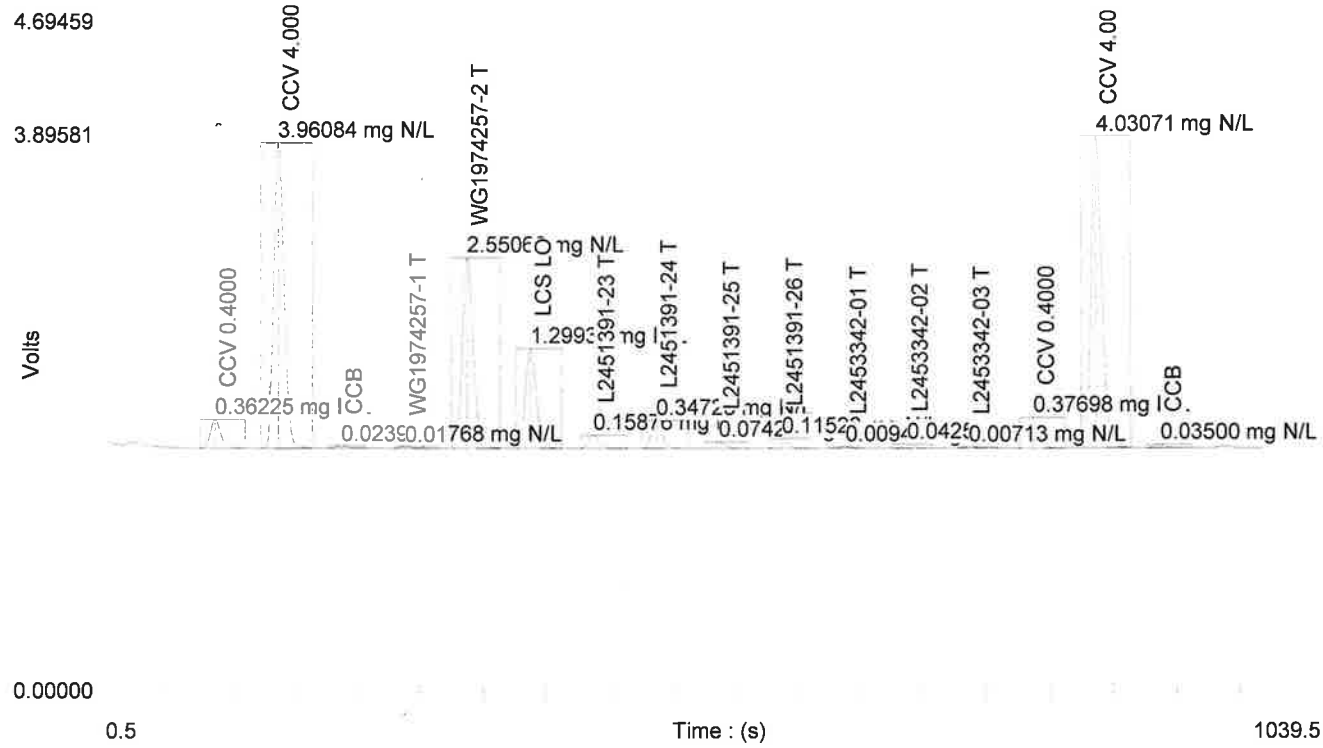
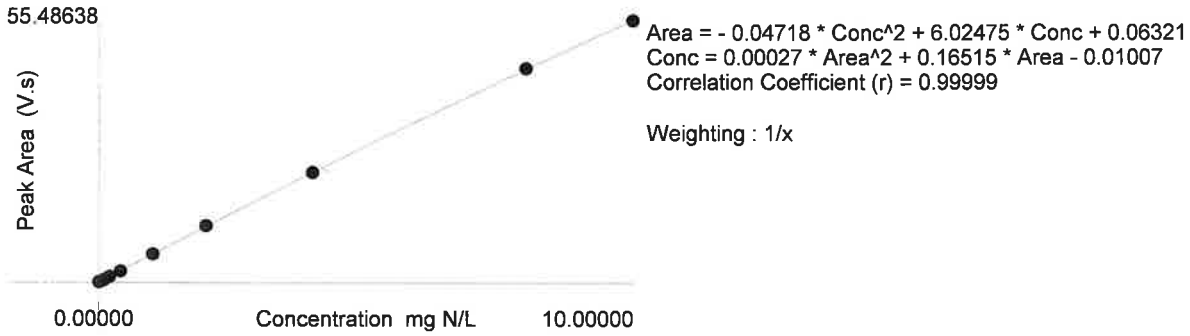


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Original Run Filename: OM_9-23-2024_04-06-54PM.OMN Created: 9/23/2024 4:06:54 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_04-06-54PM.OMN Last Modified: 9/23/2024 4:34:25 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.36769			92
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.02642			101
	Known Conc:		100.00000			
CCB	1	S10	0.03227			/
	Known Conc:		100.00000			
2-04 T	1	11	0.04527		3.00	
L2453342-05 T	1	12	0.09195		3.00	
L2453342-06 T	1	13	0.03189		3.00	
WG1974257-4 T	1	14	8.76686		3.00	
WG1974257-3 T	1	15	0.35591		3.00	
L2453342-07 T	1	16	0.08676		3.00	
L2453342-08 T	1	17	0.10211		3.00	
L2453342-10 T	1	18	1.01653		3.00	
L2453720-01 T	1	19	0.02227		3.00	
L2453720-03 T	1	20	0.24809		3.00	
CCV 0.4000	1	S6	0.38176			95
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02536			101
	Known Conc:		100.00000			
CCB	1	S10	0.03697			/
	Known Conc:		100.00000			
L2453720-04 T	1	21	0.05529		3.00	
L2453720-06 T	1	22	0.03087		3.00	
L2453720-07 T	1	23	0.51279		3.00	
L2453720-08 T	1	24	0.07543		3.00	
L2453720-09 T	1	25	0.01224		3.00	
CCV 0.4000	1	S6	0.37256			97
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01584			100
	Known Conc:		100.00000			
CCB	1	S10	0.02456			/
	Known Conc:		100.00000			

L2453342-04

Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

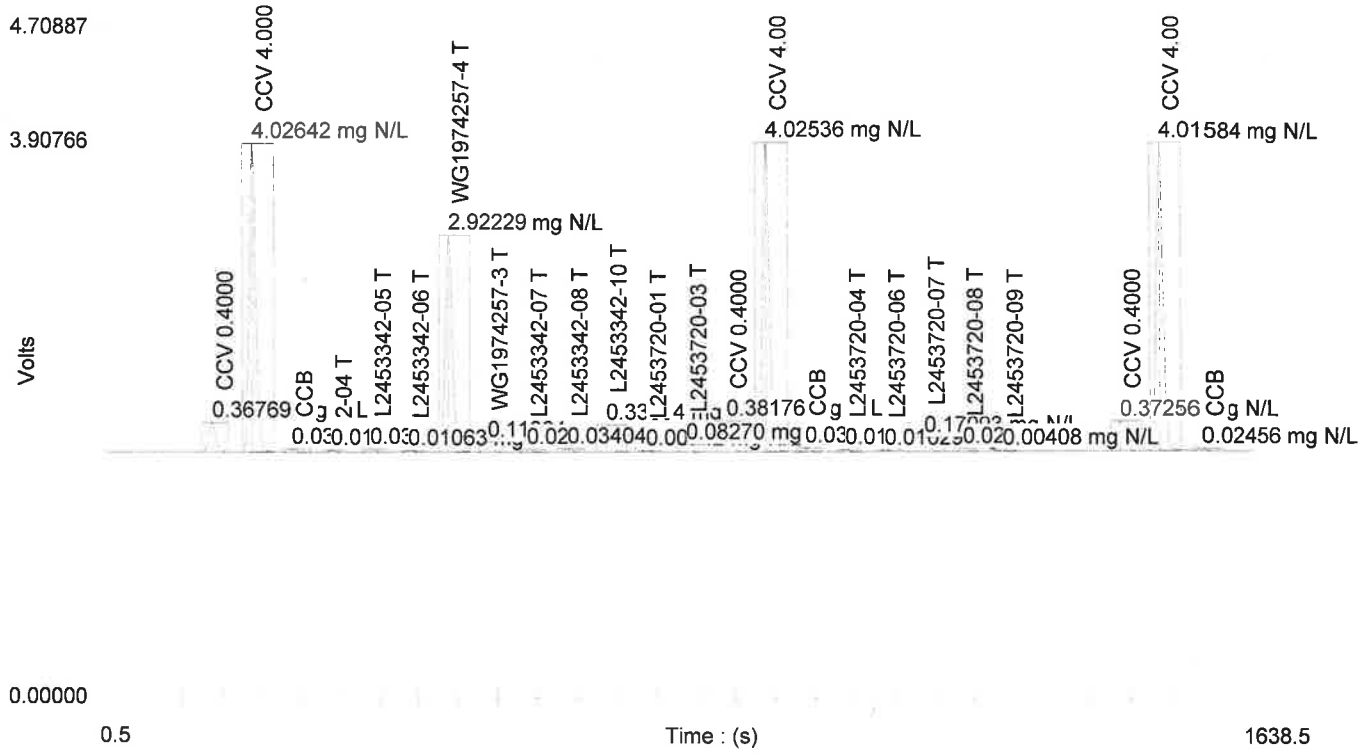
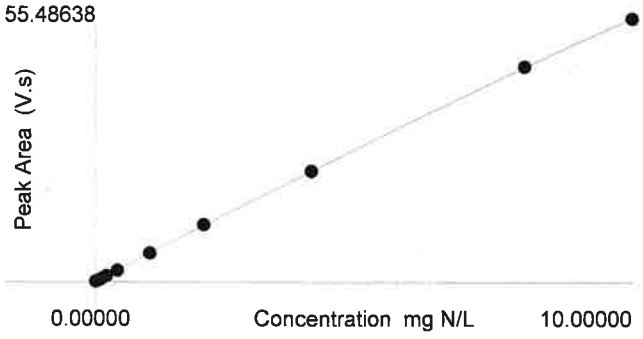


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Area = - 0.04718 * Conc^2 + 6.02475 * Conc + 0.06321
Conc = 0.00027 * Area^2 + 0.16515 * Area - 0.01007
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_02-09-37PM.OMN Created: 9/24/2024 2:09:37 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_02-09-37PM.OMN Last Modified: 9/24/2024 3:06:28 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.38400	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.06105	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02617			
	Known Conc:		100.00000			97%
HI ICV 8.0	1	1	7.90381			
LO ICV 1.0	1	2	1.02970			103%
ICB	1	3	0.00359			
WG1974611-1	1	4	-0.00728		1.50	91%
WG1974611-2	1	5	18.17242		7.50	
LCS LO	1	6	1.87629		1.50	94%
L2453309-02	1	7	16.68735		3.00	
L2453404-02	1	8	0.24426		1.50	
L2453404-05	1	9	0.32843		3.00	
L2453404-08	1	10	-0.00377		1.50	97%
CCV 0.4000	1	S6	0.38707			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11676			83%
	Known Conc:		100.00000			
CCB	1	S10	0.03157			
	Known Conc:		100.00000			
L2453404-11	1	11	0.50303		3.00	
L2453404-14	1	12	0.30369		3.00	
L2453404-17	1	13	0.37756		1.50	
L2453404-20	1	14	0.19113		1.50	
L2453404-23	1	15	0.07368		1.50	
L2453404-26	1	16	0.105 ~~0.06432~~		~~1.50~~	3.0
L2453422-02	1	17	0.02399		3.00	
L2453422-04	1	18	0.00412		1.50	
L2453422-06	1	19	-0.01161		1.50	
L2453422-08	1	20	0.00595		1.50	
CCV 0.4000	1	S6	0.37872	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11441	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02524			
	Known Conc:		100.00000			
L2453422-10	1	21	0.00176		1.50	
L2453422-12	1	22	-0.00738		1.50	
L2453422-14	1	23	-0.00325		1.50	
L2453422-16	1	24	0.00977		1.50	
L2453422-18	1	25	0.33543		1.50	
L2453422-20	1	26	0.15775		1.50	105%
WG1974611-4	1	27	4.36508		1.50	64% (LC+RC)
WG1974611-3	1	28	0.30755		1.50	
CCV 0.4000	1	S6	0.38747	97%		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

CCV 4.0000	1 S3	4.12521	103
	Known Conc:	100.00000	
CCB	1 S10	0.02592	
	Known Conc:	100.00000	

Channel 2 (Ammonia High) - Current View

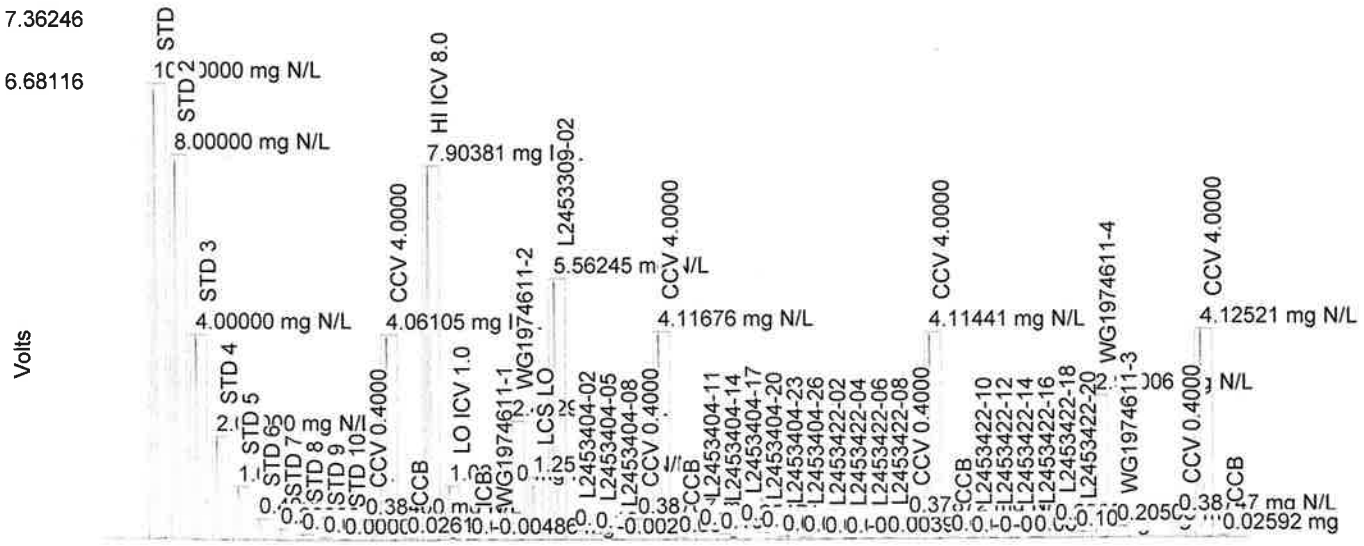


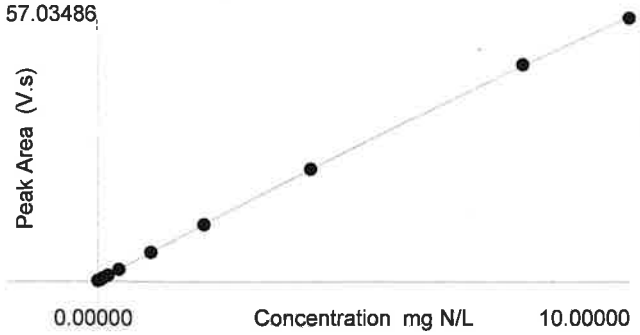
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-11-50PM.OMN Created: 9/24/2024 3:11:50 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-11-50PM.OMN Last Modified: 9/24/2024 3:40:38 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.38663	97%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.12086	103%			
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.03216				
	Known Conc:		100.00000				
WG1974987-1 T	1	1	0.01657			93%	
WG1974987-2 T	1	2	37.13968		15.00		
LCS LO	1	3	4.22557		3.00	106%	
L2452439-01 T	1	4	11.97604		3.00		
L2452439-03 T	1	5	2.23687		3.00		
L2452659-01 T	1	~~6~~	~~36.69828~~		3.00		
L2452659-02 T	1	~~7~~	~~2.34757~~		3.00	w/dilution.	
L2452661-01 T	1	~~8~~	~~38.40069~~		3.00		
L2452661-02 T	1	~~9~~	~~6.77500~~		3.00		
L2452954-02 T	1	10	1.88810		3.00		
CCV 0.4000	1	S6	0.42722	107%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.13375	103%			
	Known Conc:		100.00000				
CCB	1	S10	0.04255				
	Known Conc:		100.00000				
L2453069-01 T	1	11	0.40548		3.00		
L2453069-02 T	1	12	0.52610		3.00		
L2453069-03 T	1	13	0.40668		3.00		
L2453116-01 T	1	14	0.81322		3.00		
L2453562-01 T	1	15	1.23704		3.00		
L2453588-01 T	1	16	0.60520		3.00		
L2453851-01 T	1	~~17~~	~~41.57821~~		3.00		
L2453851-02 T	1	~~18~~	~~25.54790~~		3.00		
WG1974987-4 T	1	19	15.15484		3.00	112%	
WG1974987-3 T	1	20	~~6.94501~~		3.00	16%	
CCV 0.4000	1	S6	0.50051				
	Known Conc:		~~100.00000~~				

reject - OK

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

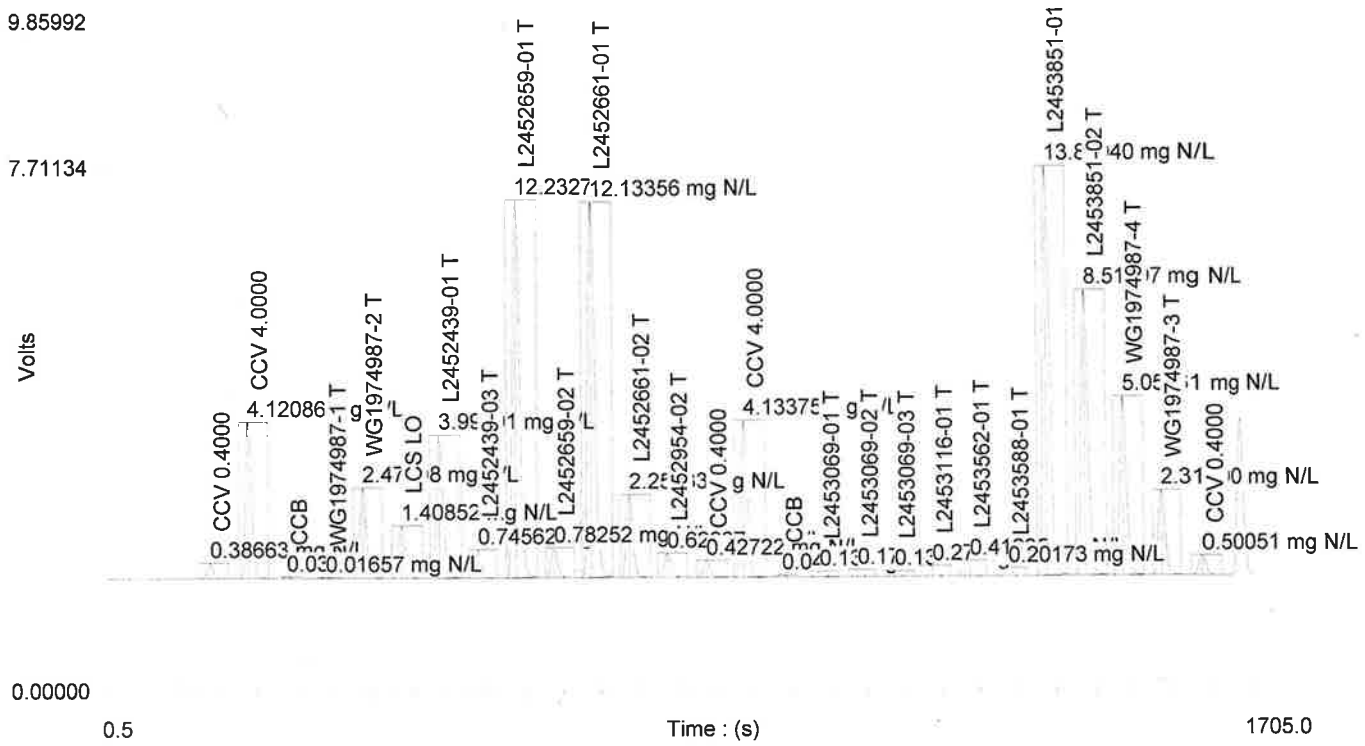
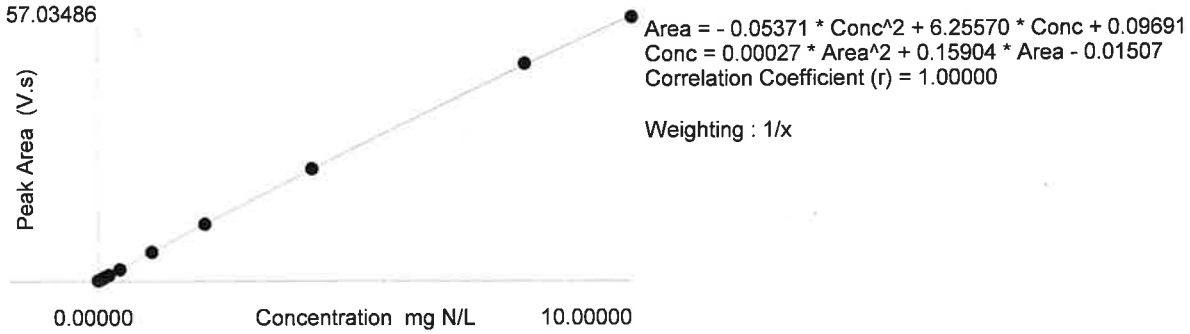


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-42-30PM.OMN Created: 9/24/2024 3:42:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-42-30PM.OMN Last Modified: 9/24/2024 3:58:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39879	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13242	103%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.04389			
	Known Conc:		100.00000			
L2452659-01 T; 10X	1	21	33.87167		30.00	
L2452659-02 T	1	22	1.55619		3.00	
L2452661-01 T; 10X	1	23	34.27209		30.00	
L2452661-02 T	1	24	5.92113		3.00	
L2453851-02 T	1	25	24.72663		3.00	
L2453851-01 T; 10X	1	26	47.97457		30.00	
CCV 0.4000	1	S6	0.41698	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12390	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.04613			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

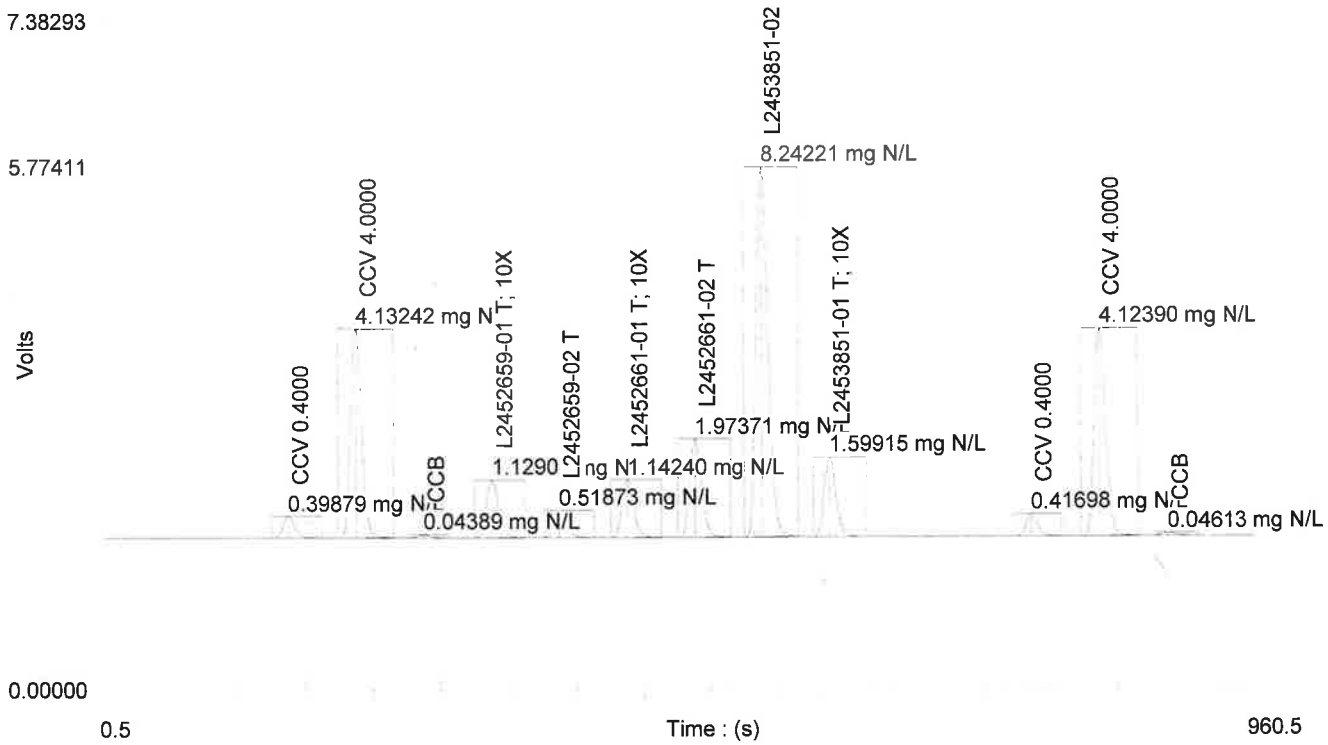
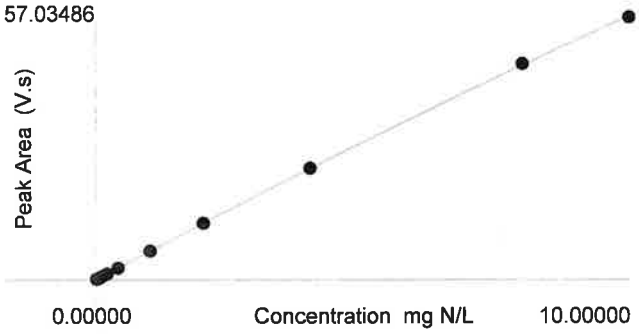


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_04-34-54PM.OMN Created: 9/24/2024 4:34:54 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_04-34-54PM.OMN Last Modified: 9/24/2024 5:02:27 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40347	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.14306	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.01157	✓		
	Known Conc:		100.00000			
WG1975410-1 T; BLK 9/24	1	1	0.03622			95%
WG1975410-2 T; HI LCS; 5X	1	2	37.92855		15.00	
LO LCS T	1	3	3.85769		3.00	97%
L2453342-10 T	1	4	0.21887		3.00	
L2453400-01 T	1	5	0.13447		3.00	
L2453400-02 T	1	6	0.14047		3.00	
L2453720-02 T	1	7	0.03683	✓	3.00	83%
WG1975410-4 T; 53720.2 MS	1	8	6.66251		3.00	
WG1975410-3 T; 53720.2 DUP	1	9	0.24279	✓	3.00	NC
L2454050-01 T	1	10	0.04661		3.00	
CCV 0.4000	1	S6	0.40045	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12804	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01118	✓		
	Known Conc:		100.00000			
L2454050-02 T	1	11	0.18983		3.00	
L2454050-03 T	1	12	0.04514		3.00	
L2454050-04 T	1	13	0.19692		3.00	
L2454059-01 T	1	14	0.02664		3.00	
L2454059-02 T	1	15	0.08425		3.00	
CCV 0.4000	1	S6	0.39734	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11552	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01054	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

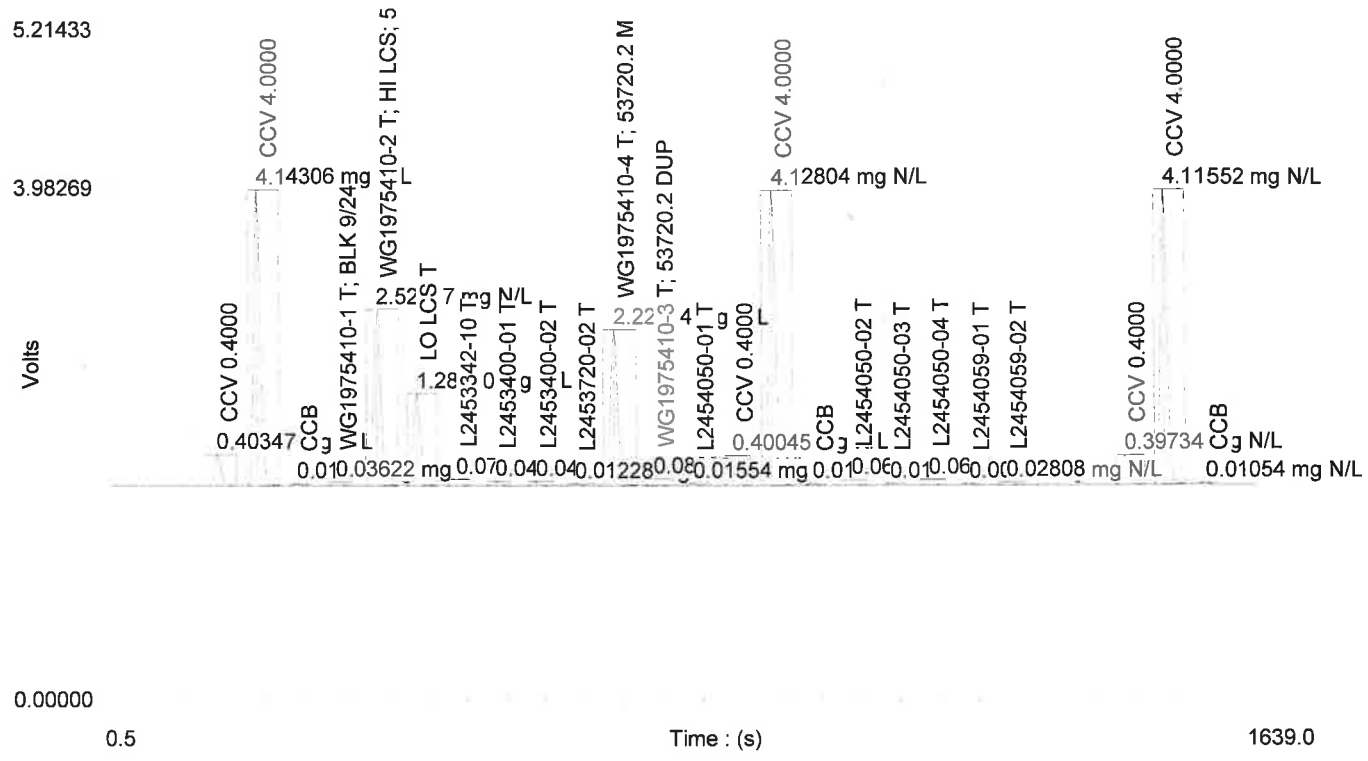
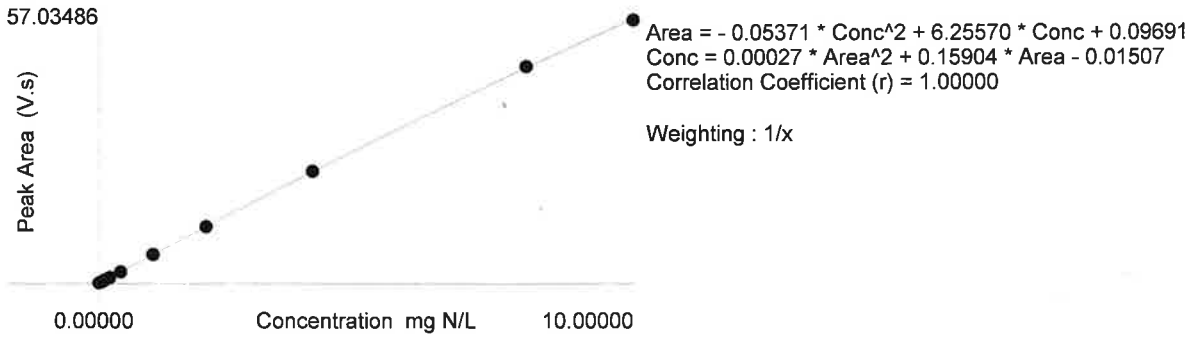


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-03-39PM.OMN Created: 9/24/2024 5:03:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-03-39PM.OMN Last Modified: 9/24/2024 5:44:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39694	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.10480	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01564	✓		
	Known Conc:		100.00000			
WG1974880-1; BLK 9/23	1	1	0.00101		1.50	95%
WG1974880-2; HI LCS; 5X	1	2	18.94386		7.50	95%
LO LCS	1	3	1.91604		1.50	w/dilution
~~L2452663-01~~	~~1~~	~~4~~	~~899.24512~~		~~30.00~~	
~~L2452825-01~~	~~1~~	~~5~~	~~19.70197~~		~~3.00~~	
L2452439-01	1	6	6.16501		3.00	
L2452439-03	1	7	0.41863		1.50	
L2452762-07	1	8	0.08491		1.50	
L2452762-10	1	9	0.05042		1.50	
L2452762-13	1	10	0.09997		1.50	
CCV 0.4000	1	S6	0.41315	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13014	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02807	✓		
	Known Conc:		100.00000			
L2452762-16	1	11	0.02017		1.50	
L2452762-19	1	12	0.02341		1.50	
L2452762-22	1	13	0.01972		1.50	
L2452951-01	1	14	0.06498		1.50	
L2452951-02	1	15	0.02900		1.50	
L2452951-03	1	16	0.01543		1.50	
L2452951-04	1	17	0.05530		1.50	
L2452951-05	1	18	0.03787		1.50	
L2452951-07	1	19	0.02368		1.50	
L2452951-08	1	20	0.01178		1.50	
CCV 0.4000	1	S6	0.40168	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10472	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02003	✓		
	Known Conc:		100.00000			
L2452951-09	1	21	0.02348	✓	1.50	107%
WG1974880-4; 52951.9 MS	1	22	4.28094		1.50	NC (see file)
WG1974880-3; 52951.9 DUP	1	23	0.16819	✓	1.50	
L2451318-01	1	24	0.02776		1.50	
L2451318-02	1	25	-0.00516		1.50	
L2452825-01	1	26	17.28792		3.00	
L2452663-01; 50X	1	27	2697.14331		1500.00	
CCV 0.4000	1	S6	0.41839	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12936	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02275	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

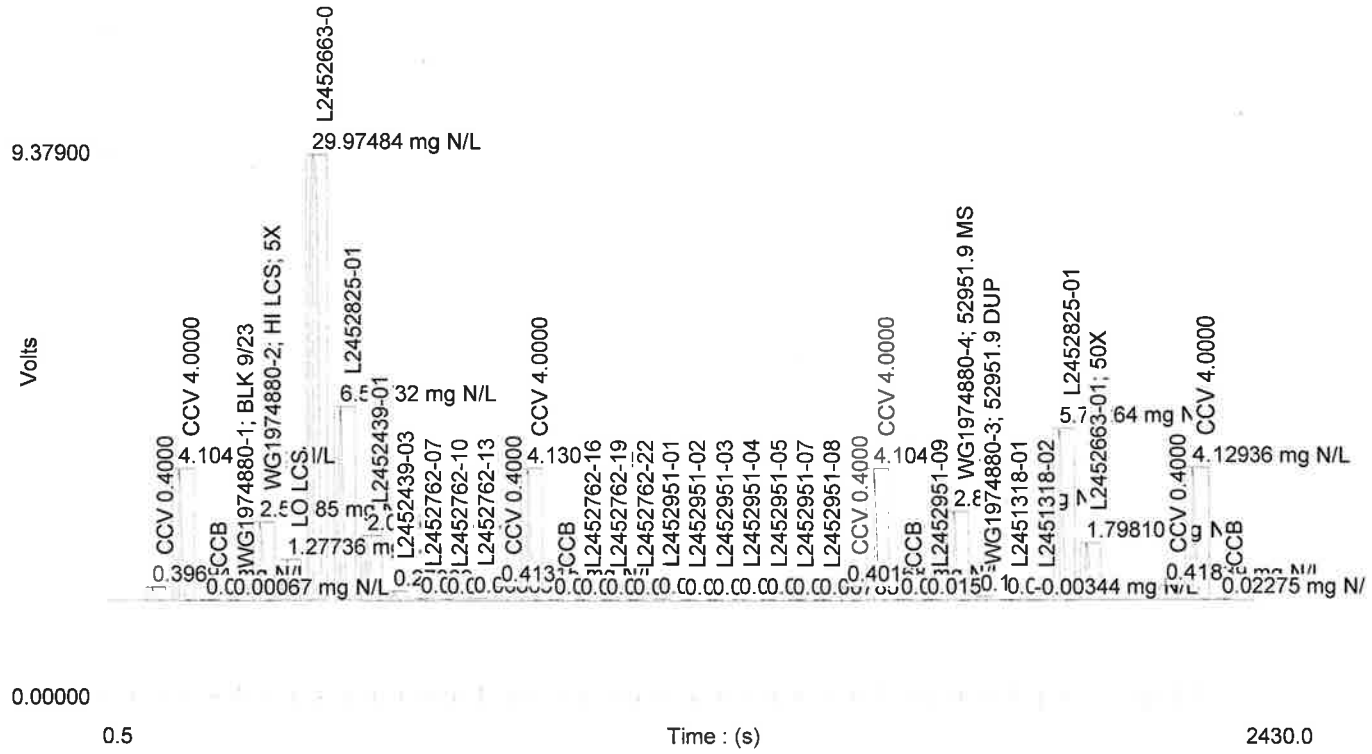
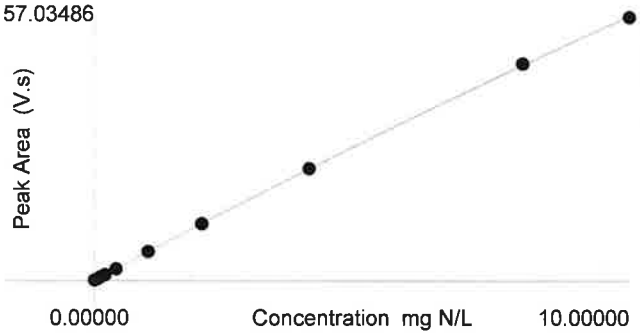


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-45-28PM.OMN Created: 9/24/2024 5:45:28 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-45-28PM.OMN Last Modified: 9/24/2024 6:23:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40296	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.09160	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02330			
	Known Conc:		100.00000			
WG1974931-1; BLK 9/23	1	1	0.00839		1.50	
WG1974931-2; HI LCS; 5X	1	2	20.41417		7.50	102%
LO LCS	1	3	2.02684		1.50	101%
L2453072-01	1	4	3.12408		7.50	
L2453072-02	1	5	1.54750		7.50	
L2453072-03	1	6	0.93141		7.50	
~~L2453702-04~~ 53072.4	1	7	6.38925		7.50	
L2453118-01	1	8	0.47920		1.50	
L2453285-01	1	9	0.03705		1.50	
L2453285-02	1	10	0.01939		1.50	
CCV 0.4000	1	S6	0.39762	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12069	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01922			
	Known Conc:		100.00000			
L2453285-03	1	11	0.18870		1.50	
L2453285-04	1	12	0.18328		1.50	
L2453198-02	1	13	19.26028		7.50	
L2453198-03	1	14	7.45834		1.50	
L2453123-02	1	15	0.25753		1.50	
L2452994-01	1	16	0.27551		1.50	
L2452994-02	1	17	0.76078		1.50	
L2452967-01	1	18	0.04190		1.50	111%
WG1974931-4; 52967.1 MS	1	19	4.44293		1.50	NCL (+RL)
WG1974931-3; 52967.1 DUP	1	20	0.13240		1.50	
CCV 0.4000	1	S6	0.41075	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10704	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02107			
	Known Conc:		100.00000			
L2452967-02	1	21	4.71979		1.50	
L2452967-03	1	22	5.86877		1.50	
L2452967-05	1	23	2.46901		1.50	
L2452967-06	1	24	1.87792		1.50	
CCV 0.4000	1	S6	0.41341	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11104	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01431			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

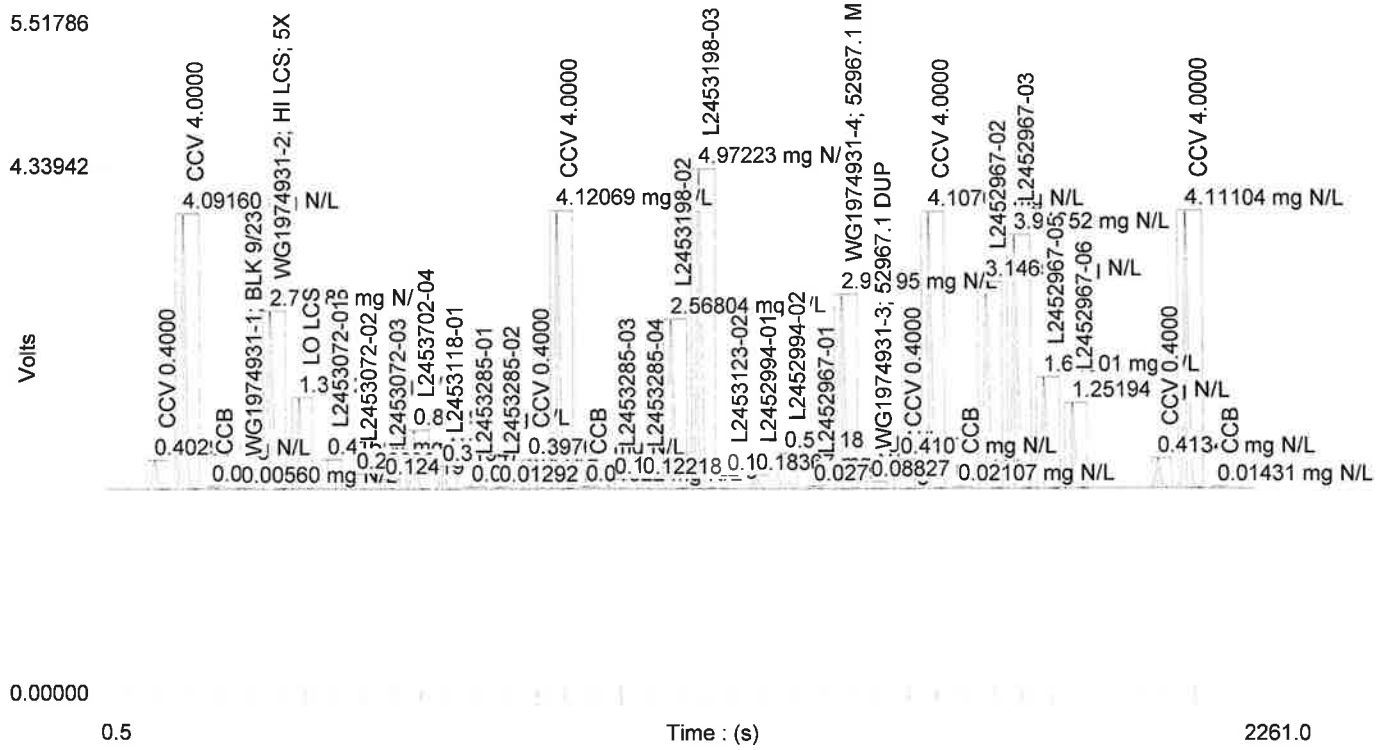
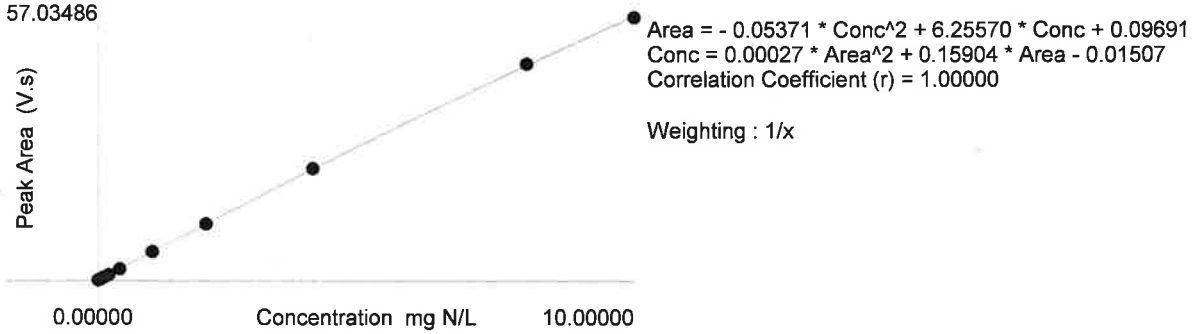


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

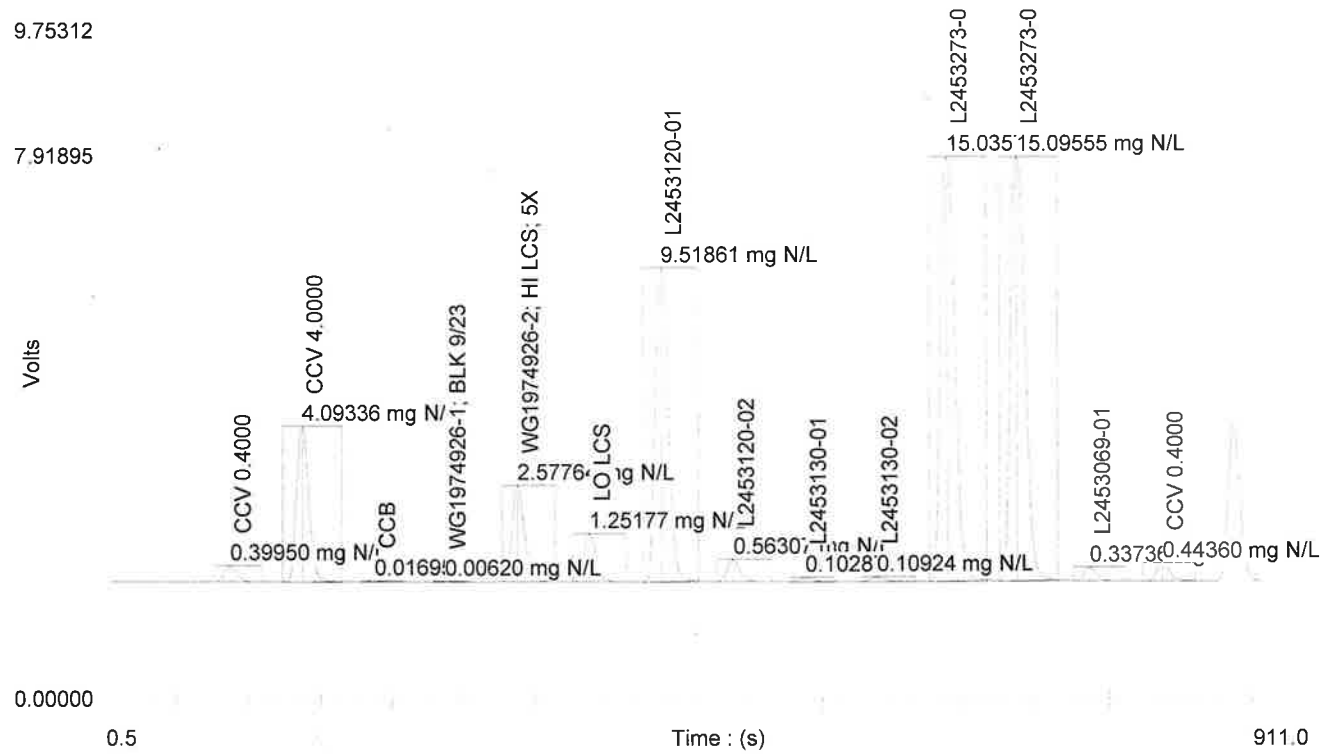
Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-24-02PM.OMN Created: 9/24/2024 6:24:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-24-02PM.OMN Last Modified: 9/24/2024 6:39:35 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39950			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09336			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01695			
	Known Conc:		100.00000			
WG1974926-1; BLK 9/23	1	1	0.00930		1.50	
WG1974926-2; HI LCS; 5X	1	2	19.33228		7.50	
LO LCS	1	3	1.87766		1.50	
L2453120-01	1	4	71.38956		7.50	
L2453120-02	1	5	0.84460		1.50	
L2453130-01	1	6	0.15430		1.50	
L2453130-02	1	7	0.16386		1.50	
L2453273-01	1	8	22.55355		1.50	
L2453273-02	1	9	22.64332		1.50	
L2453069-01	1	10	0.50604		1.50	
CCV 0.4000	1	S6	0.44360			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View



Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
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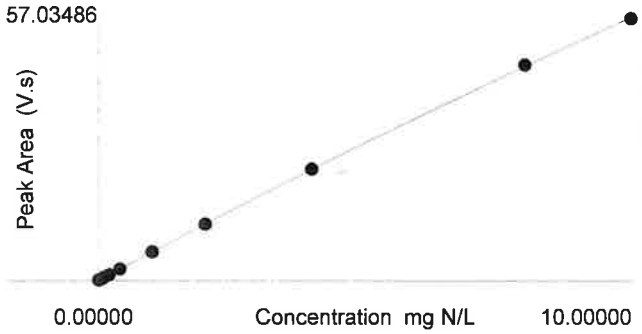
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-41-33PM.OMN Created: 9/24/2024 6:41:33 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-41-33PM.OMN Last Modified: 9/24/2024 7:11:54 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40825	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08416	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02265			
	Known Conc:		100.00000			
L2453069-02	1	11	0.03058		1.50	
L2453069-03	1	12	0.01625		1.50	
L2452951-10	1	13	0.04882		1.50	
	Calibration:		Table/Fig. : 1			
WG1974926-4; 52951.10 MS	1	14	4.25540		1.50	107%
WG1974926-3; 52951.10 DUP	1	15	0.16758		1.50	NC (<5 RPD)
L2452951-11	1	16	0.05612		1.50	
L2452951-12	1	17	0.05529		1.50	
L2452951-13	1	18	0.04072		1.50	
L2452951-14	1	19	0.04665		1.50	
L2452951-15	1	20	0.06207		1.50	
CCV 0.4000	1	S6	0.40544	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.07187	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.01885			
	Known Conc:		100.00000			
L2452951-16	1	21	0.02111		1.50	
L2452951-18	1	22	0.02894		1.50	
L2452951-20	1	23	0.16122		1.50	
L2452951-22	1	24	0.04567		1.50	
L2452951-23	1	25	0.01348		1.50	
L2453273-01; 10X	1	26	25.17026		15.00	
L2453273-02; 10X	1	27	24.45352		15.00	
L2453069-01	1	28	0.07970		1.50	
CCV 0.4000	1	S6	0.40443	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05406	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02106			
	Known Conc:		100.00000			

F2

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

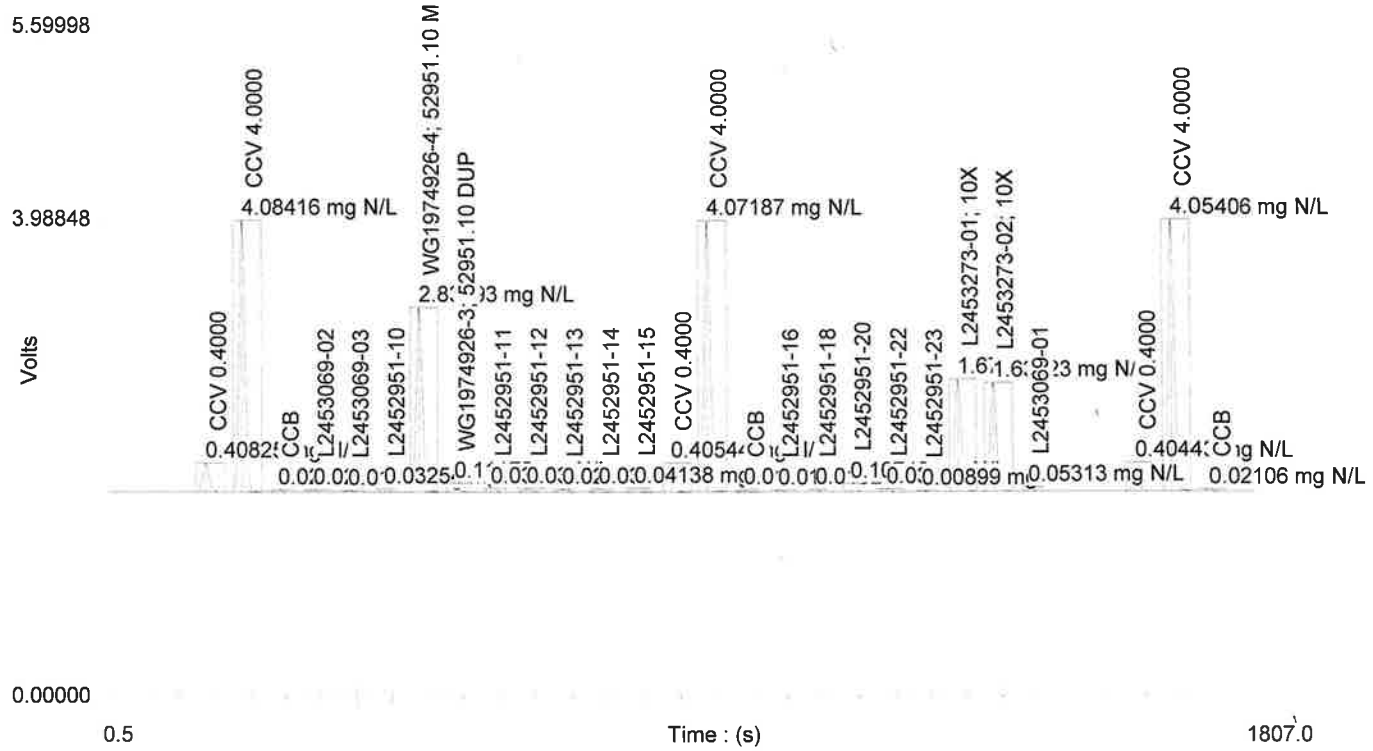
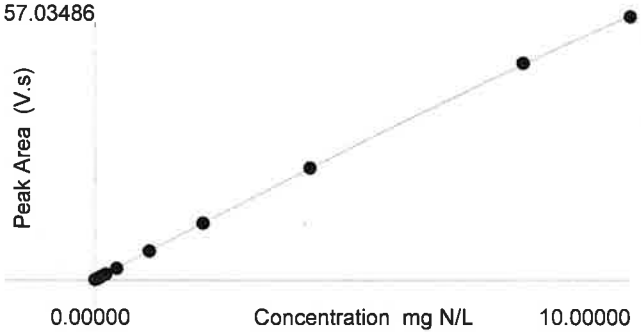


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_07-12-32PM.OMN Created: 9/24/2024 7:12:32 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_07-12-32PM.OMN Last Modified: 9/24/2024 7:43:51 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40012	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02657	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02068			
	Known Conc:		100.00000			
WG1974990-1 T; BLK 9/23	1	1	0.00481			
WG1974990-2 T; HI LCS; 5X	1	2	38.93412		15.00	97%
LO LCS T	1	3	4.30572		3.00	108%
L2453131-01 T	1	4	27.89323		3.00	
L2453131-02 T	1	5	7.06766		3.00	
L2453123-02 T	1	6	1.50666		3.00	
L2453274-01 T	1	7	0.38847		3.00	
WG1974990-4 T; 53274.1 MS	1	8	8.75431		3.00	105%
WG1974990-3 T; 53274.1 DUP	1	9	0.69545		3.00	57% (c(xRL)
L2453274-02 T	1	10	0.35977		3.00	
CCV 0.4000	1	S6	0.40950	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00307	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02318			
	Known Conc:		100.00000			
L2453274-03 T	1	11	0.35934		3.00	
L2453274-04 T	1	12	0.30229		3.00	
L2453274-05 T	1	13	0.58463		3.00	
L2453274-06 T	1	14	0.24626		3.00	
L2453274-07 T	1	15	0.19364		3.00	
L2453274-08 T	1	16	0.13591		3.00	
L2453279-01 T	1	17	0.28698		3.00	
L2453279-02 T	1	18	0.05338		3.00	
L2453279-03 T	1	19	2.89454		3.00	
L2453279-04 T	1	20	1.04419		3.00	
CCV 0.4000	1	S6	0.40364	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00001	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.01998			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

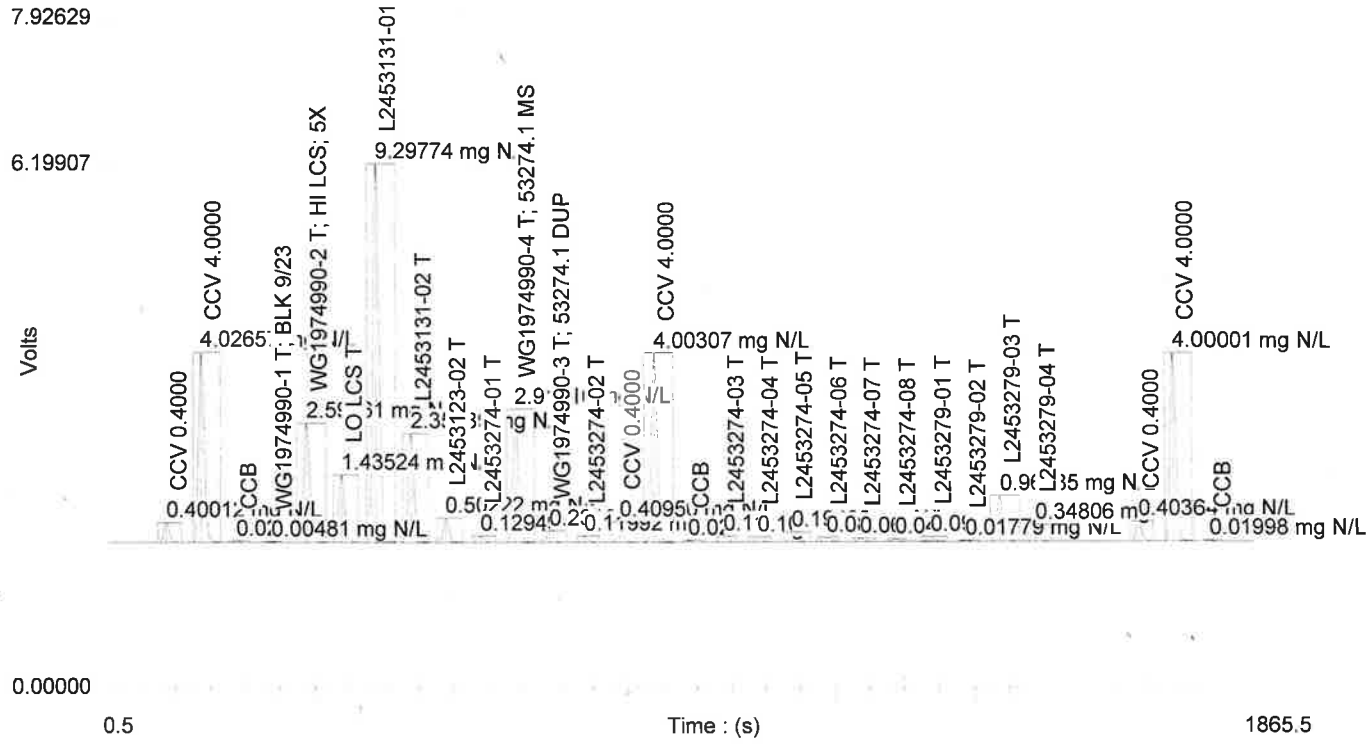
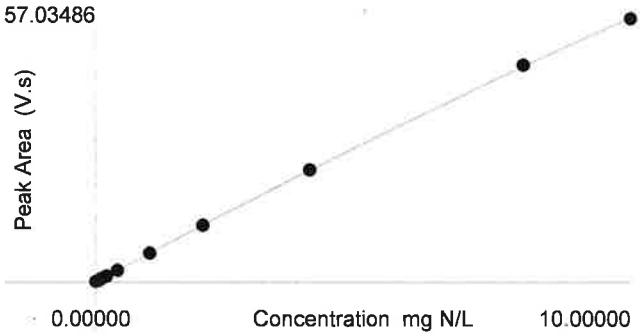


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_08-21-13PM.OMN Created: 9/24/2024 8:21:13 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_08-21-13PM.OMN Last Modified: 9/24/2024 8:59:09 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38445	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.91557	98%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01951	✓		
	Known Conc:		100.00000			
WG1974994-1 T; BLK 9/23	1	1	0.01439			97%
WG1974994-2 T; HI LCS; 5X	1	2	38.65418		15.00	
LO LCS T	1	3	4.12006		3.00	103%
L2453134-01 T	1	4	~~54.40591~~		3.00	w/ dilution
L2453134-02 T	1	5	~~8.18690~~		3.00	
L2453170-01 T	1	6	~~43.39964~~		3.00	
L2453118-01 T	1	7	~~4.18830~~		3.00	
L2453285-01 T	1	8	2.03259		3.00	
L2453285-02 T	1	9	1.45161		3.00	
L2453285-03 T	1	10	0.68758		3.00	
CCV 0.4000	1	S6	0.41324	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96176	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.03083	✓		
	Known Conc:		100.00000			
L2453285-04 T	1	11	0.84950		3.00	
L2453290-01 T	1	12	4.69295		3.00	
L2453290-02 T	1	13	0.29413		3.00	
L2453290-03 T	1	14	0.32899		3.00	
L2453290-04 T	1	15	0.59957		3.00	
L2453293-01 T	1	16	0.30738	✓	3.00	
WG1974994-4 T; 53293.1 MS	1	17	8.62890		3.00	104%
WG1974994-3 T; 53293.1 DUP	1	18	0.59784	✓	3.00	64% (LCS+LCSD)
L2453293-02 T	1	19	0.17907		3.00	
L2453293-03 T	1	20	0.13291		3.00	
CCV 0.4000	1	S6	0.40742	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95537	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02495	✓		
	Known Conc:		100.00000			
L2453134-01 T; 10X	1	21	76.49265		30.00	
L2453134-02 T	1	22	7.07148		3.00	
L2453170-01 T; 10X	1	23	52.41485		30.00	
L2453118-01 T	1	24	3.24589		3.00	
CCV 0.4000	1	S6	0.41158	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95401	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02732	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

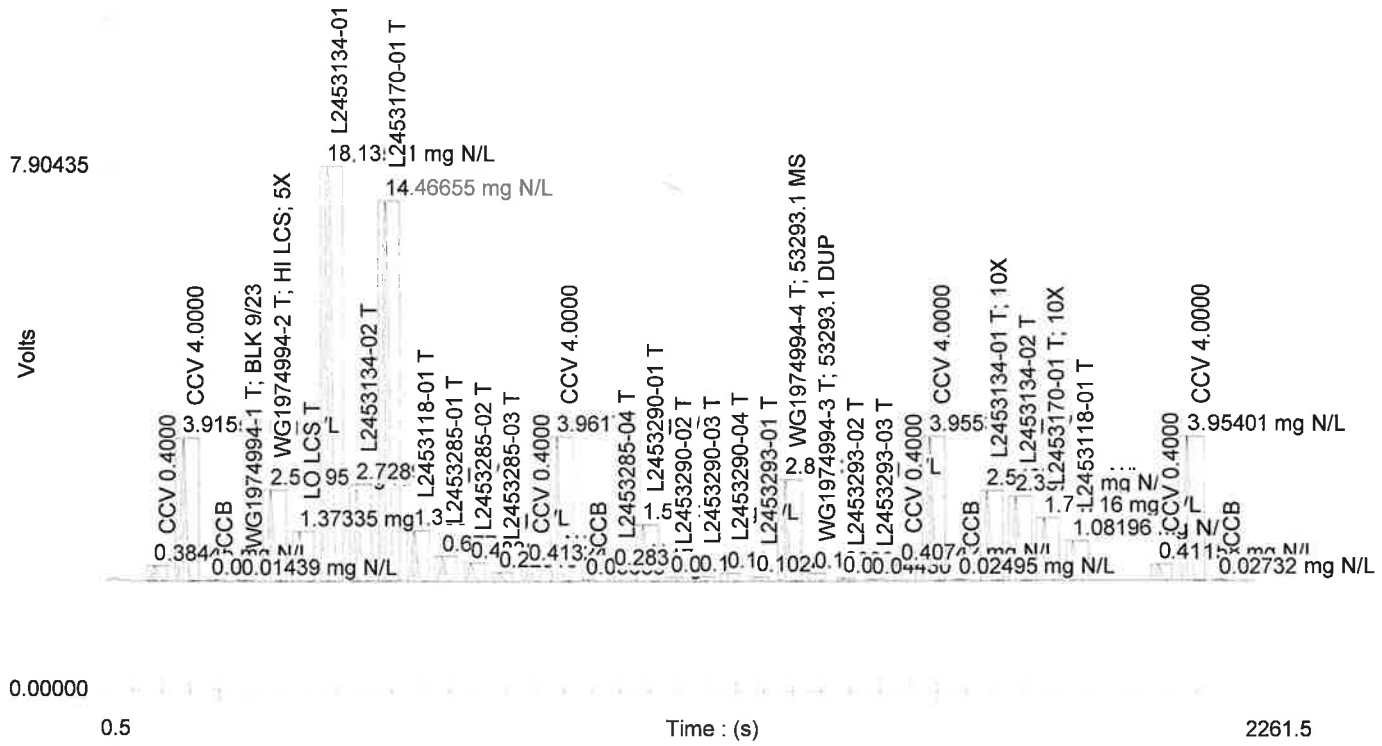
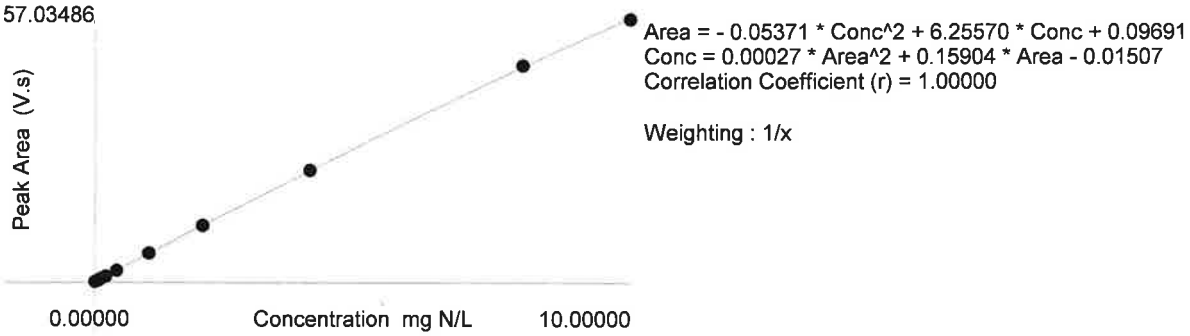


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06		
Matrix Spike	: WG1974257-4	**MS Analysis Date**	: 09/23/24 16:14
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Total Kjeldahl	ND	8	8.77	110					77-111	24

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975410-4	**MS Analysis Date**	: 09/24/24 16:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	6.66	83					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06	**Analysis Date**	: 09/23/24 16:13
Dup Sample ID	: WG1974257-3	**DUP Analysis Date**	: 09/23/24 16:15

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.356	NC	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 16:45
Dup Sample ID	: WG1975410-3	**DUP Analysis Date**	: 09/24/24 16:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.243J	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974257-2	**LCS Analysis Date**	: 09/23/24 15:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**38.2**	**96.**					**78-122**	**24**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975410-2	**LCS Analysis Date**	: 09/24/24 16:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Total Kjeldahl	40.0	37.9	95.					78-122	24

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

Try A
PP 9120 e 8:41

Hi ICV 8.0
Lo ICV 1.0
ICB
wx1974167-1 T Bk
-2 T Ls
Lo hes
52663.1 T (10<) ② 20x (05 10)
52665.1 T (2<) ②
2 T
52666.1 T
2 T
52734.1 T
52743.1 T
2 T
3 T
4 T
52829.1 T (10<) ② 20x (0.5 10)
52961.1 T
52962.1 T
53063.1 T
.1 Ls
.1 Dup
53750.1 T

Try B
PP 9123 e 1:48

wx1974881-1, Bk
-2 ; Les
Lo hes
50933.1
51391.26
52661.1
2
52665.1
2
52666.1
2
52844.1
53629.1
.1 Ls
.1 Dup

To Page No. ____

Witnessed & Understood by me, Date

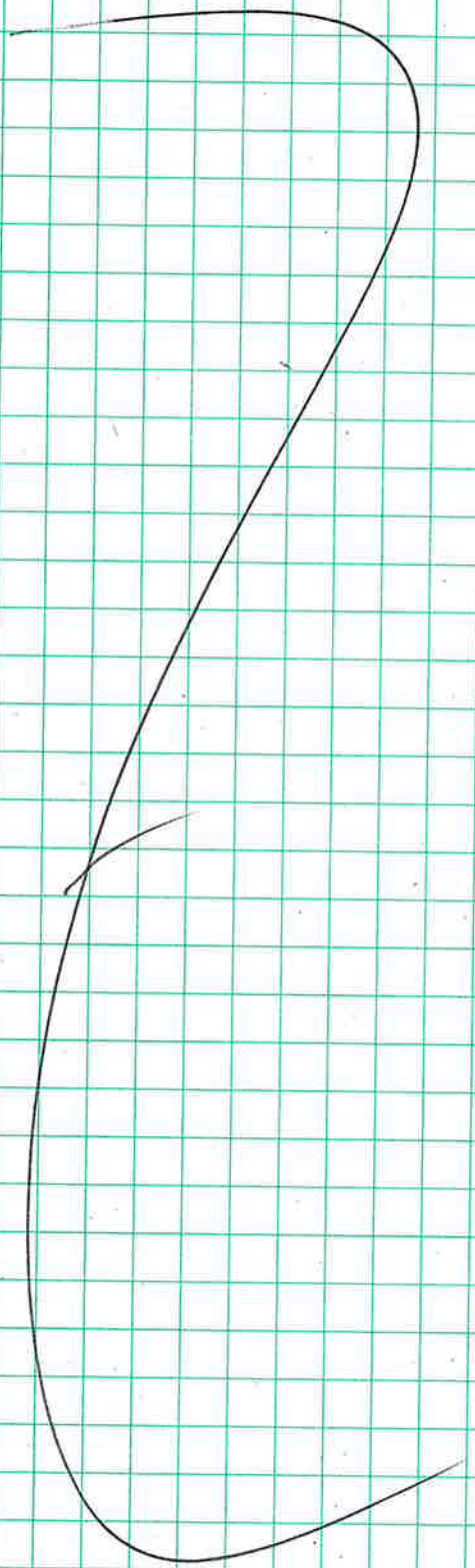
Invented by: Date

Recorded by:

1 ray C
RP 9120e 16:03

WO19742257-1 T: Bk
-2 T: Hrs

Lo Hrs
541391.23 T
24 T
25 T
26 T (2x)
533422 1 T
2 T
3 T
4 T
5 T
6 T
6 Hrs
6 DUP
7 T
8 T
10 T
537200 1 T
3 T
4 T
6 T
7 T
8 T
9 T



To Page No. ____

ssed & Understood by me,

Date

Invented by:

Date

Recorded by:

Project No. _____

ential Book No. _____ TITLE NH3 9/24/24

ige No.

A (02-07-39 PM)

- 9/26 @ 16:51

ICV 6-6

LO FW 10

FCB

WU1974611-1 . BL

-2: ↵

Lo Levs

53309.2 (2x)

53404.2

3 (2x)

8

11 (2<)

14 (2<)

17

20

23

26

53422.2 (2x)

4

6

8

10

12

14

16 (2x)

18

20

20 Avg

20 Dup

T→ B (03-11-30 PM)

RF

9/23 @ 18:25

WU1974987-1 T . BL

-2 T: ↵

Lo Levs

1 52439.1 T

2

3 3 T

4 52659.1 T ⊗ 10x (1 T 10 M)

5 2 T ⊗

6 52661-1 T ⊗ 10x (1 T 10 M)

7 2 T ⊗

8

9

10 52954.2 T

11 53069.1 T

12 2 T

13 3 T

14 53116.1 T

15 53562.1 T

16 53588.1 T

17 53857.1 T ⊗ (10x) 1 T 10 M

18 2 T ⊗

19 52661.2 Avg

20 2 Dup

21

→ 03-12-30 PM

Date: 9/24/24

Sodium Phenolate: 8/30/24 R-4065

Sodium Hypochlorate: 8/30/24 7.5% 5kg

Sodium Nitropruisside: 8/30/24 R-5769

Borric Acid Soln.: 8/30/24 R-4019

ICV 1.0: 9/11/24 WC-3476

ICV 8.0:

Cal. Std: 8/30/24 WC-3392

See Front Page for Instructions:

to Page No. ____

ed & Understood by me, | Date | Invented by: | Date

Recorded by:

TITLE NH3 9/24/14 (AM Cont) Project No. _____ Book No. _____ Confide

From Page No. _____

Tcy C (04-34-54 pm)
RP 9124 @ 7:38

1 WL 197541 0-1 T: Zu
2 -2 T: ↳
3 Lo ↳
4 53342-10 T
5 53400-1 T
6 2 T
7 53720-2 T
8 720 .2 ↳
9 .2 Duo
10 54050-1 T
11 2 T
12 3 T
13 4 T
14 54059-1 T
15 2 T
16
17
18
19
20

tg ⇒ (05-03-37 pm)
fup 9/23/14 @ 0144

1 WL 197480-1: Blu 9/23
2 WL 197480-2; Hi ws + T
3 W ws
4 52663.1 (20 T) -50 T
5 52825.1 (2 T)
6 52439.1 (2 T)
7 .3
8 52762-7
9 .10
10 .13
11 .16
12 .19
13 .22
14 52951.1
15 .2
16 .3
17 .4
18 .5
19 .7
20 .8
21 .9
22 WL 197480-4; 52951.9 ws
23 WL 197480-3; 52951.9 Dup
24 51318-1
25 .2

To Page N

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

tmp E (05-45-28 pm)
Pmp 9/23/24 @1235

1	WL 1974931-1; Blu 9/23
2	WL 1974931-2; Hi vs T+
3	(vs)
4	53072.1 (Se)
5	.2 (Se)
6	.3 (ST)
7	.4 (ST)
8	53118.1
9	53285.1
10	.2
11	.3
12	.4
13	53198.2 (ST)
14	.3
15	53123.2
16	52994.1
17	.2
18	52967.1
19	WL 1974931-4; 52967.1 MS
20	WL 1974931-3; 52967.1 Rp
21	52967.2
22	.3
23	.5
24	.6
25	

tmp F (05-24-02 pm)
Pmp 9/23/24 @1230

1	WL 1974926.1 Blu 9/23
2	WL 1974926.2; Hi vs T+
3	(vs)
4	53120.1 (ST)
5	.2
6	53130.1
7	.2
8	53273.1 -10+
9	.2 -10+
10	53069.1
11	.2
12	.3
13	52951.10
14	WL 1974926.4; 52951.10 MS
15	WL 1974926.3; 52951.10 Rp
16	52951.11
17	.12
18	.13
19	.14
20	.15
21	.16
22	.18
23	.20
24	.22
25	.23

→ 06.41.33 pm

ssed & Understood by me, Date Invented by: Date
Recorded by:

WHs 9/24/24 (AP) Cont'd

TITLE _____ Project No. _____ Book No. _____ Confic

From Page No. ____

Eq. G (07-12-32 PM)
Pup 9/23/24 @ 1330

1 WH-974990-1 T; Blk 9/23
2 WH-974990-2 T; Hi WS T
3 Lo WS T
4 53131.1 T
5 .2 T
6 53123.2 T
7 53274.1 T
8 WH-974990-4 T; 53274.1 MS
9 WH-974990-3 T; 53274.1 SD
10 53274.2 T
11 .3 T
12 .4 T
13 .5 T
14 .6 T
15 .7 T
16 .8 T
17 53279.1 T
18 .2 T
19 .3 T
20 .4 T

Eq. H (08-21-13 PM)
Pup 9/23/24 @ 1340

1 WH-974994-1 T; Blk 9/23
2 WH-974994-2 T; Hi WS T
3 Lo WS T
4 53134.1 T -10 X
5 .2 T
6 53170.1 T -10 X
7 53168.1 T
8 53285.1 T
9 .2 T
10 .3 T
11 .4 T
12 53290.1 T
13 .2 T
14 .3 T
15 .4 T
16 53293.1 T
17 WH-974994-4 T; 53293.1 MS
18 WH-974994-3 T; 53293.1 SD
19 53293.2 T
20 .5 T

To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Sample Preparation

From Page No. ____

Sample	Volume 50 ml	Dilution	Final Volume 150 ml
Blank	↓	1x	↓
Low			
High			
53342-10			
53400-1			
-2			
53720-2 PA			
-2 DUP			
-2 MS			
54050-1			
-2			
-3			
-4			
54059-1			
-2			

Same standards and reagents as pg. ~~#~~ 99
Nitrates checked.

09/24/24 @ 07:38 AJC

Distilled by SAD 09 24 24 @ 15:05

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Project No. _____
Book No. _____ TITLE _____
From Page No. ___

WG1974257

Sample	Dilution	Volume	Final vol.
Blank	1X	50mL	150mL
Low			
High			
L2451391-23			
-24			
-25			
-26	2X (25↑50) MX.		
53342-01	1X		
-02			
-03			
-04			
-05			
-06 Pt			
-06 Dup			
-06 MS			
-07			
-08			
-10			
53720-01			
-03			
-04			
-06			
-07			
-08			
-09			

Same Std's & Reagents as previous pg # 95 Nitrates checked

09 20 24 @ 16:03 SAD

Distilled by SAD on 092124 @ 09:00

To Page No. ___

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.51	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-02	**Date Collected**	:	09/17/24 11:30
Client ID	:	MP-1D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 06:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240921-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.84	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.5	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-04	**Date Collected**	:	09/17/24 08:23
Client ID	:	MW-13S	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 06:38
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240921-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	4.2	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.24	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.9	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-08	**Date Collected**	:	09/17/24 12:55
Client ID	:	PZ-6	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 06:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240921-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.90	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 06:44
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974476-1	**Date Collected**	: NA
Client ID	: WG1974476-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 04:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974476-3	**Date Collected**	: 09/16/24 11:10
Client ID	: WG1974476-3 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/21/24 06:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240921-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.94	0.10	0.05	

Sample Raw Data

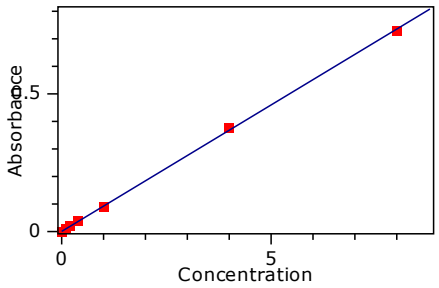
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 03:50:37
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-034937.dat

Dataset Notes:

Analyst	

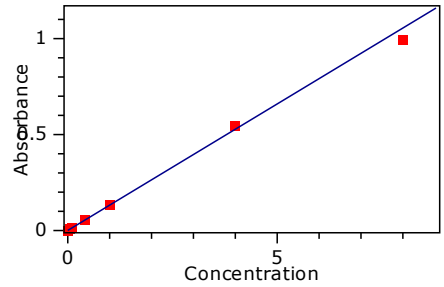
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00055
B: 0.09185
R^2: 0.99974
RSE(%): 2.51622
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.72980	8.00000	7.93920	0.76	2024-09-21T02:41:10
3	NOx 4.0ppm	0.37680	4.00000	4.09690	2.42	2024-09-21T02:42:20
4	NOx 1.0ppm	0.08940	1.00000	0.96690	3.31	2024-09-21T02:43:27
5	NOx 0.4ppm	0.03830	0.40000	0.41110	2.77	2024-09-21T02:44:35
6	NOx 0.2ppm	0.01880	0.20000	0.19890	0.53	2024-09-21T02:45:46
7	NOx 0.1ppm	0.00970	0.10000	0.09990	0.09	2024-09-21T02:46:55
8	NOx 0.0ppm	0.00010	0.00000	-0.00540	NA	2024-09-21T02:48:07



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00050
B: 0.13182
R^2: 0.99799
RSE(%): 4.76158
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.99050	8.00000	7.51020	6.12	2024-09-21T02:49:04
10	Nitrite 4.0ppm	0.54370	4.00000	4.12090	3.02	2024-09-21T02:50:14
11	Nitrite 1.0ppm	0.13040	1.00000	0.98560	1.44	2024-09-21T02:51:20
12	Nitrite 0.4ppm	0.05620	0.40000	0.42270	5.69	2024-09-21T02:52:30
13	Nitrite 0.1ppm	0.01400	0.10000	0.10250	2.50	2024-09-21T02:53:40
14	Nitrite 0.05ppm	0.00700	0.05000	0.04910	1.85	2024-09-21T02:54:50
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00280	NA	2024-09-21T02:56:15

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0007	1	1	1	0.0011		2024-09-21T02:39:55
NOx 8.0ppm	2	Standard	8	0.7298	1	1	1	7.9392		2024-09-21T02:41:10
NOx 4.0ppm	3	Standard	4	0.3768	1	1	1	4.0969		2024-09-21T02:42:20
NOx 1.0ppm	4	Standard	1	0.0894	1	1	1	0.9669		2024-09-21T02:43:27
NOx 0.4ppm	5	Standard	0.4	0.0383	1	1	1	0.4111		2024-09-21T02:44:35
NOx 0.2ppm	6	Standard	0.2	0.0188	1	1	1	0.1989		2024-09-21T02:45:46
NOx 0.1ppm	7	Standard	0.1	0.0097	1	1	1	0.0999		2024-09-21T02:46:55
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	-0.0054		2024-09-21T02:48:07
Nitrite 8.0ppm	9	Standard	?	0.7224	1	1	1	7.8590		2024-09-21T02:49:16
Nitrite 4.0ppm	10	Standard	?	0.3866	1	1	1	4.2033		2024-09-21T02:50:26
Nitrite 1.0ppm	11	Standard	?	0.0906	1	1	1	0.9807		2024-09-21T02:51:33
Nitrite 0.4ppm	12	Standard	?	0.0390	1	1	1	0.4183		2024-09-21T02:52:41
Nitrite 0.1ppm	13	Standard	?	0.0096	1	1	1	0.0985		2024-09-21T02:53:52
Nitrite 0.05ppm	14	Standard	?	0.0048	1	1	1	0.0463		2024-09-21T02:55:01
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	-0.0049		2024-09-21T02:56:14
CCV NO3	16	QC	1	0.0925	1	1	1	1.0011		2024-09-21T02:57:19
CCV NO2	17	QC	?	0.0877	1	1	1	0.9486		2024-09-21T02:58:25
CCB	18	QC	0	0.0000	1	1	1	-0.0061		2024-09-21T02:59:11
ICV NO3 5.0	19	QC	5	0.4612	1	1	1	5.0149		2024-09-21T03:00:42
ICV NO2 5.0	20	QC	?	0.4644	1	1	1	5.0505		2024-09-21T03:01:51
ICV NO3 0.5	21	QC	0.5	0.0450	1	1	1	0.4844		2024-09-21T03:02:59
ICV NO2 0.5	22	QC	?	0.0500	1	1	1	0.5389		2024-09-21T03:04:07
ICB	23	QC	0	0.0000	1	1	1	-0.0063		2024-09-21T03:04:53
BLANK NO3	24	Unknown	?	0.0001	1	1	1	-0.0054		2024-09-21T03:06:18
LCS NO3	25	Unknown	?	0.4425	1	1	1	4.8119		2024-09-21T03:07:31
BLANK NO2	26	Unknown	?	-0.0002	1	1	1	-0.0078		2024-09-21T03:08:13
LCS NO2	27	Unknown	?	0.4765	1	1	1	5.1814		2024-09-21T03:09:45
CCV NO3	28	QC	1	0.0853	1	1	1	0.9232		2024-09-21T03:10:51
CCV NO2	29	QC	?	0.0888	1	1	1	0.9609		2024-09-21T03:11:56
CCB	30	QC	0	0.0000	1	1	1	-0.0059		2024-09-21T03:12:43
WG1974468-1; WG1974469-1	31	Unknown	?	0.0001	1	1	1	-0.0051		2024-09-21T03:14:16
WG1974468-2;	32	Unknown	?	0.4361	1	1	1	4.7422		2024-09-21T03:15:22

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1974469-2										
WG1974470-1	33	Unknown	?	-0.0003	1	1	1	-0.0098		2024-09-21T03:16:00
WG1974470-2	34	Unknown	?	0.4371	1	1	1	4.7528		2024-09-21T03:17:33
WG1974471-1	35	Unknown	?	-0.0003	1	1	1	-0.0088		2024-09-21T03:18:11
WG1974471-2	36	Unknown	?	0.4402	1	1	1	4.7868		2024-09-21T03:19:45
WG1974472-1	37	Unknown	?	-0.0002	1	1	1	-0.0081		2024-09-21T03:20:26
WG1974472-2	38	Unknown	?	0.4428	1	1	1	4.8146		2024-09-21T03:22:00
WG1974474-1	39	Unknown	?	-0.0003	1	1	1	-0.0090		2024-09-21T03:22:39
WG1974474-2	40	Unknown	?	0.4490	1	1	1	4.8825		2024-09-21T03:24:13
CCV NO3	41	QC	1	0.0839	1	1	1	0.9079		2024-09-21T03:25:18
CCV NO2	42	QC	?	0.0887	1	1	1	0.9601		2024-09-21T03:26:24
CCB	43	QC	0	0.0000	1	1	1	-0.0063		2024-09-21T03:27:11
WG1974476-1	44	Unknown	?	0.0001	1	1	1	-0.0046		2024-09-21T03:28:46
WG1974476-2	45	Unknown	?	0.4482	1	1	1	4.8733		2024-09-21T03:29:52
L2453990-01	46	Unknown	?	-0.0003	1	1	1	-0.0093		2024-09-21T03:30:30
WG1974472-3	47	Unknown	?	0.0002	1	1	1	-0.0036		2024-09-21T03:32:04
WG1974472-4	48	Unknown	?	0.3585	1	1	1	3.8968		2024-09-21T03:33:09
L2453990-02	49	Unknown	?	-0.0003	1	1	1	-0.0090		2024-09-21T03:33:46
L2453990-03	50	Unknown	?	0.0013	1	1	1	0.0084		2024-09-21T03:35:21
L2453990-04	51	Unknown	?	0.0012	1	1	1	0.0075		2024-09-21T03:36:25
L2453990-05	52	Unknown	?	0.0011	1	1	1	0.0058		2024-09-21T03:37:29
L2453990-06	53	Unknown	?	0.0025	1	1	1	0.0208		2024-09-21T03:38:40
CCV NO3	54	QC	1	0.0785	1	1	1	0.8485	QCR	2024-09-21T03:39:38
CCV NO2	55	QC	?	0.0815	1	1	1	0.8818		2024-09-21T03:40:44
CCB	56	QC	0	0.0000	1	1	1	-0.0063		2024-09-21T03:41:31
L2453990-07	57	Unknown	?	0.0009	1	1	1	0.0034		2024-09-21T03:43:07
L2453990-08	58	Unknown	?	0.0028	1	1	1	0.0249		2024-09-21T03:44:18
L2453990-09	59	Unknown	?	0.0025	1	1	1	0.0210		2024-09-21T03:45:34
L2453576-06	60	Unknown	?	0.0033	1	1	1	0.0304		2024-09-21T03:46:27
L2454051-01	61	Unknown	?	0.0048	1	1	1	0.0468		2024-09-21T03:47:33
WG1974470-5	62	Unknown	?	0.0044	1	1	1	0.0423		2024-09-21T03:48:40
WG1974470-6	63	Unknown	?	0.0001	1	1	1	-0.0045		2024-09-21T03:49:30

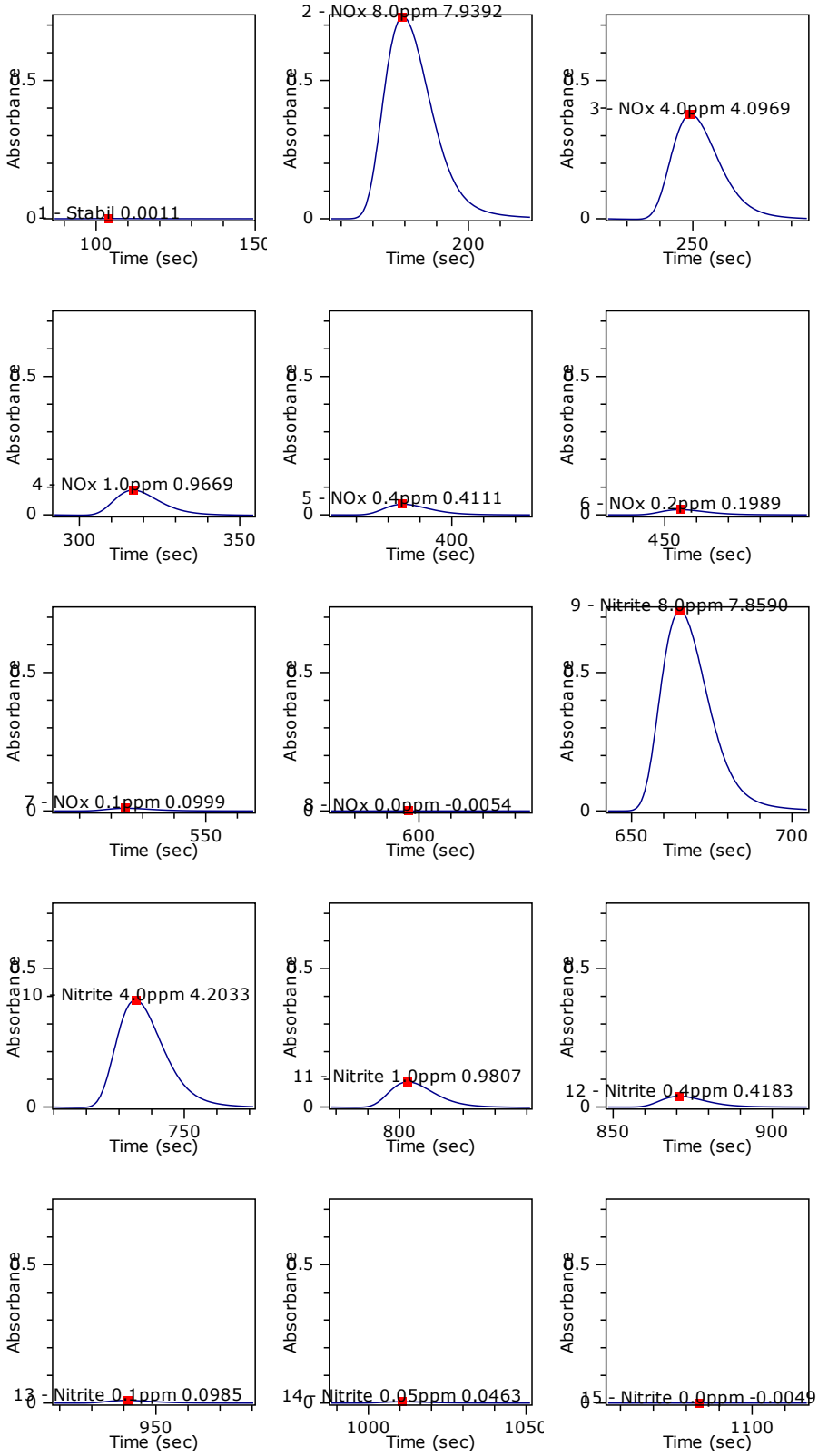
Channel: 2-NO2

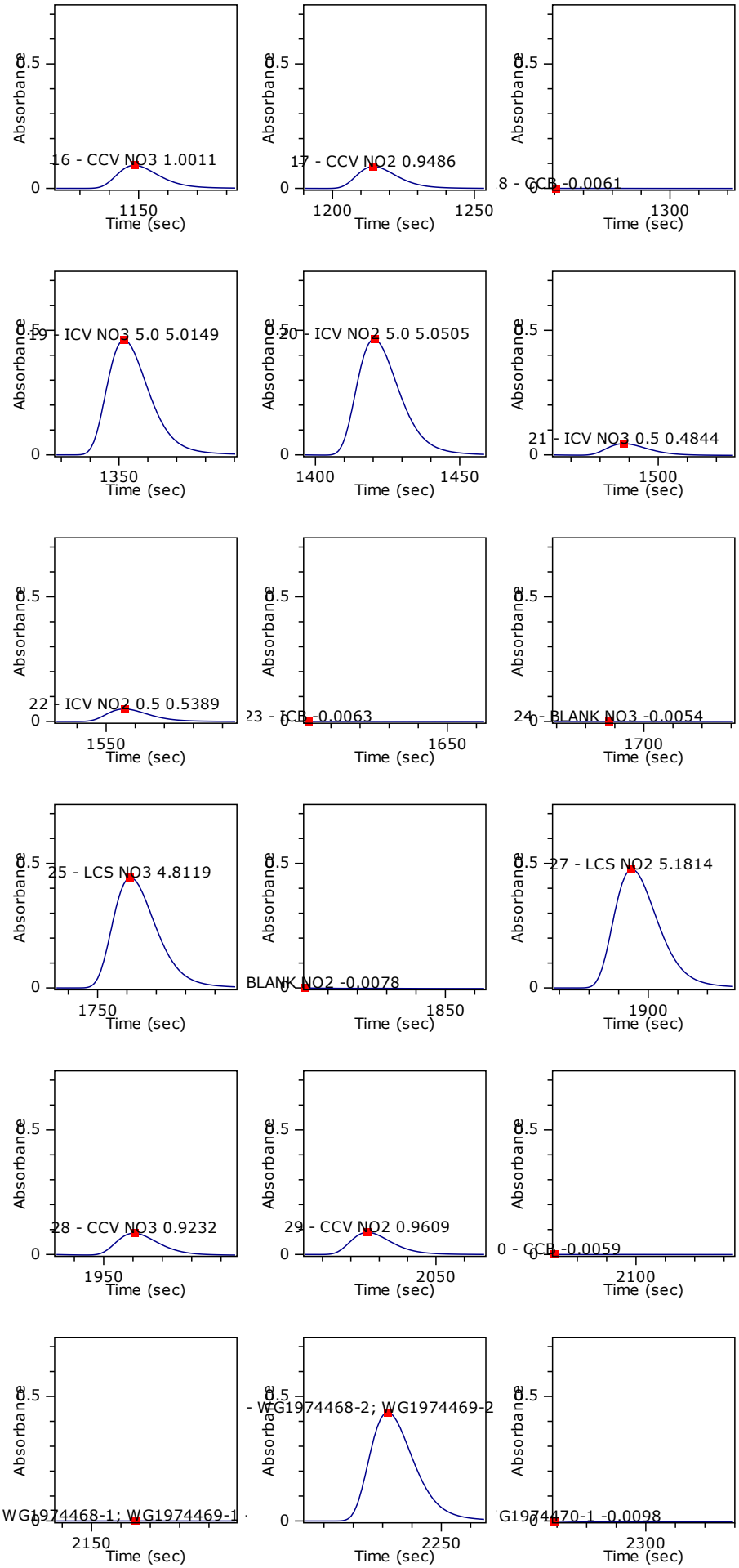
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0033		2024-09-21T02:39:59
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0031		2024-09-21T02:40:57
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0029		2024-09-21T02:42:09
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0028		2024-09-21T02:43:12
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0032		2024-09-21T02:44:25
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0033		2024-09-21T02:45:31
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0033		2024-09-21T02:46:42
NOx 0.0ppm	8	Standard	?	0.0001	1	1	1	-0.0032		2024-09-21T02:47:54
Nitrite 8.0ppm	9	Standard	8	0.9905	1	1	1	7.5102		2024-09-21T02:49:04
Nitrite 4.0ppm	10	Standard	4	0.5437	1	1	1	4.1209		2024-09-21T02:50:14
Nitrite 1.0ppm	11	Standard	1	0.1304	1	1	1	0.9856		2024-09-21T02:51:20
Nitrite 0.4ppm	12	Standard	0.4	0.0562	1	1	1	0.4227		2024-09-21T02:52:30
Nitrite 0.1ppm	13	Standard	0.1	0.0140	1	1	1	0.1025		2024-09-21T02:53:40
Nitrite 0.05ppm	14	Standard	0.05	0.0070	1	1	1	0.0491		2024-09-21T02:54:50
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0028		2024-09-21T02:56:15
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0029		2024-09-21T02:57:08
CCV NO2	17	QC	1	0.1275	1	1	1	0.9634		2024-09-21T02:58:12
CCB	18	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T02:59:27
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0029		2024-09-21T03:00:35
ICV NO2 5.0	20	QC	5	0.6586	1	1	1	4.9926		2024-09-21T03:01:40
ICV NO3 0.5	21	QC	?	0.0002	1	1	1	-0.0024		2024-09-21T03:02:48
ICV NO2 0.5	22	QC	0.5	0.0702	1	1	1	0.5287		2024-09-21T03:03:56
ICB	23	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T03:05:03
BLANK NO3	24	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T03:06:23
LCS NO3	25	Unknown	?	0.0000	1	1	1	-0.0034		2024-09-21T03:07:34
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T03:08:34
LCS NO2	27	Unknown	?	0.6563	1	1	1	4.9746		2024-09-21T03:09:33
CCV NO3	28	QC	?	0.0002	1	1	1	-0.0022		2024-09-21T03:10:39
CCV NO2	29	QC	1	0.1297	1	1	1	0.9799		2024-09-21T03:11:44
CCB	30	QC	0	0.0001	1	1	1	-0.0033		2024-09-21T03:12:57
WG1974468-1; WG1974469-1	31	Unknown	?	0.0001	1	1	1	-0.0034		2024-09-21T03:14:07
WG1974468-2;	32	Unknown	?	0.6273	1	1	1	4.7551		2024-09-21T03:15:08

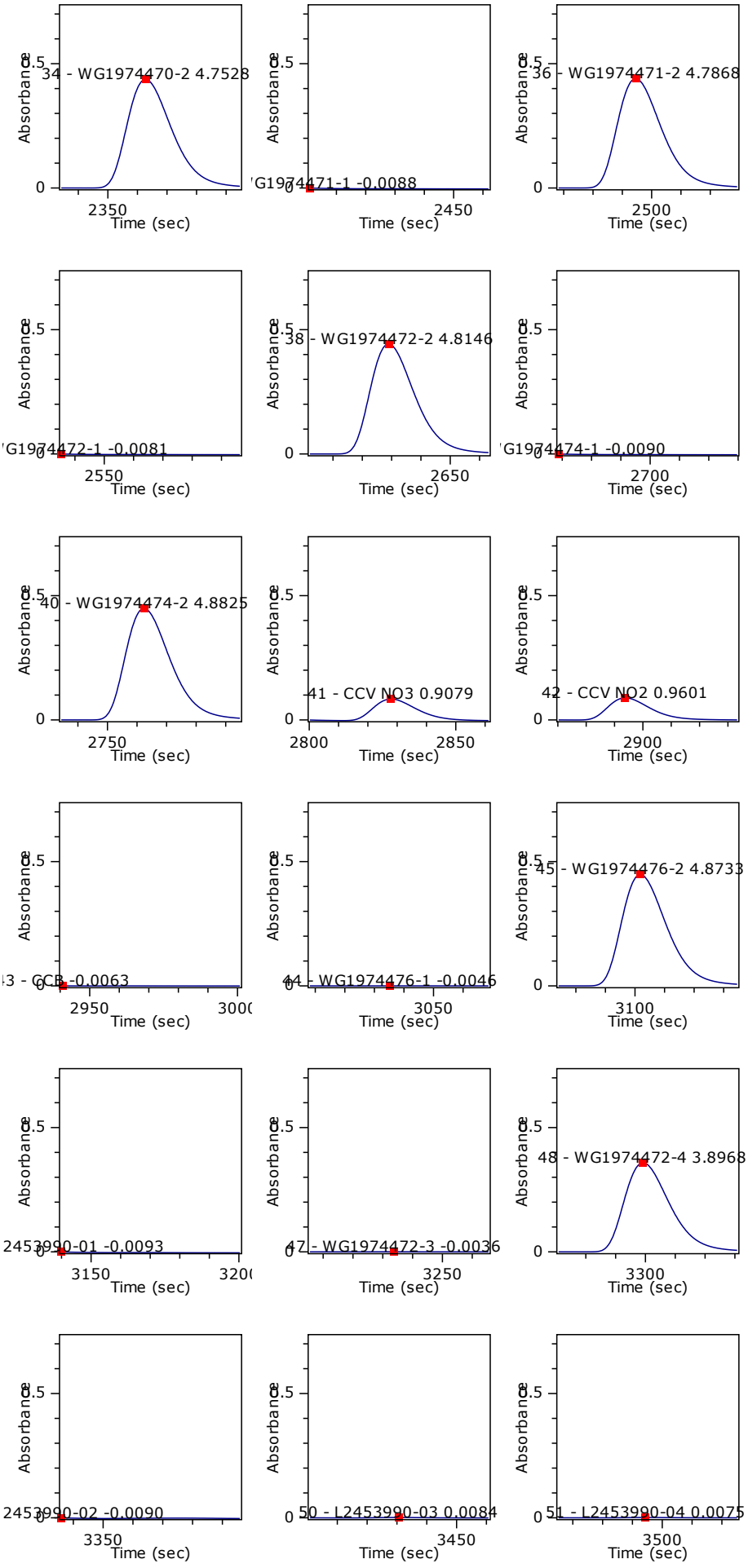
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1974469-2										
WG1974470-1	33	Unknown	?	0.0001	1	1	1	-0.0031		2024-09-21T03:16:15
WG1974470-2	34	Unknown	?	0.0001	1	1	1	-0.0031		2024-09-21T03:17:25
WG1974471-1	35	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T03:18:44
WG1974471-2	36	Unknown	?	0.0001	1	1	1	-0.0031		2024-09-21T03:19:35
WG1974472-1	37	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T03:20:47
WG1974472-2	38	Unknown	?	0.0000	1	1	1	-0.0034		2024-09-21T03:21:57
WG1974474-1	39	Unknown	?	0.0001	1	1	1	-0.0034		2024-09-21T03:23:08
WG1974474-2	40	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T03:23:53
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0027		2024-09-21T03:25:04
CCV NO2	42	QC	1	0.1257	1	1	1	0.9494		2024-09-21T03:26:11
CCB	43	QC	0	0.0001	1	1	1	-0.0027		2024-09-21T03:27:22
WG1974476-1	44	Unknown	?	0.0000	1	1	1	-0.0036		2024-09-21T03:28:39
WG1974476-2	45	Unknown	?	0.0001	1	1	1	-0.0033		2024-09-21T03:29:42
L2453990-01	46	Unknown	?	0.0002	1	1	1	-0.0024		2024-09-21T03:30:43
WG1974472-3	47	Unknown	?	0.0002	1	1	1	-0.0023		2024-09-21T03:31:52
WG1974472-4	48	Unknown	?	0.0002	1	1	1	-0.0019		2024-09-21T03:32:52
L2453990-02	49	Unknown	?	0.0102	1	1	1	0.0737		2024-09-21T03:34:02
L2453990-03	50	Unknown	?	0.0008	1	1	1	0.0024		2024-09-21T03:35:06
L2453990-04	51	Unknown	?	0.0008	1	1	1	0.0023		2024-09-21T03:36:10
L2453990-05	52	Unknown	?	0.0007	1	1	1	0.0015		2024-09-21T03:37:15
L2453990-06	53	Unknown	?	0.0038	1	1	1	0.0253		2024-09-21T03:38:19
CCV NO3	54	QC	?	0.0001	1	1	1	-0.0031		2024-09-21T03:39:24
CCV NO2	55	QC	1	0.1272	1	1	1	0.9610		2024-09-21T03:40:30
CCB	56	QC	0	0.0001	1	1	1	-0.0030		2024-09-21T03:41:40
L2453990-07	57	Unknown	?	0.0008	1	1	1	0.0022		2024-09-21T03:42:51
L2453990-08	58	Unknown	?	0.0028	1	1	1	0.0173		2024-09-21T03:44:00
L2453990-09	59	Unknown	?	0.0101	1	1	1	0.0732		2024-09-21T03:45:08
L2453576-06	60	Unknown	?	0.0009	1	1	1	0.0033		2024-09-21T03:46:13
L2454051-01	61	Unknown	?	0.0024	1	1	1	0.0141		2024-09-21T03:47:20
WG1974470-5	62	Unknown	?	0.0018	1	1	1	0.0096		2024-09-21T03:48:26
WG1974470-6	63	Unknown	?	0.0018	1	1	1	0.0099		2024-09-21T03:49:30

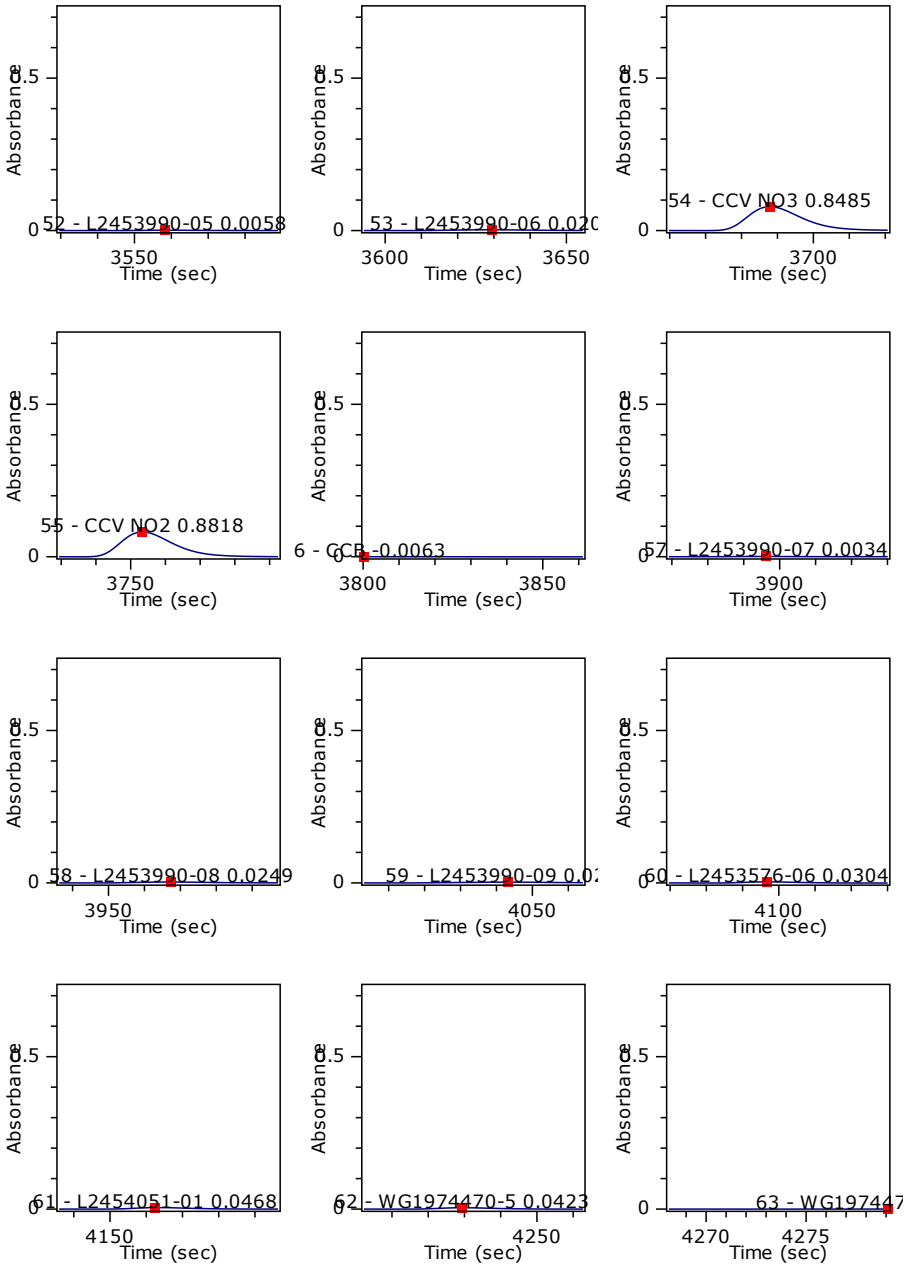
Peaks:

Channel: 1-NOx

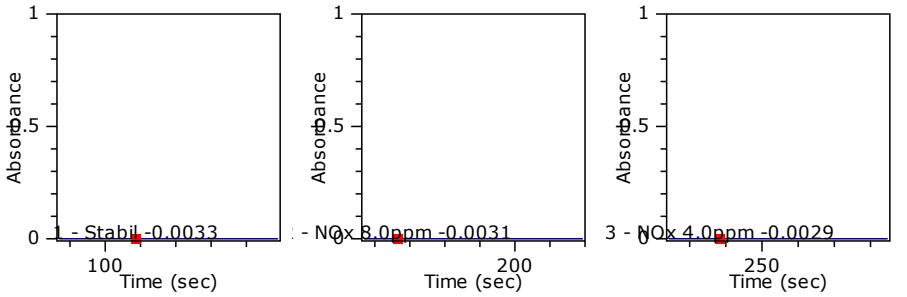


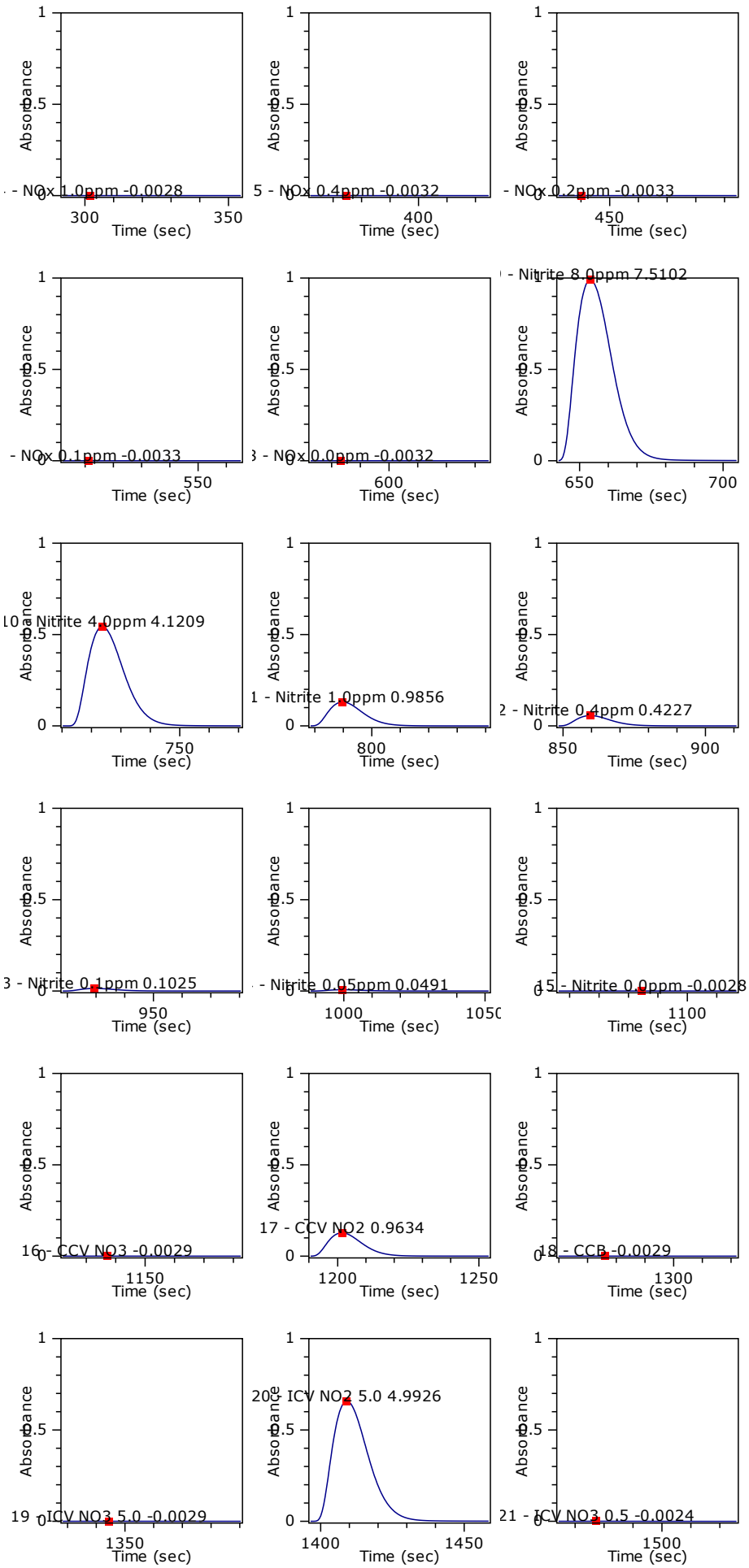

16 - CCV NO3 1.0011
17 - CCV NO2 0.9486
8 - GCB -0.0061
19 - ICV NO3 5.0 5.0149
20 - ICV NO2 5.0 5.0505
21 - ICV NO3 0.5 0.4844
22 - ICV NO2 0.5 0.5389
23 - ICB -0.0063
24 - BLANK NO3 -0.0054
25 - LCS NO3 4.8119
BLANK NO2 -0.0078
27 - LCS NO2 5.1814
28 - CCV NO3 0.9232
29 - CCV NO2 0.9609
0 - GCB -0.0059
- WG1974468-2; WG1974469-2
WG1974468-1; WG1974469-1
G1974470-1 -0.0098
Absorbance
Time (sec)

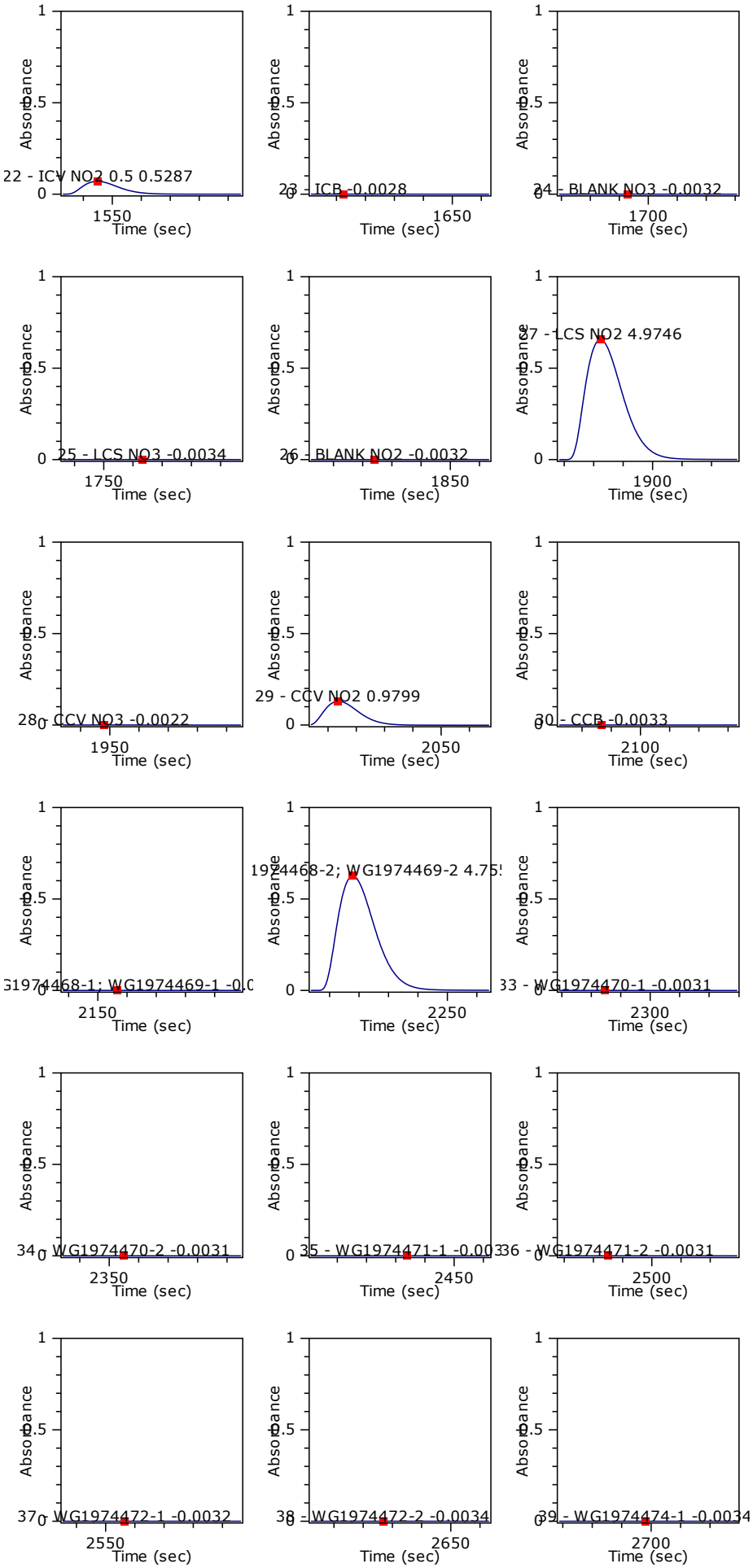

34 - WG1974470-2 4.7528
G1974471-1 -0.0088
36 - WG1974471-2 4.7868
G1974472-1 -0.0081
38 - WG1974472-2 4.8146
G1974474-1 -0.0090
40 - WG1974474-2 4.8825
41 - CCV NO3 0.9079
42 - CCV NO2 0.9601
3 - CCB -0.0063
44 - WG1974476-1 -0.0046
45 - WG1974476-2 4.8733
2453990-01 -0.0093
47 - WG1974472-3 -0.0036
48 - WG1974472-4 3.8968
2453990-02 -0.0090
50 - L2453990-03 0.0084
51 - L2453990-04 0.0075
Absorbance
Time (sec)

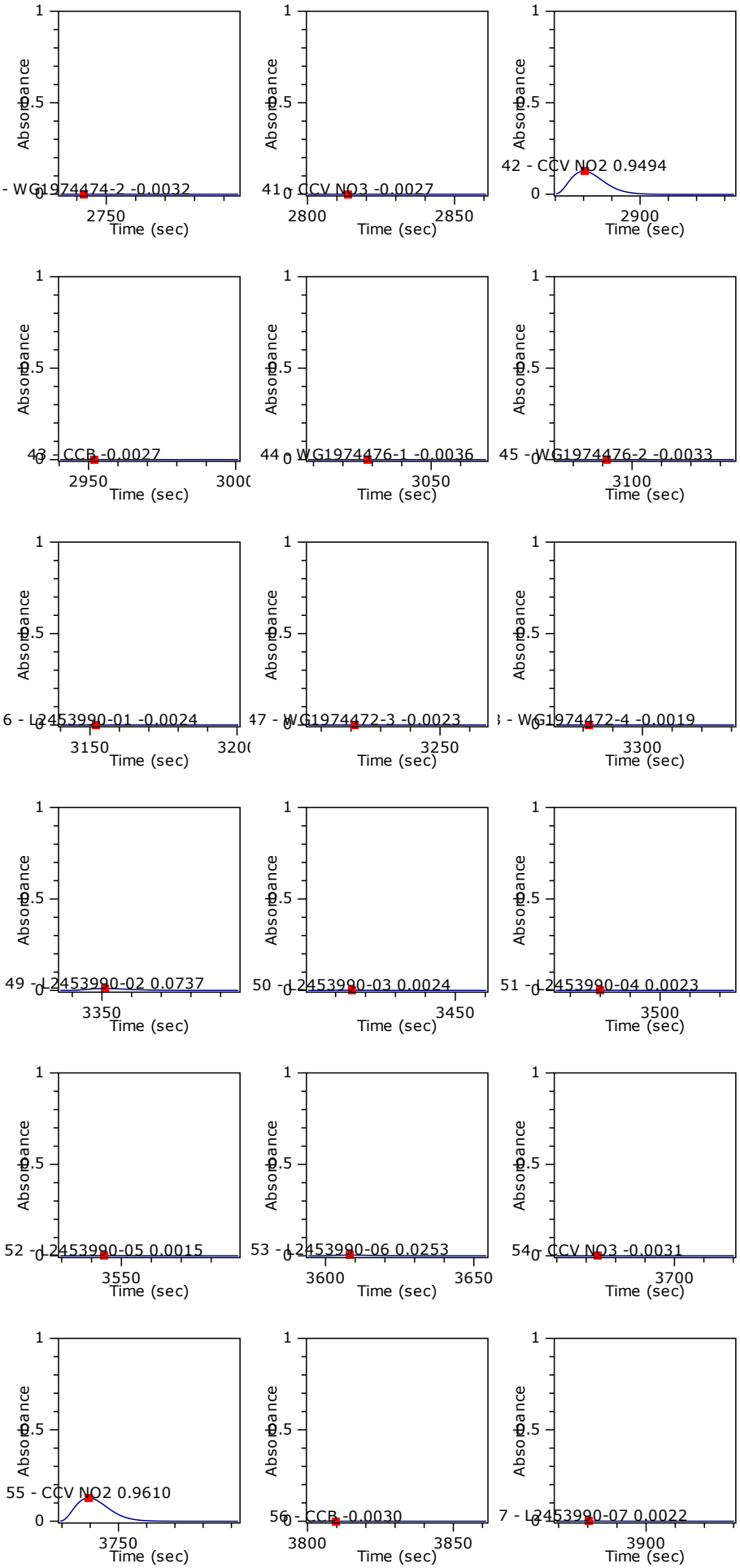


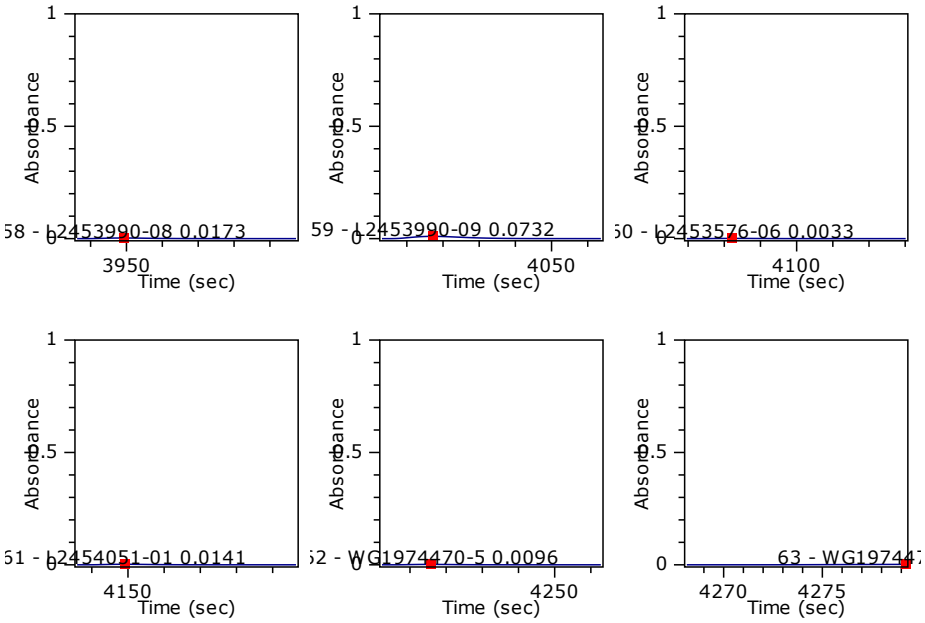
Channel: 2-NO2




- NOx 1.0ppm -0.0028
5 - NOx 0.4ppm -0.0032
- NOx 0.2ppm -0.0033
- NOx 0.1ppm -0.0033
3 - NOx 0.0ppm -0.0032
- Nitrite 8.0ppm 7.5102
10 - Nitrite 4.0ppm 4.1209
1 - Nitrite 1.0ppm 0.9856
2 - Nitrite 0.4ppm 0.4227
3 - Nitrite 0.1ppm 0.1025
- Nitrite 0.05ppm 0.0491
15 - Nitrite 0.0ppm -0.0028
16 - CCV NO3 -0.0029
17 - CCV NO2 0.9634
18 - CCB -0.0029
19 - ICV NO3 5.0 -0.0029
20 - ICV NO2 5.0 4.9926
21 - ICV NO3 0.5 -0.0024
Absorbance
Time (sec)


22 - ICV NO2 0.5 0.5287
23 - ICB -0.0028
24 - BLANK NO3 -0.0032
25 - LCS NO3 -0.0034
26 - BLANK NO2 -0.0032
27 - LCS NO2 4.9746
28 - CCV NO3 -0.0022
29 - CCV NO2 0.9799
30 - CCB -0.0033
31974468-1; WG1974469-1 -0.0
1974468-2; WG1974469-2 4.75
33 - WG1974470-1 -0.0031
34 - WG1974470-2 -0.0031
35 - WG1974471-1 -0.00
36 - WG1974471-2 -0.0031
37 - WG1974472-1 -0.0032
38 - WG1974472-2 -0.0034
39 - WG1974474-1 -0.0034
Absorbance
Time (sec)


- WG1974474-2 -0.0032
41 - CCV NO3 -0.0027
42 - CCV NO2 0.9494
43 - CCB -0.0027
44 - WG1974476-1 -0.0036
45 - WG1974476-2 -0.0033
6 - L2453990-01 -0.0024
47 - WG1974472-3 -0.0023
- WG1974472-4 -0.0019
49 - L2453990-02 0.0737
50 - L2453990-03 0.0024
51 - L2453990-04 0.0023
52 - L2453990-05 0.0015
53 - L2453990-06 0.0253
54 - CCV NO3 -0.0031
55 - CCV NO2 0.9610
56 - CCB -0.0030
7 - L2453990-07 0.0022
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 34.7
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T02:38:11

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

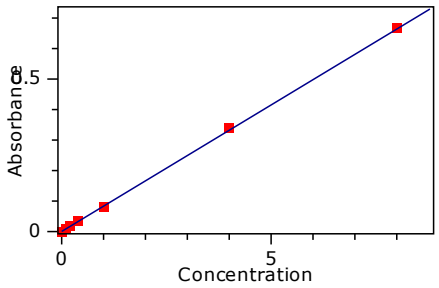
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 08:00:22
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-075958.dat

Dataset Notes:

Analyst	

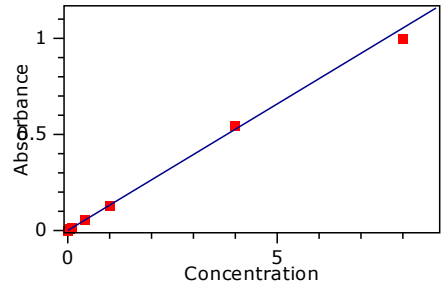
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00037
B: 0.08294
R^2: 0.99987
RSE(%): 2.47701
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.66720	8.00000	8.04000	0.50	2024-09-21T04:24:48
3	NOx 4.0ppm	0.34030	4.00000	4.09890	2.47	2024-09-21T04:25:59
4	NOx 1.0ppm	0.08010	1.00000	0.96080	3.92	2024-09-21T04:27:06
5	NOx 0.4ppm	0.03410	0.40000	0.40660	1.64	2024-09-21T04:28:13
6	NOx 0.2ppm	0.01690	0.20000	0.19930	0.34	2024-09-21T04:29:24
7	NOx 0.1ppm	0.00870	0.10000	0.10010	0.14	2024-09-21T04:30:34
8	NOx 0.0ppm	0.00010	0.00000	-0.00320	NA	2024-09-21T04:31:49



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00047
B: 0.13165
R^2: 0.99823
RSE(%): 4.38727
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.99500	8.00000	7.55440	5.57	2024-09-21T04:32:42
10	Nitrite 4.0ppm	0.54310	4.00000	4.12190	3.05	2024-09-21T04:33:52
11	Nitrite 1.0ppm	0.13000	1.00000	0.98370	1.63	2024-09-21T04:34:59
12	Nitrite 0.4ppm	0.05590	0.40000	0.42120	5.30	2024-09-21T04:36:09
13	Nitrite 0.1ppm	0.01390	0.10000	0.10190	1.90	2024-09-21T04:37:19
14	Nitrite 0.05ppm	0.00700	0.05000	0.04920	1.51	2024-09-21T04:38:29
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00290	NA	2024-09-21T04:39:42

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0030		2024-09-21T04:23:44
NOx 8.0ppm	2	Standard	8	0.6672	1	1	1	8.0400		2024-09-21T04:24:48
NOx 4.0ppm	3	Standard	4	0.3403	1	1	1	4.0989		2024-09-21T04:25:59
NOx 1.0ppm	4	Standard	1	0.0801	1	1	1	0.9608		2024-09-21T04:27:06
NOx 0.4ppm	5	Standard	0.4	0.0341	1	1	1	0.4066		2024-09-21T04:28:13
NOx 0.2ppm	6	Standard	0.2	0.0169	1	1	1	0.1993		2024-09-21T04:29:24
NOx 0.1ppm	7	Standard	0.1	0.0087	1	1	1	0.1001		2024-09-21T04:30:34
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	-0.0032		2024-09-21T04:31:49
Nitrite 8.0ppm	9	Standard	?	0.6643	1	1	1	8.0053		2024-09-21T04:32:54
Nitrite 4.0ppm	10	Standard	?	0.3538	1	1	1	4.2615		2024-09-21T04:34:04
Nitrite 1.0ppm	11	Standard	?	0.0833	1	1	1	0.9999		2024-09-21T04:35:12
Nitrite 0.4ppm	12	Standard	?	0.0352	1	1	1	0.4194		2024-09-21T04:36:20
Nitrite 0.1ppm	13	Standard	?	0.0087	1	1	1	0.0998		2024-09-21T04:37:31
Nitrite 0.05ppm	14	Standard	?	0.0044	1	1	1	0.0484		2024-09-21T04:38:40
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	-0.0036		2024-09-21T04:39:52
CCV NO3	16	QC	1	0.0840	1	1	1	1.0086		2024-09-21T04:40:58
CCV NO2	17	QC	?	0.0840	1	1	1	1.0084		2024-09-21T04:42:04
CCB	18	QC	0	0.0001	1	1	1	-0.0036		2024-09-21T04:43:10
ICV NO3 5.0	19	QC	5	0.4343	1	1	1	5.2321		2024-09-21T04:44:22
ICV NO2 5.0	20	QC	?	0.4362	1	1	1	5.2552		2024-09-21T04:45:31
ICV NO3 0.5	21	QC	0.5	0.0435	1	1	1	0.5206		2024-09-21T04:46:38
ICV NO2 0.5	22	QC	?	0.0451	1	1	1	0.5389		2024-09-21T04:47:47
ICB	23	QC	0	0.0000	1	1	1	-0.0042		2024-09-21T04:48:31
CCV NO3	24	QC	1	0.0840	1	1	1	1.0078		2024-09-21T04:50:04
CCV NO2	25	QC	?	0.0863	1	1	1	1.0363		2024-09-21T04:51:10
CCB	26	QC	0	0.0000	1	1	1	-0.0040		2024-09-21T04:52:21
WG1974476-1	27	Unknown	?	0.0000	1	1	1	-0.0041		2024-09-21T04:53:32
WG1974476-2	28	Unknown	?	0.4297	1	1	1	5.1761		2024-09-21T04:54:37
L2453990-01	29	Unknown	?	-0.0001	1	1	1	-0.0056		2024-09-21T04:55:16
WG1974472-3	30	Unknown	?	0.0002	1	1	1	-0.0018		2024-09-21T04:56:52
WG1974472-4	31	Unknown	?	0.3485	1	1	1	4.1978		2024-09-21T04:57:54
L2453990-02	32	Unknown	?	-0.0001	1	1	1	-0.0054		2024-09-21T04:58:32

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453990-03	33	Unknown	?	0.0010	1	1	1	0.0073		2024-09-21T05:00:05
L2453990-04	34	Unknown	?	0.0013	1	1	1	0.0110		2024-09-21T05:01:10
L2453990-05	35	Unknown	?	0.0008	1	1	1	0.0051		2024-09-21T05:02:15
L2453990-06	36	Unknown	?	0.0015	1	1	1	0.0135		2024-09-21T05:03:22
CCV NO3	37	QC	1	0.0798	1	1	1	0.9572		2024-09-21T05:04:23
CCV NO2	38	QC	?	0.0821	1	1	1	0.9860		2024-09-21T05:05:28
CCB	39	QC	0	0.0000	1	1	1	-0.0047		2024-09-21T05:06:14
L2453990-07	40	Unknown	?	0.0008	1	1	1	0.0054		2024-09-21T05:07:48
L2453990-08	41	Unknown	?	0.0015	1	1	1	0.0135		2024-09-21T05:08:57
L2453990-09	42	Unknown	?	0.0013	1	1	1	0.0115		2024-09-21T05:10:12
L2453576-06	43	Unknown	?	0.0036	1	1	1	0.0386		2024-09-21T05:11:07
L2454051-01	44	Unknown	?	0.0048	1	1	1	0.0531		2024-09-21T05:12:14
WG1974470-5	45	Unknown	?	0.0044	1	1	1	0.0480		2024-09-21T05:13:20
WG1974470-6	46	Unknown	?	0.3427	1	1	1	4.1278		2024-09-21T05:14:26
L2454051-02	47	Unknown	?	0.0026	1	1	1	0.0273		2024-09-21T05:15:33
L2454051-03	48	Unknown	?	0.0009	1	1	1	0.0066		2024-09-21T05:16:38
L2454051-04	49	Unknown	?	0.0029	1	1	1	0.0308		2024-09-21T05:17:43
CCV NO3	50	QC	1	0.0813	1	1	1	0.9754		2024-09-21T05:18:49
CCV NO2	51	QC	?	0.0824	1	1	1	0.9887		2024-09-21T05:19:55
CCB	52	QC	0	0.0001	1	1	1	-0.0034		2024-09-21T05:21:02
L2454051-05	53	Unknown	?	0.0007	1	1	1	0.0041		2024-09-21T05:22:14
L2454181-02	54	Unknown	?	1.2938	1	1	1	15.5956	OVR	2024-09-21T05:23:35
WG1974470-3	55	Unknown	?	1.2541	1	1	1	15.1172	OVR	2024-09-21T05:24:40
WG1974470-4	56	Unknown	?	1.2465	1	1	1	15.0248	OVR	2024-09-21T05:25:44
WG1974468-3	57	Unknown	?	1.2497	1	1	1	15.0644	OVR	2024-09-21T05:26:49
WG1974468-4	58	Unknown	?	1.2591	1	1	1	15.1778	OVR	2024-09-21T05:27:54
L2454221-01	59	Unknown	?	0.1047	1	1	1	1.2574		2024-09-21T05:28:48
L2454326-01	60	Unknown	?	0.3449	1	1	1	4.1542		2024-09-21T05:29:55
L2454350-01	61	Unknown	?	0.2308	1	1	1	2.7780		2024-09-21T05:31:02
L2454013-01	62	Unknown	?	0.0026	1	1	1	0.0274		2024-09-21T05:32:08
CCV NO3	63	QC	1	0.0832	1	1	1	0.9992		2024-09-21T05:33:14
CCV NO2	64	QC	?	0.0841	1	1	1	1.0097		2024-09-21T05:34:20
CCB	65	QC	0	0.0001	1	1	1	-0.0032		2024-09-21T05:35:33

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454312-02	66	Unknown	?	0.2016	1	1	1	2.4257		2024-09-21T05:36:40
L2454312-03	67	Unknown	?	0.3402	1	1	1	4.0976		2024-09-21T05:37:48
L2454312-04	68	Unknown	?	0.0138	1	1	1	0.1624		2024-09-21T05:38:54
L2454324-01	69	Unknown	?	0.0014	1	1	1	0.0125		2024-09-21T05:39:59
WG1974471-3	70	Unknown	?	0.0016	1	1	1	0.0143		2024-09-21T05:41:06
WG1974471-4	71	Unknown	?	0.3856	1	1	1	4.6452		2024-09-21T05:42:10
WG1974469-3	72	Unknown	?	0.0008	1	1	1	0.0051		2024-09-21T05:43:15
WG1974469-4	73	Unknown	?	0.3638	1	1	1	4.3816		2024-09-21T05:44:20
L2454324-02	74	Unknown	?	0.0017	1	1	1	0.0166		2024-09-21T05:45:24
L2454324-03	75	Unknown	?	0.0052	1	1	1	0.0584		2024-09-21T05:46:30
CCV NO3	76	QC	1	0.0846	1	1	1	1.0153		2024-09-21T05:47:34
CCV NO2	77	QC	?	0.0844	1	1	1	1.0127		2024-09-21T05:48:39
CCB	78	QC	0	0.0001	1	1	1	-0.0030		2024-09-21T05:49:56
L2454324-04	79	Unknown	?	0.0866	1	1	1	1.0393		2024-09-21T05:51:00
L2454324-05	80	Unknown	?	0.0007	1	1	1	0.0039		2024-09-21T05:52:09
L2454324-06	81	Unknown	?	0.0198	1	1	1	0.2348		2024-09-21T05:53:16
L2454324-07	82	Unknown	?	0.0291	1	1	1	0.3470		2024-09-21T05:54:23
L2452564-01	83	Unknown	?	0.0082	1	1	1	0.0940		2024-09-21T05:55:29
L2452564-02	84	Unknown	?	0.0009	1	1	1	0.0058		2024-09-21T05:56:38
L2453362-01	85	Unknown	?	0.0001	1	1	1	-0.0034		2024-09-21T05:57:43
WG1974474-3	86	Unknown	?	0.0002	1	1	1	-0.0025		2024-09-21T05:58:48
WG1974474-4	87	Unknown	?	0.3527	1	1	1	4.2487		2024-09-21T05:59:53
L2453559-02	88	Unknown	?	0.2239	1	1	1	2.6956		2024-09-21T06:00:59
CCV NO3	89	QC	1	0.0836	1	1	1	1.0038		2024-09-21T06:02:03
CCV NO2	90	QC	?	0.0842	1	1	1	1.0109		2024-09-21T06:03:09
CCB	91	QC	0	0.0001	1	1	1	-0.0032		2024-09-21T06:04:19
L2453559-04	92	Unknown	?	0.2496	1	1	1	3.0056		2024-09-21T06:05:27
L2453559-07	93	Unknown	?	0.1071	1	1	1	1.2871		2024-09-21T06:06:34
L2453562-01	94	Unknown	?	0.5325	1	1	1	6.4156		2024-09-21T06:07:39
L2453851-01	95	Unknown	?	0.0013	1	1	1	0.0108		2024-09-21T06:08:43
L2453851-02	96	Unknown	?	0.7380	1	1	1	8.8936	OVR	2024-09-21T06:09:48
L2453950-01	97	Unknown	?	0.0266	1	1	1	0.3163		2024-09-21T06:10:54
L2454072-01	98	Unknown	?	0.0327	1	1	1	0.3897		2024-09-21T06:12:01

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454081-01	99	Unknown	?	0.1412	1	1	1	1.6976		2024-09-21T06:13:08
WG1974474-5	100	Unknown	?	0.1418	1	1	1	1.7057		2024-09-21T06:14:15
WG1974474-6	101	Unknown	?	0.4965	1	1	1	5.9825		2024-09-21T06:15:22
CCV NO3	102	QC	1	0.0830	1	1	1	0.9966		2024-09-21T06:16:27
CCV NO2	103	QC	?	0.0842	1	1	1	1.0105		2024-09-21T06:17:33
CCB	104	QC	0	0.0002	1	1	1	-0.0024		2024-09-21T06:18:44
L2454081-02	105	Unknown	?	0.1422	1	1	1	1.7106		2024-09-21T06:19:54
L2453053-01	106	Unknown	?	0.0776	1	1	1	0.9306		2024-09-21T06:21:01
WG1974476-3	107	Unknown	?	0.0780	1	1	1	0.9364		2024-09-21T06:22:08
WG1974476-4	108	Unknown	?	0.4303	1	1	1	5.1840		2024-09-21T06:23:14
L2453053-02	109	Unknown	?	0.0975	1	1	1	1.1707		2024-09-21T06:24:19
L2453053-03	110	Unknown	?	0.0666	1	1	1	0.7983		2024-09-21T06:25:24
L2453053-04	111	Unknown	?	0.0303	1	1	1	0.3607		2024-09-21T06:26:29
L2453053-05	112	Unknown	?	0.0979	1	1	1	1.1762		2024-09-21T06:27:35
L2453123-02	113	Unknown	?	0.1524	1	1	1	1.8333		2024-09-21T06:28:40
L2453131-01	114	Unknown	?	0.0768	1	1	1	0.9215		2024-09-21T06:29:45
CCV NO3	115	QC	1	0.0836	1	1	1	1.0036		2024-09-21T06:30:50
CCV NO2	116	QC	?	0.0841	1	1	1	1.0101		2024-09-21T06:31:56
CCB	117	QC	0	0.0001	1	1	1	-0.0033		2024-09-21T06:33:08
L2453131-02	118	Unknown	?	0.4284	1	1	1	5.1604		2024-09-21T06:34:17
L2453342-01	119	Unknown	?	0.0429	1	1	1	0.5123		2024-09-21T06:35:27
L2453342-02	120	Unknown	?	0.0701	1	1	1	0.8411		2024-09-21T06:36:33
L2453342-03	121	Unknown	?	0.2070	1	1	1	2.4920		2024-09-21T06:37:40
L2453342-04	122	Unknown	?	0.3501	1	1	1	4.2169		2024-09-21T06:38:47
L2453342-05	123	Unknown	?	0.0026	1	1	1	0.0273		2024-09-21T06:39:53
L2453342-06	124	Unknown	?	0.0201	1	1	1	0.2380		2024-09-21T06:40:59
L2453342-07	125	Unknown	?	0.1560	1	1	1	1.8765		2024-09-21T06:42:06
L2453342-08	126	Unknown	?	0.0753	1	1	1	0.9032		2024-09-21T06:43:11
L2453342-10	127	Unknown	?	0.0008	1	1	1	0.0050		2024-09-21T06:44:16
CCV NO3	128	QC	1	0.0834	1	1	1	1.0009		2024-09-21T06:45:22
CCV NO2	129	QC	?	0.0833	1	1	1	1.0000		2024-09-21T06:46:28
CCB	130	QC	0	0.0001	1	1	1	-0.0031		2024-09-21T06:47:38
L2454221-01	131	Unknown	?	0.1136	1	1	1	1.3648		2024-09-21T06:48:49

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453950-01	132	Unknown	?	0.0264	1	1	1	0.3135		2024-09-21T06:49:59
CCV NO3	133	QC	1	0.0839	1	1	1	1.0073		2024-09-21T06:51:04
CCV NO2	134	QC	?	0.0836	1	1	1	1.0032		2024-09-21T06:52:10
CCB	135	QC	0	0.0000	1	1	1	-0.0043		2024-09-21T06:53:19

Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0000	1	1	1	-0.0033		2024-09-21T04:23:22
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0028		2024-09-21T04:24:36
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0028		2024-09-21T04:25:49
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0028		2024-09-21T04:26:54
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0030		2024-09-21T04:28:03
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0030		2024-09-21T04:29:14
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0029		2024-09-21T04:30:21
NOx 0.0ppm	8	Standard	?	0.0001	1	1	1	-0.0029		2024-09-21T04:31:34
Nitrite 8.0ppm	9	Standard	8	0.9950	1	1	1	7.5544		2024-09-21T04:32:42
Nitrite 4.0ppm	10	Standard	4	0.5431	1	1	1	4.1219		2024-09-21T04:33:52
Nitrite 1.0ppm	11	Standard	1	0.1300	1	1	1	0.9837		2024-09-21T04:34:59
Nitrite 0.4ppm	12	Standard	0.4	0.0559	1	1	1	0.4212		2024-09-21T04:36:09
Nitrite 0.1ppm	13	Standard	0.1	0.0139	1	1	1	0.1019		2024-09-21T04:37:19
Nitrite 0.05ppm	14	Standard	0.05	0.0070	1	1	1	0.0492		2024-09-21T04:38:29
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0029		2024-09-21T04:39:42
CCV NO3	16	QC	?	0.0002	1	1	1	-0.0021		2024-09-21T04:40:43
CCV NO2	17	QC	1	0.1294	1	1	1	0.9793		2024-09-21T04:41:51
CCB	18	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T04:43:01
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0032		2024-09-21T04:44:11
ICV NO2 5.0	20	QC	5	0.6515	1	1	1	4.9451		2024-09-21T04:45:19
ICV NO3 0.5	21	QC	?	0.0001	1	1	1	-0.0026		2024-09-21T04:46:26
ICV NO2 0.5	22	QC	0.5	0.0696	1	1	1	0.5251		2024-09-21T04:47:34
ICB	23	QC	0	0.0001	1	1	1	-0.0030		2024-09-21T04:48:44
CCV NO3	24	QC	?	0.0001	1	1	1	-0.0025		2024-09-21T04:49:52
CCV NO2	25	QC	1	0.1302	1	1	1	0.9856		2024-09-21T04:50:57
CCB	26	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T04:52:11
WG1974476-	27	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
1										21T04:53:13
WG1974476-2	28	Unknown	?	0.0001	1	1	1	-0.0029		2024-09-21T04:54:49
L2453990-01	29	Unknown	?	0.0002	1	1	1	-0.0024		2024-09-21T04:55:29
WG1974472-3	30	Unknown	?	0.0001	1	1	1	-0.0026		2024-09-21T04:56:37
WG1974472-4	31	Unknown	?	0.0003	1	1	1	-0.0016		2024-09-21T04:57:40
L2453990-02	32	Unknown	?	0.0104	1	1	1	0.0754		2024-09-21T04:58:47
L2453990-03	33	Unknown	?	0.0009	1	1	1	0.0029		2024-09-21T04:59:51
L2453990-04	34	Unknown	?	0.0008	1	1	1	0.0027		2024-09-21T05:00:55
L2453990-05	35	Unknown	?	0.0007	1	1	1	0.0016		2024-09-21T05:01:59
L2453990-06	36	Unknown	?	0.0038	1	1	1	0.0256		2024-09-21T05:03:04
CCV NO3	37	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T05:04:10
CCV NO2	38	QC	1	0.1295	1	1	1	0.9800		2024-09-21T05:05:15
CCB	39	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T05:06:24
L2453990-07	40	Unknown	?	0.0008	1	1	1	0.0022		2024-09-21T05:07:33
L2453990-08	41	Unknown	?	0.0028	1	1	1	0.0173		2024-09-21T05:08:41
L2453990-09	42	Unknown	?	0.0103	1	1	1	0.0745		2024-09-21T05:09:49
L2453576-06	43	Unknown	?	0.0010	1	1	1	0.0040		2024-09-21T05:10:54
L2454051-01	44	Unknown	?	0.0024	1	1	1	0.0147		2024-09-21T05:12:01
WG1974470-5	45	Unknown	?	0.0018	1	1	1	0.0099		2024-09-21T05:13:07
WG1974470-6	46	Unknown	?	0.0020	1	1	1	0.0115		2024-09-21T05:14:13
L2454051-02	47	Unknown	?	0.0016	1	1	1	0.0084		2024-09-21T05:15:19
L2454051-03	48	Unknown	?	0.0008	1	1	1	0.0025		2024-09-21T05:16:25
L2454051-04	49	Unknown	?	0.0009	1	1	1	0.0030		2024-09-21T05:17:29
CCV NO3	50	QC	?	0.0001	1	1	1	-0.0030		2024-09-21T05:18:35
CCV NO2	51	QC	1	0.1302	1	1	1	0.9851		2024-09-21T05:19:41
CCB	52	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T05:20:53
L2454051-05	53	Unknown	?	0.0008	1	1	1	0.0025		2024-09-21T05:22:00
L2454181-02	54	Unknown	?	0.2165	1	1	1	1.6410		2024-09-21T05:23:07
WG1974470-3	55	Unknown	?	0.2175	1	1	1	1.6482		2024-09-21T05:24:11
WG1974470-4	56	Unknown	?	0.2125	1	1	1	1.6105		2024-09-21T05:25:16
WG1974468-3	57	Unknown	?	0.2176	1	1	1	1.6495		2024-09-21T05:26:20
WG1974468-4	58	Unknown	?	0.7297	1	1	1	5.5391		2024-09-21T05:27:28
L2454221-01	59	Unknown	?	0.0076	1	1	1	0.0541		2024-09-21T05:28:35

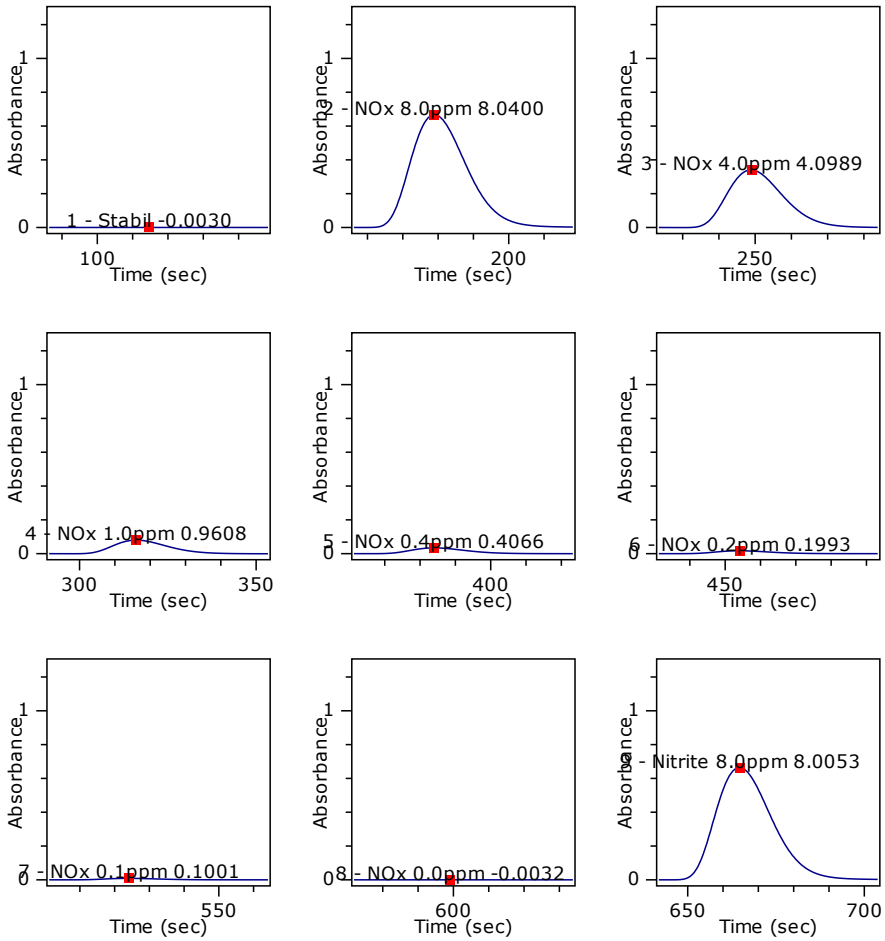
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454326-01	60	Unknown	?	0.0124	1	1	1	0.0904		2024-09-21T05:29:42
L2454350-01	61	Unknown	?	0.2165	1	1	1	1.6408		2024-09-21T05:30:49
L2454013-01	62	Unknown	?	0.0026	1	1	1	0.0164		2024-09-21T05:31:55
CCV NO3	63	QC	?	0.0001	1	1	1	-0.0025		2024-09-21T05:33:00
CCV NO2	64	QC	1	0.1301	1	1	1	0.9843		2024-09-21T05:34:06
CCB	65	QC	0	0.0001	1	1	1	-0.0026		2024-09-21T05:35:19
L2454312-02	66	Unknown	?	0.0013	1	1	1	0.0060		2024-09-21T05:36:26
L2454312-03	67	Unknown	?	0.0008	1	1	1	0.0024		2024-09-21T05:37:34
L2454312-04	68	Unknown	?	0.0008	1	1	1	0.0023		2024-09-21T05:38:40
L2454324-01	69	Unknown	?	0.0016	1	1	1	0.0089		2024-09-21T05:39:46
WG1974471-3	70	Unknown	?	0.0016	1	1	1	0.0089		2024-09-21T05:40:51
WG1974471-4	71	Unknown	?	0.0041	1	1	1	0.0276		2024-09-21T05:41:56
WG1974469-3	72	Unknown	?	0.0017	1	1	1	0.0094		2024-09-21T05:43:01
WG1974469-4	73	Unknown	?	0.5421	1	1	1	4.1144		2024-09-21T05:44:05
L2454324-02	74	Unknown	?	0.0026	1	1	1	0.0163		2024-09-21T05:45:10
L2454324-03	75	Unknown	?	0.0024	1	1	1	0.0145		2024-09-21T05:46:15
CCV NO3	76	QC	?	0.0001	1	1	1	-0.0027		2024-09-21T05:47:21
CCV NO2	77	QC	1	0.1298	1	1	1	0.9821		2024-09-21T05:48:26
CCB	78	QC	0	0.0001	1	1	1	-0.0027		2024-09-21T05:49:39
L2454324-04	79	Unknown	?	0.0010	1	1	1	0.0039		2024-09-21T05:50:47
L2454324-05	80	Unknown	?	0.0009	1	1	1	0.0030		2024-09-21T05:51:56
L2454324-06	81	Unknown	?	0.0007	1	1	1	0.0016		2024-09-21T05:53:03
L2454324-07	82	Unknown	?	0.0007	1	1	1	0.0016		2024-09-21T05:54:09
L2452564-01	83	Unknown	?	0.0010	1	1	1	0.0037		2024-09-21T05:55:16
L2452564-02	84	Unknown	?	0.0007	1	1	1	0.0017		2024-09-21T05:56:21
L2453362-01	85	Unknown	?	0.0004	1	1	1	-0.0008		2024-09-21T05:57:26
WG1974474-3	86	Unknown	?	0.0004	1	1	1	-0.0008		2024-09-21T05:58:32
WG1974474-4	87	Unknown	?	0.0024	1	1	1	0.0148		2024-09-21T05:59:39
L2453559-02	88	Unknown	?	0.0026	1	1	1	0.0159		2024-09-21T06:00:45
CCV NO3	89	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T06:01:49
CCV NO2	90	QC	1	0.1299	1	1	1	0.9832		2024-09-21T06:02:55
CCB	91	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T06:04:09
L2453559-04	92	Unknown	?	0.0029	1	1	1	0.0186		2024-09-21T06:05:13

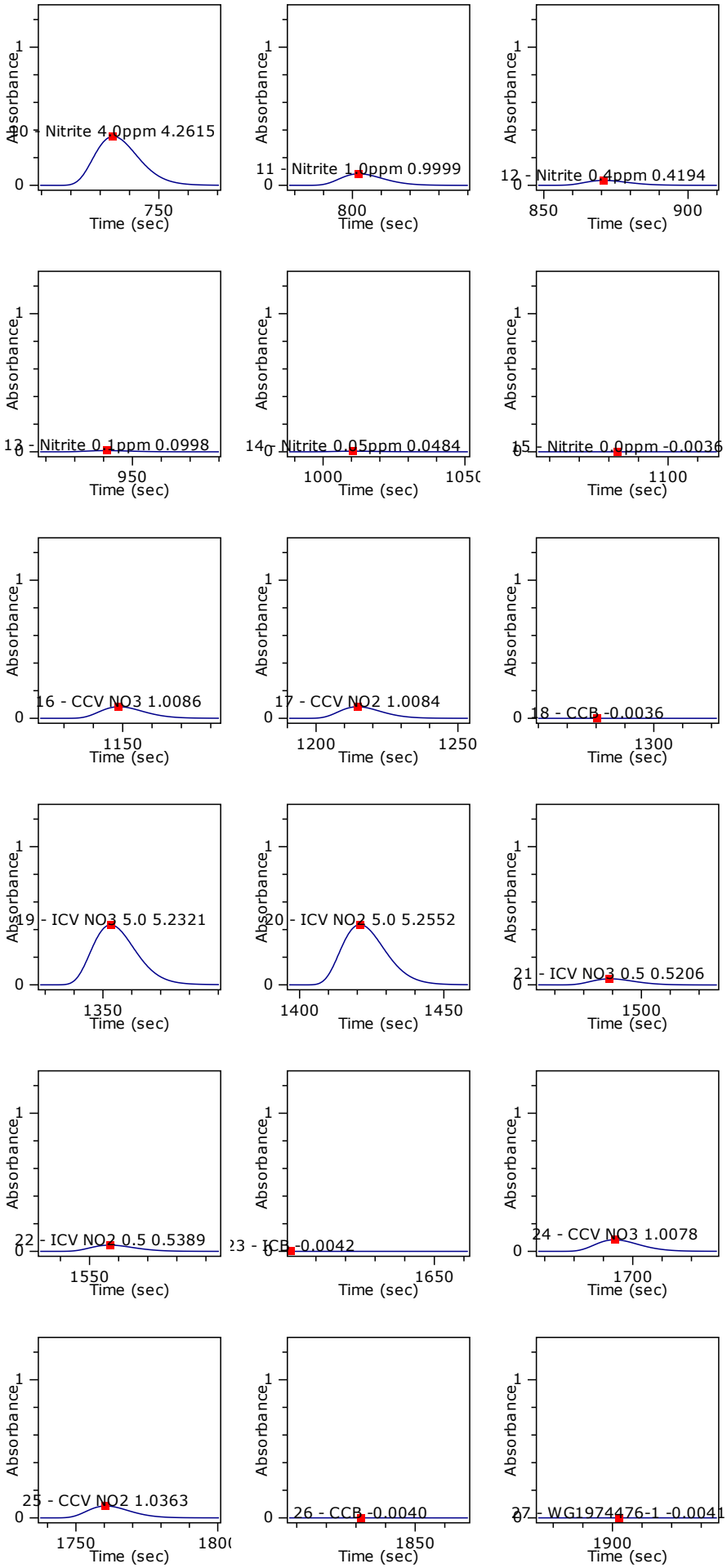
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453559-07	93	Unknown	?	0.0025	1	1	1	0.0156		2024-09-21T06:06:19
L2453562-01	94	Unknown	?	0.0084	1	1	1	0.0599		2024-09-21T06:07:25
L2453851-01	95	Unknown	?	0.0024	1	1	1	0.0148		2024-09-21T06:08:29
L2453851-02	96	Unknown	?	0.1199	1	1	1	0.9071		2024-09-21T06:09:34
L2453950-01	97	Unknown	?	0.0010	1	1	1	0.0037		2024-09-21T06:10:42
L2454072-01	98	Unknown	?	0.0022	1	1	1	0.0129		2024-09-21T06:11:48
L2454081-01	99	Unknown	?	0.0002	1	1	1	-0.0017		2024-09-21T06:12:54
WG1974474-5	100	Unknown	?	0.0003	1	1	1	-0.0017		2024-09-21T06:14:01
WG1974474-6	101	Unknown	?	0.0012	1	1	1	0.0052		2024-09-21T06:15:08
CCV NO3	102	QC	?	0.0001	1	1	1	-0.0026		2024-09-21T06:16:16
CCV NO2	103	QC	1	0.1293	1	1	1	0.9782		2024-09-21T06:17:20
CCB	104	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T06:18:34
L2454081-02	105	Unknown	?	0.0007	1	1	1	0.0020		2024-09-21T06:19:40
L2453053-01	106	Unknown	?	0.0009	1	1	1	0.0031		2024-09-21T06:20:48
WG1974476-3	107	Unknown	?	0.0002	1	1	1	-0.0024		2024-09-21T06:21:54
WG1974476-4	108	Unknown	?	0.0003	1	1	1	-0.0013		2024-09-21T06:23:00
L2453053-02	109	Unknown	?	0.0008	1	1	1	0.0026		2024-09-21T06:24:05
L2453053-03	110	Unknown	?	0.0008	1	1	1	0.0023		2024-09-21T06:25:11
L2453053-04	111	Unknown	?	0.0007	1	1	1	0.0019		2024-09-21T06:26:15
L2453053-05	112	Unknown	?	0.0007	1	1	1	0.0018		2024-09-21T06:27:21
L2453123-02	113	Unknown	?	0.0009	1	1	1	0.0033		2024-09-21T06:28:26
L2453131-01	114	Unknown	?	0.0121	1	1	1	0.0885		2024-09-21T06:29:31
CCV NO3	115	QC	?	0.0001	1	1	1	-0.0027		2024-09-21T06:30:37
CCV NO2	116	QC	1	0.1291	1	1	1	0.9769		2024-09-21T06:31:43
CCB	117	QC	0	0.0001	1	1	1	-0.0027		2024-09-21T06:32:56
L2453131-02	118	Unknown	?	0.0050	1	1	1	0.0347		2024-09-21T06:34:04
L2453342-01	119	Unknown	?	0.0007	1	1	1	0.0017		2024-09-21T06:35:13
L2453342-02	120	Unknown	?	0.0008	1	1	1	0.0027		2024-09-21T06:36:20
L2453342-03	121	Unknown	?	0.0008	1	1	1	0.0022		2024-09-21T06:37:26
L2453342-04	122	Unknown	?	0.0007	1	1	1	0.0017		2024-09-21T06:38:33
L2453342-05	123	Unknown	?	0.0007	1	1	1	0.0018		2024-09-21T06:39:40
L2453342-06	124	Unknown	?	0.0007	1	1	1	0.0018		2024-09-21T06:40:47
L2453342-07	125	Unknown	?	0.0008	1	1	1	0.0027		2024-09-21T06:41:51

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453342-08	126	Unknown	?	0.0007	1	1	1	0.0016		2024-09-21T06:42:57
L2453342-10	127	Unknown	?	0.0008	1	1	1	0.0026		2024-09-21T06:44:02
CCV NO3	128	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T06:45:09
CCV NO2	129	QC	1	0.1276	1	1	1	0.9657		2024-09-21T06:46:15
CCB	130	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T06:47:27
L2454221-01	131	Unknown	?	0.0070	1	1	1	0.0498		2024-09-21T06:48:36
L2453950-01	132	Unknown	?	0.0010	1	1	1	0.0037		2024-09-21T06:49:46
CCV NO3	133	QC	?	0.0001	1	1	1	-0.0027		2024-09-21T06:50:52
CCV NO2	134	QC	1	0.1303	1	1	1	0.9859		2024-09-21T06:51:57
CCB	135	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T06:53:10

Peaks:

Channel: 1-NOx

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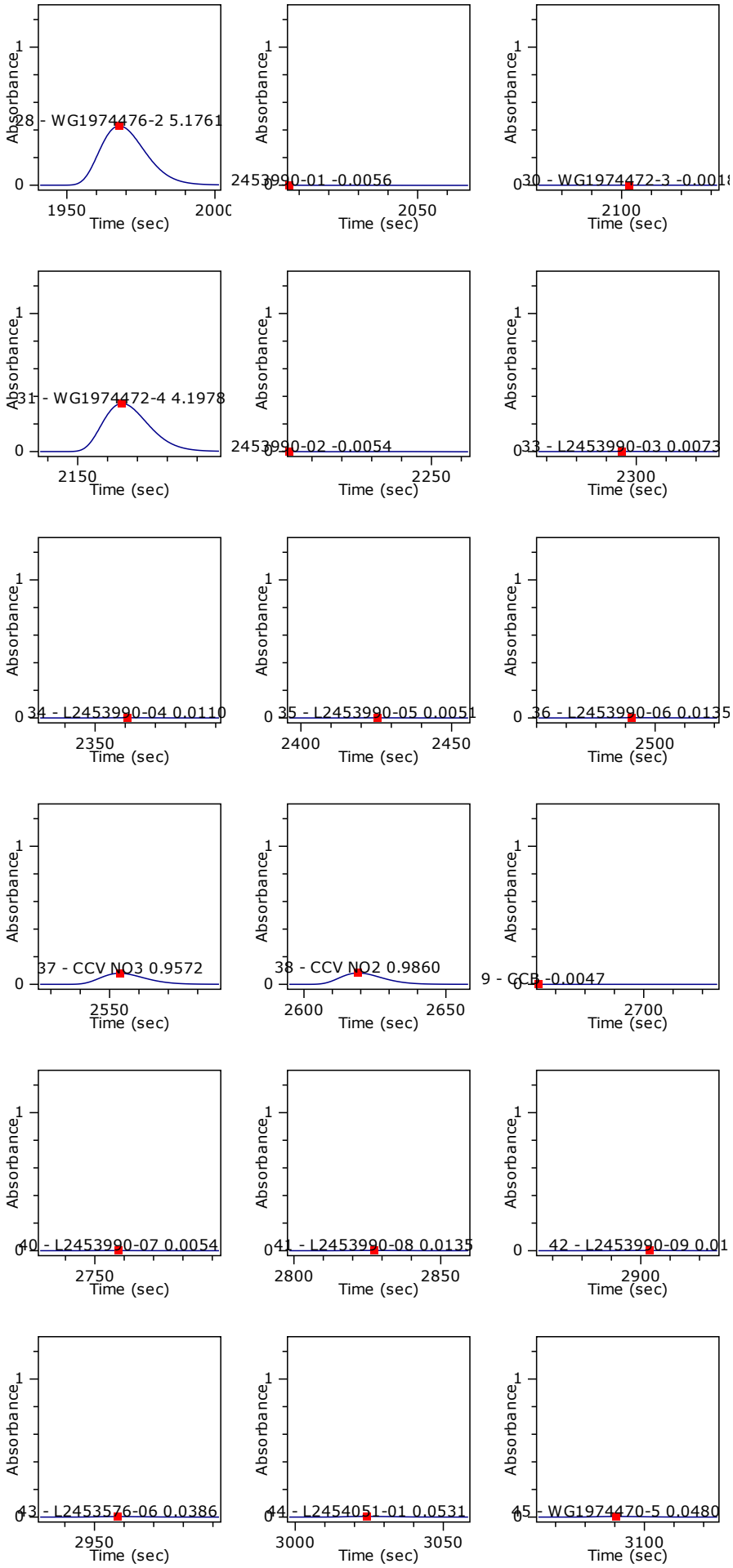
11 - Nitrite 1.0ppm 0.9999
12 - Nitrite 0.4ppm 0.4194
13 - Nitrite 0.1ppm 0.0998
14 - Nitrite 0.05ppm 0.0484
15 - Nitrite 0.0ppm -0.0036
16 - CCV NO3 1.0086
17 - CCV NO2 1.0084
18 - CCB -0.0036
19 - ICV NO3 5.0 5.2321
20 - ICV NO2 5.0 5.2552
21 - ICV NO3 0.5 0.5206
22 - ICV NO2 0.5 0.5389
23 - ICB -0.0042
24 - CCV NO3 1.0078
25 - CCV NO2 1.0363
26 - CCB -0.0040
27 - WG1974476-1 -0.0041


Absorbance
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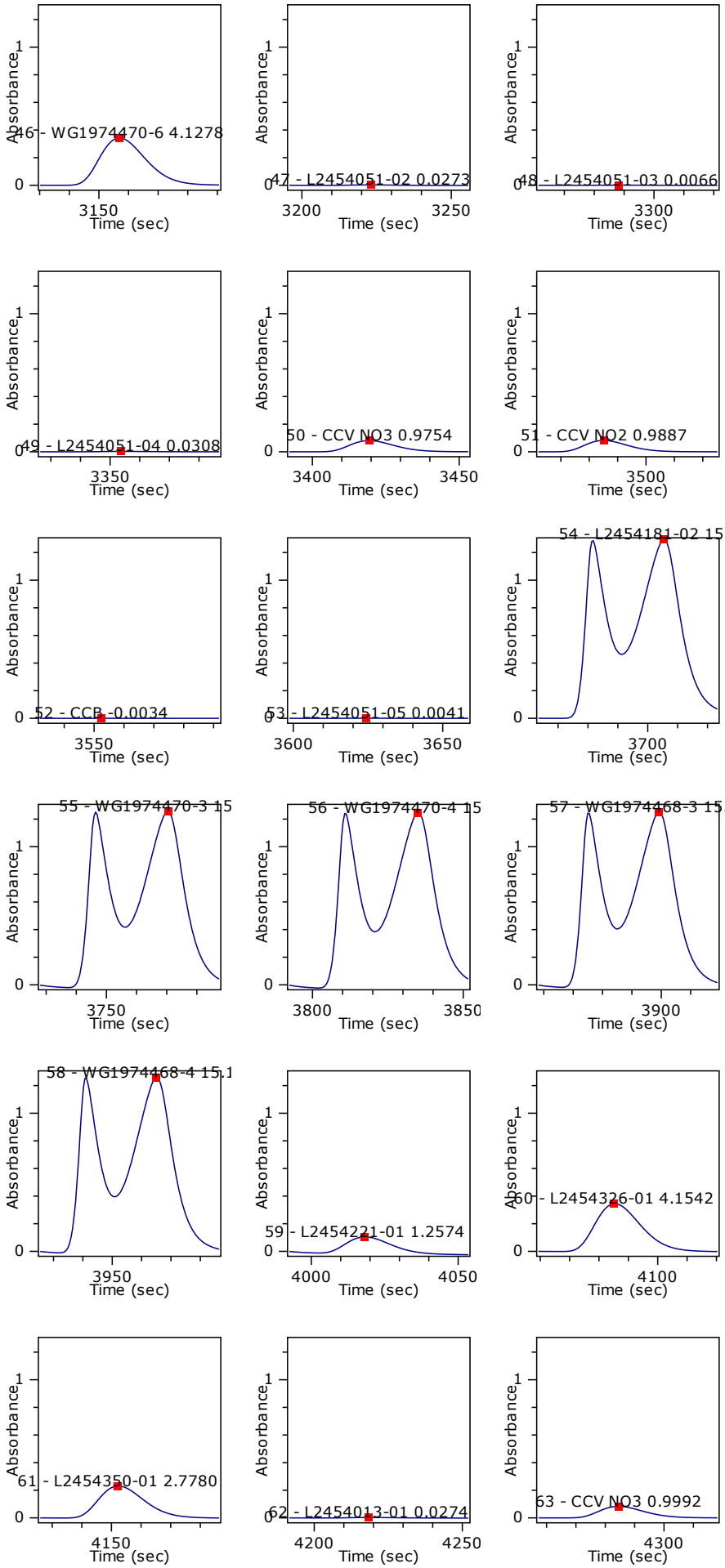
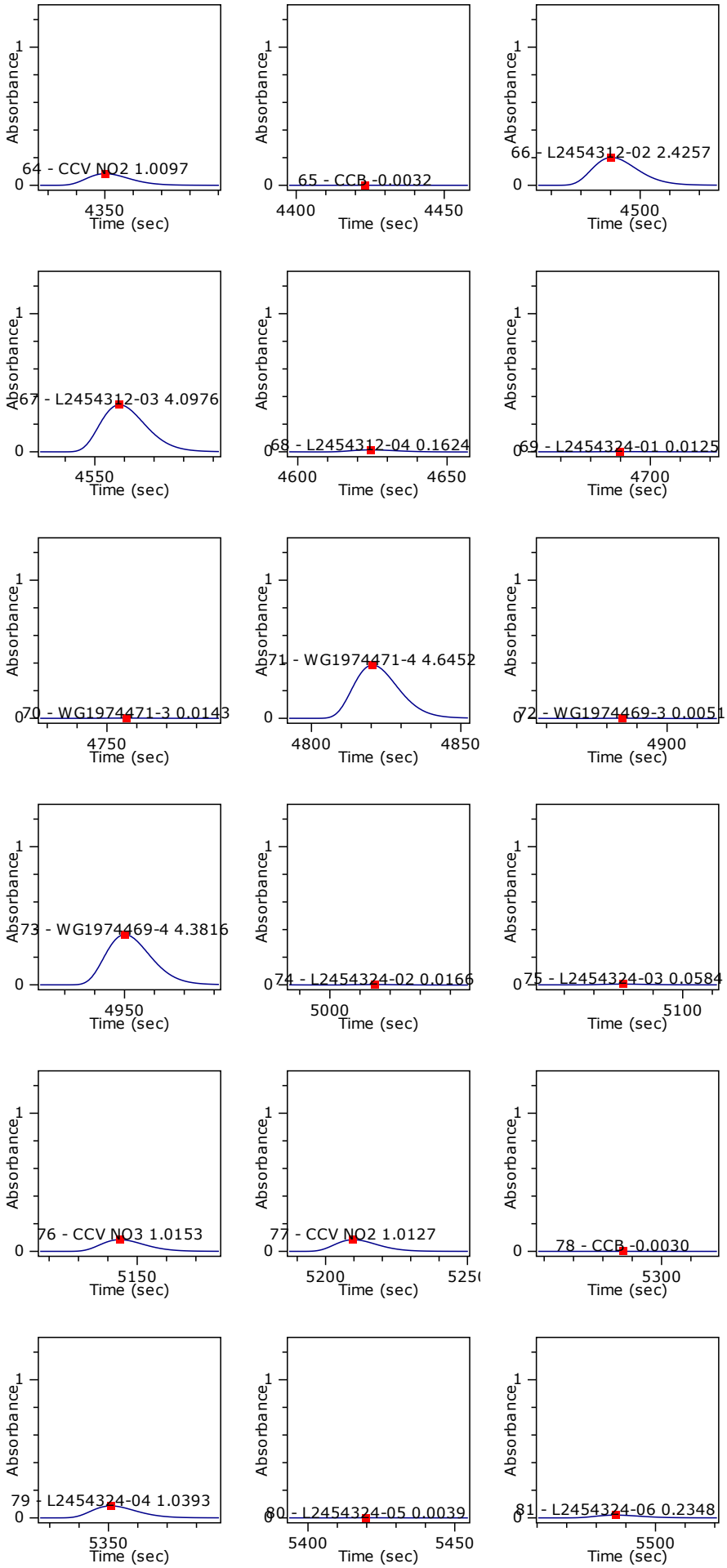
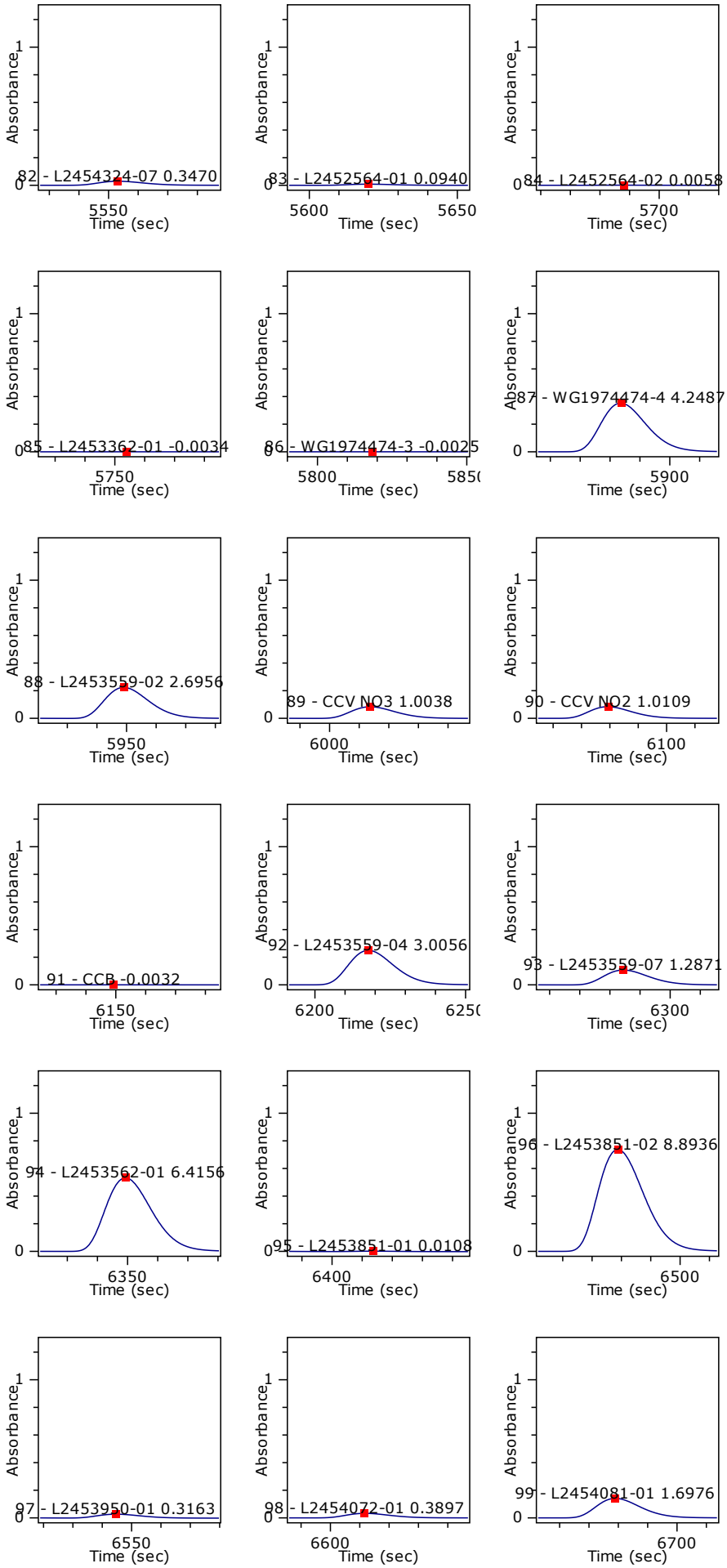
28 - WG1974476-2 5.1761
2453990-01 -0.0056
30 - WG1974472-3 -0.001
31 - WG1974472-4 4.1978
2453990-02 -0.0054
33 - L2453990-03 0.0073
34 - L2453990-04 0.0110
35 - L2453990-05 0.0051
36 - L2453990-06 0.0135
37 - CCV NO3 0.9572
38 - CCV NO2 0.9860
9 - CCB -0.0047
40 - L2453990-07 0.0054
41 - L2453990-08 0.0135
42 - L2453990-09 0.01
43 - L2453576-06 0.0386
44 - L2454051-01 0.0531
45 - WG1974470-5 0.0480


46 - WG1974470-6 4.1278
47 - L2454051-02 0.0273
48 - L2454051-03 0.0066
49 - L2454051-04 0.0308
50 - CCV NO3 0.9754
51 - CCV NO2 0.9887
52 - CCB -0.0034
53 - L2454051-05 0.0041
54 - L2454181-02 15.
55 - WG1974470-3 15
56 - WG1974470-4 15
57 - WG1974468-3 15.
58 - WG1974468-4 15.1
59 - L2454221-01 1.2574
60 - L2454326-01 4.1542
61 - L2454350-01 2.7780
62 - L2454013-01 0.0274
63 - CCV NO3 0.9992
Absorbance
Time (sec)


Absorbance
Time (sec)
64 - CCV NO2 1.0097
65 - CCB -0.0032
66 - L2454312-02 2.4257
67 - L2454312-03 4.0976
68 - L2454312-04 0.1624
69 - L2454324-01 0.0125
70 - WG1974471-3 0.0143
71 - WG1974471-4 4.6452
72 - WG1974469-3 0.0051
73 - WG1974469-4 4.3816
74 - L2454324-02 0.0166
75 - L2454324-03 0.0584
76 - CCV NO3 1.0153
77 - CCV NO2 1.0127
78 - CCB -0.0030
79 - L2454324-04 1.0393
80 - L2454324-05 0.0039
81 - L2454324-06 0.2348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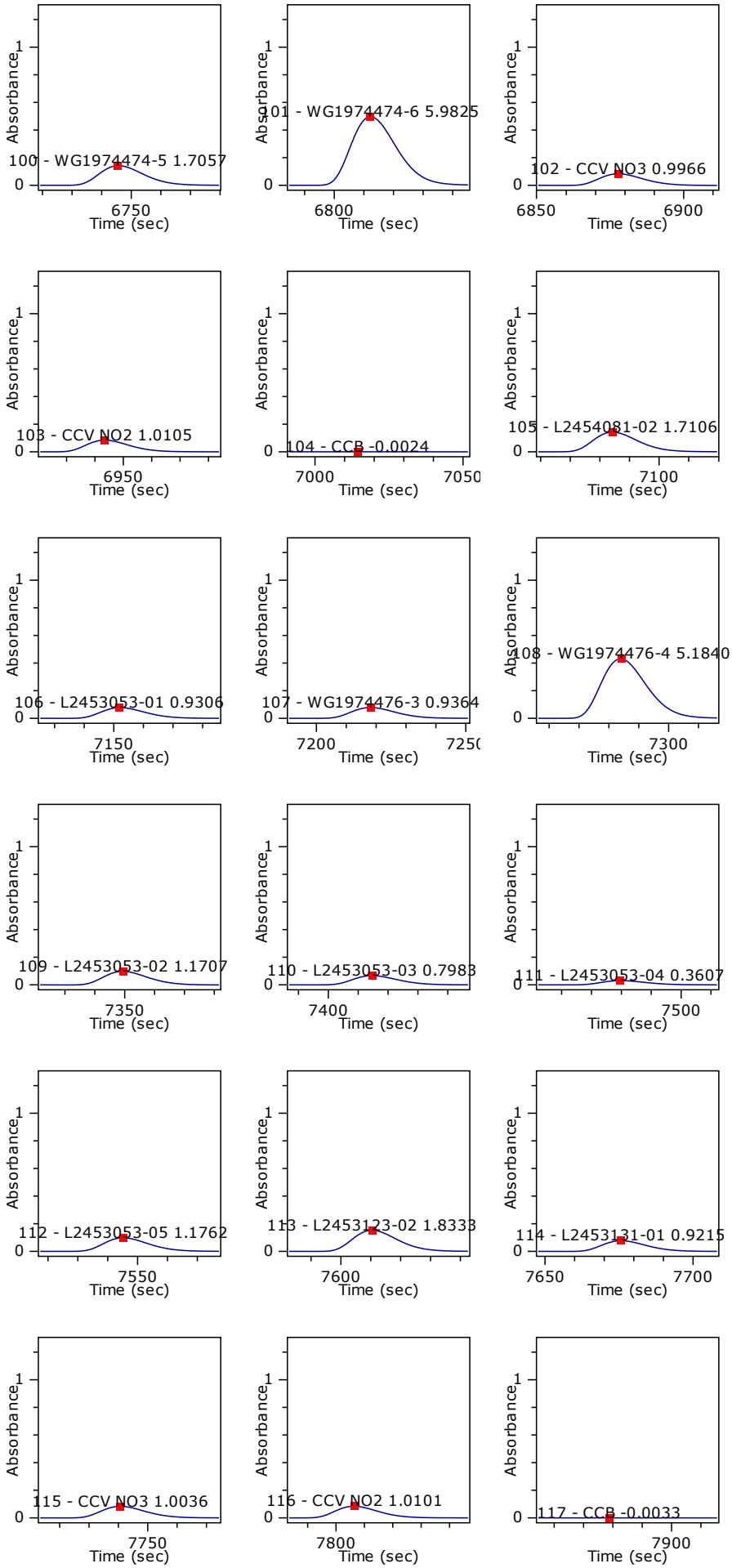
83 - L2452564-01 0.0940
84 - L2452564-02 0.0058
85 - L2453362-01 -0.0034
86 - WG1974474-3 -0.0025
87 - WG1974474-4 4.2487
88 - L2453559-02 2.6956
89 - CCV NO3 1.0038
90 - CCV NO2 1.0109
91 - CCB -0.0032
92 - L2453559-04 3.0056
93 - L2453559-07 1.2871
94 - L2453562-01 6.4156
95 - L2453851-01 0.0108
96 - L2453851-02 8.8936
97 - L2453950-01 0.3163
98 - L2454072-01 0.3897
99 - L2454081-01 1.6976


Absorbance
1
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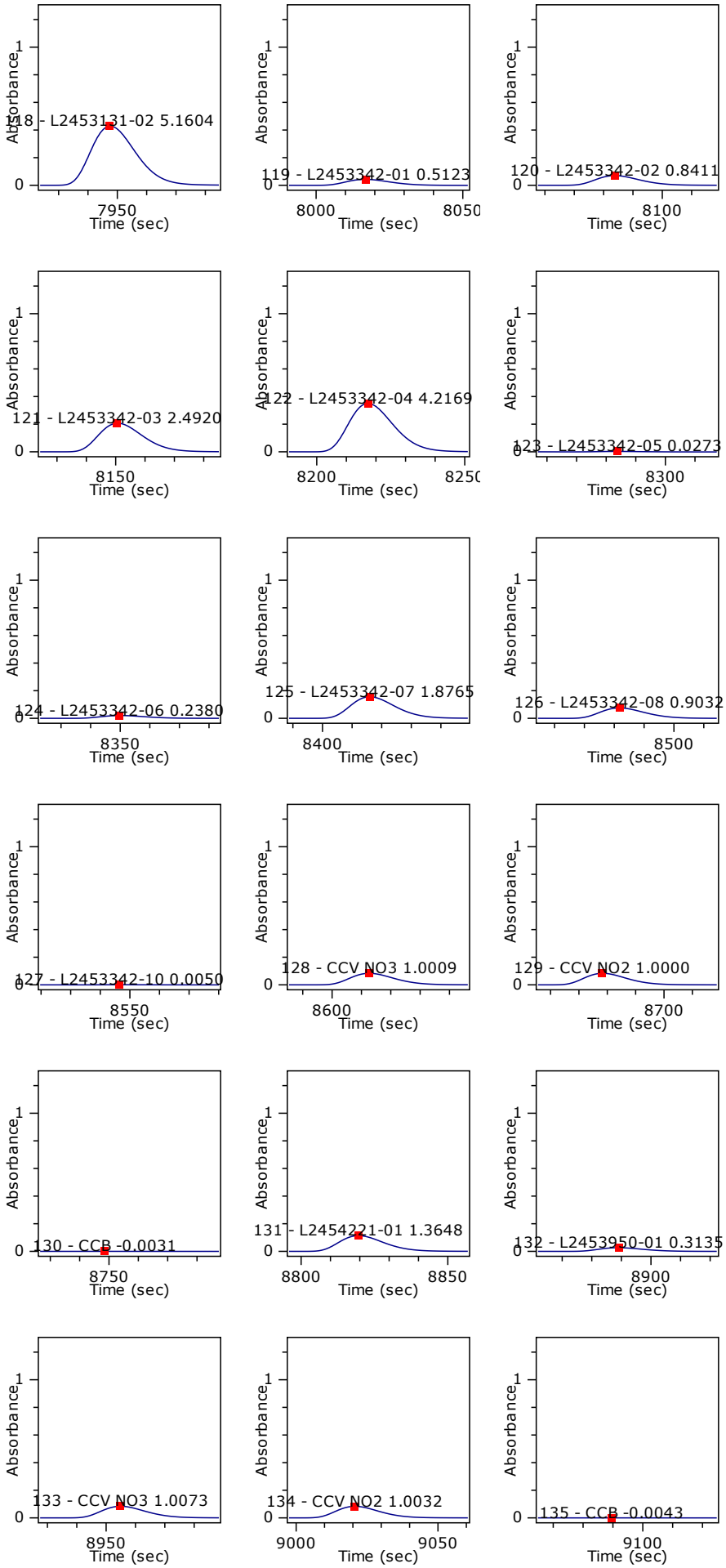
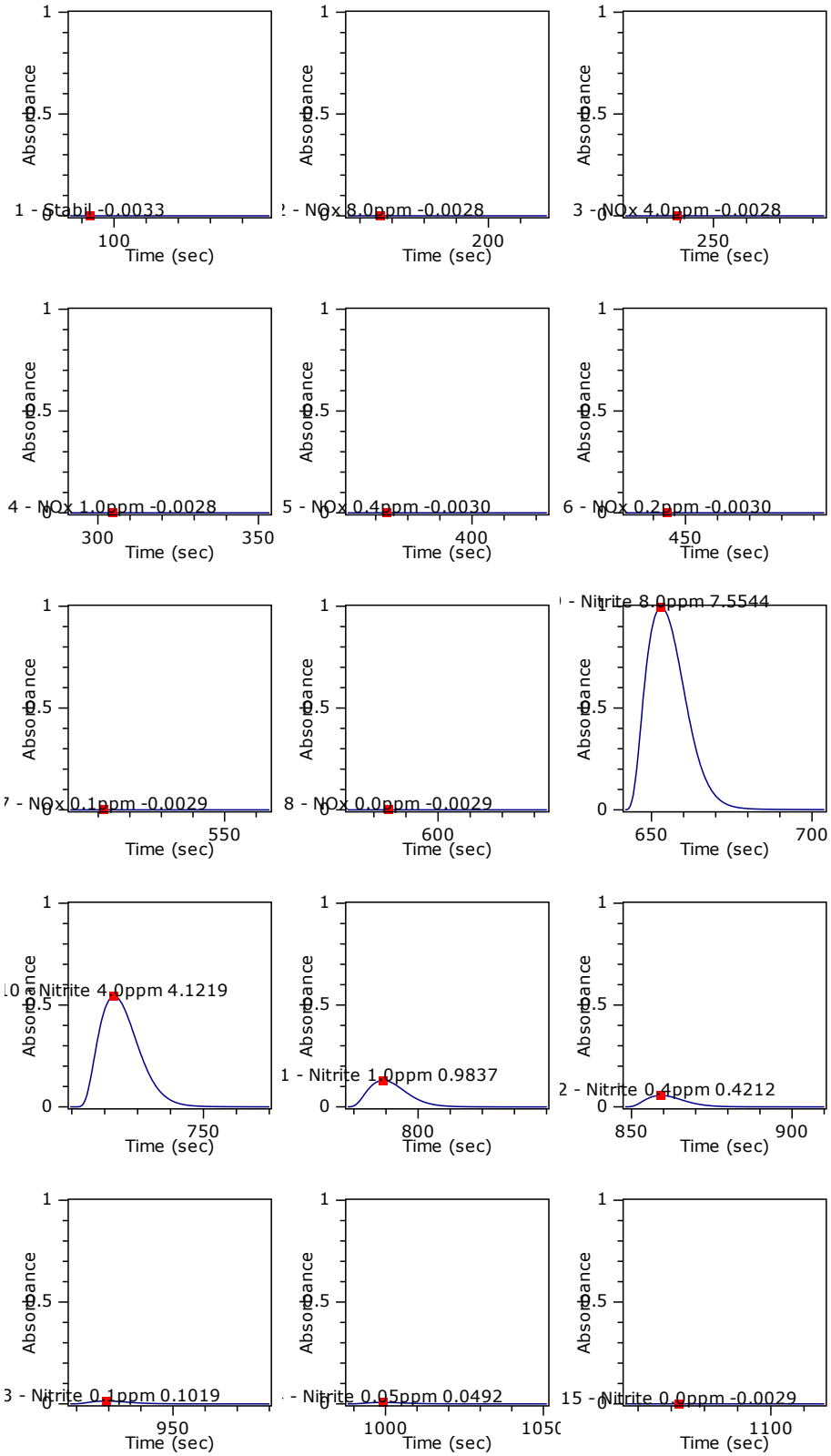
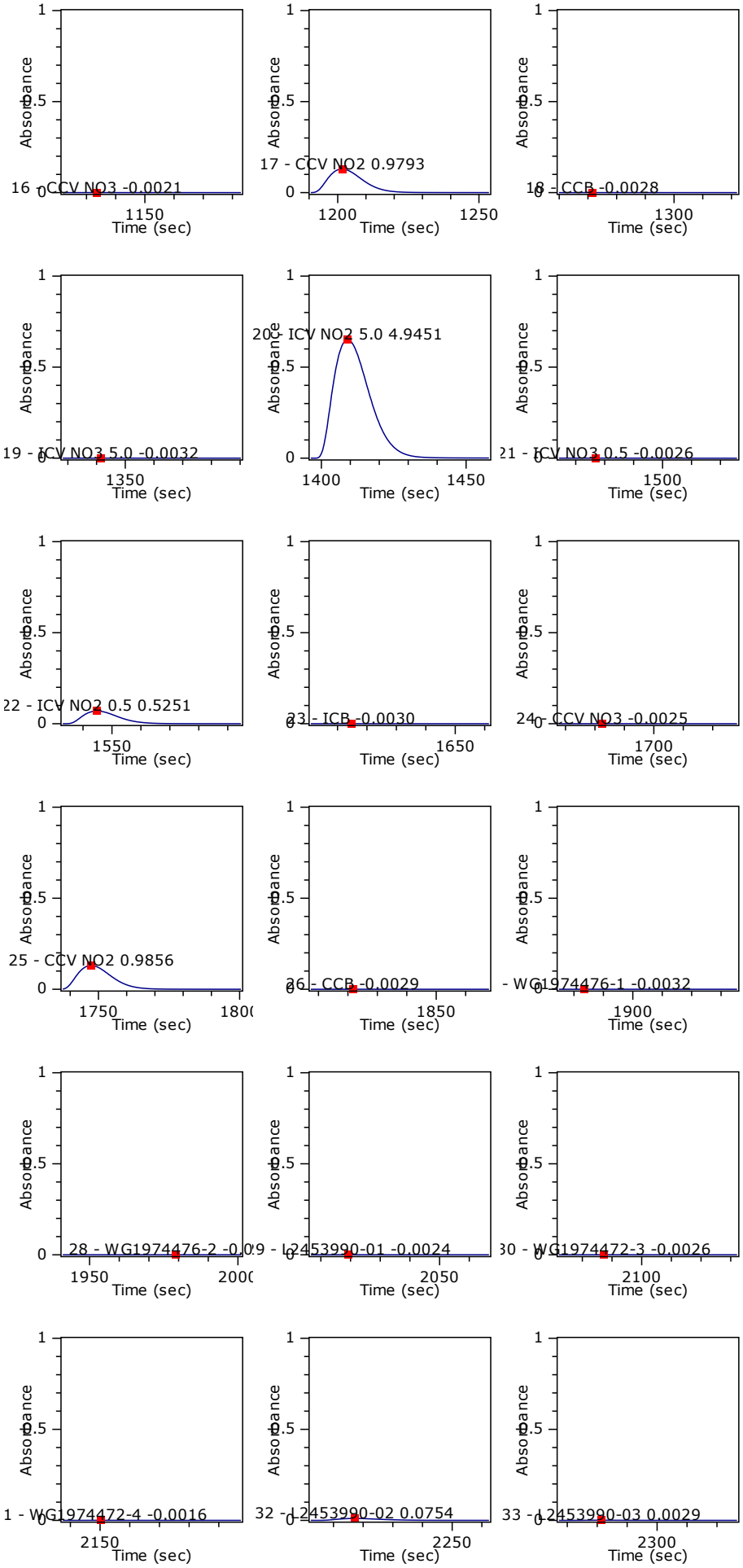
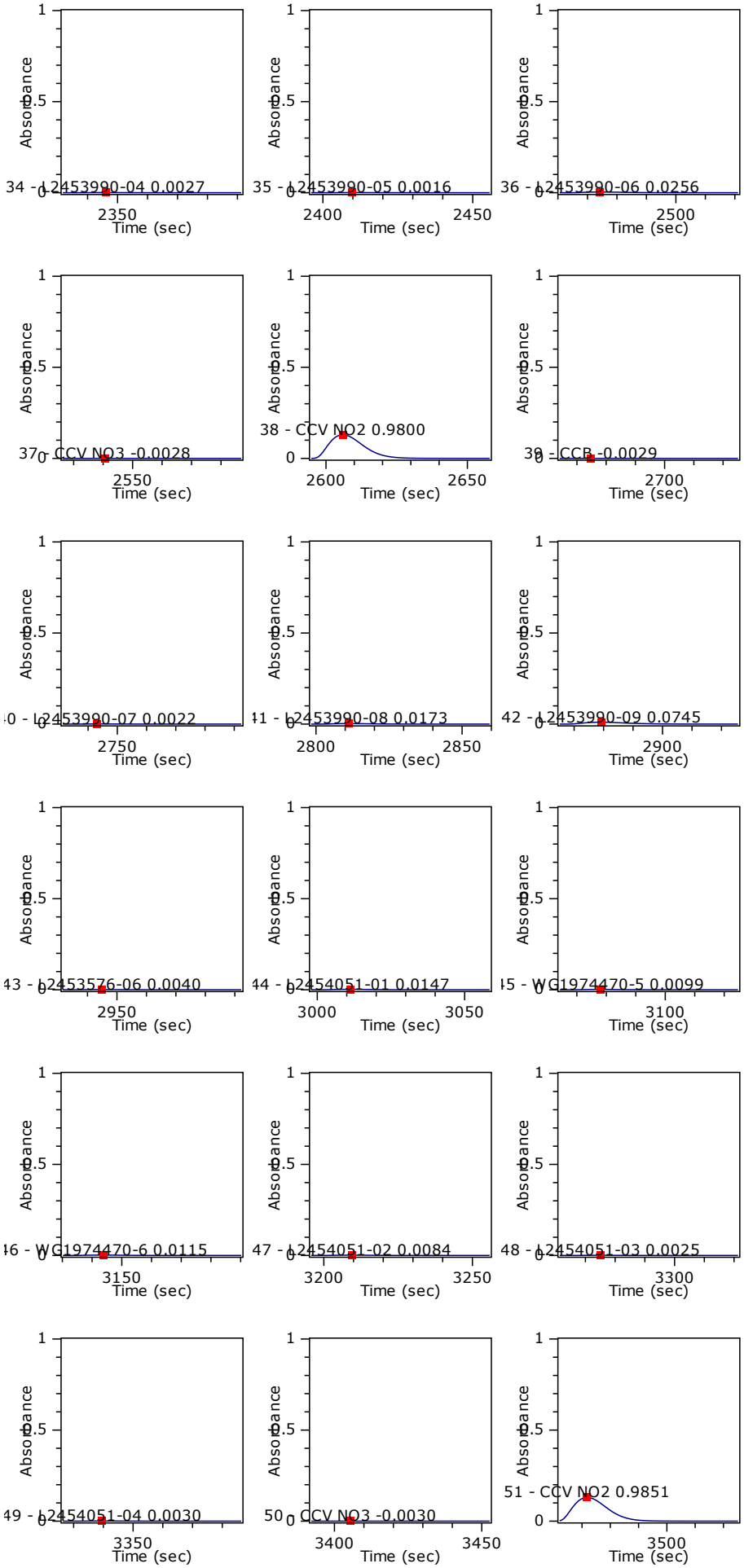
100 - WG1974474-5 1.7057
6750
Time (sec)
101 - WG1974474-6 5.9825
6800
Time (sec)
102 - CCV NO3 0.9966
6850
6900
Time (sec)
103 - CCV NO2 1.0105
6950
Time (sec)
104 - CCB -0.0024
7000
7050
Time (sec)
105 - L2454081-02 1.7106
7100
Time (sec)
106 - L2453053-01 0.9306
7150
Time (sec)
107 - WG1974476-3 0.9364
7200
7250
Time (sec)
108 - WG1974476-4 5.1840
7300
Time (sec)
109 - L2453053-02 1.1707
7350
Time (sec)
110 - L2453053-03 0.7983
7400
Time (sec)
111 - L2453053-04 0.3607
7500
Time (sec)
112 - L2453053-05 1.1762
7550
Time (sec)
113 - L2453123-02 1.8333
7600
Time (sec)
114 - L2453131-01 0.9215
7650
7700
Time (sec)
115 - CCV NO3 1.0036
7750
Time (sec)
116 - CCV NO2 1.0101
7800
Time (sec)
117 - CCB -0.0033
7900
Time (sec)

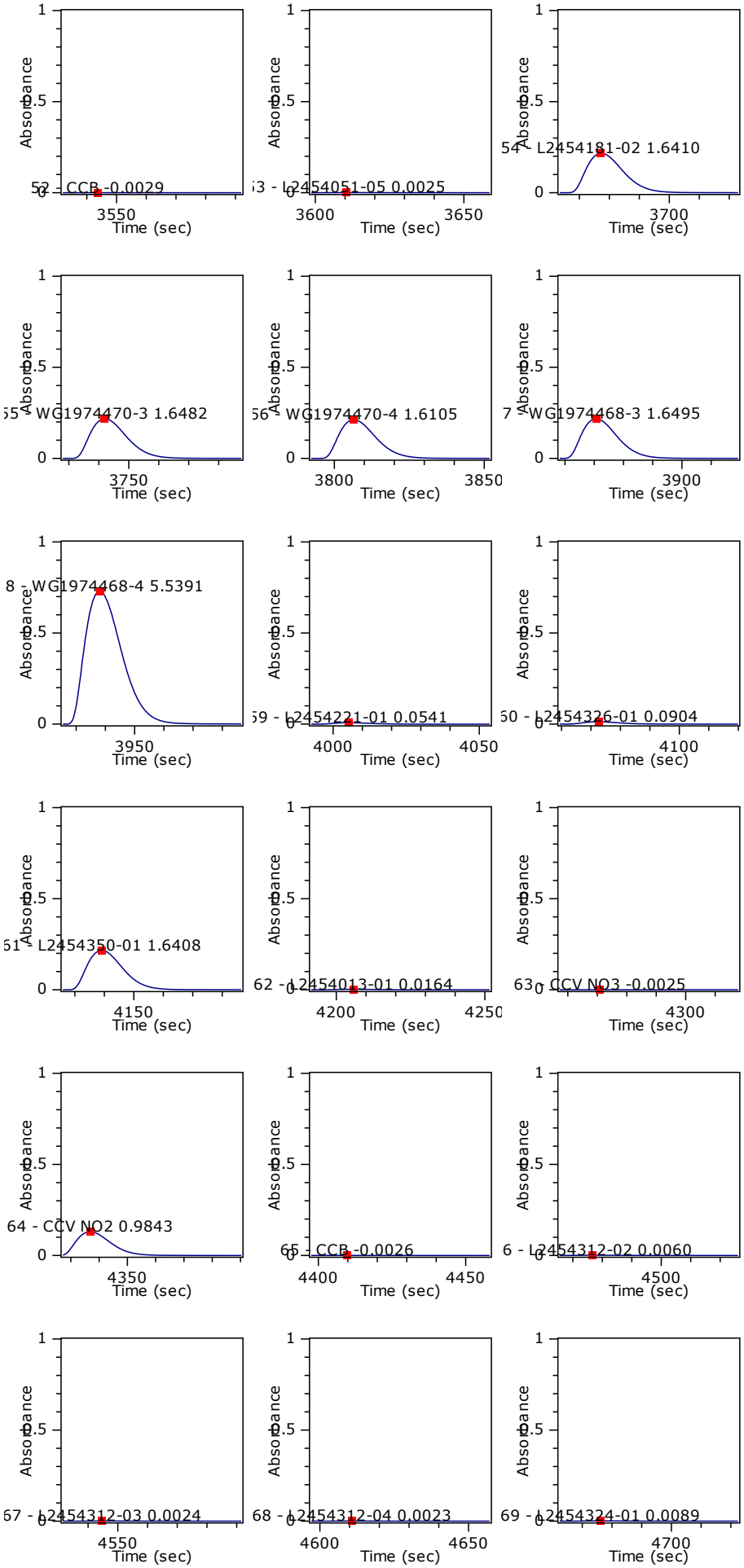

118 - L2453131-02 5.1604
119 - L2453342-01 0.5123
120 - L2453342-02 0.8411
121 - L2453342-03 2.4920
122 - L2453342-04 4.2169
123 - L2453342-05 0.0273
124 - L2453342-06 0.2380
125 - L2453342-07 1.8765
126 - L2453342-08 0.9032
127 - L2453342-10 0.0050
128 - CCV NO3 1.0009
129 - CCV NO2 1.0000
130 - CCB -0.0031
131 - L2454221-01 1.3648
132 - L2453950-01 0.3135
133 - CCV NO3 1.0073
134 - CCV NO2 1.0032
135 - CCB -0.0043
Absorbance
Time (sec)

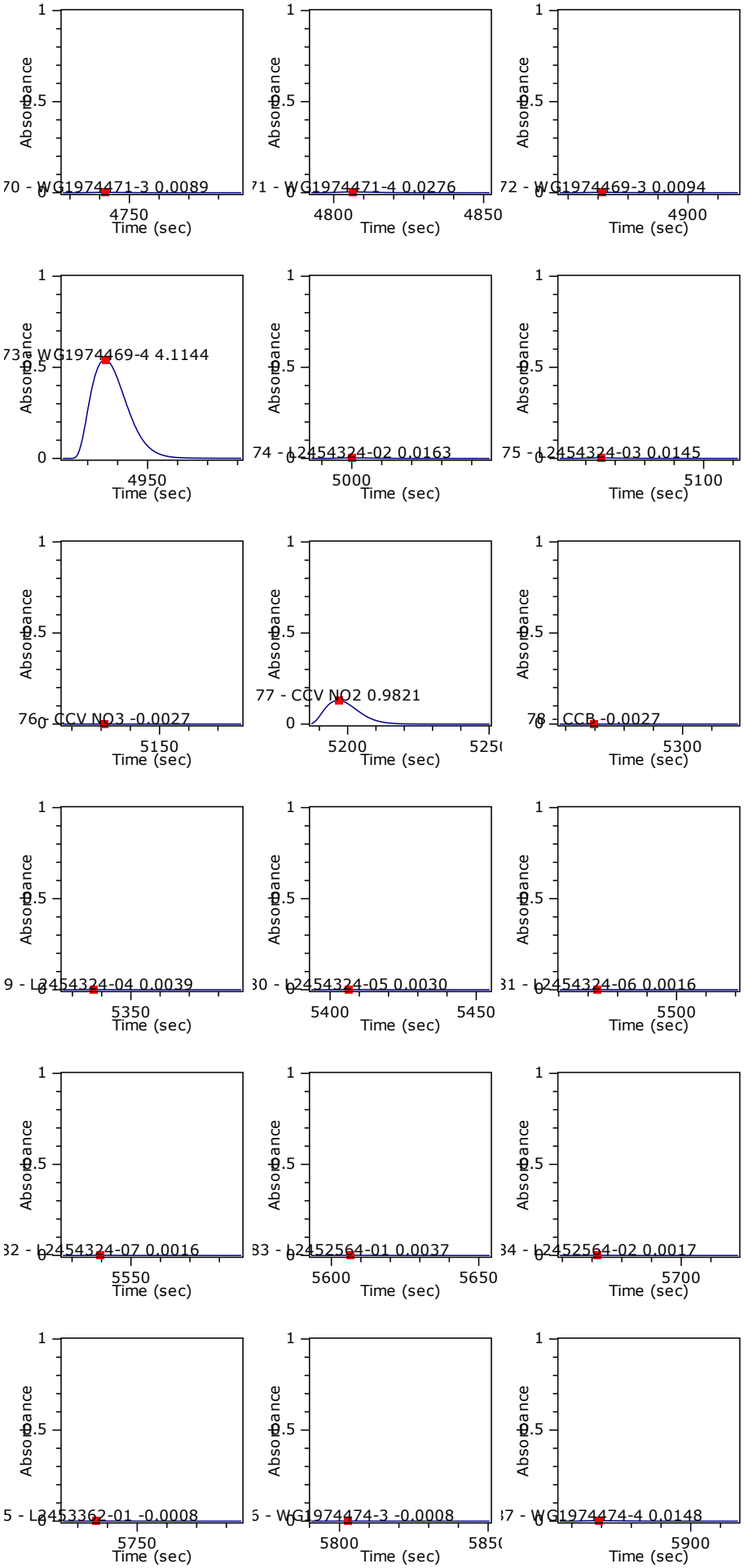
Channel: 2-NO2

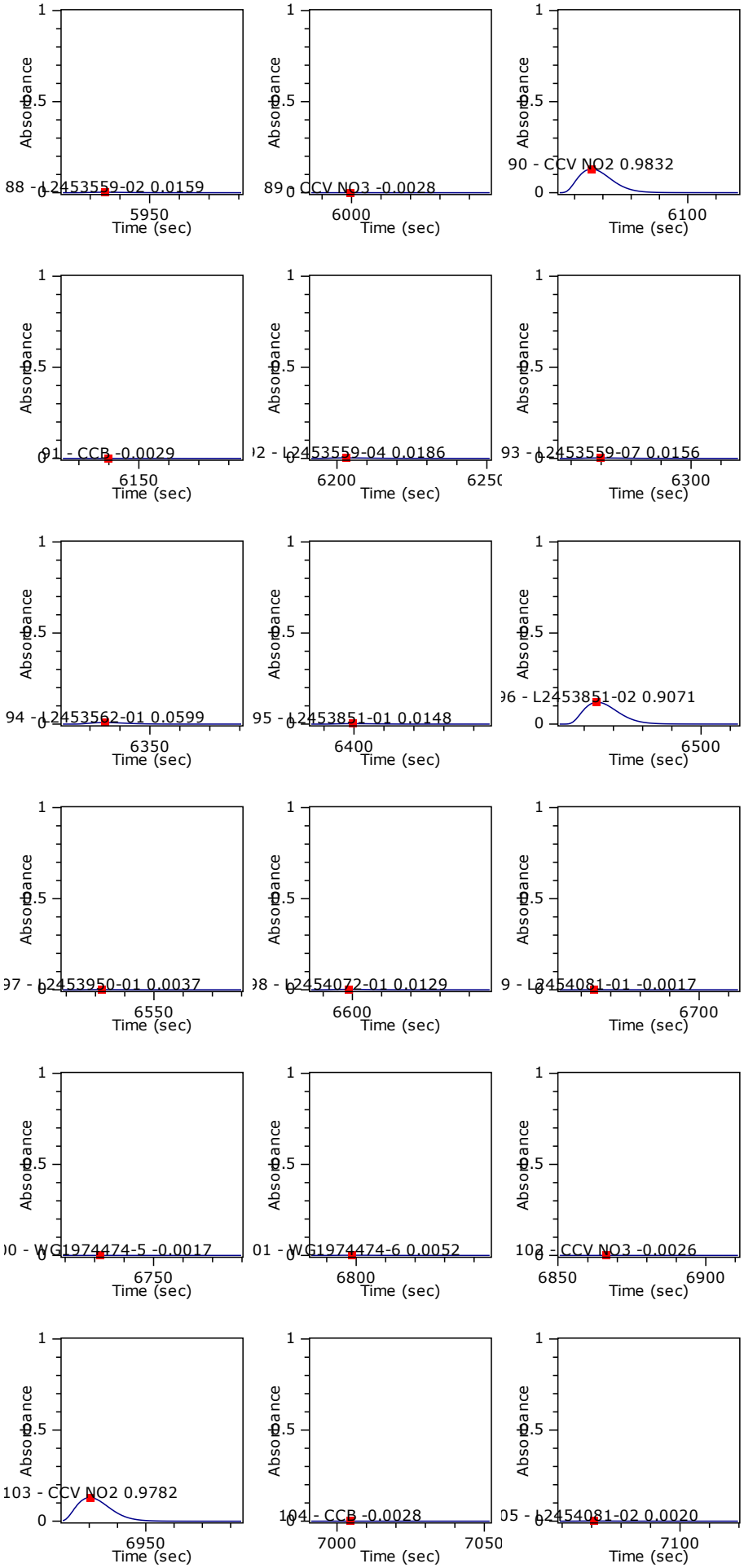


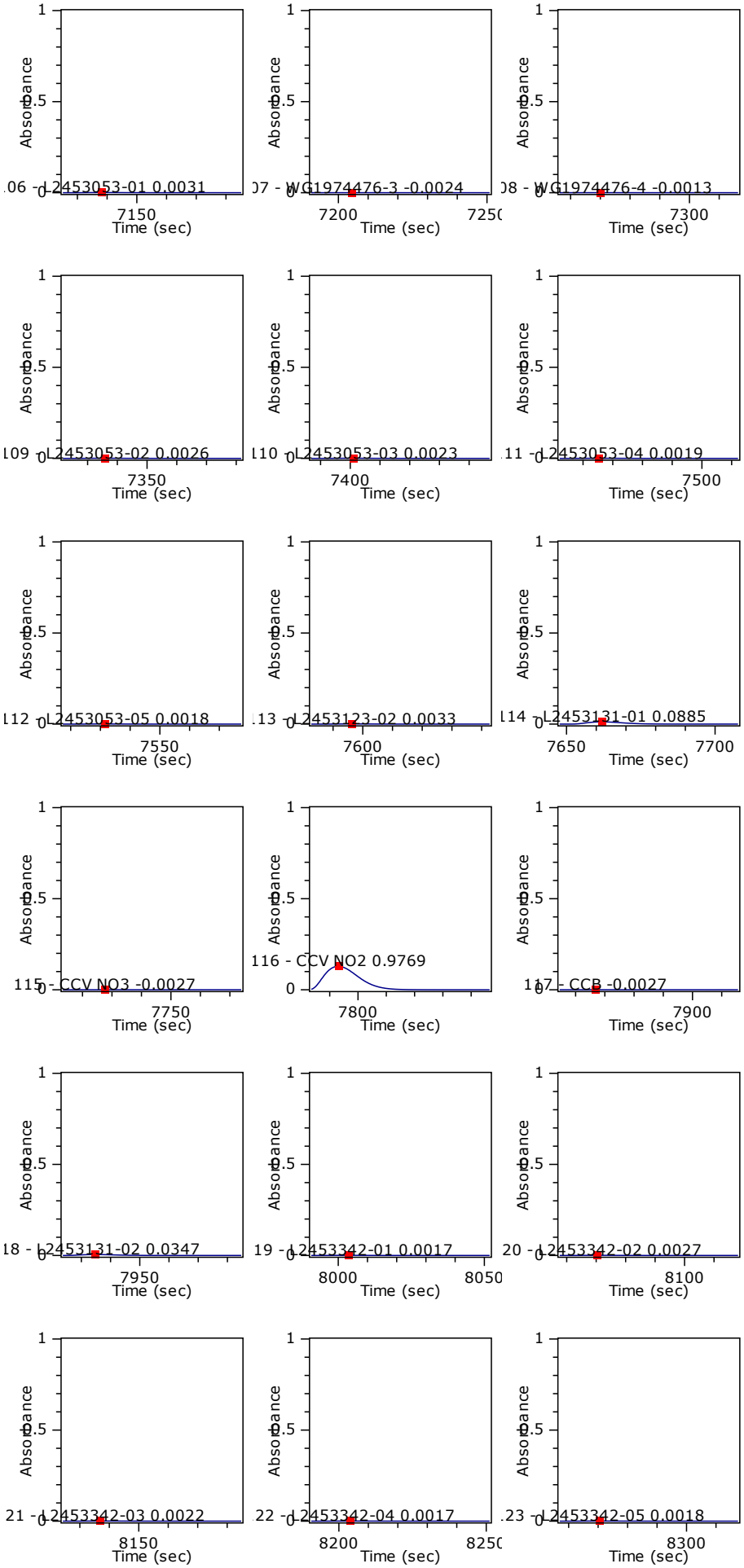

16 - CCV NO3 -0.0021
17 - CCV NO2 0.9793
18 - CCB -0.0028
19 - ICV NO3 5.0 -0.0032
20 - ICV NO2 5.0 4.9451
21 - ICV NO3 0.5 -0.0026
22 - ICV NO2 0.5 0.5251
23 - ICB -0.0030
24 - CCV NO3 -0.0025
25 - CCV NO2 0.9856
26 - CCB -0.0029
- WG1974476-1 -0.0032
28 - WG1974476-2 -0.0
9 - L2453990-01 -0.0024
30 - WG1974472-3 -0.0026
1 - WG1974472-4 -0.0016
32 - L2453990-02 0.0754
33 - L2453990-03 0.0029
Absorbance
Time (sec)

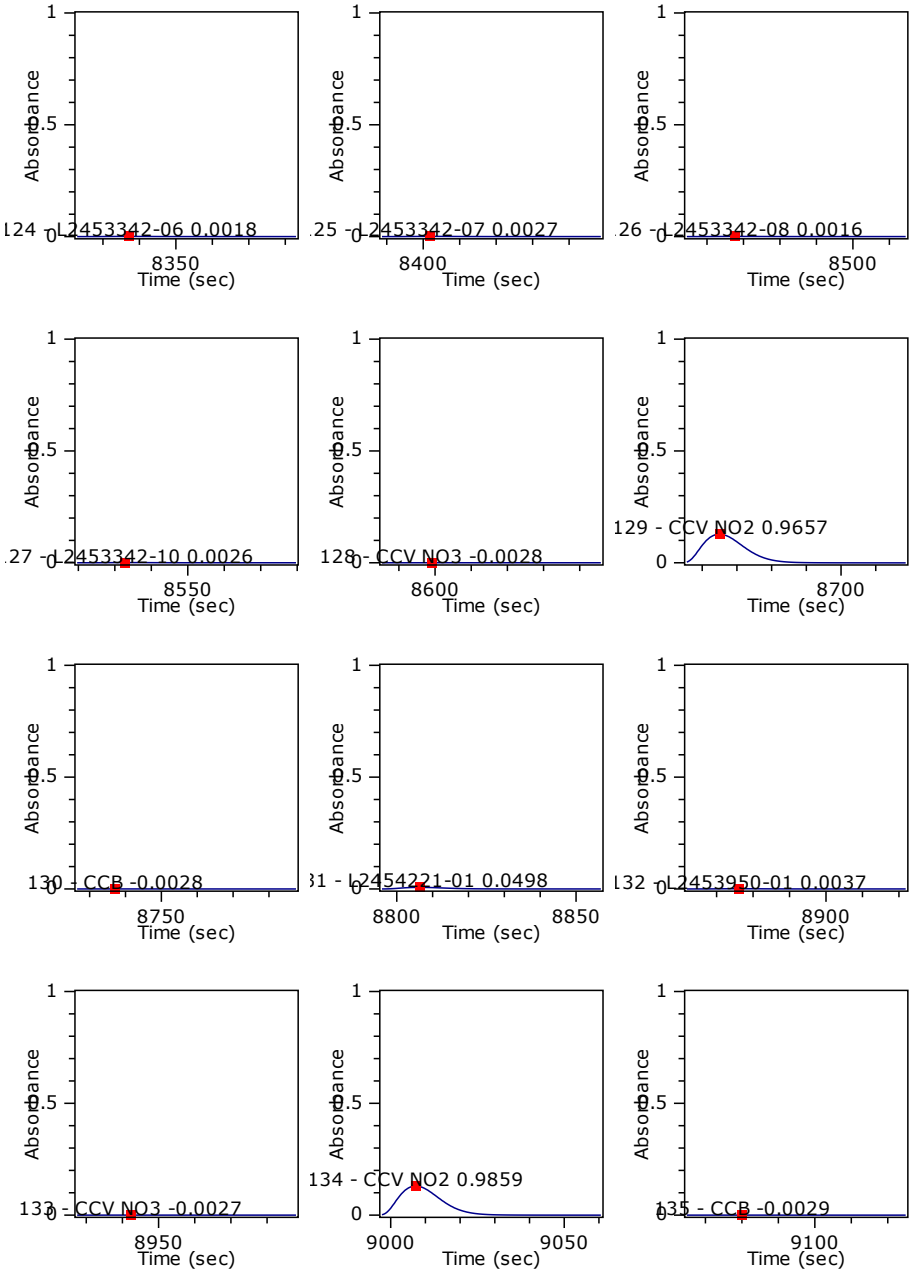

34 - L2453990-04 0.0027
35 - L2453990-05 0.0016
36 - L2453990-06 0.0256
37 - CCV NO3 -0.0028
38 - CCV NO2 0.9800
39 - CCB -0.0029
40 - L2453990-07 0.0022
41 - L2453990-08 0.0173
42 - L2453990-09 0.0745
43 - L2453576-06 0.0040
44 - L2454051-01 0.0147
45 - WG1974470-5 0.0099
46 - WG1974470-6 0.0115
47 - L2454051-02 0.0084
48 - L2454051-03 0.0025
49 - L2454051-04 0.0030
50 - CCV NO3 -0.0030
51 - CCV NO2 0.9851
Absorbance
Time (sec)


52 - CCB -0.0029
53 - L2454051-05 0.0025
54 - L2454181-02 1.6410
55 - WG1974470-3 1.6482
56 - WG1974470-4 1.6105
57 - WG1974468-3 1.6495
58 - WG1974468-4 5.5391
59 - L2454221-01 0.0541
60 - L2454326-01 0.0904
61 - L2454350-01 1.6408
62 - L2454013-01 0.0164
63 - CCV NO3 -0.0025
64 - CCV NO2 0.9843
65 - CCB -0.0026
66 - L2454312-02 0.0060
67 - L2454312-03 0.0024
68 - L2454312-04 0.0023
69 - L2454324-01 0.0089
Absorbance
Time (sec)


70 - WG1974471-3 0.0089
71 - WG1974471-4 0.0276
72 - WG1974469-3 0.0094
73a WG1974469-4 4.1144
74 - L2454324-02 0.0163
75 - L2454324-03 0.0145
76 - CCV NO3 -0.0027
77 - CCV NO2 0.9821
78 - CCB -0.0027
79 - L2454324-04 0.0039
80 - L2454324-05 0.0030
81 - L2454324-06 0.0016
82 - L2454324-07 0.0016
83 - L2452564-01 0.0037
84 - L2452564-02 0.0017
85 - L2453362-01 -0.0008
86 - WG1974474-3 -0.0008
87 - WG1974474-4 0.0148
Absorbance
Time (sec)


88 - L2453559-02 0.0159
89 - CCV NO3 -0.0028
90 - CCV NO2 0.9832
91 - CCB -0.0029
92 - L2453559-04 0.0186
93 - L2453559-07 0.0156
94 - L2453562-01 0.0599
95 - L2453851-01 0.0148
96 - L2453851-02 0.9071
97 - L2453950-01 0.0037
98 - L2454072-01 0.0129
99 - L2454081-01 -0.0017
100 - WG1974474-5 -0.0017
101 - WG1974474-6 0.0052
102 - CCV NO3 -0.0026
103 - CCV NO2 0.9782
104 - CCB -0.0028
105 - L2454081-02 0.0020
Absorbance
Time (sec)


Absorbance
Time (sec)
106 - L2453053-01 0.0031
107 - WG1974476-3 -0.0024
108 - WG1974476-4 -0.0013
109 - L2453053-02 0.0026
110 - L2453053-03 0.0023
111 - L2453053-04 0.0019
112 - L2453053-05 0.0018
113 - L2453123-02 0.0033
114 - L2453131-01 0.0885
115 - CCV NO3 -0.0027
116 - CCV NO2 0.9769
117 - CCB -0.0027
118 - L2453131-02 0.0347
119 - L2453342-01 0.0017
120 - L2453342-02 0.0027
121 - L2453342-03 0.0022
122 - L2453342-04 0.0017
123 - L2453342-05 0.0018



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T04:21:50

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.
```

```
FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

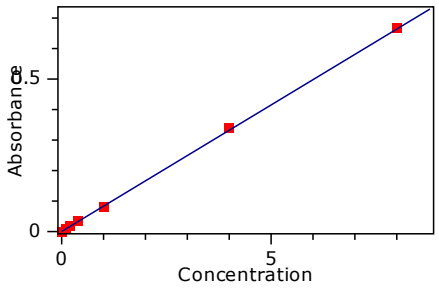
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 08:50:11
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-084953.dat

Dataset Notes:

Analyst	

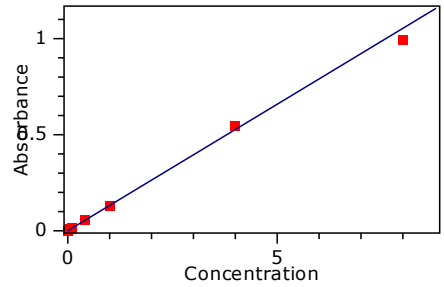
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00037
B: 0.08294
R^2: 0.99987
RSE(%): 2.47701
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.66720	8.00000	8.04000	0.50	N/A
10002	NOx 4.0ppm	0.34030	4.00000	4.09890	2.47	N/A
10003	NOx 1.0ppm	0.08010	1.00000	0.96080	3.92	N/A
10004	NOx 0.4ppm	0.03410	0.40000	0.40660	1.64	N/A
10005	NOx 0.2ppm	0.01690	0.20000	0.19930	0.34	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.10010	0.14	N/A
10007	NOx 0.0ppm	0.00010	0.00000	-0.00320	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00047
B: 0.13165
R^2: 0.99823
RSE(%): 4.38727
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99500	8.00000	7.55440	5.57	N/A
10002	Nitrite 4.0ppm	0.54310	4.00000	4.12190	3.05	N/A
10003	Nitrite 1.0ppm	0.13000	1.00000	0.98370	1.63	N/A
10004	Nitrite 0.4ppm	0.05590	0.40000	0.42120	5.30	N/A
10005	Nitrite 0.1ppm	0.01390	0.10000	0.10190	1.90	N/A
10006	Nitrite 0.05ppm	0.00700	0.05000	0.04920	1.51	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00290	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0032		2024-09-21T08:05:07
CCV NO3	2	QC	1	0.0833	1	1	1	0.9999		2024-09-21T08:06:20
CCV NO2	3	QC	?	0.0834	1	1	1	1.0016		2024-09-21T08:07:26
CCB	4	QC	0	0.0000	1	1	1	-0.0044		2024-09-21T08:08:10

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454201-01	5	Unknown	?	0.2866	1	1	1	3.4507		2024-09-21T08:09:43
L2454201-02	6	Unknown	?	0.6114	1	1	1	7.3673		2024-09-21T08:10:49
L2454201-03	7	Unknown	?	0.0381	1	1	1	0.4552		2024-09-21T08:11:55
L2454201-04	8	Unknown	?	0.2818	1	1	1	3.3934		2024-09-21T08:13:00
L2454309-01	9	Unknown	?	0.0000	1	1	1	-0.0051		2024-09-21T08:13:39
L2454275-01	10	Unknown	?	0.3098	1	1	1	3.7309		2024-09-21T08:15:13
L2454263-01	11	Unknown	?	0.0163	1	1	1	0.1923		2024-09-21T08:16:20
L2454277-02	12	Unknown	?	0.0016	1	1	1	0.0145		2024-09-21T08:17:28
L2454338-01	13	Unknown	?	1.2893	1	1	1	15.5413	OVR	2024-09-21T08:18:48
L2454181-02; 1 UP TO 5	14	Unknown	?	1.2241	5	1	1	73.7760	OVR	2024-09-21T08:19:42
CCV NO3	15	QC	1	0.0786	1	1	1	0.9433		2024-09-21T08:20:48
CCV NO2	16	QC	?	0.0830	1	1	1	0.9963		2024-09-21T08:21:54
CCB	17	QC	0	0.0002	1	1	1	-0.0020		2024-09-21T08:23:03
WG1974470-3; 1 UP TO 5	18	Unknown	?	1.2515	5	1	1	75.4301	OVR	2024-09-21T08:24:14
WG1974470-4; 1 UP TO 5	19	Unknown	?	1.2524	5	1	1	75.4853	OVR	2024-09-21T08:25:24
L2453851-02; 1 UP TO 5	20	Unknown	?	0.1500	5	1	1	9.0200		2024-09-21T08:26:33
CCV NO3	21	QC	1	0.0830	1	1	1	0.9968		2024-09-21T08:27:39
CCV NO2	22	QC	?	0.0820	1	1	1	0.9839		2024-09-21T08:28:45
CCB	23	QC	0	0.0000	1	1	1	-0.0044		2024-09-21T08:29:54

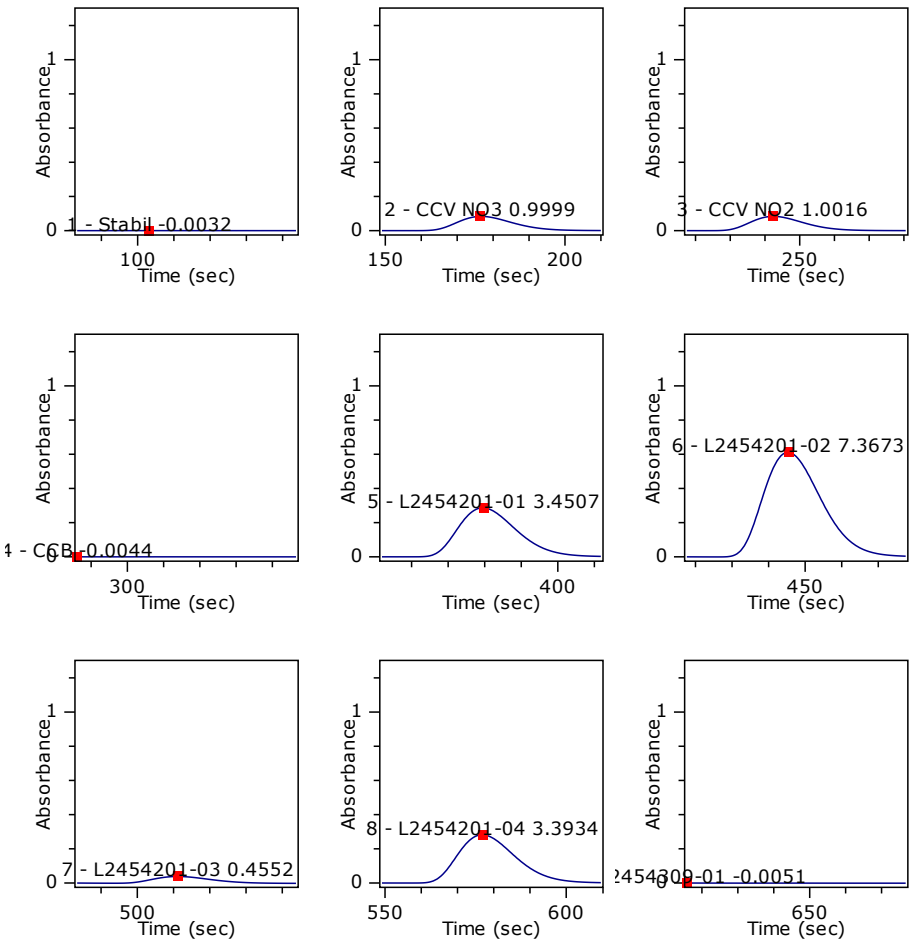
Channel: 2-NO2

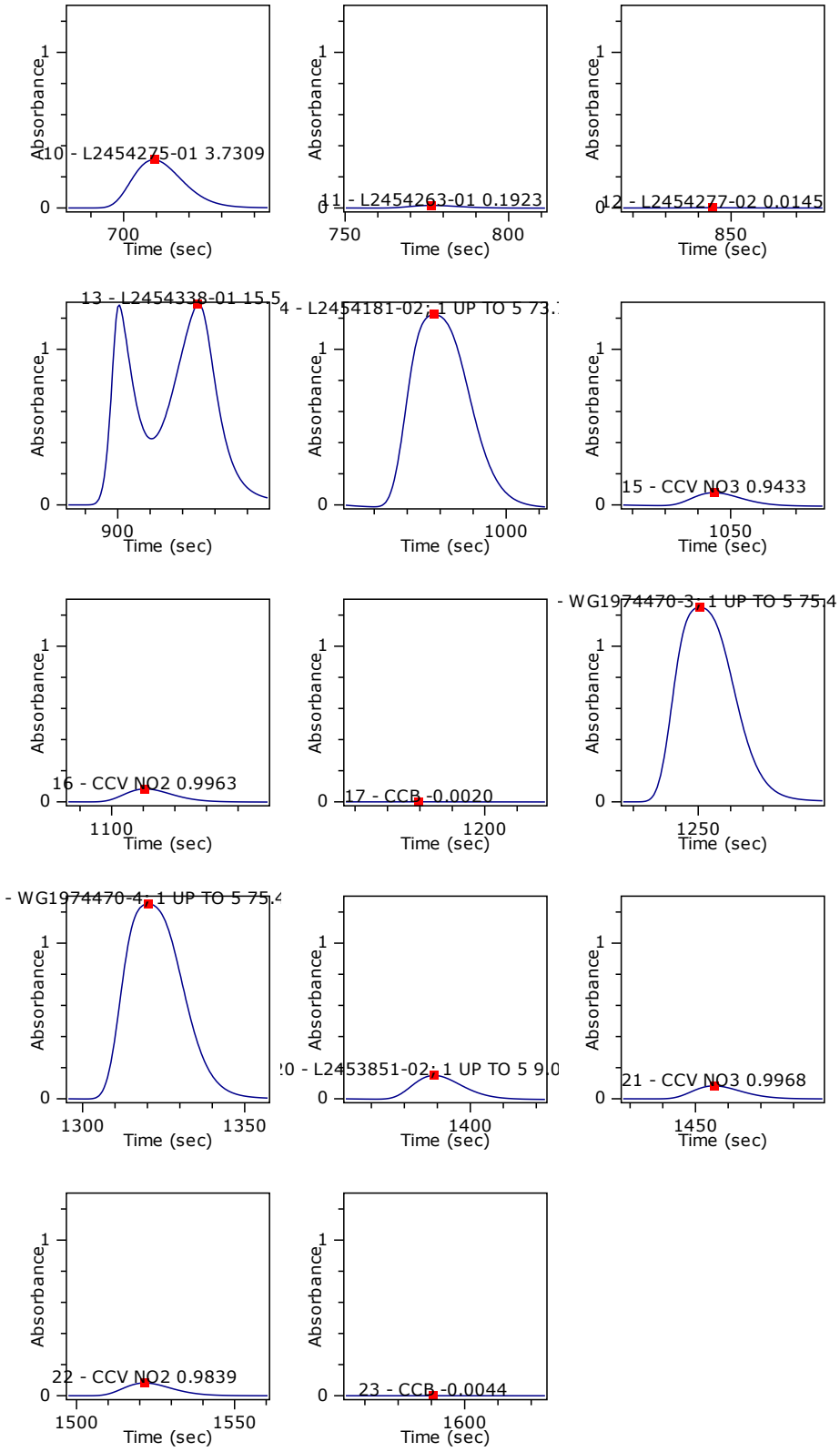
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0028		2024-09-21T08:04:56
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0026		2024-09-21T08:06:07
CCV NO2	3	QC	1	0.1304	1	1	1	0.9872		2024-09-21T08:07:12
CCB	4	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T08:08:23
L2454201-01	5	Unknown	?	0.0008	1	1	1	0.0022		2024-09-21T08:09:29
L2454201-02	6	Unknown	?	0.0011	1	1	1	0.0050		2024-09-21T08:10:35
L2454201-03	7	Unknown	?	0.0516	1	1	1	0.3886		2024-09-21T08:11:41
L2454201-04	8	Unknown	?	0.0012	1	1	1	0.0052		2024-09-21T08:12:46
L2454309-01	9	Unknown	?	0.0000	1	1	1	-0.0032		2024-09-21T08:14:01
L2454275-01	10	Unknown	?	0.0000	1	1	1	-0.0033		2024-09-21T08:15:03
L2454263-01	11	Unknown	?	0.0237	1	1	1	0.1761		2024-09-21T08:16:06

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454277-02	12	Unknown	?	0.0008	1	1	1	0.0026		2024-09-21T08:17:13
L2454338-01	13	Unknown	?	0.0997	1	1	1	0.7534		2024-09-21T08:18:20
L2454181-02; 1 UP TO 5	14	Unknown	?	0.0440	5	1	1	1.6535		2024-09-21T08:19:29
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0025		2024-09-21T08:20:35
CCV NO2	16	QC	1	0.1302	1	1	1	0.9851		2024-09-21T08:21:40
CCB	17	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T08:22:52
WG1974470-3; 1 UP TO 5	18	Unknown	?	0.0442	5	1	1	1.6597		2024-09-21T08:24:02
WG1974470-4; 1 UP TO 5	19	Unknown	?	0.0431	5	1	1	1.6204		2024-09-21T08:25:11
L2453851-02; 1 UP TO 5	20	Unknown	?	0.0243	5	1	1	0.9032		2024-09-21T08:26:20
CCV NO3	21	QC	?	0.0001	1	1	1	-0.0026		2024-09-21T08:27:26
CCV NO2	22	QC	1	0.1304	1	1	1	0.9866		2024-09-21T08:28:31
CCB	23	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T08:29:43

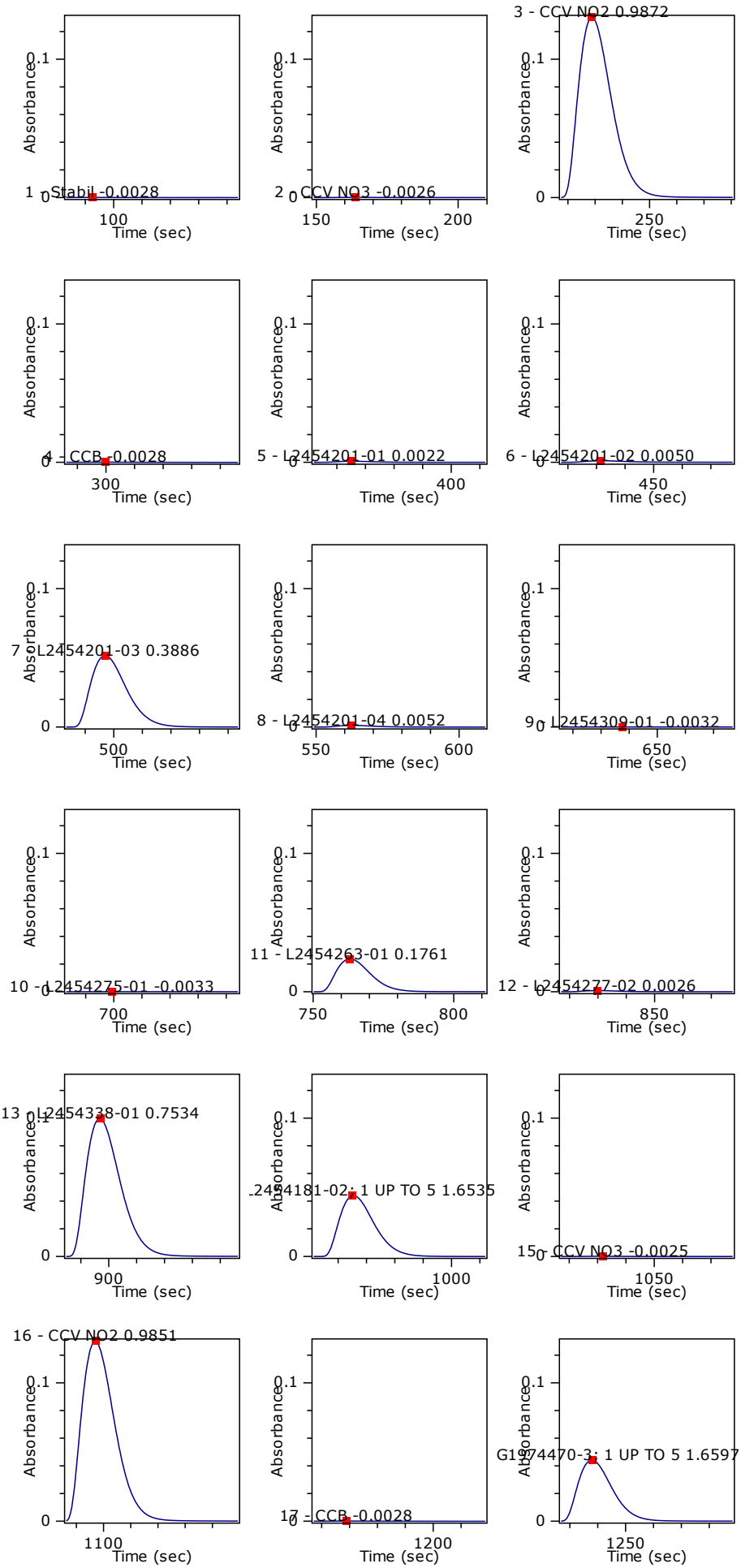
Peaks:

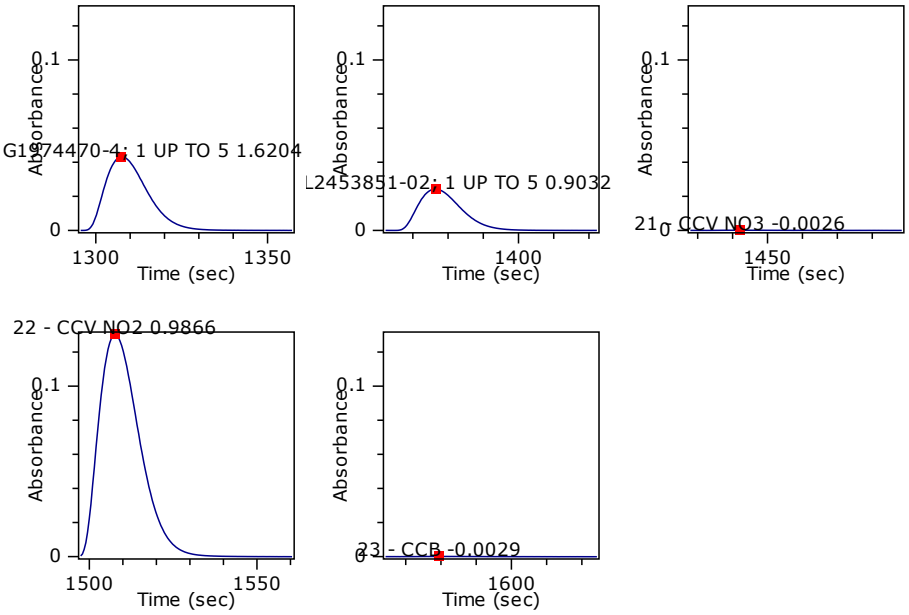
Channel: 1-NOx





Channel: 2-NO2


1 - Stabil -0.0028
2 - CCV NO3 -0.0026
3 - CCV NO2 0.9872
4 - CCB -0.0028
5 - L2454201-01 0.0022
6 - L2454201-02 0.0050
7 - L2454201-03 0.3886
8 - L2454201-04 0.0052
9 - L2454309-01 -0.0032
10 - L2454275-01 -0.0033
11 - L2454263-01 0.1761
12 - L2454277-02 0.0026
13 - L2454338-01 0.7534
14 - L2454181-02; 1 UP TO 5 1.6535
15 - CCV NO3 -0.0025
16 - CCV NO2 0.9851
17 - CCB -0.0028
18 - G1974470-3; 1 UP TO 5 1.6597
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T08:03:23

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

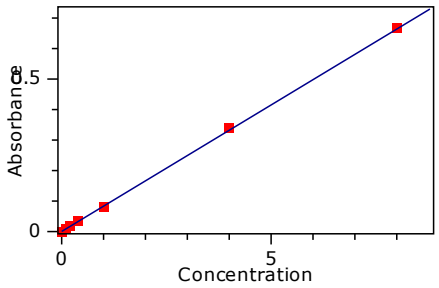
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 09:26:16
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-092550.dat

Dataset Notes:

Analyst	

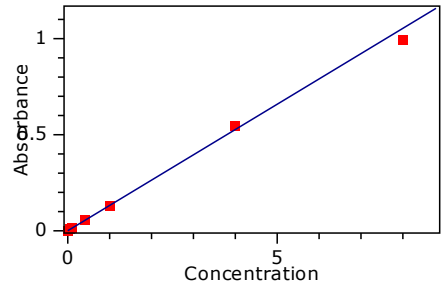
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00037
B: 0.08294
R^2: 0.99987
RSE(%): 2.47701
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.66720	8.00000	8.04000	0.50	N/A
10002	NOx 4.0ppm	0.34030	4.00000	4.09890	2.47	N/A
10003	NOx 1.0ppm	0.08010	1.00000	0.96080	3.92	N/A
10004	NOx 0.4ppm	0.03410	0.40000	0.40660	1.64	N/A
10005	NOx 0.2ppm	0.01690	0.20000	0.19930	0.34	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.10010	0.14	N/A
10007	NOx 0.0ppm	0.00010	0.00000	-0.00320	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00047
B: 0.13165
R^2: 0.99823
RSE(%): 4.38727
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99500	8.00000	7.55440	5.57	N/A
10002	Nitrite 4.0ppm	0.54310	4.00000	4.12190	3.05	N/A
10003	Nitrite 1.0ppm	0.13000	1.00000	0.98370	1.63	N/A
10004	Nitrite 0.4ppm	0.05590	0.40000	0.42120	5.30	N/A
10005	Nitrite 0.1ppm	0.01390	0.10000	0.10190	1.90	N/A
10006	Nitrite 0.05ppm	0.00700	0.05000	0.04920	1.51	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00290	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	-0.0023		2024-09-21T08:55:02
CCV NO3	2	QC	1	0.0829	1	1	1	0.9952		2024-09-21T08:56:17
CCV NO2	3	QC	?	0.0837	1	1	1	1.0043		2024-09-21T08:57:23
CCB	4	QC	0	0.0000	1	1	1	-0.0040		2024-09-21T08:58:36

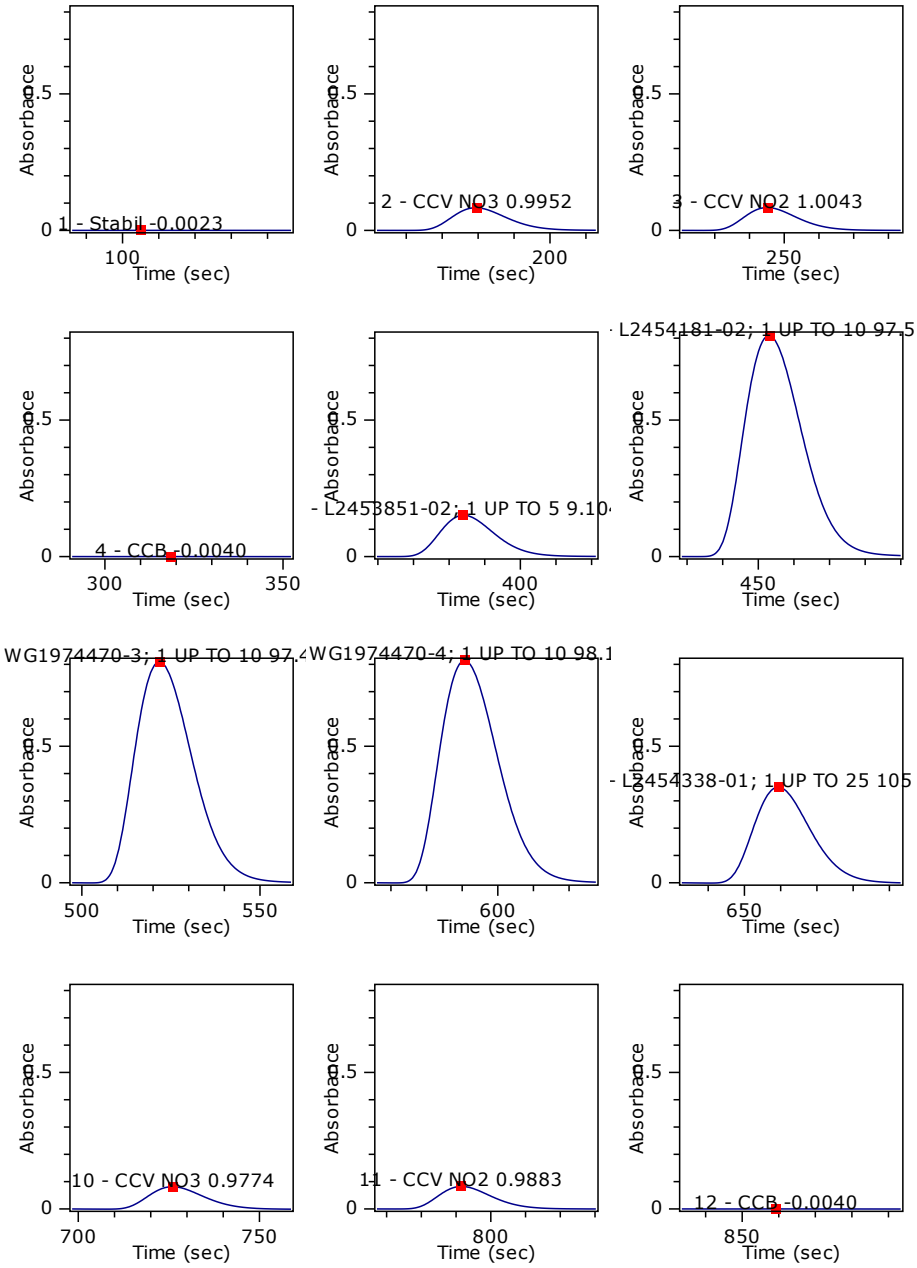
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453851-02; 1 UP TO 5	5	Unknown	?	0.1514	5	1	1	9.1047		2024-09-21T08:59:41
L2454181-02; 1 UP TO 10	6	Unknown	?	0.8094	10	1	1	97.5554	OVR	2024-09-21T09:00:51
WG1974470-3; 1 UP TO 10	7	Unknown	?	0.8090	10	1	1	97.4967	OVR	2024-09-21T09:01:59
WG1974470-4; 1 UP TO 10	8	Unknown	?	0.8143	10	1	1	98.1390	OVR	2024-09-21T09:03:08
L2454338-01; 1 UP TO 25	9	Unknown	?	0.3503	25	1	1	105.4742		2024-09-21T09:04:17
CCV NO3	10	QC	1	0.0814	1	1	1	0.9774		2024-09-21T09:05:24
CCV NO2	11	QC	?	0.0823	1	1	1	0.9883		2024-09-21T09:06:29
CCB	12	QC	0	0.0000	1	1	1	-0.0040		2024-09-21T09:07:37

Channel: 2-NO2

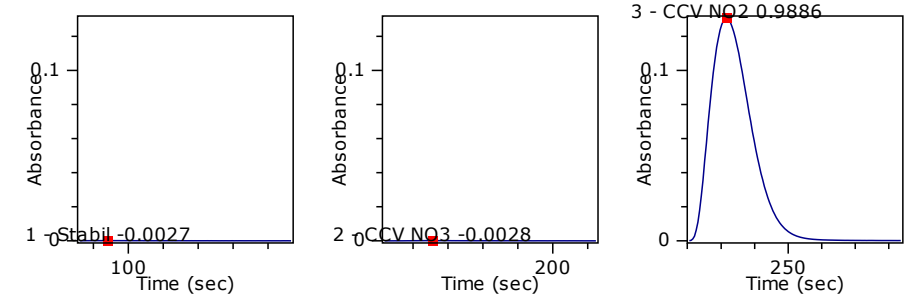
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0027		2024-09-21T08:54:52
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T08:56:03
CCV NO2	3	QC	1	0.1306	1	1	1	0.9886		2024-09-21T08:57:09
CCB	4	QC	0	0.0001	1	1	1	-0.0027		2024-09-21T08:58:20
L2453851-02; 1 UP TO 5	5	Unknown	?	0.0241	5	1	1	0.8960		2024-09-21T08:59:29
L2454181-02; 1 UP TO 10	6	Unknown	?	0.0220	10	1	1	1.6347		2024-09-21T09:00:38
WG1974470-3; 1 UP TO 10	7	Unknown	?	0.0221	10	1	1	1.6411		2024-09-21T09:01:46
WG1974470-4; 1 UP TO 10	8	Unknown	?	0.0217	10	1	1	1.6086		2024-09-21T09:02:55
L2454338-01; 1 UP TO 25	9	Unknown	?	0.0039	25	1	1	0.6584		2024-09-21T09:04:04
CCV NO3	10	QC	?	0.0001	1	1	1	-0.0026		2024-09-21T09:05:10
CCV NO2	11	QC	1	0.1297	1	1	1	0.9813		2024-09-21T09:06:15
CCB	12	QC	0	0.0001	1	1	1	-0.0029		2024-09-21T09:07:29

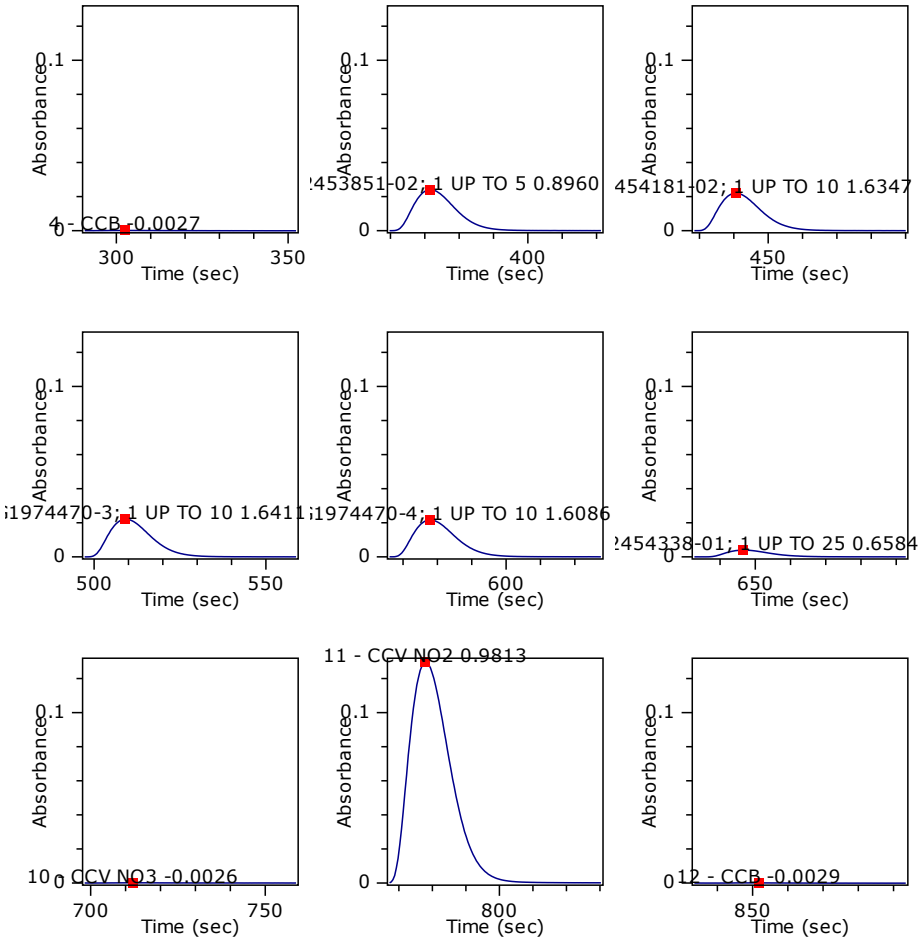
Peaks:

Channel: 1-NOx



Channel: 2-NO2





Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False

Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T08:53:18

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
```

```
    Delay (sec) 1
    Next Sample
    Autosampler Probe Force Down

    Spectrometer Reference Scan
    Spectrometer Absorbance Scanning

    Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

    FIAlab Injection Valve Sample Load

    Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

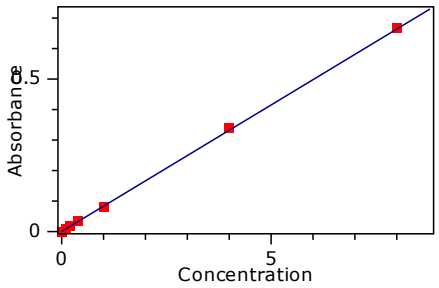
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 09:42:16
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-094200.dat

Dataset Notes:

Analyst	

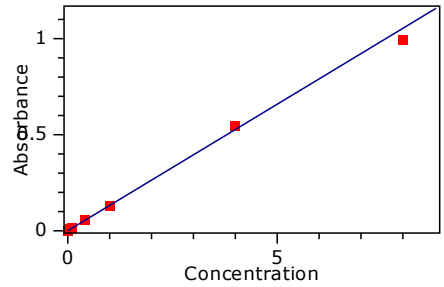
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00037
B: 0.08294
R^2: 0.99987
RSE(%): 2.47701
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.66720	8.00000	8.04000	0.50	N/A
10002	NOx 4.0ppm	0.34030	4.00000	4.09890	2.47	N/A
10003	NOx 1.0ppm	0.08010	1.00000	0.96080	3.92	N/A
10004	NOx 0.4ppm	0.03410	0.40000	0.40660	1.64	N/A
10005	NOx 0.2ppm	0.01690	0.20000	0.19930	0.34	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.10010	0.14	N/A
10007	NOx 0.0ppm	0.00010	0.00000	-0.00320	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00047
B: 0.13165
R^2: 0.99823
RSE(%): 4.38727
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99500	8.00000	7.55440	5.57	N/A
10002	Nitrite 4.0ppm	0.54310	4.00000	4.12190	3.05	N/A
10003	Nitrite 1.0ppm	0.13000	1.00000	0.98370	1.63	N/A
10004	Nitrite 0.4ppm	0.05590	0.40000	0.42120	5.30	N/A
10005	Nitrite 0.1ppm	0.01390	0.10000	0.10190	1.90	N/A
10006	Nitrite 0.05ppm	0.00700	0.05000	0.04920	1.51	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00290	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	-0.0026		2024-09-21T09:28:22
CCV NO3	2	QC	1	0.0836	1	1	1	1.0038		2024-09-21T09:29:31
CCV NO2	3	QC	?	0.0825	1	1	1	0.9908		2024-09-21T09:30:37
CCB	4	QC	0	0.0001	1	1	1	-0.0038		2024-09-21T09:31:45

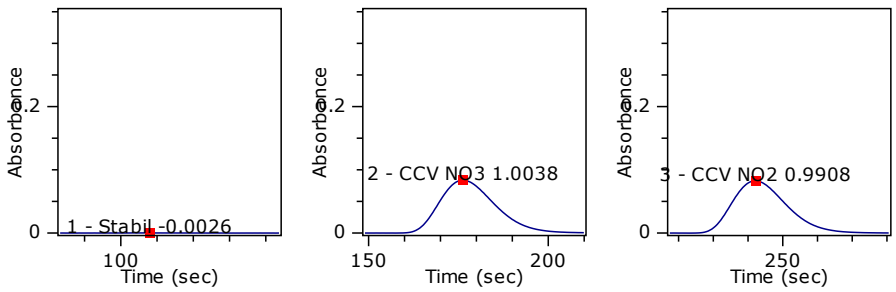
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454181-02; 1 UP TO 25	5	Unknown	?	0.3427	25	1	1	103.1915		2024-09-21T09:32:55
WG1974470-3; 1 UP TO 25	6	Unknown	?	0.3499	25	1	1	105.3621		2024-09-21T09:34:04
WG1974470-4; 1 UP TO 25	7	Unknown	?	0.3498	25	1	1	105.3324		2024-09-21T09:35:13
L2454338-01; 1 UP TO 25	8	Unknown	?	0.3515	25	1	1	105.8425		2024-09-21T09:36:22
CCV NO3	9	QC	1	0.0804	1	1	1	0.9652		2024-09-21T09:37:29
CCV NO2	10	QC	?	0.0817	1	1	1	0.9806		2024-09-21T09:38:34
CCB	11	QC	0	0.0000	1	1	1	-0.0045		2024-09-21T09:39:42

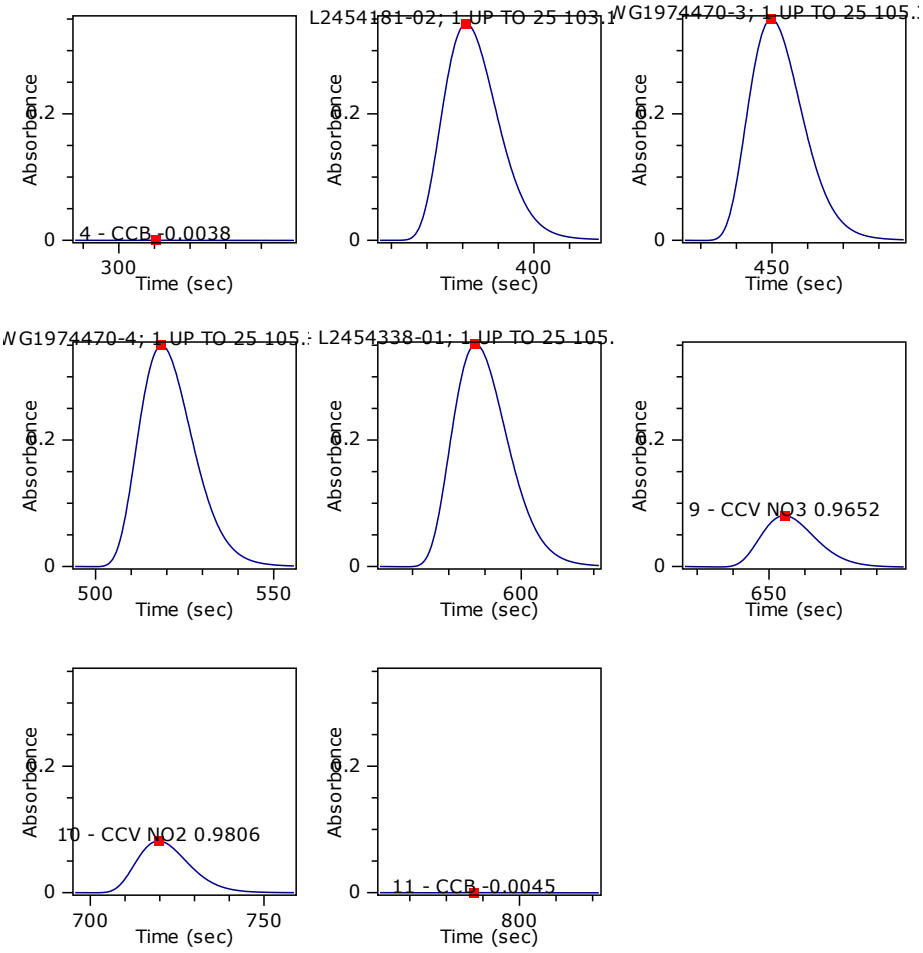
Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0030		2024-09-21T09:28:04
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T09:29:19
CCV NO2	3	QC	1	0.1305	1	1	1	0.9879		2024-09-21T09:30:23
CCB	4	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T09:31:34
L2454181-02; 1 UP TO 25	5	Unknown	?	0.0089	25	1	1	1.5937		2024-09-21T09:32:43
WG1974470-3; 1 UP TO 25	6	Unknown	?	0.0089	25	1	1	1.5952		2024-09-21T09:33:52
WG1974470-4; 1 UP TO 25	7	Unknown	?	0.0086	25	1	1	1.5377		2024-09-21T09:35:01
L2454338-01; 1 UP TO 25	8	Unknown	?	0.0040	25	1	1	0.6645		2024-09-21T09:36:09
CCV NO3	9	QC	?	0.0001	1	1	1	-0.0028		2024-09-21T09:37:14
CCV NO2	10	QC	1	0.1293	1	1	1	0.9785		2024-09-21T09:38:21
CCB	11	QC	0	0.0001	1	1	1	-0.0028		2024-09-21T09:39:34

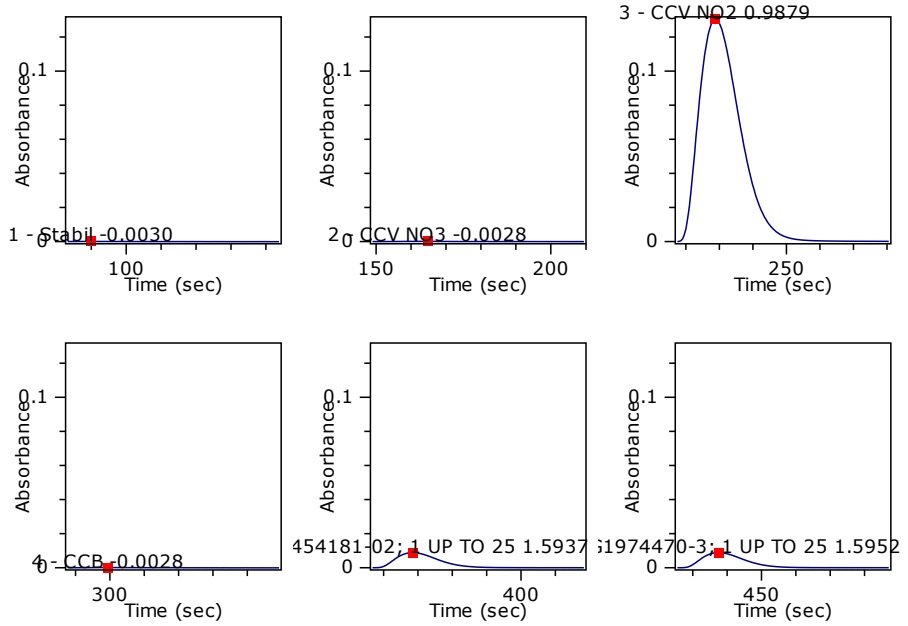
Peaks:

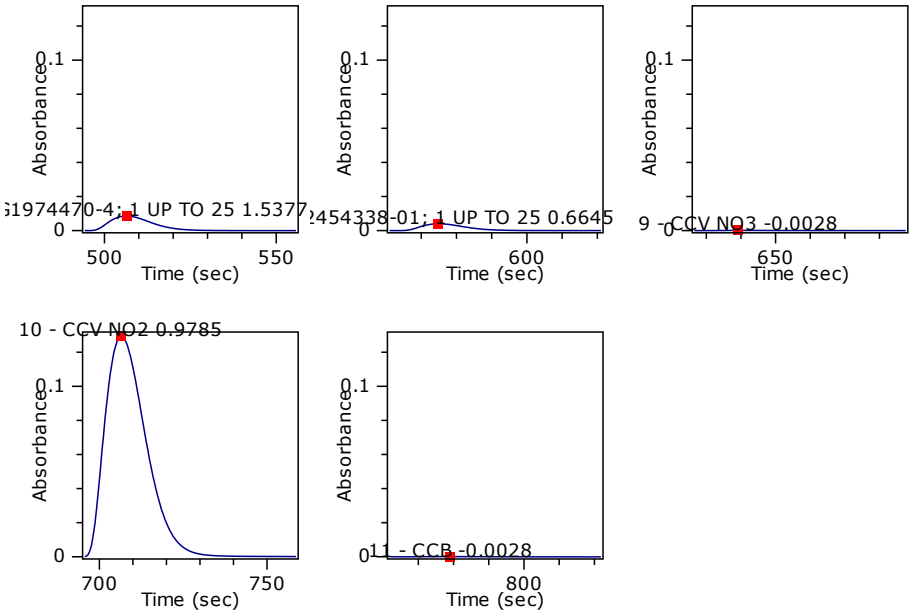
Channel: 1-NOx





Channel: 2-NO2





Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T09:26:35

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

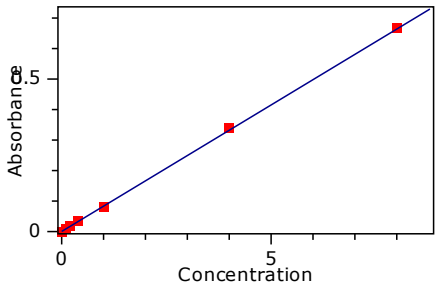
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-21 10:17:34
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-21-101717.dat

Dataset Notes:

Analyst	

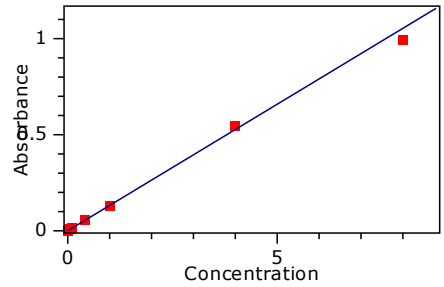
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00037
B: 0.08294
R^2: 0.99987
RSE(%): 2.47701
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.66720	8.00000	8.04000	0.50	N/A
10002	NOx 4.0ppm	0.34030	4.00000	4.09890	2.47	N/A
10003	NOx 1.0ppm	0.08010	1.00000	0.96080	3.92	N/A
10004	NOx 0.4ppm	0.03410	0.40000	0.40660	1.64	N/A
10005	NOx 0.2ppm	0.01690	0.20000	0.19930	0.34	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.10010	0.14	N/A
10007	NOx 0.0ppm	0.00010	0.00000	-0.00320	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00047
B: 0.13165
R^2: 0.99823
RSE(%): 4.38727
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99500	8.00000	7.55440	5.57	N/A
10002	Nitrite 4.0ppm	0.54310	4.00000	4.12190	3.05	N/A
10003	Nitrite 1.0ppm	0.13000	1.00000	0.98370	1.63	N/A
10004	Nitrite 0.4ppm	0.05590	0.40000	0.42120	5.30	N/A
10005	Nitrite 0.1ppm	0.01390	0.10000	0.10190	1.90	N/A
10006	Nitrite 0.05ppm	0.00700	0.05000	0.04920	1.51	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00290	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	-0.0026		2024-09-21T10:04:17
CCV NO3	2	QC	1	0.0813	1	1	1	0.9763		2024-09-21T10:05:26
CCV NO2	3	QC	?	0.0807	1	1	1	0.9686		2024-09-21T10:06:32
CCB	4	QC	0	0.0000	1	1	1	-0.0042		2024-09-21T10:07:42

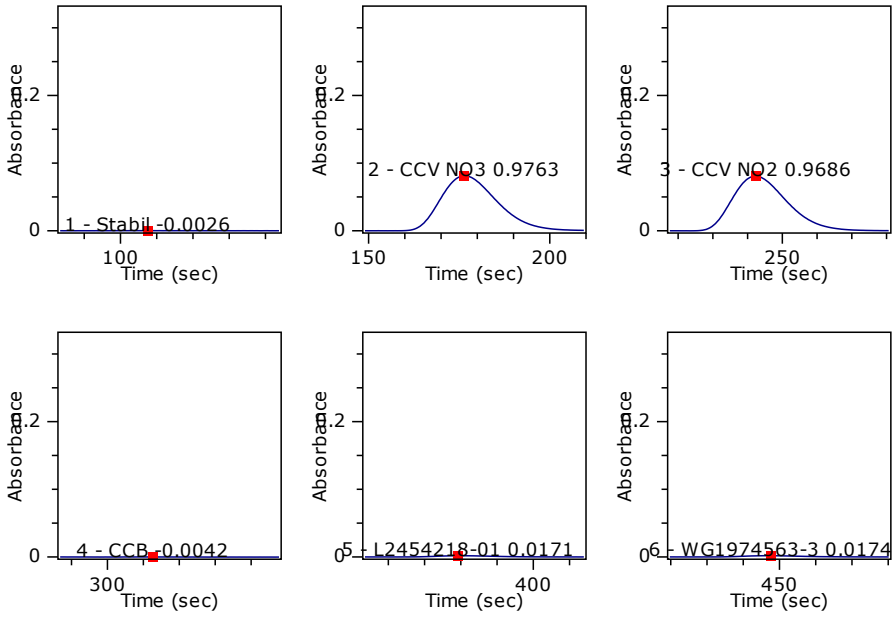
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2454218-01	5	Unknown	?	0.0018	1	1	1	0.0171		2024-09-21T10:08:49
WG1974563-3	6	Unknown	?	0.0018	1	1	1	0.0174		2024-09-21T10:09:57
WG1974563-4	7	Unknown	?	0.3288	1	1	1	3.9601		2024-09-21T10:11:03
CCV NO3	8	QC	1	0.0808	1	1	1	0.9698		2024-09-21T10:12:08
CCV NO2	9	QC	?	0.0812	1	1	1	0.9751		2024-09-21T10:13:13
CCB	10	QC	0	0.0000	1	1	1	-0.0041		2024-09-21T10:14:24

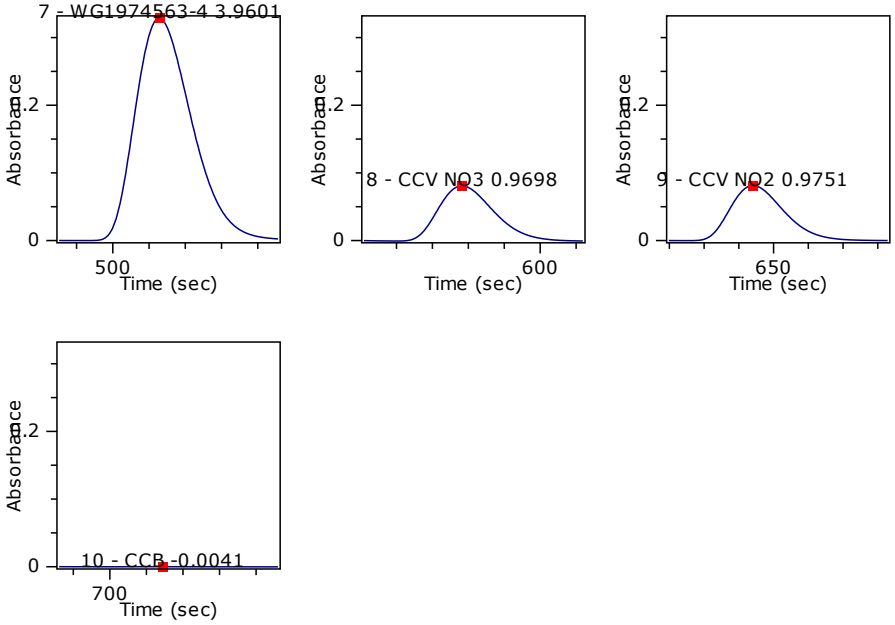
Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0026		2024-09-21T10:04:09
CCV NO3	2	QC	?	0.0002	1	1	1	-0.0024		2024-09-21T10:05:13
CCV NO2	3	QC	1	0.1291	1	1	1	0.9769		2024-09-21T10:06:18
CCB	4	QC	0	0.0001	1	1	1	-0.0025		2024-09-21T10:07:31
L2454218-01	5	Unknown	?	0.0019	1	1	1	0.0110		2024-09-21T10:08:36
WG1974563-3	6	Unknown	?	0.0019	1	1	1	0.0110		2024-09-21T10:09:43
WG1974563-4	7	Unknown	?	0.4991	1	1	1	3.7875		2024-09-21T10:10:49
CCV NO3	8	QC	?	0.0002	1	1	1	-0.0020		2024-09-21T10:11:53
CCV NO2	9	QC	1	0.1289	1	1	1	0.9755		2024-09-21T10:13:01
CCB	10	QC	0	0.0002	1	1	1	-0.0024		2024-09-21T10:14:13

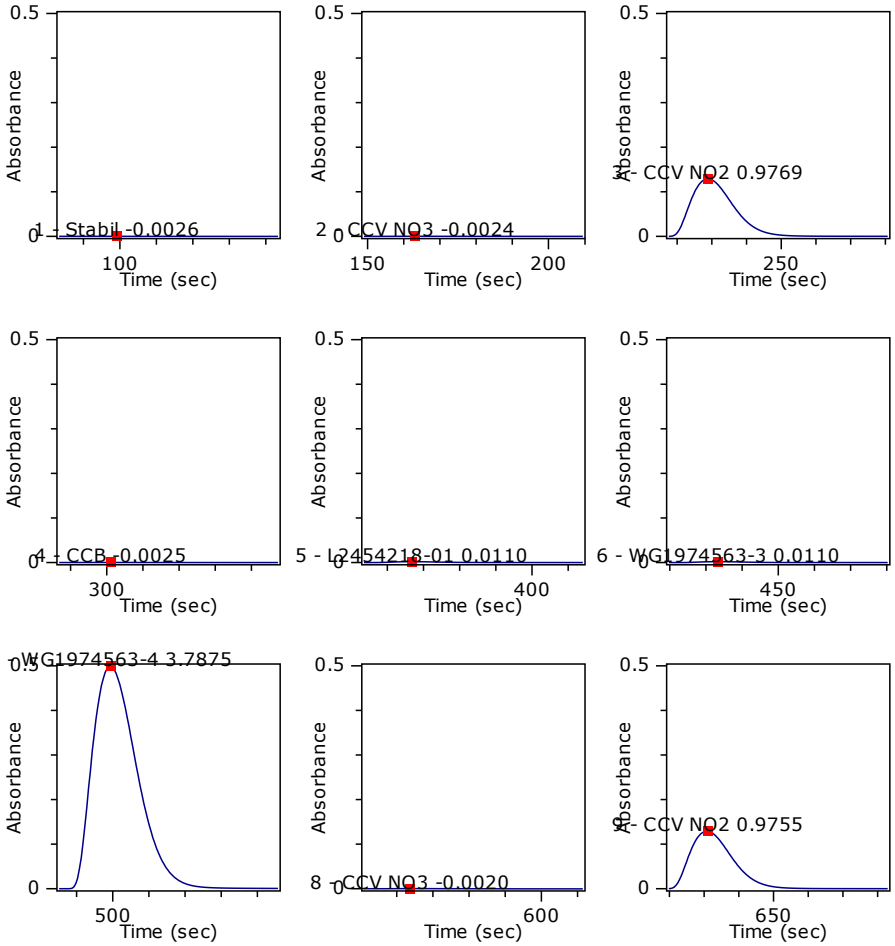
Peaks:

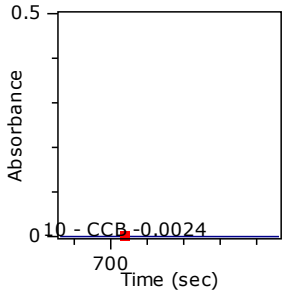
Channel: 1-NOx





Channel: 2-NO2





Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
```

```
Integration Time: 35
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-21T10:02:30

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.
```

```
    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

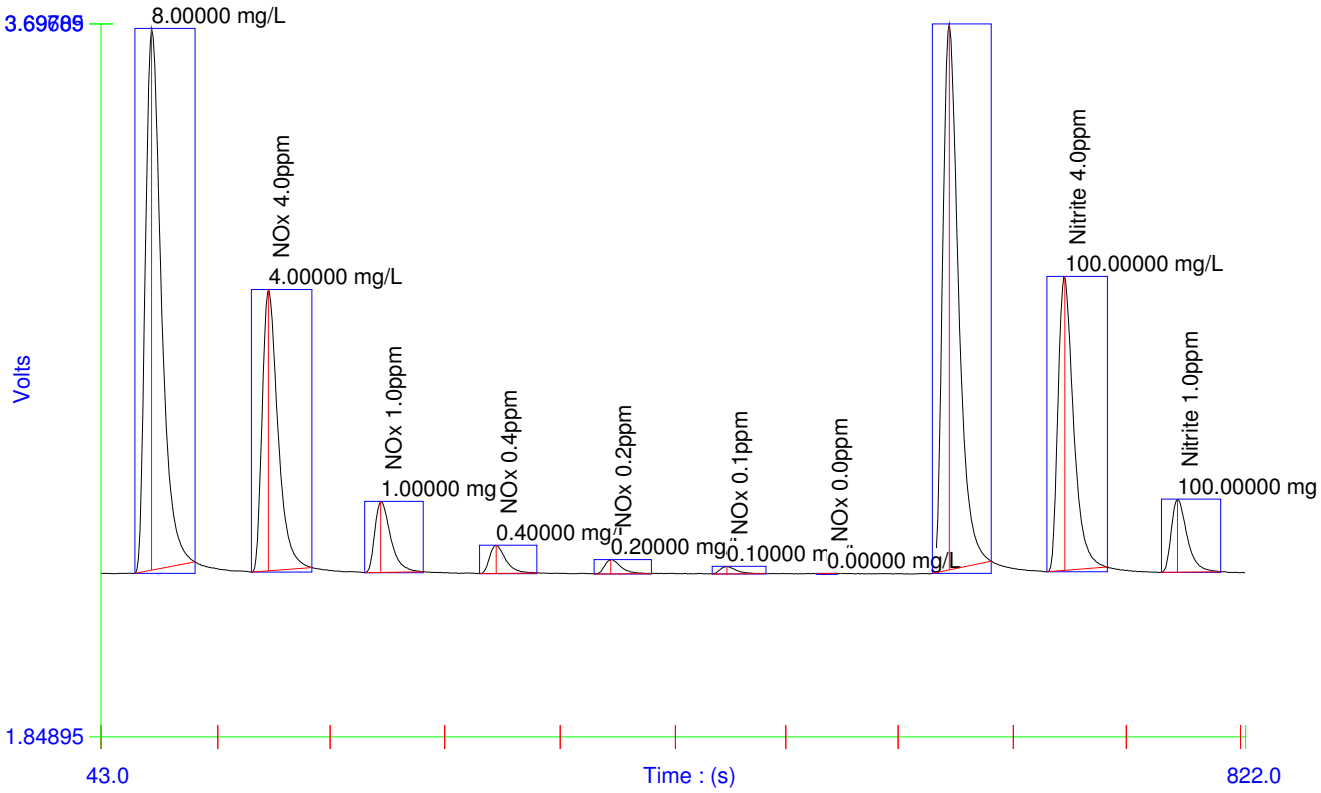
Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Original Run Filename: OM_9-21-2024_08-29-06AM.OMN Created: 9/21/2024 8:29:06 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_9-21-2024_08-29-06AM.OMN Last Modified: 9/21/2024 9:28:45 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.01547	-0.01235			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.04250	1.07208			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00555	-0.00959			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.87013	-0.00621			
ICV NO2 5.0	1	2	5.06768	5.12041			
ICV NO3 0.5	1	3	0.50611	-0.01356			
ICV NO2 0.5	1	4	0.52283	0.53798			
ICB	1	5	-0.00853	-0.00919			
DILUTER CHK 8PPM	1	6	8.70153	-0.03927	5.00		
WG1974513-1; 5.0757	1	7	0.12686	-0.02358			0.10151 g
WG1974513-2; 5.0171	1	8	48.37550	-0.01646			0.10034 g
WG1974512-1; 5.0757	1	9	-0.12436	-0.05400			0.10151 g
WG1974512-2; 5.1100	1	10	49.66204	50.12344			0.10220 g
CCV NO3	1	S2	1.01653	-0.01403			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04844	1.06203			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00790	-0.01135			
	Known Conc:		0.00000	0.00000			
WG1974512-5	1	11	1.15639	1.06405			0.10000 g
L2452073-01; 5.0837	1	12	0.13238	0.00409			0.10167 g
WG1974513-3; 5.0020	1	13	0.13812	-0.00102			0.10004 g
WG1974513-4; 5.0348	1	14	91.00108	-0.20077	5.00		0.10070 g
WG1974512-3; 5.0020	1	15	0.12134	-0.00182			0.10004 g
WG1974512-4; 5.0687	1	16	89.33211	91.58638	5.00		0.10137 g
L2451415-01; 5.0497	1	17	0.14236	0.01024			0.10099 g
L2453579-01; 5.1366	1	18	1.47100	0.79944			0.10273 g
CCV NO3	1	S2	1.02464	-0.00647			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05611	1.08130			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00441	-0.00817			
	Known Conc:		0.00000	0.00000			

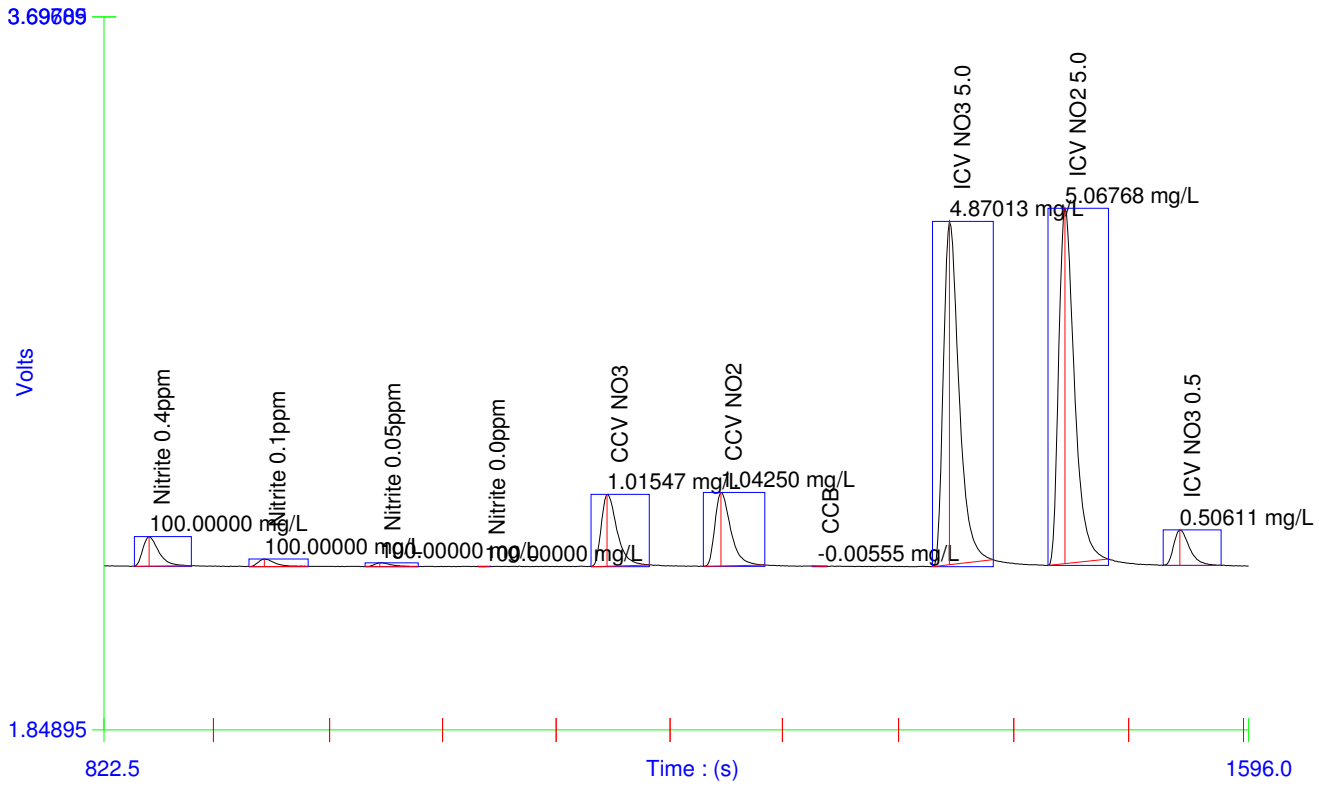
Author: KAF TRAY 1 Date : 240921-1

Channel 1 (NO3+NO2) - Set: 1 / 5



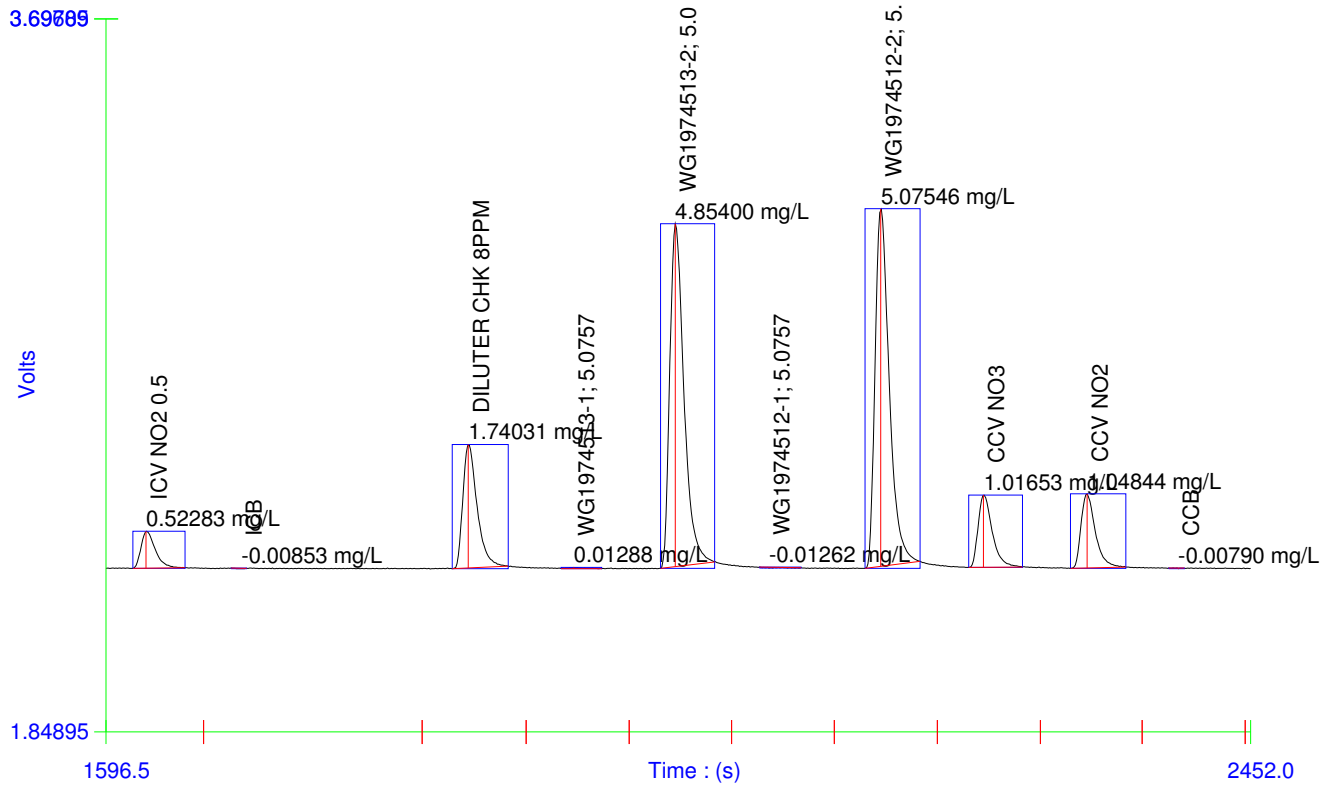
Author: KAF TRAY 1 Date : 240921-1

Channel 1 (NO3+NO2) - Set: 2 / 5



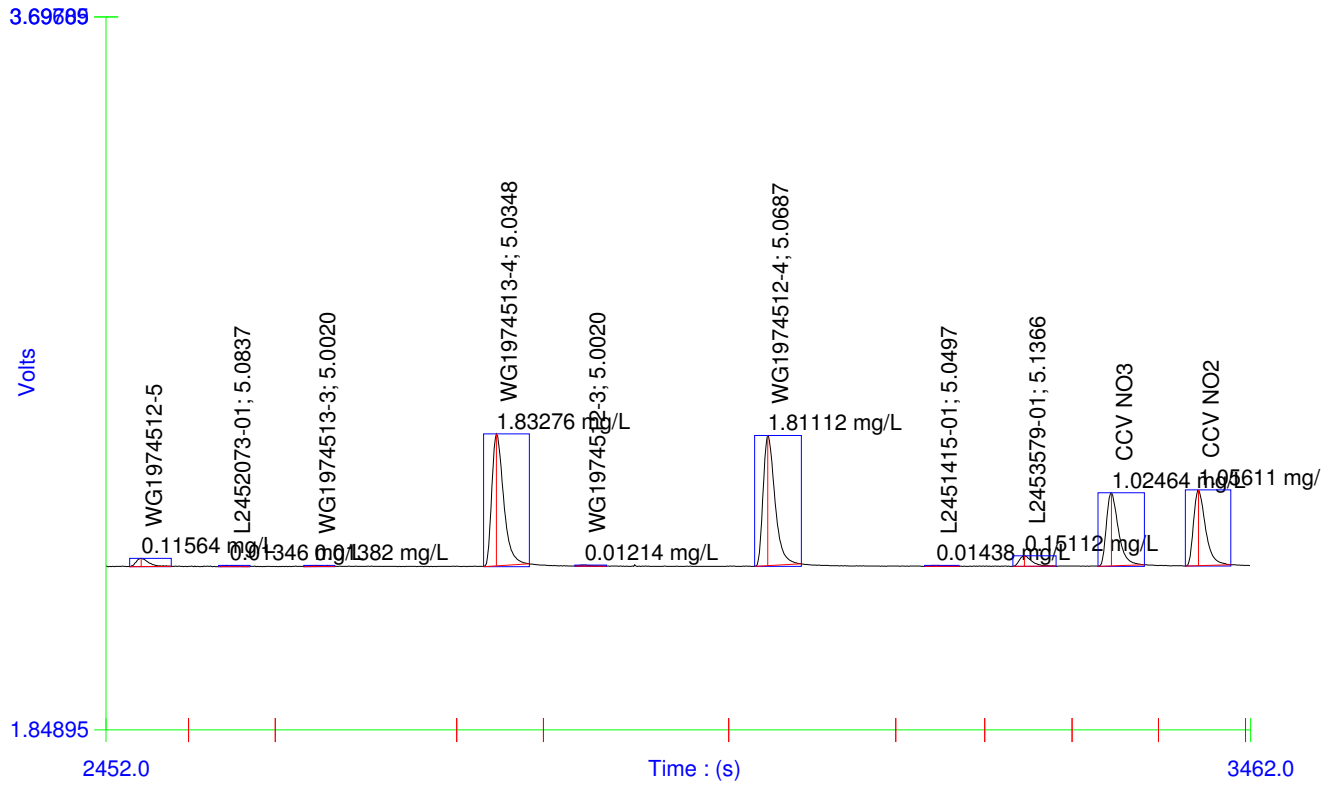
Author: KAF TRAY 1 Date : 240921-1

Channel 1 (NO3+NO2) - Set: 3 / 5

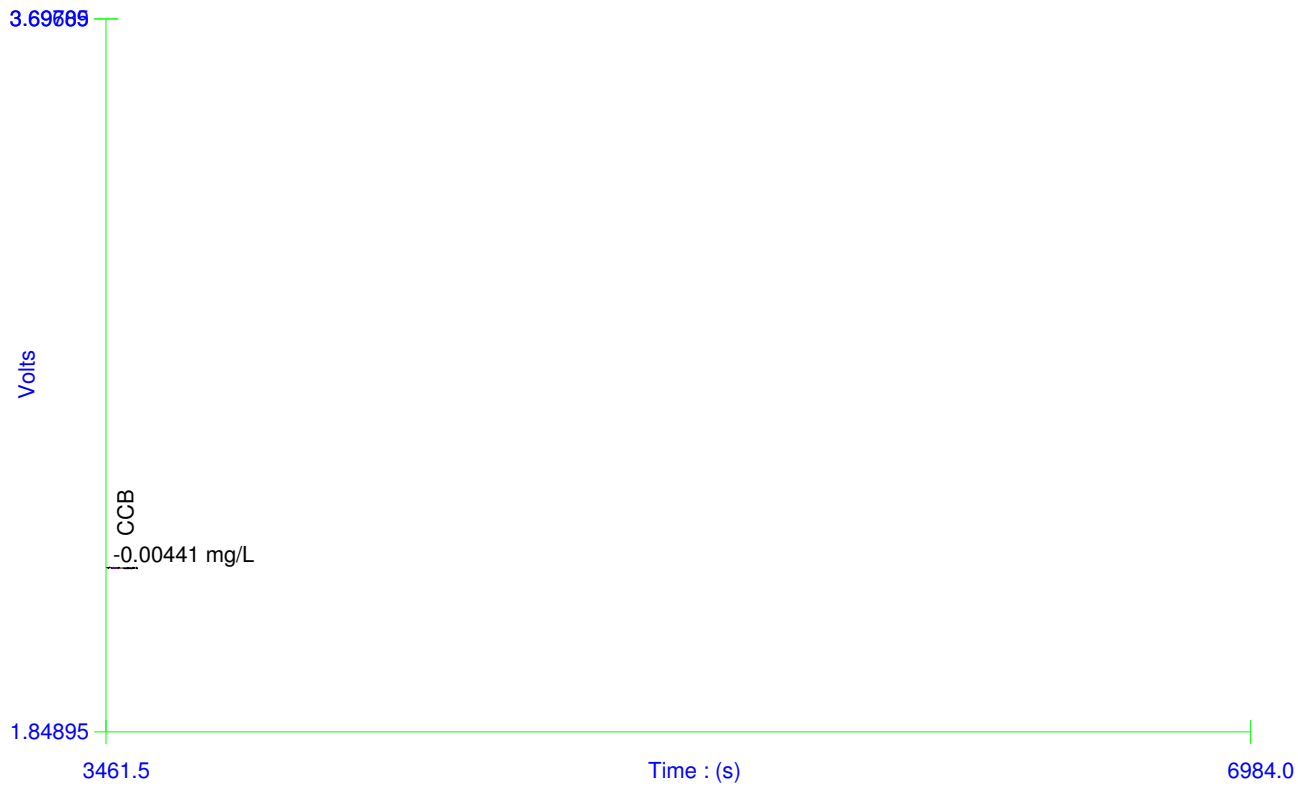


Author: KAF TRAY 1 Date : 240921-1

Channel 1 (NO3+NO2) - Set: 4 / 5

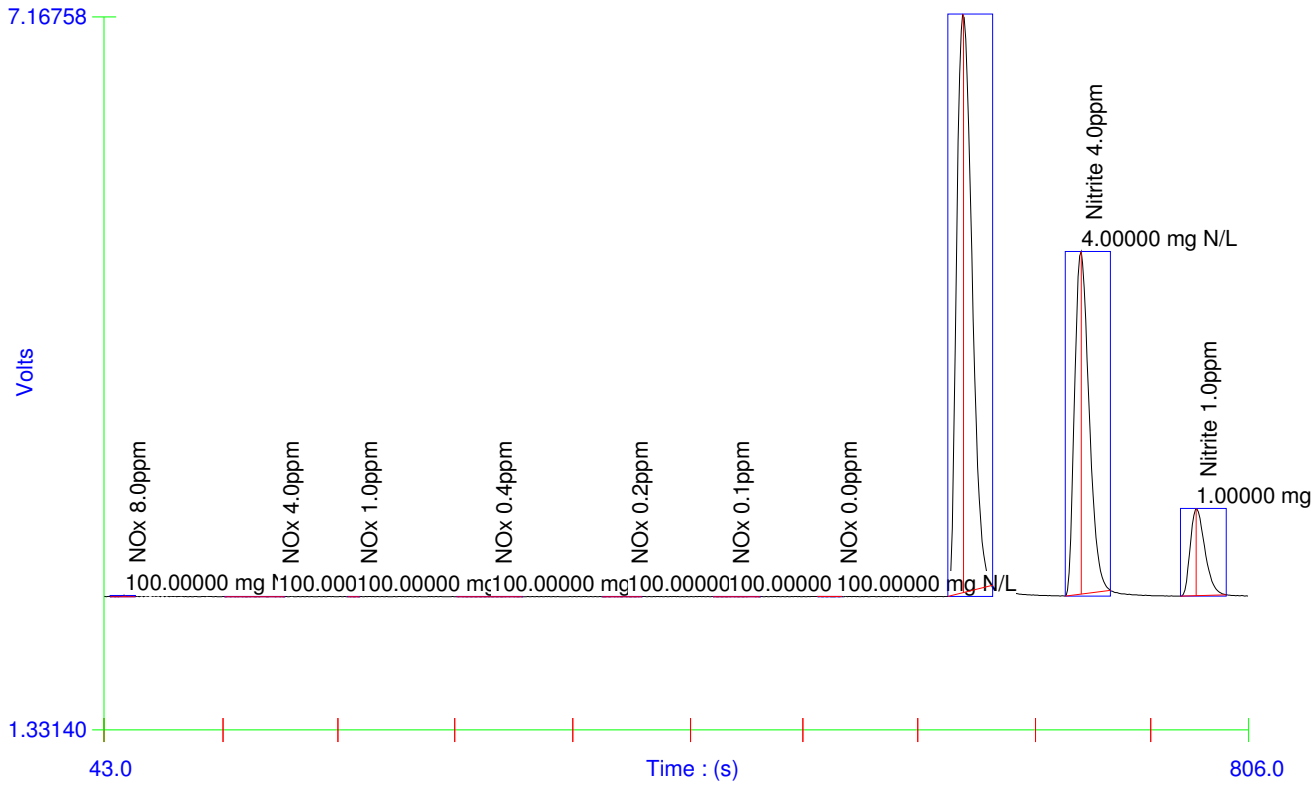


Channel 1 (NO3+NO2) - Set: 5 / 5



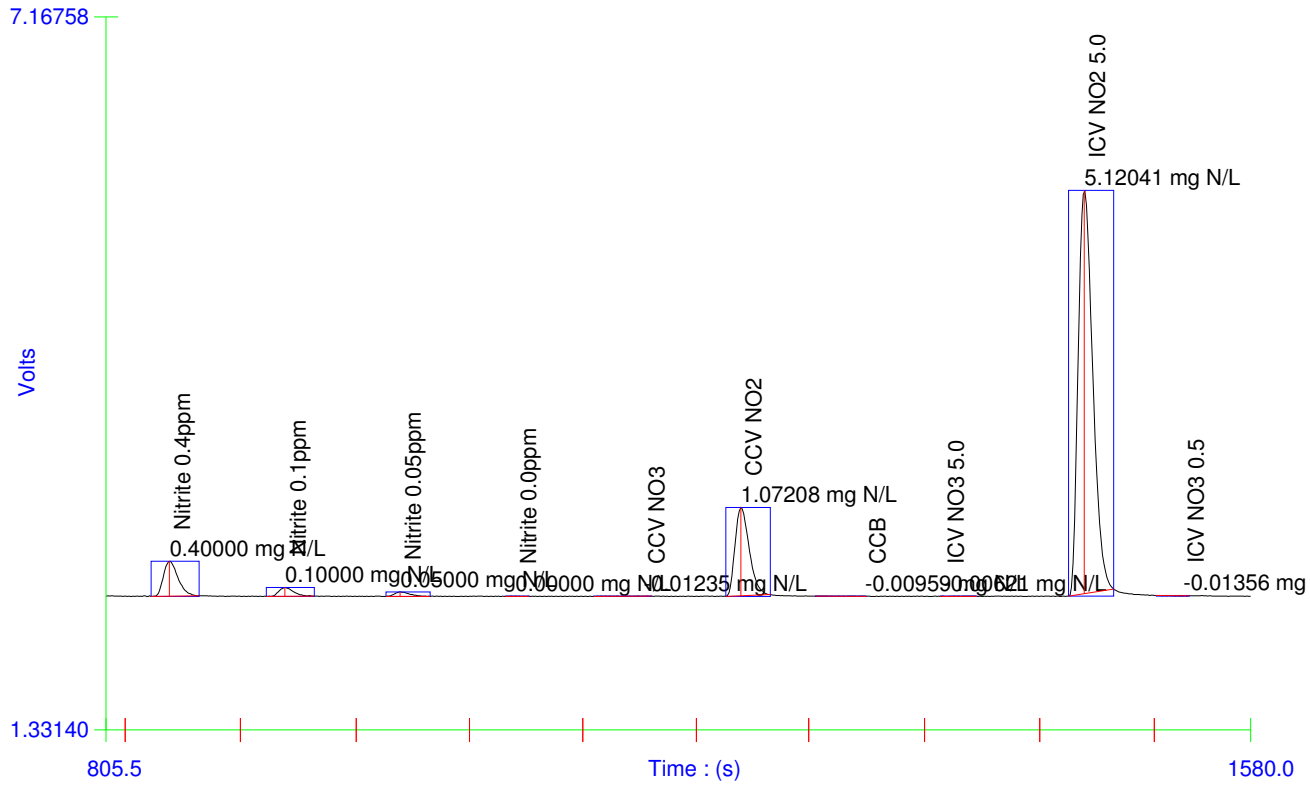
Author: KAF TRAY 1 Date : 240921-1

Channel 2 (NO2) - Set: 1 / 5



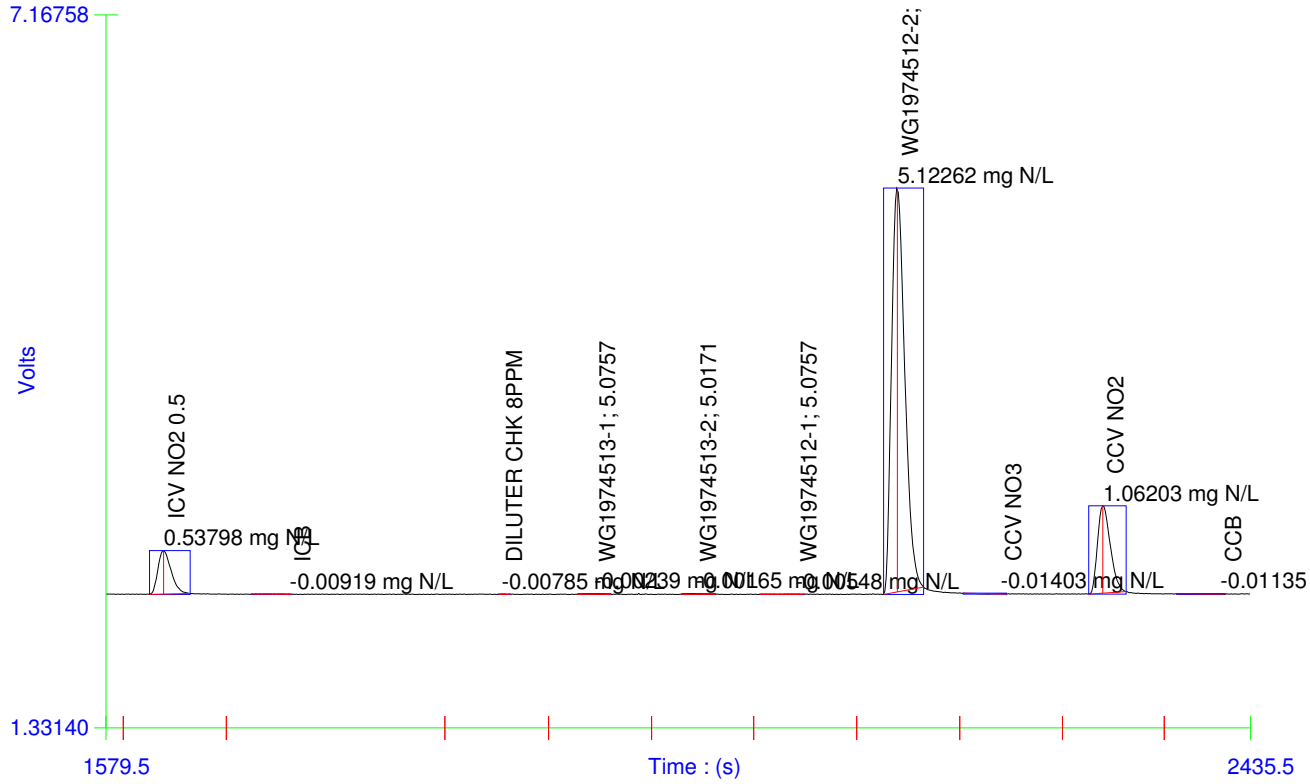
Author: KAF TRAY 1 Date : 240921-1

Channel 2 (NO2) - Set: 2 / 5

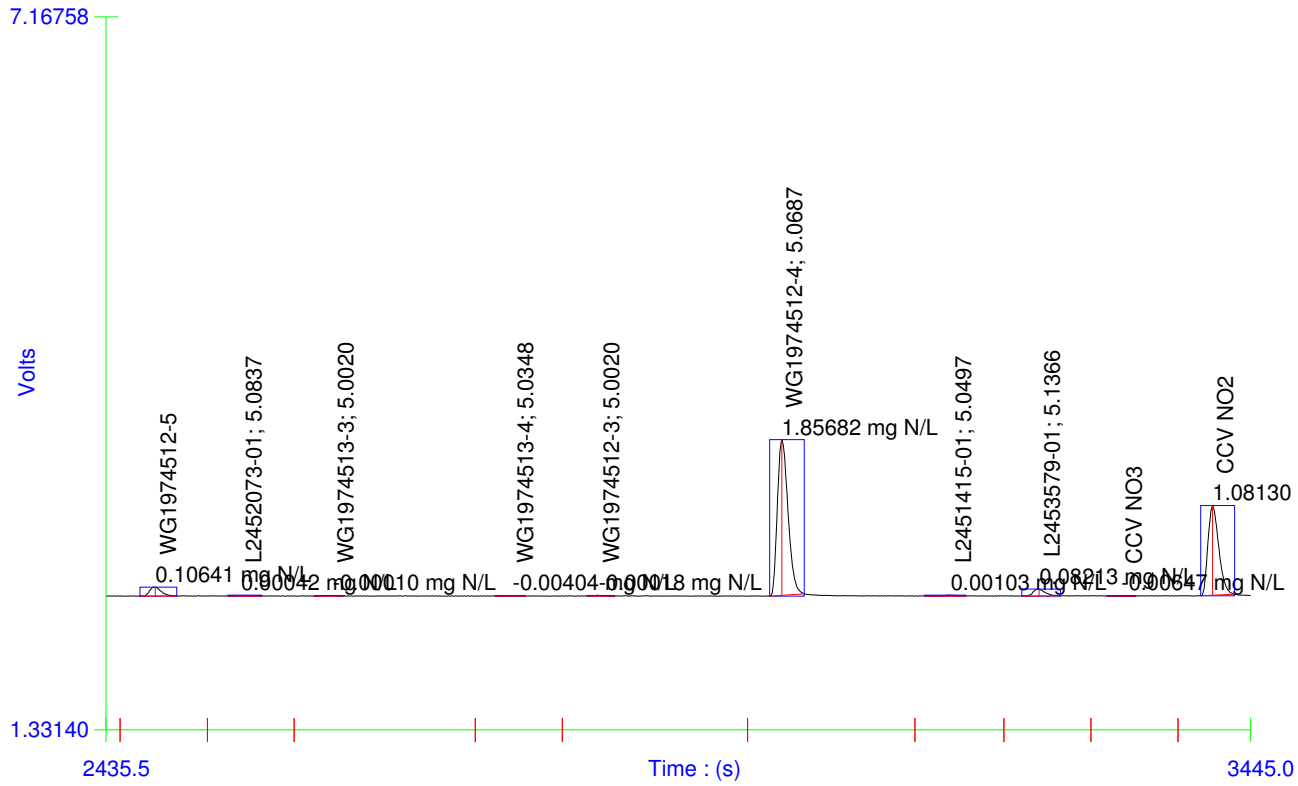


Author: KAF TRAY 1 Date : 240921-1

Channel 2 (NO2) - Set: 3 / 5



Channel 2 (NO2) - Set: 4 / 5



Channel 2 (NO2) - Set: 5 / 5

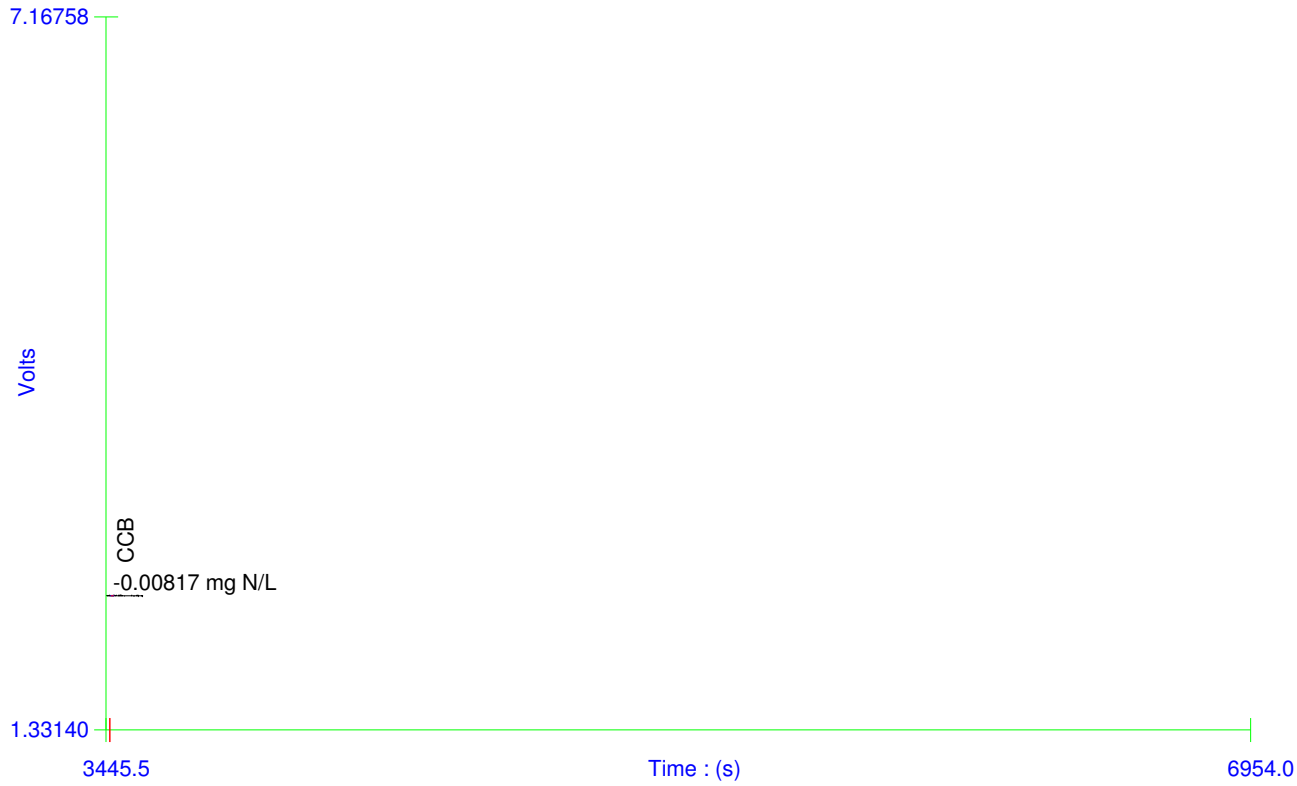


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.73595	1.40413	0.0	0.9	7.92908	9/21/2024	8:30:02 AM
2	4.00000	1	9.03329	0.72850	0.0	-0.9	4.03645	9/21/2024	8:31:22 AM
3	1.00000	1	2.27824	0.18382	0.0	-1.5	1.01498	9/21/2024	8:32:39 AM
4	0.40000	1	0.91928	0.07278	0.0	-1.8	0.40713	9/21/2024	8:33:57 AM
5	0.20000	1	0.46665	0.03663	0.0	-2.3	0.20467	9/21/2024	8:35:15 AM
6	0.10000	1	0.24361	0.01924	0.0	-4.7	0.10491	9/21/2024	8:36:34 AM
7	0.00000	1	-0.01452	-0.00180			-0.01055	9/21/2024	8:37:49 AM

Figure : 1 (NO3+NO2)

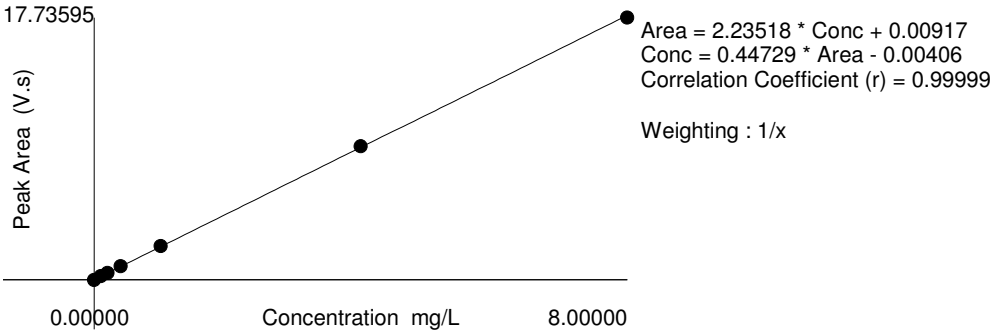
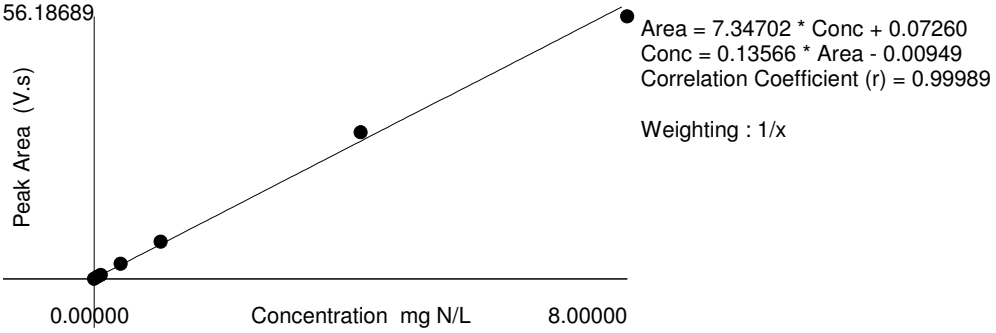


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.18689	4.73455	0.0	4.5	7.61308	9/21/2024	8:39:06 AM
2	4.00000	1	31.33063	2.80328	0.0	-6.3	4.24097	9/21/2024	8:40:25 AM
3	1.00000	1	7.97721	0.71410	0.0	-7.5	1.07274	9/21/2024	8:41:42 AM
4	0.40000	1	3.24350	0.28589	0.0	-7.7	0.43054	9/21/2024	8:42:59 AM
5	0.10000	1	0.81773	0.07142	0.0	-1.3	0.10145	9/21/2024	8:44:18 AM
6	0.05000	1	0.43178	0.03656	0.0	1.9	0.04909	9/21/2024	8:45:36 AM
7	0.00000	1	0.01193	0.00202			-0.00787	9/21/2024	8:46:53 AM

Figure : 2 (Nitrite)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453053-01		
Matrix Spike	: WG1974476-4	**MS Analysis Date**	: 09/21/24 06:23
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Nitrate/Nitrite	0.93	4	5.2	107					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/21/24 06:20
Dup Sample ID	: WG1974476-3	**DUP Analysis Date**	: 09/21/24 06:21

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.93	0.94	1	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974476-2	**LCS Analysis Date**	: 09/21/24 04:54
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.20**	**104.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
092124	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_091924_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_091824_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_082924_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_092124_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_092124_5PPM_ICV*
X	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_091224_5PPM_ICV*
24	RA7	BLANK NO3	*ICV NO3 0.5: NO3_092124_0.5PPM_ICV*
25	RA8	LCS NO3	*ICV NO2 0.5: NO2_092124_0.5PPM_ICV*
26	RA9	BLANK NO2	
27	RA10	LCS NO2	
31	RA11	WG1974468/469-1; NO2/563	
32	RA12	WG1974468/469-2; NO2/563	
33	RA13	WG1974470-1; NO3	
34	RA14	WG1974470-2; NO3	
35	RA15	WG1974471-1; NO3	*OOH*
36	RA16	WG1974471-2; NO3	*DW*
37	RA17	WG1974472-1; NO3	GOING OOH
38	RA18	WG1974472-2; NO3	FIELD BLANK
39	RA19	WG1974474-1; CNO3	
40	RA20	WG1974474-2; CNO3	
27	RA21	WG1974476-1; CNO3	
28	RA22	WG1974476-2; CNO3	
29	RA23	L2453990-01	
30	RA24	WG1974472-3; NO3	
31	RA25	WG1974472-4; NO3	
32	RA26	L2453990-02	
33	RA27	L2453990-03	
34	RA28	L2453990-04	
35	RA29	L2453990-05	
36	RA30	L2453990-06	
40	RA31	L2453990-07	
41	RA32	L2453990-08	
42	RA33	L2453990-09	
43	RA34	L2453576-06	
44	RA35	L2454051-01	
45	RA36	WG1974470-5; NO3	
46	RA37	WG1974470-6; NO3	
47	RA38	L2454051-02	
48	RA39	L2454051-03	
49	RA40	L2454051-04	
53	RA41	L2454051-05	
54	RA42	L2454181-02	
55	RA43	WG1974470-3; NO3	

Injection #	Rack #	Sample ID:	Comments:
56	RA44	WG1974470-4; NO3	
57	RA45	WG1974468-3; NO2	
58	RA46	WG1974468-4; NO2	
59; 131	RA47	L2454221-01	
60	RA48	L2454326-01	
61	RA49	L2454350-01	
62	RA50	L2454013-01	
66	RA51	L2454312-02	
67	RA52	L2454312-03	
68	RA53	L2454312-04	
69	RA54	L2454324-01	
70	RA55	WG1974471-3; NO3	
71	RA56	WG1974471-4; NO3	
72	RA57	WG1974469-3; NO2	
73	RA58	WG1974469-4; NO2	
74	RA59	L2454324-02	
75	RA60	L2454324-03	
79	RA61	L2454324-04	
80	RA62	L2454324-05	
81	RA63	L2454324-06	
82	RA64	L2454324-07	
83	RA65	L2452564-01	
84	RA66	L2452564-02	
85	RA67	L2453362-01	
86	RA68	WG1974474-3; CNO3	
87	RA69	WG1974474-4; CNO3	
88	RA70	L2453559-02	
92	RA71	L2453559-04	
93	RA72	L2453559-07	
94	RA73	L2453562-01	
95	RA74	L2453851-01	
96	RA75	L2453851-02	
97; 132	RA76	L2453950-01	
98	RA77	L2454072-01	
99	RA78	L2454081-01	
100	RA79	WG1974474-5; CNO3	
101	RA80	WG1974474-6; CNO3	
105	RA81	L2454081-02	
106	RA82	L2453053-01	
107	RA83	WG1974476-3; CNO3	
108	RA84	WG1974476-4; CNO3	
109	RA85	L2453053-02	
110	RA86	L2453053-03	
111	RA87	L2453053-04	
112	RA88	L2453053-05	
113	RA89	L2453123-02	

Injection #	Rack #	Sample ID:	Comments:
114	RA90	L2453131-01	
118	RB1	L2453131-02	
119	RB2	L2453342-01	
120	RB3	L2453342-02	
121	RB4	L2453342-03	
122	RB5	L2453342-04	
123	RB6	L2453342-05	
124	RB7	L2453342-06	
125	RB8	L2453342-07	
126	RB9	L2453342-08	
127	RB10	L2453342-10	
5	RB11	L2454201-01D	
6	RB12	L2454201-02D	
7	RB13	L2454201-03D	
8	RB14	L2454201-04D	
9	RB15	L2454309-01P	
10	RB16	L2454275-01A	
11	RB17	L2454263-01A	
12	RB18	L2454277-02A	
13	RB19	L2454338-01A	
5	RB20	L2454218-01A	
6	RB21	WG1974563-3; NO2	
7	RB22	WG1974563-4; NO2	
14	RD1	L2454181-02	
18	RD2	WG1974470-3	
19	RD3	WG1974470-4	
20; 5	RD4	L2453851-02	
6	RD5	l2454181-02	
7	RD6	WG1974470-3	
8	RD7	WG1974470-4	
9; 8	RD8	l2454338-01	
5	RD9	L2454181-02	
6	RD10	WG1974470-3	
7	RD11	WG1974470-4	

Injection #	Rack #	Sample ID:	Comments:		
	1	ICV NO3 5			
	2	ICV NO2 5			
	3	ICV NO3 0.5			
	4	ICV NO2 0.5			
	5	ICB			
	6	5X DILUTER CHECK			
	7	WG1974513-1	5.0757	0.101514	
	8	WG1974513-2	5.0171	0.100342	49.82958
	9	WG1974512-1	5.0757	0.101514	
	10	WG1974512-2	5.1100	0.1022	48.92368
	11	WG1974512-5			
	12	L2452073-01	5.0837	0.101674	
	13	WG1974513-3	5.0020	0.10004	
	14	WG1974513-4	5.0348	0.100696	79.44705
	15	WG1974512-3	5.0020	0.10004	
	16	WG1974512-4	5.0687	0.101374	78.9157
	17	L2451415-01	5.0497	0.100994	
	18	L2453579-01	5.1366	0.102732	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974431.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974431.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	160	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-03	**Date Collected**	:	09/17/24 08:25
Client ID	:	MW-13D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 22:13
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG1974703.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	110	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	320	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	89.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	13	4.0	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-08	**Date Collected**	:	09/17/24 12:55
Client ID	:	PZ-6	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 22:13
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG1974703.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	240	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-10	**Date Collected**	:	09/17/24 00:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 22:13
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG1974703.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974431-1	**Date Collected**	: NA
Client ID	: WG1974431-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/20/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974431.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974431-3	**Date Collected**	: 09/16/24 11:15
Client ID	: WG1974431-3 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/20/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974431.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	89.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974431-4	**Date Collected**	: 09/16/24 12:45
Client ID	: WG1974431-4 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/20/24 17:50
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974431.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974703-1	**Date Collected**	: NA
Client ID	: WG1974703-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	7.0	10	3.1	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974703-3	**Date Collected**	: 09/17/24 09:45
Client ID	: WG1974703-3 DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	200	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974703-4	**Date Collected**	: 09/17/24 11:00
Client ID	: WG1974703-4 DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/21/24 22:13
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1974703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	220	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: SEP-23-24 15:27:38

WorkGroup	WG1974703	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	23-SEP-24 06:55	**Time In**	23-SEP-24 09:52	**Time In**	23-SEP-24 12:52	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	23-SEP-24 09:02	**Time Out**	23-SEP-24 11:58	**Time Out**	23-SEP-24 15:00	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	21-SEP-24 23:43

LCS Lot #	**TrueValue**	**Units**
082724C	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2453342-03	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	X1	77340422	70.0627	80	70.0712	70.0713				106.25	1.3	
L2453342-04	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	CF	77340422	62.1851	80	62.2106	62.2127	62.2152			318.75	1.3	
L2453342-05	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	P3	77340422	66.9087	80	66.9158	66.9161				88.75	1.3	
L2453342-06	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	BC	77340422	125.928	80	125.9283	125.9287				3.75	1.3	
L2453342-07	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	X4	77340422	72.4926	80	72.5008	72.5007				101.25	1.3	
L2453342-08	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	B4	77340422	64.4507	80	64.4698	64.4701				238.75	1.3	
L2453342-10	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	X9	77340422	60.9393	100	60.9386	60.9387				-7.00		
L2453383-01	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	EU	77340422	63.7442	80	63.7514	63.7518				90.00	1.3	
L2453399-01	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	BS	77340422	107.2277	80	107.2434	107.2438				196.25	1.3	T2
L2453399-02	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	FD	77340422	66.0867	80	66.1076	66.1077				261.25	1.3	
L2453399-03	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	XR	77340422	67.3951	80	67.4027	67.4028				95.00	1.3	
L2453399-04	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	QD	77340422	107.8373	50	107.8476	107.8476				206.00		MAT

Wet Chemistry Gravimetric ELN

Printed: SEP-23-24 15:27:38

WorkGroup	WG1974703	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	23-SEP-24 06:55	**Time In**	23-SEP-24 09:52	**Time In**	23-SEP-24 12:52	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	23-SEP-24 09:02	**Time Out**	23-SEP-24 11:58	**Time Out**	23-SEP-24 15:00	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	21-SEP-24 23:43

LCS Lot #	**TrueValue**	**Units**
082724C	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)			Result mg/L	Dil	Comment
L2453399-05	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	FX	77340422	61.5444	50	61.5515	61.5515	142.00		MAT
L2453400-01	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	QG	77340422	106.9993	80	107.0444	107.0447	563.75	1.3	
L2453400-02	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	QF	77340422	116.5947	80	116.6361	116.6357	512.50	1.3	
L2453400-03	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	BV	77340422	109.3482	50	109.3747	109.3749	530.00		MAT
L2453400-04	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	X3	77340422	66.7477	100	66.7478	66.748	1.00		
L2453433-01	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	BN	77340422	104.7296	30	104.7436	104.7433	456.67		MAT
L2453433-02	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	PT	77340422	109.4706	80	109.5173	109.5175	583.75	1.3	
WG1974703-1	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	MQ	77340422	89.4497	100	89.4504	89.4506	7.00	1	
WG1974703-2	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	M	77340422	63.6414	50	63.6655	63.6655	482.00	2	
WG1974703-3	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	W44	77340422	72.5788	80	72.5944	72.5948	195.00	1.3	
WG1974703-4	21-SEP-24 22:13	RENATA MUKHAMETZHANOVA	BI	77340422	123.7885	80	123.8057	123.8061	215.00	1.3	

Wet Chemistry Gravimetric ELN

Printed: SEP-22-24 00:08:33

WorkGroup	WG1974431	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	21-SEP-24 15:25	**Time In**	21-SEP-24 21:10	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	21-SEP-24 19:31	**Time Out**	21-SEP-24 22:25	**Time Out**		**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)** 90	**Time In** 20-SEP-24 20:30								**LCS Lot #** 082724C		**TrueValue** 500	**Units** mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2453058-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	L10	77340422	68.3192	80	68.3257	68.3254				77.50	1.3	
L2453058-02	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	BIR	77340422	84.421	80	84.4309	84.4312				123.75	1.3	
L2453058-03	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	PZ	77340422	64.6046	80	64.6165	64.6163				146.25	1.3	
L2453063-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	BQ	77340422	110.8623	80	110.9414	110.9412				986.25	1.3	
L2453081-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	RK	77340422	84.0354	80	84.0654	84.0655				375.00	1.3	
L2453081-02	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	P8	77340422	70.7385	80	70.7715	70.7713				410.00	1.3	
L2453084-10	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	L8	77340422	72.0698	80	72.0795	72.0792				117.50	1.3	
L2453084-11	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	EG	77340422	62.8505	80	62.8574	62.8576				86.25	1.3	
L2453084-12	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	RG	77340422	137.1505	80	137.1643	137.1641				170.00	1.3	T4
L2453084-13	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	F	77340422	59.1655	80	59.1756	59.1752				121.25	1.3	
L2453084-15	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	AS	77340422	81.3497	80	81.3705	81.3707				260.00	1.3	
L2453084-16	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	XM	77340422	128.3957	80	128.4144	128.414				228.75	1.3	

Wet Chemistry Gravimetric ELN

Printed: SEP-22-24 00:08:33

WorkGroup	WG1974431	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	21-SEP-24 15:25	**Time In**	21-SEP-24 21:10	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	21-SEP-24 19:31	**Time Out**	21-SEP-24 22:25	**Time Out**		**Time Out**		**Time Out**					
		Temp In (C)	90	**Time In**	20-SEP-24 20:30							**LCS Lot #**	082724C	**TrueValue**	500	**Units**	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)			Result mg/L	Dil	Comment
L2453111-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	CH	77340422	67.2835	80	67.5625	67.5627	3487.50	1.3	
L2453130-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	A14	77340422	75.096	80	75.1269	75.1269	386.25	1.3	
L2453130-02	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	L4	77340422	60.4698	80	60.543	60.5433	915.00	1.3	
L2453250-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	MN	77340422	75.2251	80	75.28	75.2804	686.25	1.3	
L2453320-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	SW	77340422	130.1378	80	131.9229	131.9228	22312.50	1.3	
L2453342-01	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	XB	77340422	71.0797	80	71.0894	71.0891	117.50	1.3	
L2453342-02	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	MB	77340422	142.4944	80	142.5078	142.5074	162.50	1.3	
WG1974431-1	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	BA	77340422	76.1133	100	76.1134	76.1134	1.00	1	
WG1974431-2	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	L7	77340422	64.3738	50	64.3986	64.3982	488.00	2	
WG1974431-3	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	BK	77340422	101.5903	80	101.5974	101.5978	88.75	1.3	
WG1974431-4	20-SEP-24 17:50	RENATA MUKHAMETZHANOVA	V6	77340422	70.8783	80	70.8897	70.8893	137.50	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/20/24 17:50
Dup Sample ID	: WG1974431-3	**DUP Analysis Date**	: 09/20/24 17:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	78	89.	13 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/20/24 17:50
Dup Sample ID	: WG1974431-4	**DUP Analysis Date**	: 09/20/24 17:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	120	140	15 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/21/24 22:13
Dup Sample ID	: WG1974703-3	**DUP Analysis Date**	: 09/21/24 22:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	200	200	0	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/21/24 22:13
Dup Sample ID	: WG1974703-4	**DUP Analysis Date**	: 09/21/24 22:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	260	220	17 Q	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974431-2	**LCS Analysis Date**	: 09/20/24 17:50
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**490.**	**98.**					**80-120**	**10**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974703-2	**LCS Analysis Date**	: 09/21/24 22:13
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**480.**	**96.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-01	**Date Collected**	:	09/17/24 10:51
Client ID	:	MP-1	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-02	**Date Collected**	:	09/17/24 11:30
Client ID	:	MP-1D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	40.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-03	**Date Collected**	:	09/17/24 08:25
Client ID	:	MW-13D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	13.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	32.	25	3.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	22.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.4	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-07	**Date Collected**	:	09/17/24 13:00
Client ID	:	MW-6D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	17.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	31.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-10	**Date Collected**	:	09/17/24 00:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.1	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975023-1	**Date Collected**	: NA
Client ID	: WG1975023-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975023-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1975023-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt

Curve/spike/ccv;wc3437
LCS;wc3373

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 09/23/24
Curve Identifier: 9/23/2024
Analysis Analyte: Sulfate
Analysis Date: 9/23/2024 13:20
Preparation Date: 9/23/2024 13:20
Technician: MRW
Work group: WG1975023
RL: 10 mg/l
Cell: 2.5 cm

Reagent;lot A4117
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.001	1.0	1.81
10	0.159	1.0	8.32
20	0.416	1.0	18.9
40	0.951	1.0	41.0

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.024260	-0.0428

Correlation Coefficient
0.995346

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.001	0.001	1.951	1	1.0	2.0	Recovery
	ICV	25	25	0	0.405	0.405	18.449	1	1.0	18.4	92%
SAMP	L2453342-01	25	25	0.002	0.316	0.314	14.733	1	1.0	14.7	
SAMP	L2453342-02	25	25	0.008	0.943	0.935	40.093	1	1.0	40.1	
SAMP	L2453342-03	25	25	0.003	0.274	0.271	12.977	1	1.0	13.0	
SAMP	L2453342-04	10	25	0.003	0.268	0.265	12.732	1	2.5	31.8	
SAMP	L2453342-05	25	25	0.006	0.489	0.483	21.635	1	1.0	21.6	
SAMP	L2453342-06	25	25	0.004	0.016	0.012	2.400	1	1.0	2.4	
SAMP	L2453342-07	25	25	0.003	0.375	0.372	17.102	1	1.0	17.1	
SAMP	L2453342-08	25	25	0.006	0.722	0.716	31.150	1	1.0	31.1	
	CCV1	25	25	0	0.406	0.406	18.490	1	1.0	18.5	
	CCB1	25	25	0	0.005	0.005	2.115	1	1.0	2.1	
SAMP	L2453342-10	25	25	0	0.004	0.004	2.074	1	1.0	2.1	
SAMP	L2453698-01	2	25	0.003	0.847	0.844	36.377	1	12.5	454.7	FILTERED
SAMP	L2453698-02	2	25	0.006	0.889	0.883	37.970	1	12.5	474.6	
SAMP	L2453698-03	2	25	0.006	0.632	0.626	27.475	1	12.5	343.4	
SAMP	L2453698-05	2	25	0.004	0.574	0.570	25.188	1	12.5	314.8	FILTERED
SAMP	L2453698-07	2.5	25	0.015	0.278	0.263	12.651	1	10.0	126.5	
SAMP	L2453698-08	2.5	25	0.007	0.34	0.333	15.509	1	10.0	155.1	
SAMP	L2453698-10	5	25	0.004	0.327	0.323	15.101	1	5.0	75.5	
SAMP	L2453720-01	25	25	0.006	0.249	0.243	11.834	1	1.0	11.8	
SAMP	L2453720-02	25	25	0.003	0.309	0.306	14.407	1	1.0	14.4	
	CCV2	25	25	0	0.397	0.397	18.123	1	1.0	18.1	
	CCB2	25	25	0	0.002	0.002	1.992	1	1.0	2.0	
SAMP	L2453720-03	25	25	0.005	0.253	0.248	12.038	1	1.0	12.0	
SAMP	L2453720-04	25	25	0.001	0.003	0.002	1.992	1	1.0	2.0	
	CCV3	25	25	0	0.396	0.396	18.082	1	1.0	18.1	
	CCB3	25	25	0	0.003	0.003	2.033	1	1.0	2.0	
BLANK	WG1975023-1	25	25	0.000	0.001	0.001	1.951	1	1.0	2.0	
DUP	WG1975023-3	25	25	0.003	0.316	0.313	14.692	1	1.0	14.7	L2453720-02

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975023-4	12.5	25	0.002	0.614	0.612	14.400	12.5	40.0000	54	99
											L2453720-02
LCS	WG1975023-2	25	25	0	0.405	0.405		1	20.0000	18	92

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975023-4	**MS Analysis Date**	: 09/23/24 13:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**14.**	**40**	**54.**	**100**					**55-147**	**14**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/23/24 13:20
Dup Sample ID	: WG1975023-3	**DUP Analysis Date**	: 09/23/24 13:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	14	15.	7	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975023-2	**LCS Analysis Date**	: 09/23/24 13:20
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**18.0**	**90.**					**90-110**	**14**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	63.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	49.0	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	19.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	265.	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	44.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 05:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	17.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 06:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	44.3	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 06:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	186.	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 06:35
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974042-1	**Date Collected**	: NA
Client ID	: WG1974042-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/20/24 06:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974042-3	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10DDUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/20/24 05:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	41.8	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974042-5	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10SDUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/20/24 05:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	18.0	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974042-7	**Date Collected**	: 09/16/24 11:10
Client ID	: WG1974042-7 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/20/24 04:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: ALK240920-A1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	56.9	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Titration report

Method

Method ID	pH Cal. 7 4 10	**Release state**	Released
Name	Calibration	**Modified by**	SystemInternal
Modified on	10/3/2023 12:47:09 PM		

Summary

Samples

	Sample ID	Name	Result	State
1	METTLER TOLEDO (Ref. 25°C) pH	pH	7.00	
2	METTLER TOLEDO (Ref. 25°C) pH	pH	4.01	
3	METTLER TOLEDO (Ref. 25°C) pH	pH	10.00	

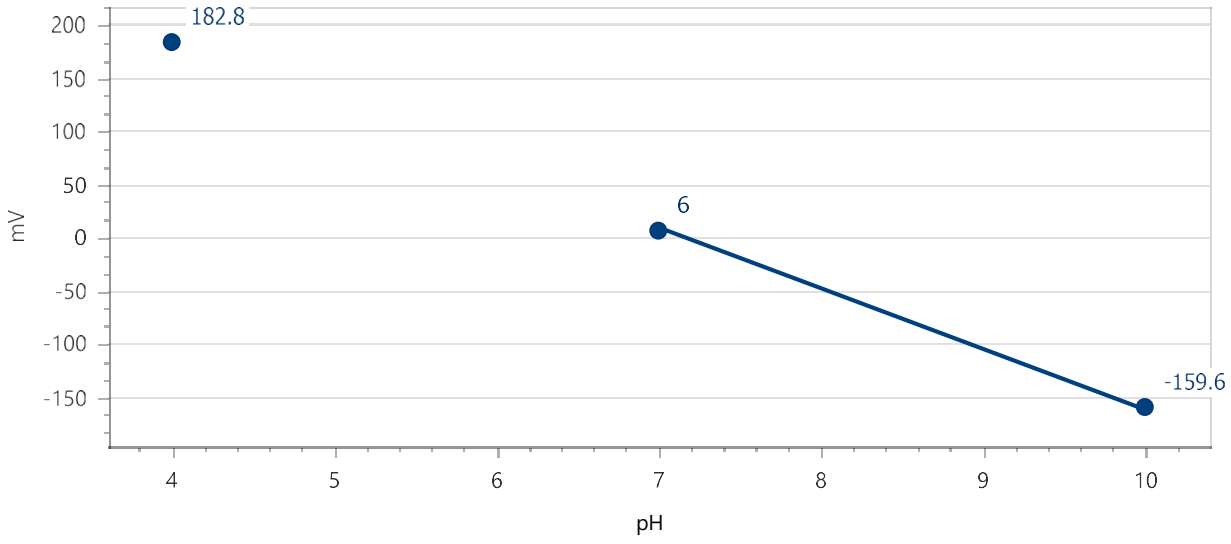
Results

Zero point 1 Cal1.Z1	7.174 pH
Slope 1 Cal1.S1	-57.16 mV/pH

Calibration

Sensor	Sensor DG111-SC
Creation time	9/20/2024 3:14:37 AM
Overall state	OK
Successful	Yes
Calib. temperature	25.0 °C
SLOPECal	-57.16 mV/pH
ZEROCal	7.174 pH

Calibration Curve



Used Instruments

Titration report

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/20/2024 3:10:08 AM	SystemInternal	System internal account

Titration report

Method

Method ID	pH Measure	**Release state**	Released
Name	Measure	**Modified by**	SystemInternal
Modified on	2/23/2024 9:31:05 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	--	Sample size	0 mL	
		Potential R1	7.05 pH	OK

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/20/2024 3:28:17 AM	SystemInternal	System internal account

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MRM	Sample size	50 mL	
		Potential R4	7.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.804 mL	OK
		Consumption 4.2 R3	0.810 mL	OK
		Content R5	16.080 mg/L	OK
		ALK LOW R6	15.960 mg/L	OK
2	Rinse,MRM	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.044 mL	OK
		Consumption 4.2 R3	0.047 mL	OK
		Content R5	0.880 mg/L	OK
		ALK LOW R6	0.820 mg/L	OK
3	Rinse,MRM	Sample size	50 mL	
		Potential R4	5.18 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.037 mL	OK
		Consumption 4.2 R3	0.042 mL	OK
		Content R5	0.740 mg/L	OK
		ALK LOW R6	0.640 mg/L	OK
4	WG1974041-1	Sample size	50 mL	
		Potential R4	5.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.032 mL	OK
		Consumption 4.2 R3	0.037 mL	OK
		Content R5	0.640 mg/L	OK
		ALK LOW R6	0.540 mg/L	OK
5	WG1974041-2	Sample size	50 mL	
		Potential R4	10.62 pH	OK
		Consumption 8.3 R1	4.738 mL	OK
		Consumption 4.5 R2	5.142 mL	OK
		Consumption 4.2 R3	5.146 mL	OK
		Content R5	102.840 mg/L	OK
		ALK LOW R6	102.760 mg/L	OK
6	L2453084-06	Sample size	50 mL	

Titration report

		Potential R4	6.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.919 mL	OK
		Consumption 4.2 R3	12.047 mL	OK
		Content R5	238.380 mg/L	OK
		ALK LOW R6	235.820 mg/L	OK
7	L2453084-07	Sample size	50 mL	
		Potential R4	6.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.320 mL	OK
		Consumption 4.2 R3	10.417 mL	OK
		Content R5	206.400 mg/L	OK
		ALK LOW R6	204.460 mg/L	OK
8	L2453084-08	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.684 mL	OK
		Consumption 4.2 R3	9.762 mL	OK
		Content R5	193.680 mg/L	OK
		ALK LOW R6	192.120 mg/L	OK
9	L2453084-09	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.776 mL	OK
		Consumption 4.2 R3	7.890 mL	OK
		Content R5	155.520 mg/L	OK
		ALK LOW R6	153.240 mg/L	OK
10	L2453084-10	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.694 mL	OK
		Consumption 4.2 R3	2.709 mL	OK
		Content R5	53.880 mg/L	OK
		ALK LOW R6	53.580 mg/L	OK
11	L2453084-11	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.394 mL	OK
		Consumption 4.2 R3	2.411 mL	OK
		Content R5	47.880 mg/L	OK
		ALK LOW R6	47.540 mg/L	OK
12	L2453084-12	Sample size	50 mL	
		Potential R4	5.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.602 mL	OK
		Consumption 4.2 R3	0.629 mL	OK
		Content R5	12.040 mg/L	OK

Titration report

		ALK LOW R6	11.500 mg/L	OK
13	L2453084-13	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.189 mL	OK
		Consumption 4.2 R3	1.219 mL	OK
		Content R5	23.780 mg/L	OK
		ALK LOW R6	23.180 mg/L	OK
14	L2453084-15	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.859 mL	OK
		Consumption 4.2 R3	6.919 mL	OK
		Content R5	137.180 mg/L	OK
		ALK LOW R6	135.980 mg/L	OK
15	L2453084-16	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.319 mL	OK
		Consumption 4.2 R3	4.355 mL	OK
		Content R5	86.380 mg/L	OK
		ALK LOW R6	85.660 mg/L	OK
16	L2453250-01	Sample size	50 mL	
		Potential R4	9.56 pH	OK
		Consumption 8.3 R1	3.428 mL	OK
		Consumption 4.5 R2	8.094 mL	OK
		Consumption 4.2 R3	8.268 mL	OK
		Content R5	161.880 mg/L	OK
		ALK LOW R6	158.400 mg/L	OK
17	WG1974041-3	Sample size	50 mL	
		Potential R4	9.57 pH	OK
		Consumption 8.3 R1	3.303 mL	OK
		Consumption 4.5 R2	7.825 mL	OK
		Consumption 4.2 R3	7.991 mL	OK
		Content R5	156.500 mg/L	OK
		ALK LOW R6	153.180 mg/L	OK
18	WG1974041-4	Sample size	50 mL	
		Potential R4	10.49 pH	OK
		Consumption 8.3 R1	7.489 mL	OK
		Consumption 4.5 R2	12.761 mL	OK
		Consumption 4.2 R3	13.269 mL	OK
		Content R5	255.220 mg/L	OK
		ALK LOW R6	245.060 mg/L	OK
19	L2453053-01	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.001 mL	OK

Titration report

		Consumption 4.2 R3	3.033 mL	OK
		Content R5	60.020 mg/L	OK
		ALK LOW R6	59.380 mg/L	OK
20	WG1974042-3	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.843 mL	OK
		Consumption 4.2 R3	2.868 mL	OK
		Content R5	56.860 mg/L	OK
		ALK LOW R6	56.360 mg/L	OK
21	WG1974042-4	Sample size	50 mL	
		Potential R4	9.99 pH	OK
		Consumption 8.3 R1	4.418 mL	OK
		Consumption 4.5 R2	8.411 mL	OK
		Consumption 4.2 R3	8.424 mL	OK
		Content R5	168.220 mg/L	OK
		ALK LOW R6	167.960 mg/L	OK
22	L2453053-02	Sample size	50 mL	
		Potential R4	5.57 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.782 mL	OK
		Consumption 4.2 R3	1.808 mL	OK
		Content R5	35.640 mg/L	OK
		ALK LOW R6	35.120 mg/L	OK
23	L2453053-03	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.307 mL	OK
		Consumption 4.2 R3	5.387 mL	OK
		Content R5	106.140 mg/L	OK
		ALK LOW R6	104.540 mg/L	OK
24	L2453053-04	Sample size	50 mL	
		Potential R4	5.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.954 mL	OK
		Consumption 4.2 R3	1.979 mL	OK
		Content R5	39.080 mg/L	OK
		ALK LOW R6	38.580 mg/L	OK
25	L2453053-05	Sample size	50 mL	
		Potential R4	5.57 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.755 mL	OK
		Consumption 4.2 R3	1.776 mL	OK
		Content R5	35.100 mg/L	OK
		ALK LOW R6	34.680 mg/L	OK
26	L2453342-01	Sample size	50 mL	
		Potential R4	5.80 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.159 mL	OK
		Consumption 4.2 R3	3.203 mL	OK
		Content R5	63.180 mg/L	OK
		ALK LOW R6	62.300 mg/L	OK
27	L2453342-02	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.448 mL	OK
		Consumption 4.2 R3	2.487 mL	OK
		Content R5	48.960 mg/L	OK
		ALK LOW R6	48.180 mg/L	OK
28	L2453342-03	Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.974 mL	OK
		Consumption 4.2 R3	0.988 mL	OK
		Content R5	19.480 mg/L	OK
		ALK LOW R6	19.200 mg/L	OK
29	L2453342-04	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.257 mL	OK
		Consumption 4.2 R3	13.453 mL	OK
		Content R5	265.140 mg/L	OK
		ALK LOW R6	261.220 mg/L	OK
30	L2453342-05	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.206 mL	OK
		Consumption 4.2 R3	2.220 mL	OK
		Content R5	44.120 mg/L	OK
		ALK LOW R6	43.840 mg/L	OK
31	WG1974042-3	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.092 mL	OK
		Consumption 4.2 R3	2.102 mL	OK
		Content R5	41.840 mg/L	OK
		ALK LOW R6	41.640 mg/L	OK
32	WG1974042-4	Sample size	50 mL	
		Potential R4	10.31 pH	OK
		Consumption 8.3 R1	5.217 mL	OK
		Consumption 4.5 R2	7.658 mL	OK
		Consumption 4.2 R3	7.664 mL	OK
		Content R5	153.160 mg/L	OK
		ALK LOW R6	153.040 mg/L	OK

Titration report

33	L2453342-06	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.886 mL	OK
		Consumption 4.2 R3	0.915 mL	OK
		Content R5	17.720 mg/L	OK
		ALK LOW R6	17.140 mg/L	OK
34	WG1974042-3	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.935 mL	OK
		Consumption 4.2 R3	0.971 mL	OK
		Content R5	18.700 mg/L	OK
		ALK LOW R6	17.980 mg/L	OK
35	WG1974042-4	Sample size	50 mL	
		Potential R4	9.50 pH	OK
		Consumption 8.3 R1	2.533 mL	OK
		Consumption 4.5 R2	6.332 mL	OK
		Consumption 4.2 R3	6.341 mL	OK
		Content R5	126.640 mg/L	OK
		ALK LOW R6	126.460 mg/L	OK
36	L2453342-07	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.215 mL	OK
		Consumption 4.2 R3	2.240 mL	OK
		Content R5	44.300 mg/L	OK
		ALK LOW R6	43.800 mg/L	OK
37	L2453342-08	Sample size	50 mL	
		Potential R4	6.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.278 mL	OK
		Consumption 4.2 R3	9.374 mL	OK
		Content R5	185.560 mg/L	OK
		ALK LOW R6	183.640 mg/L	OK
38	L2453342-10	Sample size	50 mL	
		Potential R4	5.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.076 mL	OK
		Consumption 4.2 R3	0.081 mL	OK
		Content R5	1.520 mg/L	OK
		ALK LOW R6	1.420 mg/L	OK
39	L2453342-10	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.073 mL	OK
		Consumption 4.2 R3	0.079 mL	OK

Titration report

		Content R5	1.460 mg/L	OK
		ALK LOW R6	1.340 mg/L	OK
40	WG1974042-2	Sample size	50 mL	
		Potential R4	11.00 pH	OK
		Consumption 8.3 R1	4.811 mL	OK
		Consumption 4.5 R2	5.182 mL	OK
		Consumption 4.2 R3	5.186 mL	OK
		Content R5	103.640 mg/L	OK
		ALK LOW R6	103.560 mg/L	OK
41	WG1974042-1	Sample size	50 mL	
		Potential R4	5.29 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.049 mL	OK
		Consumption 4.2 R3	0.054 mL	OK
		Content R5	0.980 mg/L	OK
		ALK LOW R6	0.880 mg/L	OK
42	CCV	Sample size	50 mL	
		Potential R4	10.83 pH	OK
		Consumption 8.3 R1	4.740 mL	OK
		Consumption 4.5 R2	5.073 mL	OK
		Consumption 4.2 R3	5.079 mL	OK
		Content R5	101.460 mg/L	OK
		ALK LOW R6	101.340 mg/L	OK
43	CCB	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.067 mL	OK
		Consumption 4.2 R3	0.075 mL	OK
		Content R5	1.340 mg/L	OK
		ALK LOW R6	1.180 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	7.489 mL	**Minimum**	2.533 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	43	**Samples excluded**	0

R2

Mean	4.175 mL		
Maximum	13.257 mL	**Minimum**	0.032 mL
Standard deviation	3.850 mL	**Rel. standard deviation**	92.225 %
Total samples	43	**Samples excluded**	0

R3

Titration report

Mean	4.227 mL		
Maximum	13.453 mL	**Minimum**	0.037 mL
Standard deviation	3.910 mL	**Rel. standard deviation**	92.501 %
Total samples	43	**Samples excluded**	0

R4

Mean	6.62 pH		
Maximum	11.00 pH	**Minimum**	5.10 pH
Standard deviation	1.92 pH	**Rel. standard deviation**	28.945 %
Total samples	43	**Samples excluded**	0

R5

Mean	83.492 mg/L		
Maximum	265.140 mg/L	**Minimum**	0.640 mg/L
Standard deviation	77.001 mg/L	**Rel. standard deviation**	92.225 %
Total samples	43	**Samples excluded**	0

R6

Mean	82.447 mg/L		
Maximum	261.220 mg/L	**Minimum**	0.540 mg/L
Standard deviation	75.824 mg/L	**Rel. standard deviation**	91.967 %
Total samples	43	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/20/2024 3:37:42 AM	SystemInternal	System internal account

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10D	**Matrix**	: WATER
Lab Sample ID	: L2453342-05	**Analysis Date**	: 09/20/24 05:15
Dup Sample ID	: WG1974042-3	**DUP Analysis Date**	: 09/20/24 05:18

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	44.1	41.8	5	9

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06	**Analysis Date**	: 09/20/24 05:28
Dup Sample ID	: WG1974042-5	**DUP Analysis Date**	: 09/20/24 05:42

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	17.1	18.0	5	9

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/20/24 04:44
Dup Sample ID	: WG1974042-7	**DUP Analysis Date**	: 09/20/24 04:46

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	60.0	56.9	5	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240920	LCS 7.0	7.05	INT:	MRM
pH 4	3295	Titrant:	4193		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse,MRM	42	CCV
2	Rinse,MRM	43	CCB
3	Rinse,MRM		
4	WG1974041-1		
5	WG1974041-2		
6	L2453084-06		
7	L2453084-07		2X = 25 mL
8	L2453084-08		5X = 10 mL
9	L2453084-09		10X = 5 mL
10	L2453084-10		
11	L2453084-11		
12	L2453084-12		
13	L2453084-13		
14	L2453084-15		
15	L2453084-16		
16	L2453250-01		
17	WG1974041-3		
18	WG1974041-4		
19	L2453053-01		
20	WG1974042-3		
21	WG1974042-4		
22	L2453053-02		
23	L2453053-03		
24	L2453053-04		
25	L2453053-05		
26	L2453342-01		
27	L2453342-02		
28	L2453342-03		
29	L2453342-04		
30	L2453342-05		
31	WG1974042-3		
32	WG1974042-4		
33	L2453342-06		
34	WG1974042-3		
35	WG1974042-4		
36	L2453342-07		
37	L2453342-08		
38	L2453342-10		
39	L2453342-10		
40	WG1974042-2		
41	WG1974042-1		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-01	**Date Collected**	:	09/17/24 10:51
Client ID	:	MP-1	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 07:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	MRM
Lab File ID	:	CL240921-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	20.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	14.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	27.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	2.8	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-05	**Date Collected**	:	09/17/24 09:25
Client ID	:	MW-10D	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 07:14
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	MRM
Lab File ID	:	CL240921-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	7.0	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453342
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453342-06	**Date Collected**	:	09/17/24 09:21
Client ID	:	MW-10S	**Date Received**	:	09/17/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 07:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	MRM
Lab File ID	:	CL240921-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	1.1	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	16.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	9.8	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 07:17
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974479-1	**Date Collected**	: NA
Client ID	: WG1974479-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 06:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974479-3	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/21/24 07:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: MRM
Lab File ID	: CL240921-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	20.	1.0	0.89	

Sample Raw Data

Author: Date : 9/21/2024

Original Run Filename: OM_9-21-2024_06-05-10AM.OMN Created: 9/21/2024 6:05:10 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-21-2024_06-05-10AM.OMN Last Modified: 9/21/2024 7:54:11 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
Sample1	1	S1	100.00000			
Sample2	1	S2	80.00000			
Sample3	1	S3	20.00000			
Sample4	1	S4	10.00000			
Sample5	1	S5	5.00000			
Sample6	1	S6	2.00000			
Sample7	1	S7	1.00000			
Sample8	1	S9	0.00000			
CCV	1	S3	20.64338			
		Known Conc:	20.00000			
		Calibration:	Table/Fig. : 1			
CCB	1	S9	-0.29951			
		Known Conc:	0.00000			
ICV 5.0	1	1	5.52316			
ICV 30.0	1	2	31.29769			
ICV 80.0	1	3	78.97044			
ICB	1	4	-0.05233			
100 PPM	1	5	109.37924	10.00		
WG1974478-1	1	6	-0.22130			
WG1974478-2	1	7	31.91337			
WG1974479-1	1	8	-0.32210			
WG1974479-2	1	9	31.90194			
WG1974480-1	1	10	-0.19806			
CCV	1	S3	20.84488			
		Known Conc:	20.00000			
CCB	1	S9	-0.32265			
		Known Conc:	0.00000			
WG1974480-2	1	11	31.36510			
L2453084-01	1	12	228.40462			
WG1974480-3	1	13	229.32829			
WG1974480-4	1	14	231.48730			
L2453084-02	1	15	67.33368			
L2453084-03	1	16	61.56293			
WG1974480-5	1	17	59.70608			
WG1974480-6	1	18	73.74506			
L2453084-04	1	19	78.51127	10.00		
L2453084-05	1	20	53.93988	10.00		
CCV	1	S3	20.54018			
		Known Conc:	20.00000			
CCB	1	S9	-0.44905			
		Known Conc:	0.00000			
L2453084-06	1	21	28.84704	10.00		
L2453084-07	1	22	54.20206			
L2453084-08	1	23	59.95882			
L2453084-09	1	24	84.46492	10.00		
L2453084-10	1	25	1.48224			
L2453084-11	1	26	2.06739			
L2453084-12	1	27	72.45889			
L2453084-13	1	28	41.65091			
L2453084-15	1	29	62.81974			
L2453084-16	1	30	65.15192	10.00		
CCV	1	S3	20.32952			
		Known Conc:	20.00000			
CCB	1	S9	-0.27060			
		Known Conc:	0.00000			
L2452439-04	1	31	71.55247			
L2453298-01	1	32	42.42296			
L2453298-02	1	33	57.90467			

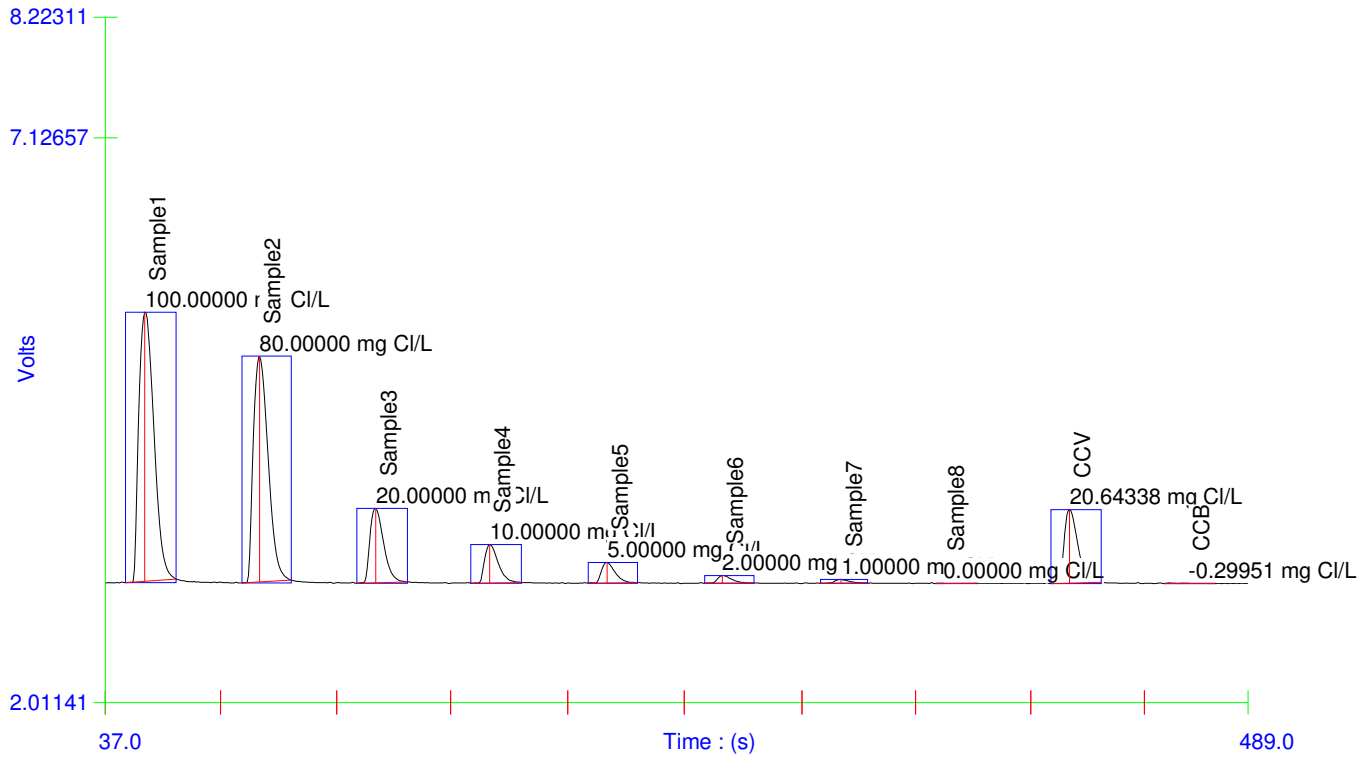
110.4%
104%
99%
MRM 9/21/24

L2453335-01	1	34	127.22205			
WG1974478-3	1	35	127.49010			
WG1974478-4	1	36	135.28058			
L2453335-02	1	37	180.60541			
L2453335-03	1	38	178.21750			
L2453335-04	1	39	177.98122			
L2453335-05	1	40	873.85791	10.00		
CCV	1	S3	20.42141			
	Known Conc:		20.00000			
CCB	1	S9	-0.34264			
	Known Conc:		0.00000			
L2453335-06	1	41	78.89436			
L2453356-03	1	42	2.02746			
L2453356-04	1	43	1.22016			
L2453356-05	1	44	1.58571			
L2453356-06	1	45	1.85789			
L2453356-07	1	46	9.67251			
L2453356-08	1	47	28.55997			
L2453356-09	1	48	4.87765			
L2453342-01	1	49	14.18549	10.00		
WG1974479-3	1	50	13.84259	10.00		
CCV	1	S3	20.53237			
	Known Conc:		20.00000			
CCB	1	S9	-0.36763			
	Known Conc:		0.00000			
WG1974479-4	1	51	40.50756			
L2453342-02	1	52	13.76913			
L2453342-03	1	53	27.08087			
L2453342-04	1	54	2.79024			
L2453342-05	1	55	7.01036			
L2453342-06	1	56	1.08619			
L2453342-07	1	57	16.13901			
L2453342-08	1	58	9.76831			
L2453342-10	1	59	-0.33257			
L2452073-01; 5.1887	1	60	67.18616			0.10377 g
CCV	1	S3	20.01943			
	Known Conc:		20.00000			
CCB	1	S9	-0.22570			
	Known Conc:		0.00000			
WG1974477-1; 5.0891	1	61	-3.29437			0.10178 g
WG1974477-2; 5.1374	1	62	383.92365			0.10275 g
L2451415-01; 5.9846	1	63	102.63269			0.11969 g
WG1974477-3; 5.5395	1	64	138.51782			0.11079 g
WG1974477-4; 5.1075	1	65	493.69644			0.10215 g
L2453084-01	1	12	456.89069	10.00		
WG1974480-3	1	13	455.20392	10.00		
WG1974480-4	1	14	470.43674	10.00		
L2453084-02	1	15	66.72594			
L2453084-04	1	19	76.03493			
CCV	1	S3	20.28923			
	Known Conc:		20.00000			
CCB	1	S9	-0.24930			
	Known Conc:		0.00000			
L2453084-05	1	20	56.83289			
L2453084-09	1	24	79.85162			
L2453084-16	1	30	66.12874			
L2453335-01	1	34	175.56085	10.00		
WG1974478-3	1	35	173.08209	10.00		
WG1974478-4	1	36	187.39859	10.00		
L2453335-02	1	37	300.85611	10.00		
L2453335-03	1	38	299.28076	10.00		
L2453335-04	1	39	292.99109	10.00		
L2453342-01	1	49	20.55826			
CCV	1	S3	20.09933			
	Known Conc:		20.00000			
CCB	1	S9	-0.45552			
	Known Conc:		0.00000			
WG1974479-3	1	50	20.19024			

Author: Date : 9/21/2024

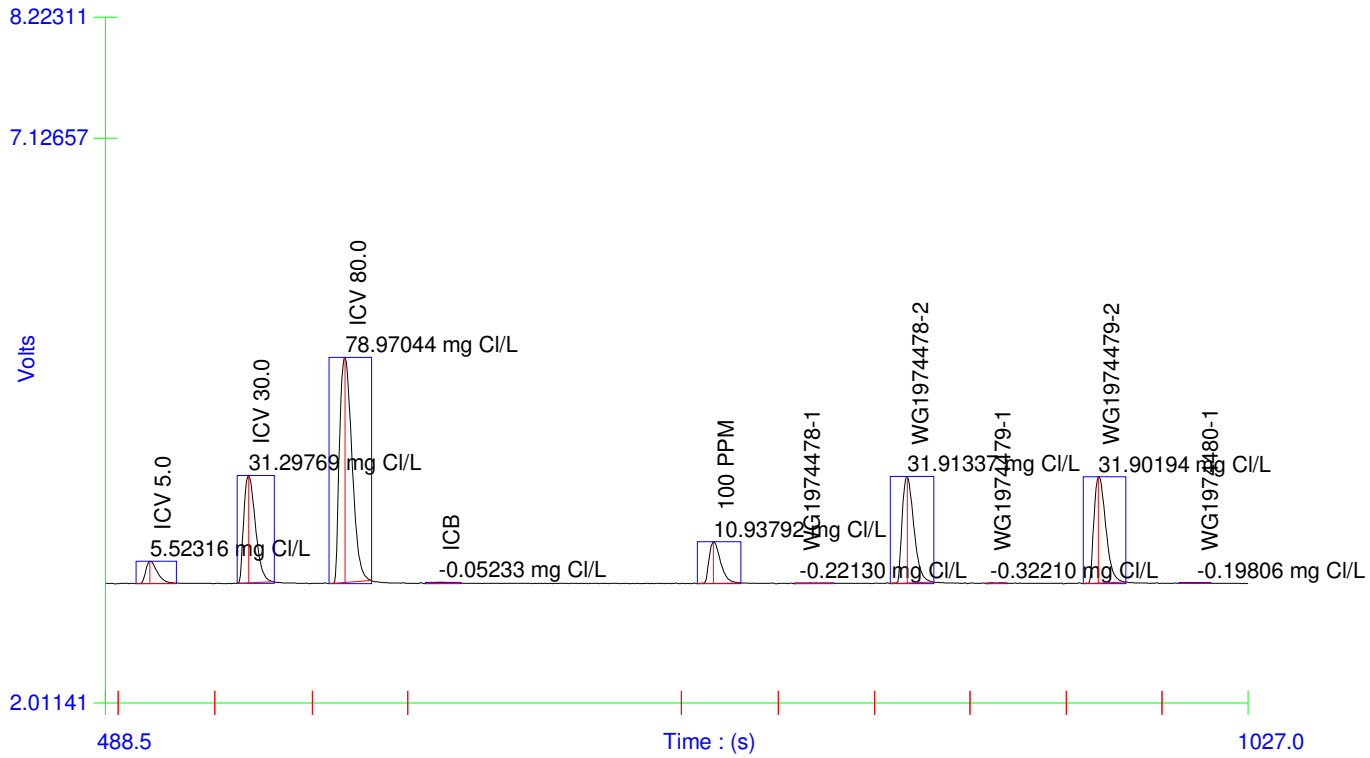
CCV	1	S3	20.20799			
		Known Conc:	20.00000			
CCB	1	S9	-0.29358			
		Known Conc:	0.00000			

Channel 1 (Chloride) - Set: 1 / 11

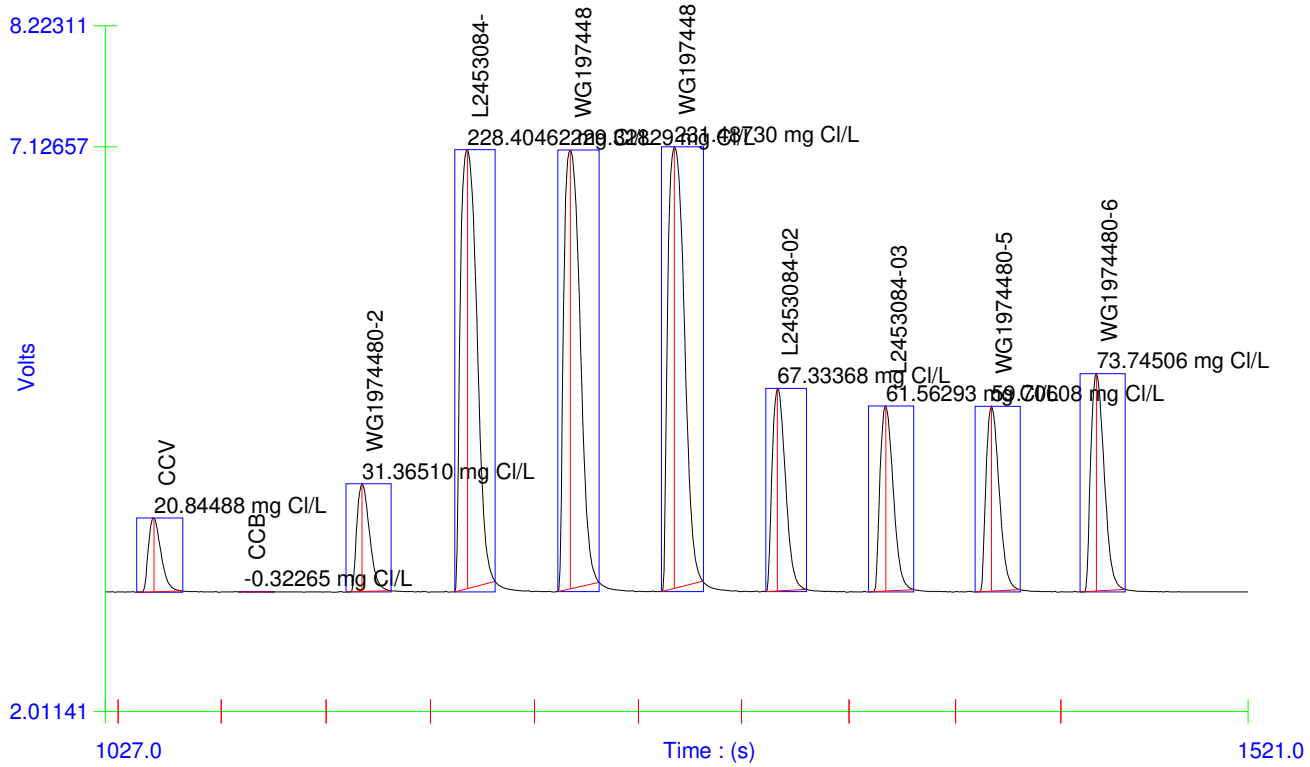


Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 2 / 11

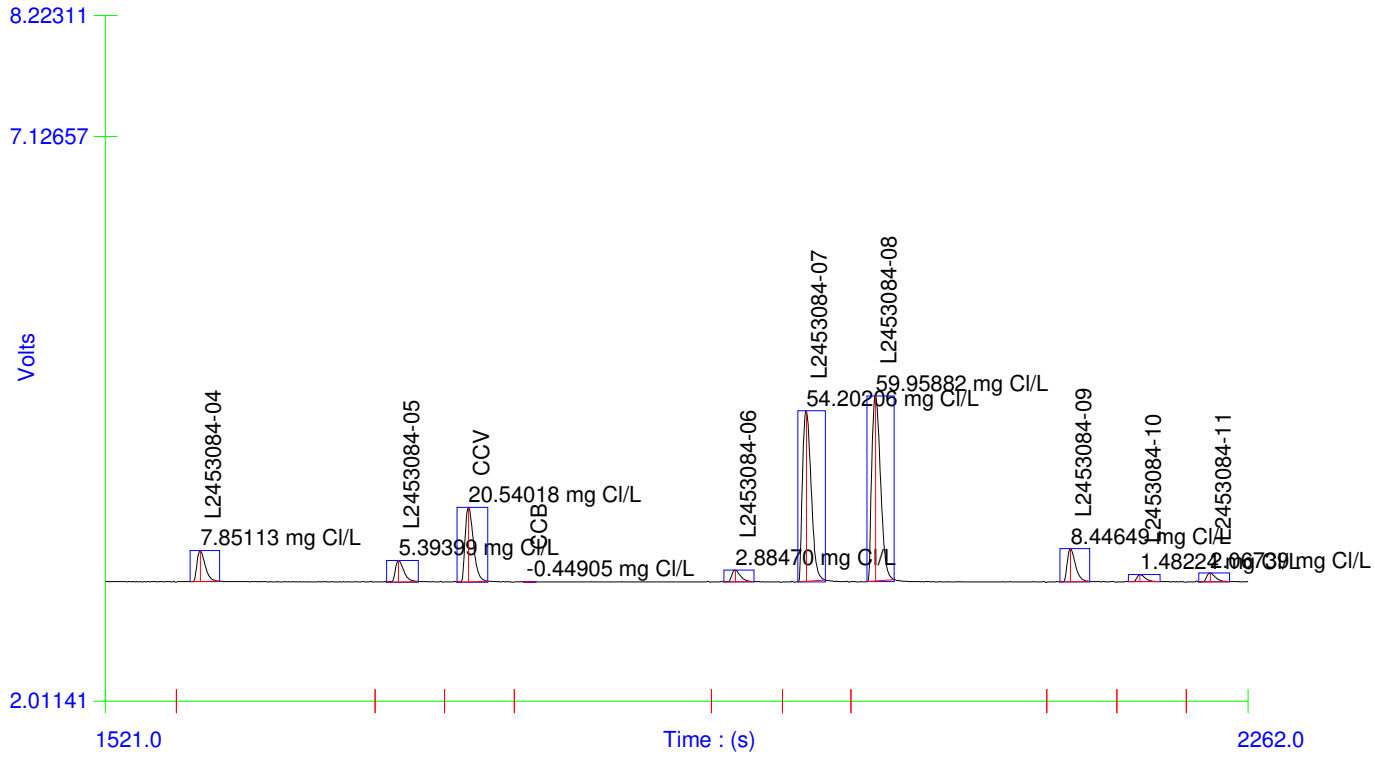


Channel 1 (Chloride) - Set: 3 / 11



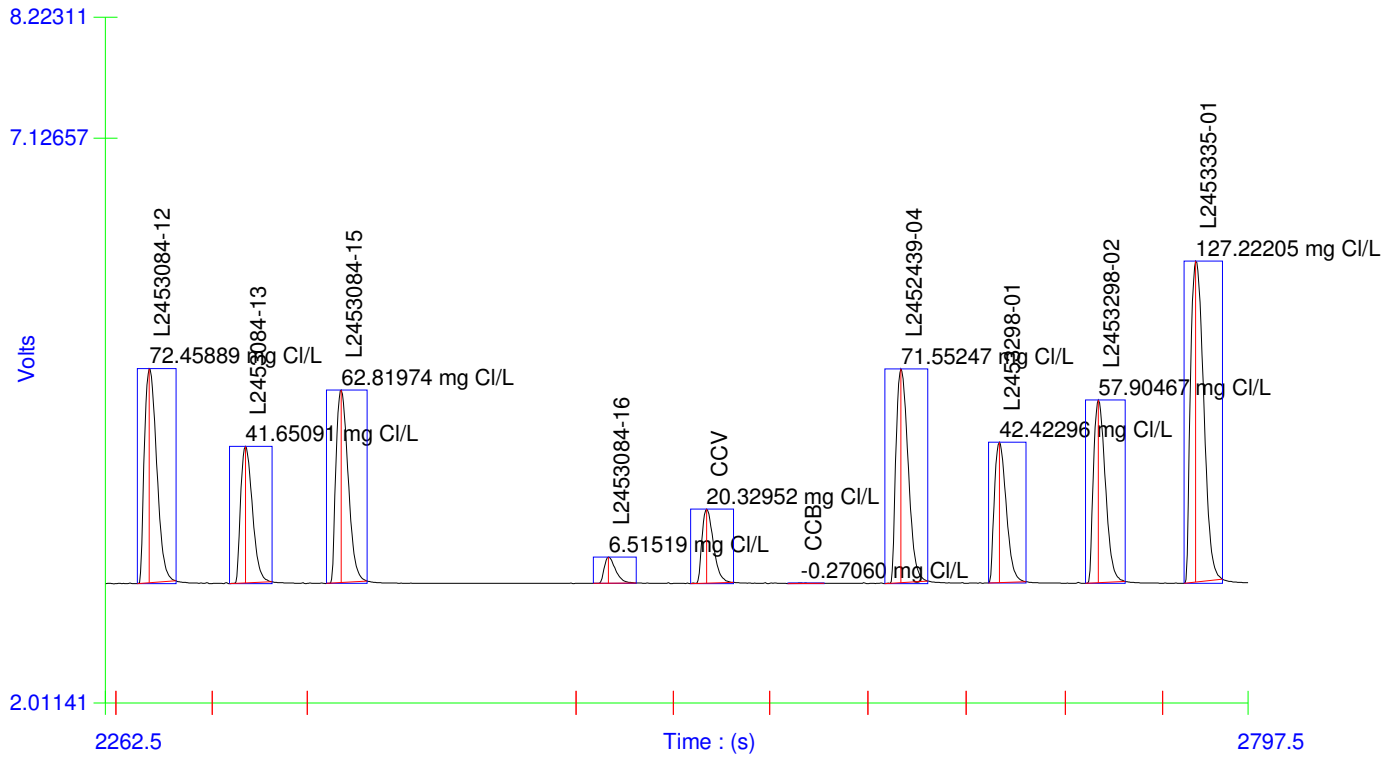
Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 4 / 11

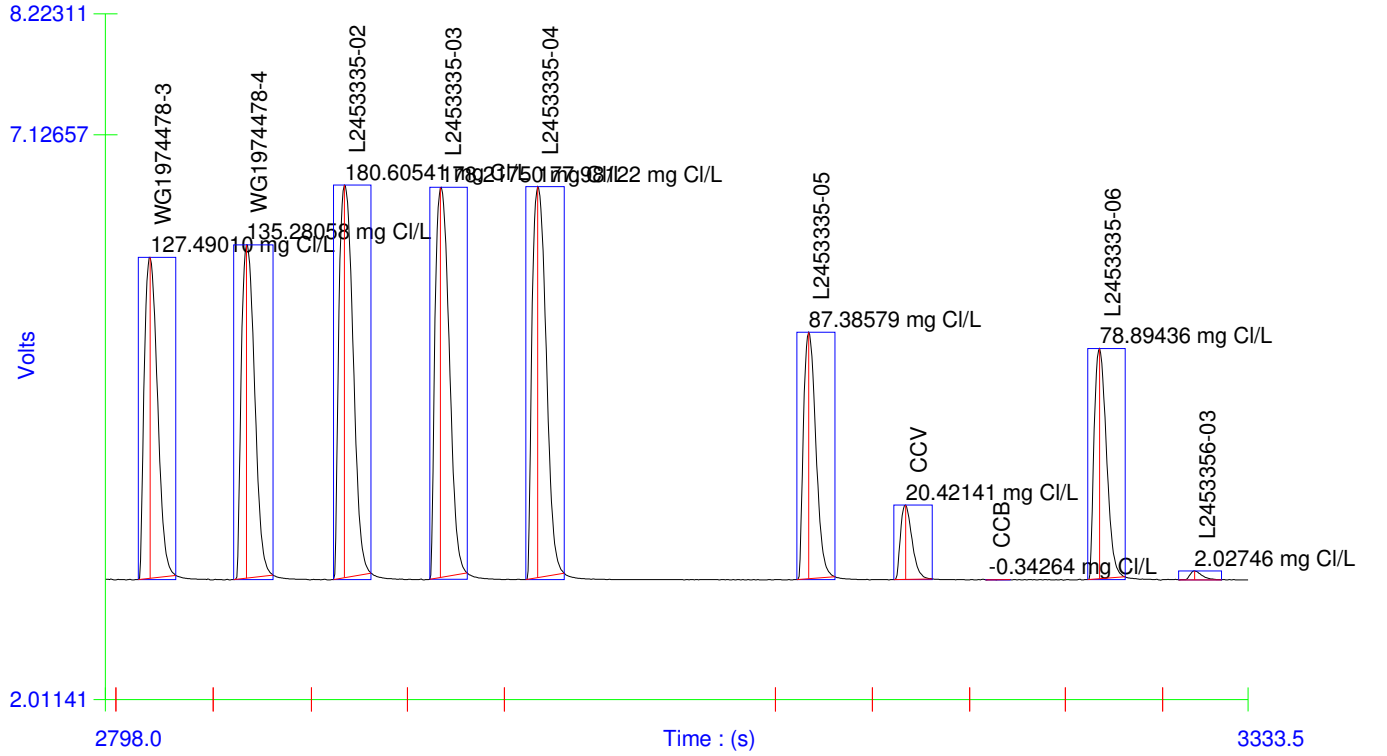


Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 5 / 11

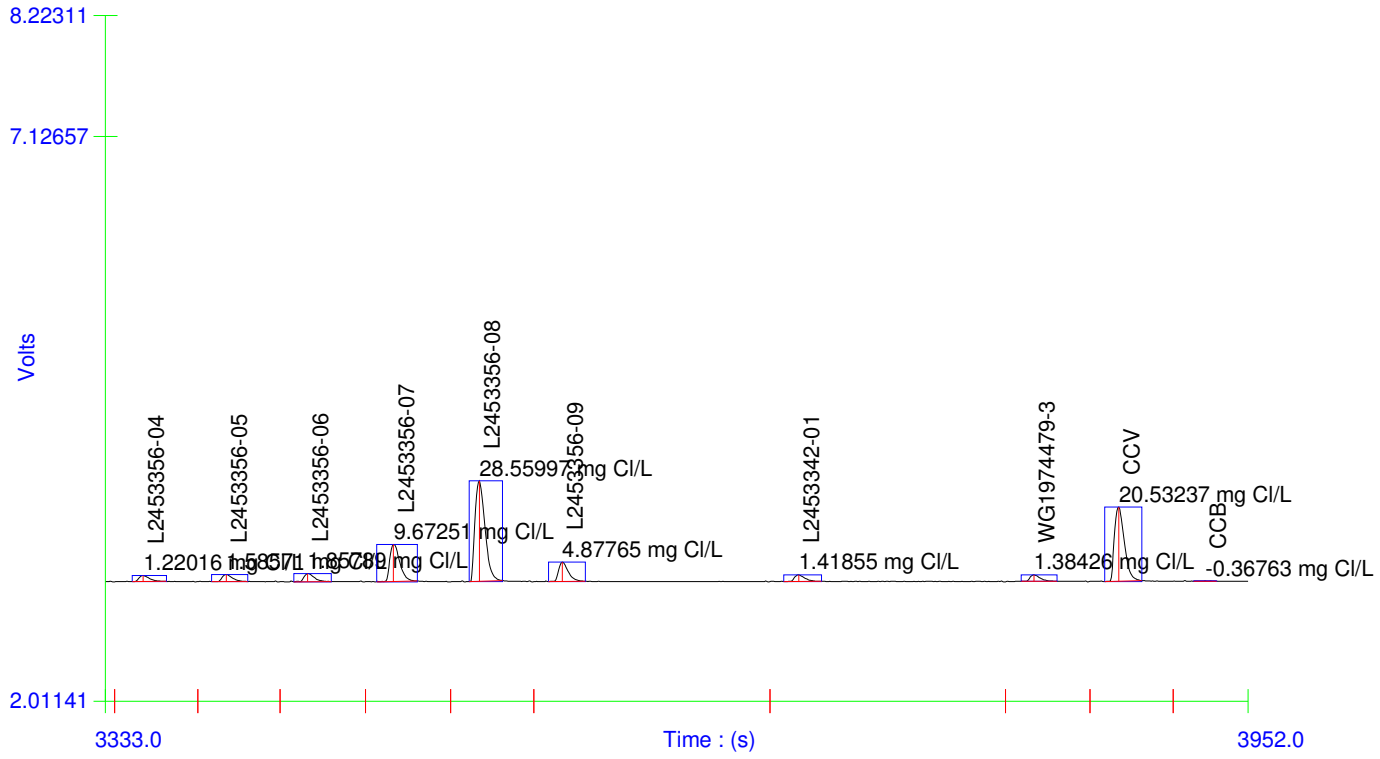


Channel 1 (Chloride) - Set: 6 / 11



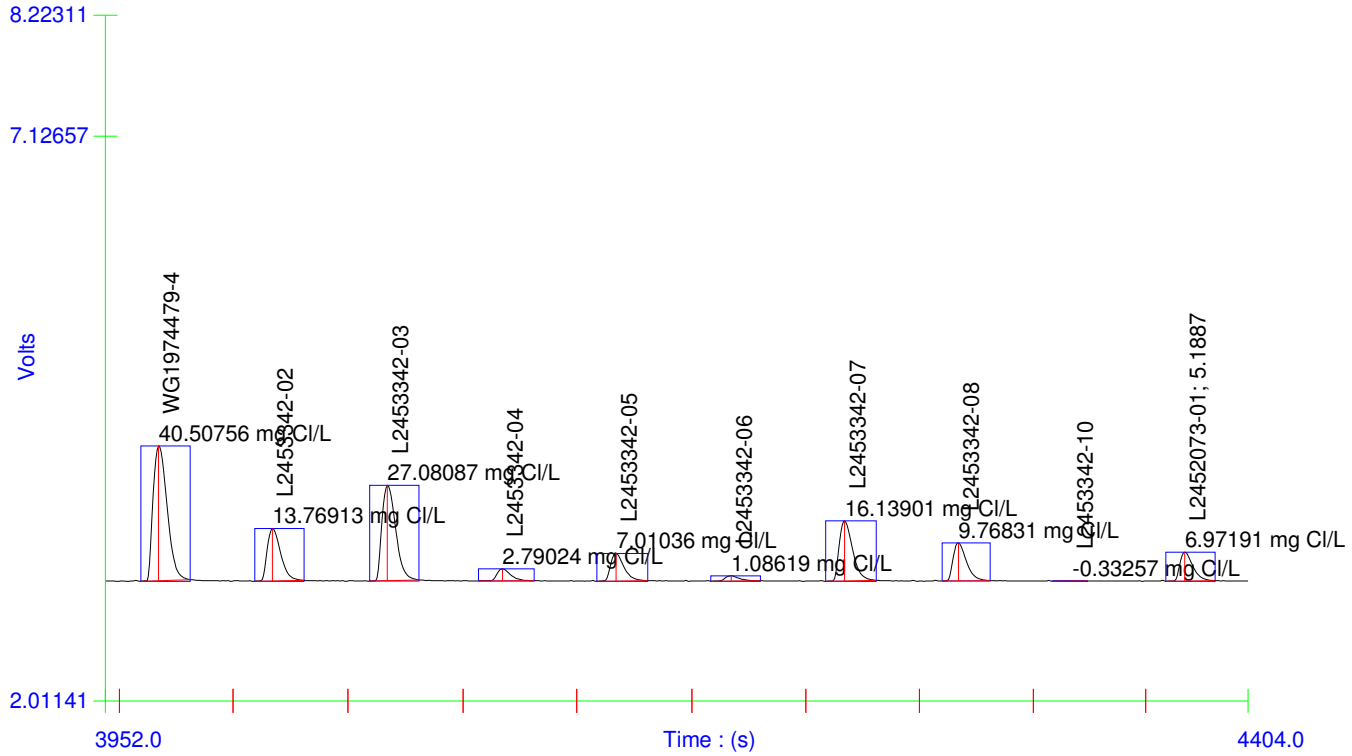
Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 7 / 11

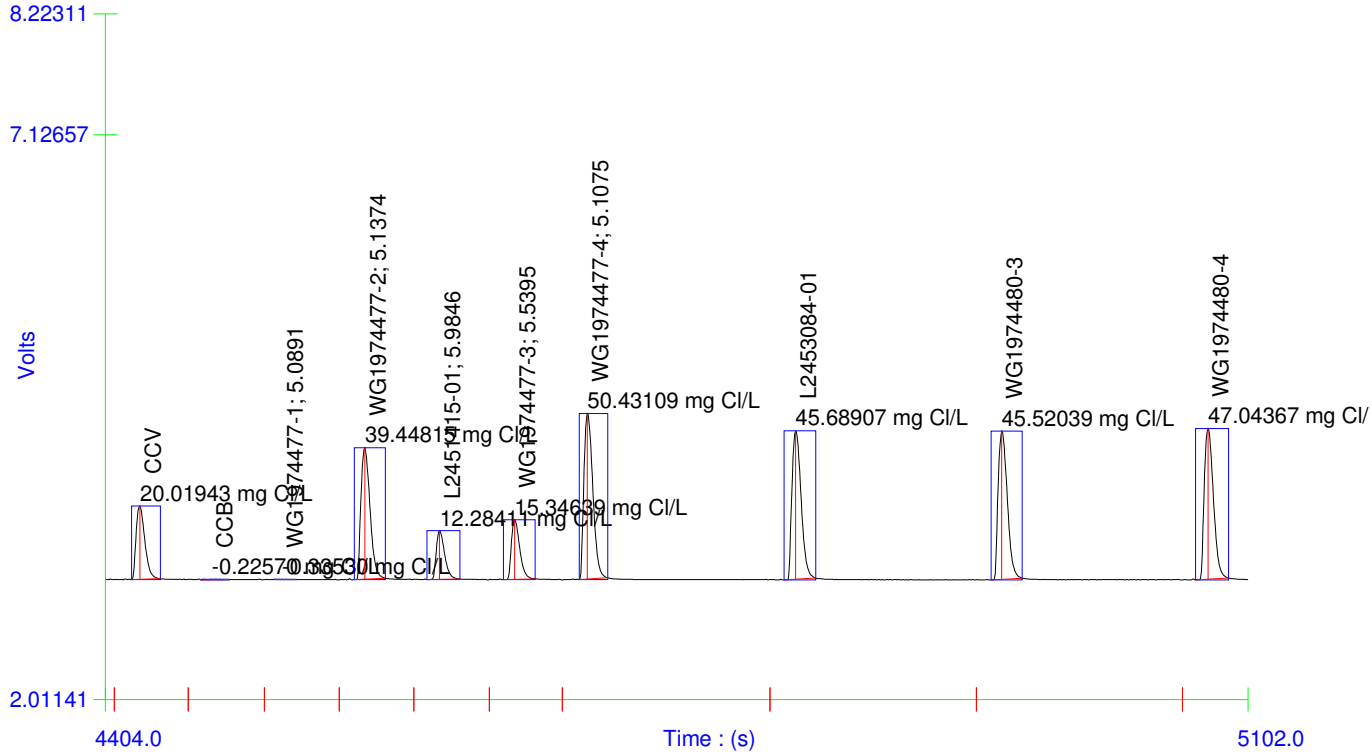


Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 8 / 11

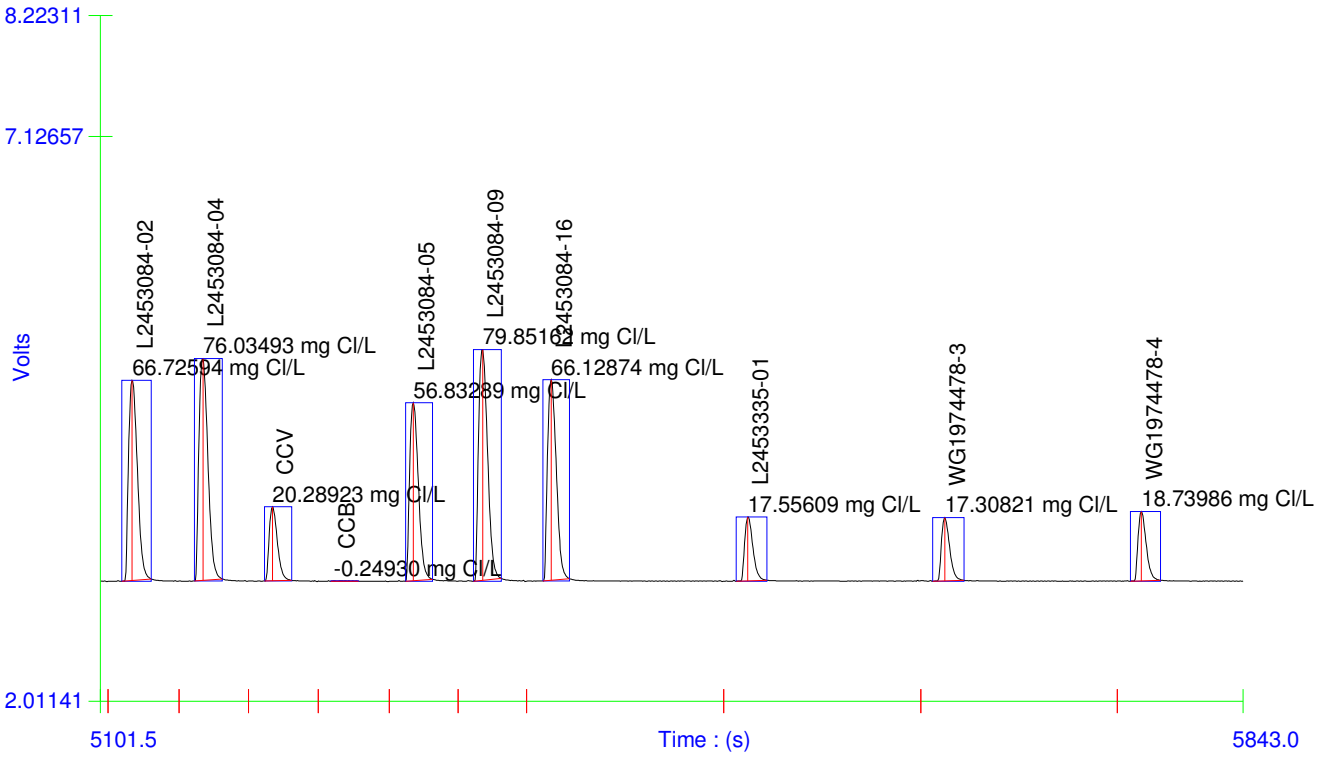


Channel 1 (Chloride) - Set: 9 / 11



Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 10 / 11



Author: Date : 9/21/2024

Channel 1 (Chloride) - Set: 11 / 11

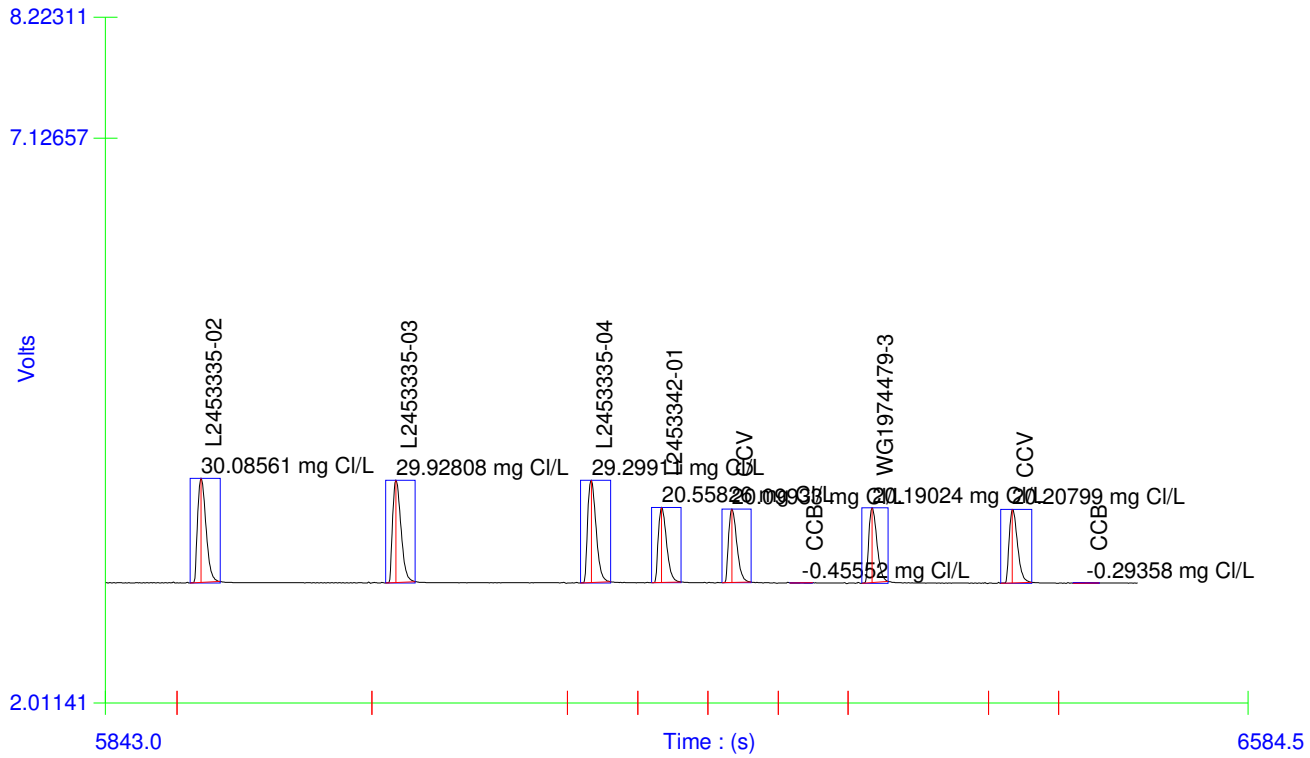
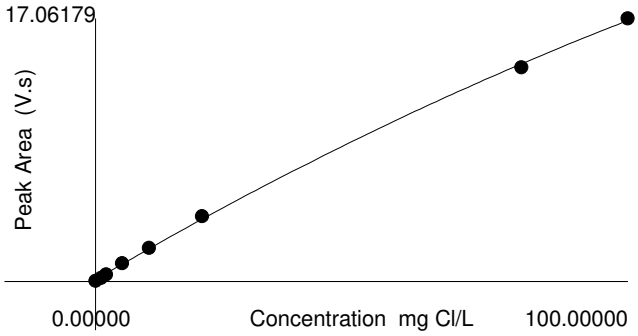


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	17.06179	2.43760	0.0	-0.8	100.73954	9/21/2024	6:06:01 AM
2	80.00000	1	13.88415	2.04503	0.0	1.7	78.79951	9/21/2024	6:06:47 AM
3	20.00000	1	4.22755	0.67480	0.0	-4.8	20.83872	9/21/2024	6:07:33 AM
4	10.00000	1	2.16961	0.34832	0.0	-3.0	10.18146	9/21/2024	6:08:19 AM
5	5.00000	1	1.17784	0.18557	0.0	-5.4	5.25815	9/21/2024	6:09:05 AM
6	2.00000	1	0.45489	0.06955	0.0	11.8	1.75644	9/21/2024	6:09:51 AM
7	1.00000	1	0.22837	0.03459	0.0	27.3	0.67437	9/21/2024	6:10:38 AM
8	0.00000	1	0.03403	0.00395			-0.24820	9/21/2024	6:11:22 AM

Figure : 1 (Chloride-CH3)



Area = - 0.00035 * Conc^2 + 0.20310 * Conc + 0.11116
Conc = 0.07030 * Area^2 + 4.72885 * Area - 0.40922
Correlation Coefficient (r) = 0.99978

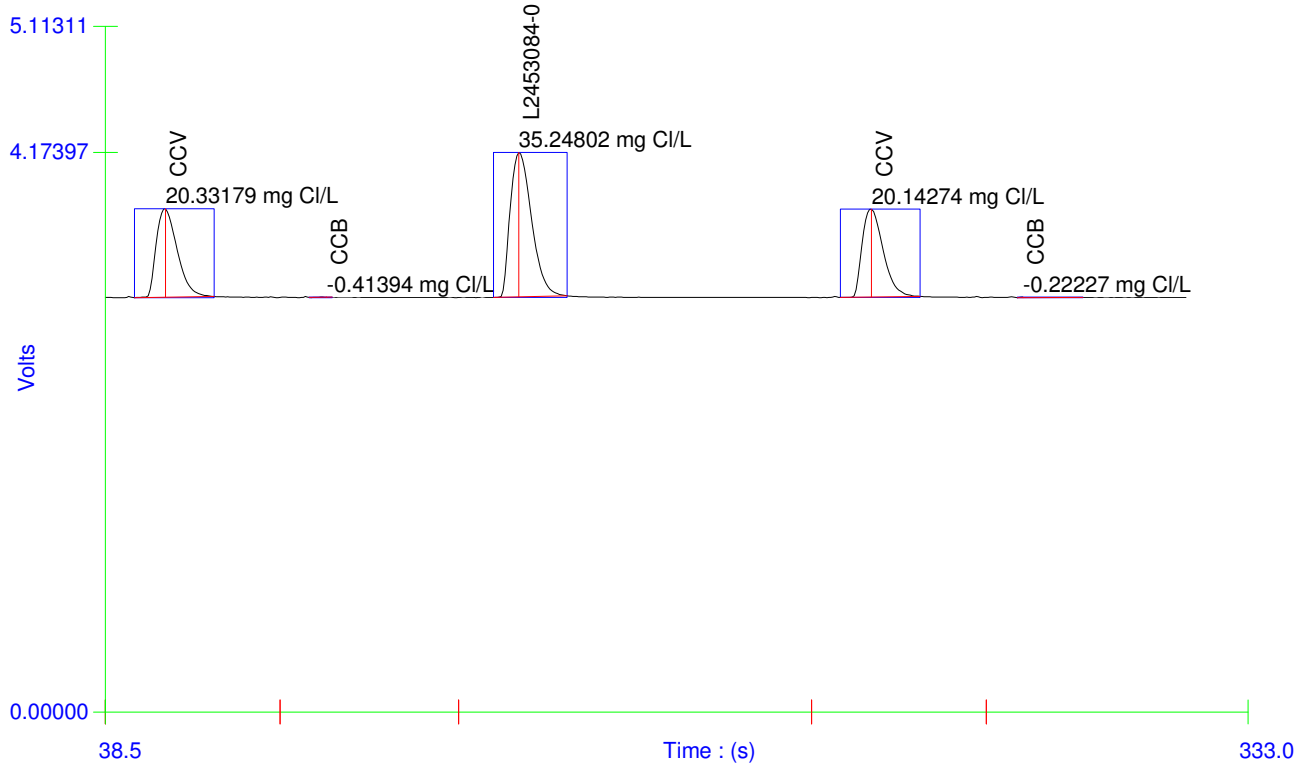
Weighting : None

Author: Date : 9/21/2024

Original Run Filename: OM_9-21-2024_09-02-53AM.OMN Created: 9/21/2024 9:02:53 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-21-2024_09-02-53AM.OMN Last Modified: 9/21/2024 9:08:24 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.33179			
	Known Conc:		20.00000			
CCB	1	S9	-0.41394			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2453084-06	1	21	35.24802			
CCV	1	S3	20.14274			
	Known Conc:		20.00000			
CCB	1	S9	-0.22227			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 1

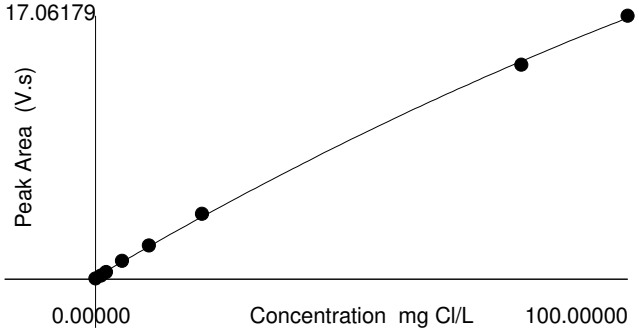


Author: Date : 9/21/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	17.06179	2.43760	0.0	-0.8	100.73954	9/21/2024	6:06:01 AM
2	80.00000	1	13.88415	2.04503	0.0	1.7	78.79951	9/21/2024	6:06:47 AM
3	20.00000	1	4.22755	0.67480	0.0	-4.8	20.83872	9/21/2024	6:07:33 AM
4	10.00000	1	2.16961	0.34832	0.0	-3.0	10.18146	9/21/2024	6:08:19 AM
5	5.00000	1	1.17784	0.18557	0.0	-5.4	5.25815	9/21/2024	6:09:05 AM
6	2.00000	1	0.45489	0.06955	0.0	11.8	1.75644	9/21/2024	6:09:51 AM
7	1.00000	1	0.22837	0.03459	0.0	27.3	0.67437	9/21/2024	6:10:38 AM
8	0.00000	1	0.03403	0.00395			-0.24820	9/21/2024	6:11:22 AM

Figure : 1 (Chloride-CH3)



Area = - 0.00035 * Conc^2 + 0.20310 * Conc + 0.11116
Conc = 0.07030 * Area^2 + 4.72885 * Area - 0.40922
Correlation Coefficient (r) = 0.99978

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01		
Matrix Spike	: WG1974479-4	**MS Analysis Date**	: 09/21/24 07:11
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	20.	20	40.	130					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01	**Analysis Date**	: 09/21/24 07:48
Dup Sample ID	: WG1974479-3	**DUP Analysis Date**	: 09/21/24 07:51

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	20.	20.	0	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974479-2	**LCS Analysis Date**	: 09/21/24 06:21
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**32.0**	**107.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

240921 TRAY 1, MRM Chloride

1 ICV 5.0
2 ICV 30.0
3 ICV 80.0
4 ICB
5 100 PPM
6 WG1974478-1
7 WG1974478-2
8 WG1974479-1
9 WG1974479-2
10 WG1974480-1
11 WG1974480-2
12 L2453084-01
13 WG1974480-3
14 WG1974480-4
15 L2453084-02
16 L2453084-03
17 WG1974480-5
18 WG1974480-6
19 L2453084-04
20 L2453084-05
21 L2453084-06
22 L2453084-07
23 L2453084-08
24 L2453084-09
25 L2453084-10
26 L2453084-11
27 L2453084-12
28 L2453084-13
29 L2453084-15
30 L2453084-16
31 L2452439-04
32 L2453298-01
33 L2453298-02
34 L2453335-01
35 WG1974478-3
36 WG1974478-4
37 L2453335-02
38 L2453335-03
39 L2453335-04
40 L2453335-05
41 L2453335-06
42 L2453356-03
43 L2453356-04
44 L2453356-05
45 L2453356-06
46 L2453356-07

47 L2453356-08
48 L2453356-09
49 L2453342-01
50 WG1974479-3
51 WG1974479-4
52 L2453342-02
53 L2453342-03
54 L2453342-04
55 L2453342-05
56 L2453342-06
57 L2453342-07
58 L2453342-08
59 L2453342-10
60 L2452073-01; 5.1887
61 WG1974477-1; 5.0891
62 WG1974477-2; 5.1374
63 L2451415-01; 5.9846
64 WG1974477-3; 5.5395
65 WG1974477-4; 5.1075

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.07	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974708-1	**Date Collected**	: NA
Client ID	: WG1974708-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974708-3	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/22/24 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1974708.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/22/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis: FLUORIDE
Analysis Date: 9/22/2024 5:26
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG1974708
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 9/22/2024 2:50

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	122	-0.683	0.2075	104	-57.5345016	82.7
0.5	-0.301	100.6	-0.311	0.4885	98		
1.0	0.000	83.5	-0.014	0.9685	97	Correlation Coefficient	
10	1.000	24.7	1.008	10.188	102	0.99980534	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.954	1.00	0.95	95%
SAMP	L2453342-01	50	50		YES	1.00	0.0486	1.00	0.05	
SAMP	L2453342-02	50	50		YES	1.00	0.0335	1.00	0.03	
SAMP	L2453342-03	50	50		YES	1.00	0.0192	1.00	0.02	
SAMP	L2453342-04	50	50		YES	1.00	0.0257	1.00	0.03	
SAMP	L2453342-05	50	50		YES	1.00	0.0444	1.00	0.04	
SAMP	L2453342-06	50	50		YES	1.00	0.0126	1.00	0.01	
SAMP	L2453342-07	50	50		YES	1.00	0.0391	1.00	0.04	
SAMP	L2453342-08	50	50		YES	1.00	0.07	1.00	0.07	
SAMP	L2453342-10	50	50		YES	1.00	0.00782	1.00	0.01	
	CCV	50	50		YES	1.00	0.94	1.00	0.94	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.945	1.00	0.95	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG1974708-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG1974708-3	50	50		YES	1.00	0.0461	1.00	0.05	L2453342-01

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1974708-4	50	50		YES	.05	0.942	1	0.94	89
LCS	WG1974708-2	50	50		YES		1.73	2	1.73	87

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01		
Matrix Spike	: WG1974708-4	**MS Analysis Date**	: 09/22/24 05:26
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.05J	1	0.94	94					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2453342-01	**Analysis Date**	: 09/22/24 05:26
Dup Sample ID	: WG1974708-3	**DUP Analysis Date**	: 09/22/24 05:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.05J	0.05J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974708-2	**LCS Analysis Date**	: 09/22/24 05:26
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.70**	**86.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

4 Project No. _____

nfidential Book No. _____ TITLE _____

om Page No. ____

WG1974708

Analyst: DTH
Date & Time: 9/22/24 5:26
ICV:F 082224
LCS:F 082224
Spike:F 071524
Curve:WC- 3253
TISAB III: R- 4215

SAD	Mv
0.2	122.0
0.5	100.6
1.0	83.5
10.0	24.7

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	0.954
ICB			0.00
Blank			0.00
LCS			1.73
53342 01			0.0486
-Dup 01			0.0461
-MS 01			0.942
-02			0.0335
-03			0.0192
-04			0.0257
-05			0.0444
-06			0.0126
CCV			0.940
CCB			0.00
-07			0.0391
-08			0.0100
-10			0.00782
CCV			0.945
CCB			0.00

To Page No. ____

nessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Vial	Sample	Volume	Final Volume	Block	Comments
20	Blank	50mL	50mL	Panel 2	started @2:50 DJH 9/27/24
19	LCS				1.0mL F071524
18	53342-01				
17	-dup01				
16	-ms01				0.5mL F071524
15	02				
14	03				
13	04				
12	05				
11	06				
10	07			Panel 3	
09	08				
08	10				
01	Tube Reprep				
02					
03					
04					
05					
06					

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.092	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.150	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.018	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.086	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.071	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.031	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.150	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:44
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974099-1	**Date Collected**	: NA
Client ID	: WG1974099-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/20/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974099-3	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10SDUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/20/24 12:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS092024-WG1974099	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.034	0.031	0.012	

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	20-Sep-2024 13:23:27
Tray Number:	1
Tray Name:	WG1974098,99

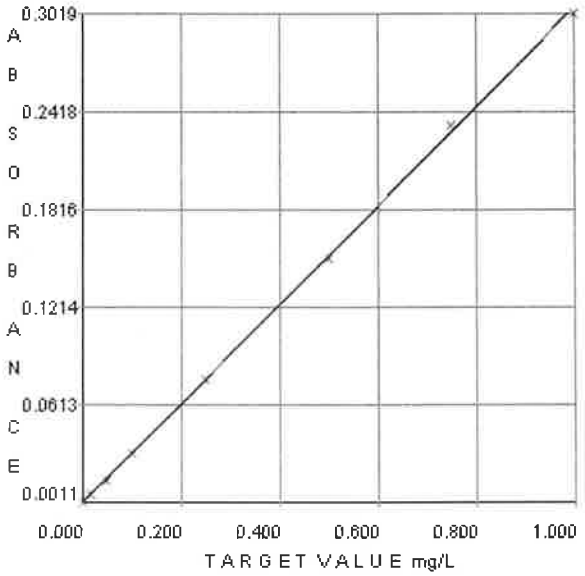
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0011	0.003	0.000	
S90	0.0060	0.019	0.020	-5.04
S91	0.0142	0.046	0.050	-8.26
S92	0.0305	0.099	0.100	-0.64
S93	0.0765	0.251	0.250	0.32
S94	0.1514	0.497	0.500	-0.64
S95	0.2327	0.764	0.750	1.86
S96	0.3019	0.991	1.000	-0.88
S0	0.0012	0.003	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9998
Carryover(%):	0.0
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-7.055434E-004
b =:	3.285521E+000
Date & Time:	20-Sep-2024 12:12:19

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	091524-tp color	Maeve Flaherty	06-Oct-2024 22:00:00
TP ascorbic	091824-aa	Maeve Flaherty	25-Sep-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.001		0.001131			EYA	20-Sep-2024 12:03:19
	S90	STANDARD 90	0.006		0.005995			EYA	20-Sep-2024 12:04:26
	S91	STANDARD 91	0.014		0.014176			EYA	20-Sep-2024 12:05:33
	S92	STANDARD 92	0.030		0.030457			EYA	20-Sep-2024 12:06:39
	S93	STANDARD 93	0.077		0.076546			EYA	20-Sep-2024 12:07:46
	S94	STANDARD 94	0.151		0.151422			EYA	20-Sep-2024 12:08:53
	S95	STANDARD 95	0.233		0.232733			EYA	20-Sep-2024 12:10:01
	S96	STANDARD 96	0.302		0.301914			EYA	20-Sep-2024 12:11:10
	S0	STANDARD 0	0.001		0.001167			EYA	20-Sep-2024 12:12:19
2	ICV	ICV	0.470	mg/L	0.143286			EYA	20-Sep-2024 12:13:26
3	ICB	ICB	0.002	mg/L	0.000765			EYA	20-Sep-2024 12:14:34
4	U1	WG1974098-1	0.002ELL	mg/L	0.000706			EYA	20-Sep-2024 12:15:41
5	U2	WG1974098-2	0.468	mg/L	0.142521			EYA	20-Sep-2024 12:16:49

6	U3	L2452951-21	0.029	mg/L	0.009115			EYA	20-Sep-2024 12:17:56
7	U4	WG1974098-3	0.028	mg/L	0.008622			EYA	20-Sep-2024 12:19:04
8	U5	WG1974098-4	0.538	mg/L	0.163894			EYA	20-Sep-2024 12:20:11
9	U6	L2452951-22	0.019	mg/L	0.005884			EYA	20-Sep-2024 12:21:19
10	U7	L2452951-23	0.001ELL	mg/L	0.000506			EYA	20-Sep-2024 12:22:27
	CCV	C C V	0.462	mg/L	0.140698			EYA	20-Sep-2024 12:23:34
	CCB	C C B	0.001	mg/L	0.000435			EYA	20-Sep-2024 12:24:43
11	U8	L2453123-02	6.194	mg/L	0.075626	x25.0000		EYA	20-Sep-2024 13:19:03
11	U8	L2453123-02	5.957	mg/L	0.362864	x5.0000		EYA	20-Sep-2024 13:01:38
11	U8	L2453123-02	2.577	mg/L	0.784591			EYA	20-Sep-2024 12:25:52
12	U9	L2453279-01	0.124	mg/L	0.037956			EYA	20-Sep-2024 12:27:00
13	U10	L2453279-02	0.027	mg/L	0.008297			EYA	20-Sep-2024 12:28:07
14	U11	L2453279-03-5	2.155	mg/L	0.131425		x5.0000	EYA	20-Sep-2024 12:29:15
15	U12	L2453279-04-5	1.992	mg/L	0.121461		x5.0000	EYA	20-Sep-2024 12:30:22
16	U13	L2453851-02	0.246	mg/L	0.075103			EYA	20-Sep-2024 12:31:29
17	U14	L2453342-01O	0.030	mg/L	0.009276			EYA	20-Sep-2024 12:32:36
18	U15	L2453342-02O	0.049	mg/L	0.015060			EYA	20-Sep-2024 12:33:43
19	U16	L2453342-03O	0.006	mg/L	0.001919			EYA	20-Sep-2024 12:34:52
20	U17	L2453342-04O	0.028	mg/L	0.008686			EYA	20-Sep-2024 12:36:01
	CCV	C C V	0.466	mg/L	0.142003			EYA	20-Sep-2024 12:36:56
	CCB	C C B	0.002	mg/L	0.000823			EYA	20-Sep-2024 12:37:59
21	U18	L2453342-05O	0.023	mg/L	0.007330			EYA	20-Sep-2024 12:38:54
22	U19	L2453342-06O	0.010	mg/L	0.003324			EYA	20-Sep-2024 12:39:47
23	U20	WG1974099-3O	0.011	mg/L	0.003500			EYA	20-Sep-2024 12:40:41
24	U21	WG1974099-4O	0.508	mg/L	0.154813			EYA	20-Sep-2024 12:41:34
25	U22	L2453342-07O	0.013	mg/L	0.004235			EYA	20-Sep-2024 12:42:28
26	U23	L2453342-08O	0.049	mg/L	0.015149			EYA	20-Sep-2024 12:43:21
27	U24	L2453342-10O	0.003ELL	mg/L	0.000987			EYA	20-Sep-2024 12:44:15
	CCV	C C V	0.470	mg/L	0.143143			EYA	20-Sep-2024 12:45:08
	CCB	C C B	0.003	mg/L	0.000999			EYA	20-Sep-2024 12:46:02
	CCV	CCV	0.462	mg/L	0.140874				20-Sep-2024 12:59:48
	CCB	CCB	0.002	mg/L	0.000940				20-Sep-2024 13:00:43
	CCV	CCV	0.460	mg/L	0.140157				20-Sep-2024 13:02:32
	CCB	CCB	0.002	mg/L	0.000787				20-Sep-2024 13:03:27
	CCV	CCV	0.459	mg/L	0.139974				20-Sep-2024 13:17:14
	CCB	CCB	0.003	mg/L	0.000986				20-Sep-2024 13:18:08
	CCV	CCV	0.459	mg/L	0.139944				20-Sep-2024 13:19:57
	CCB	CCB	0.003	mg/L	0.001069				20-Sep-2024 13:20:52

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06		
Matrix Spike	: WG1974099-4	**MS Analysis Date**	: 09/20/24 12:41
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Phosphate, Total	0.031	1.53	1.56	102					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06	**Analysis Date**	: 09/20/24 12:39
Dup Sample ID	: WG1974099-3	**DUP Analysis Date**	: 09/20/24 12:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.031	0.034	10	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974099-2	**LCS Analysis Date**	: 09/20/24 12:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.44**	**94.**					**84-118**	**15**

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Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-01	**Date Collected**	: 09/17/24 10:51
Client ID	: MP-1	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.044	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-02	**Date Collected**	: 09/17/24 11:30
Client ID	: MP-1D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.065	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-03	**Date Collected**	: 09/17/24 08:25
Client ID	: MW-13D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.041	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-04	**Date Collected**	: 09/17/24 08:23
Client ID	: MW-13S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 12:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-05	**Date Collected**	: 09/17/24 09:25
Client ID	: MW-10D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 13:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.048	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-06	**Date Collected**	: 09/17/24 09:21
Client ID	: MW-10S	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 13:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-07	**Date Collected**	: 09/17/24 13:00
Client ID	: MW-6D	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-08	**Date Collected**	: 09/17/24 12:55
Client ID	: PZ-6	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.040	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453342-10	**Date Collected**	: 09/17/24 00:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/17/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/20/24 14:41
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974208-1	**Date Collected**	: NA
Client ID	: WG1974208-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/20/24 16:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974208	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

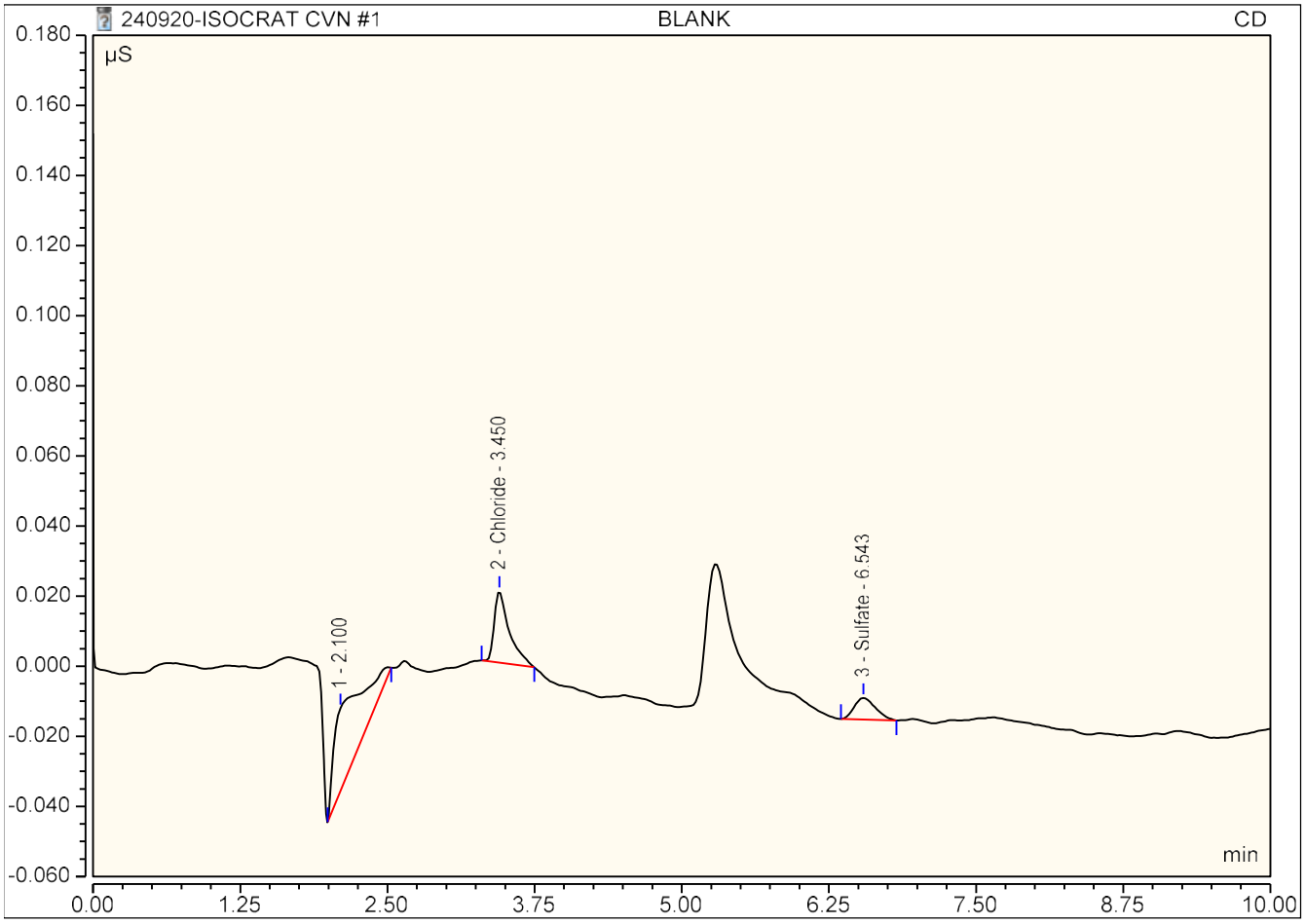
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:08**	*Run Time:*	**10.00**

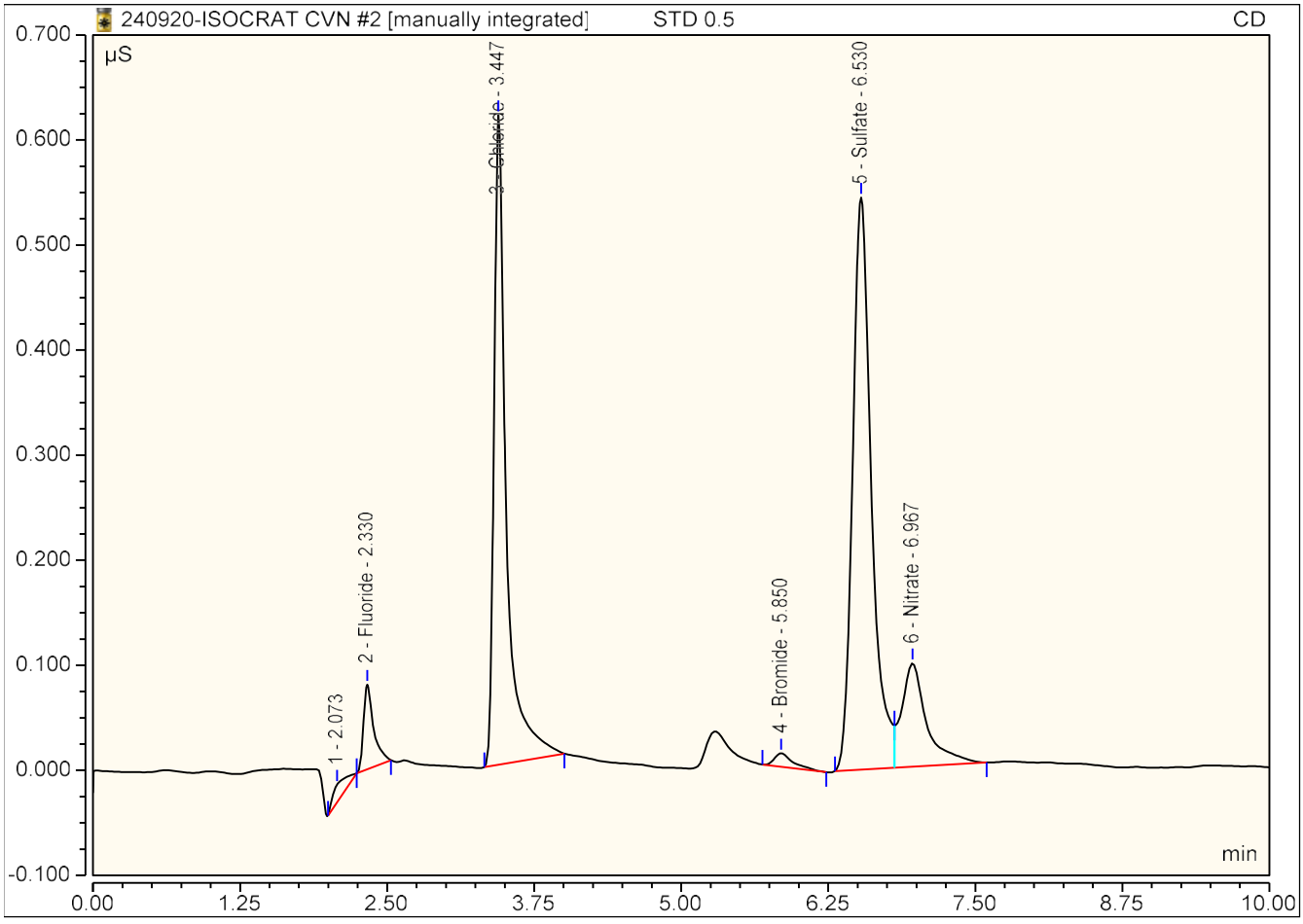
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB	0.003	0.020	0.2129
3	6.54	**Sulfate**	BMB	0.001	0.006	0.2810
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:20**	*Run Time:*	**10.00**

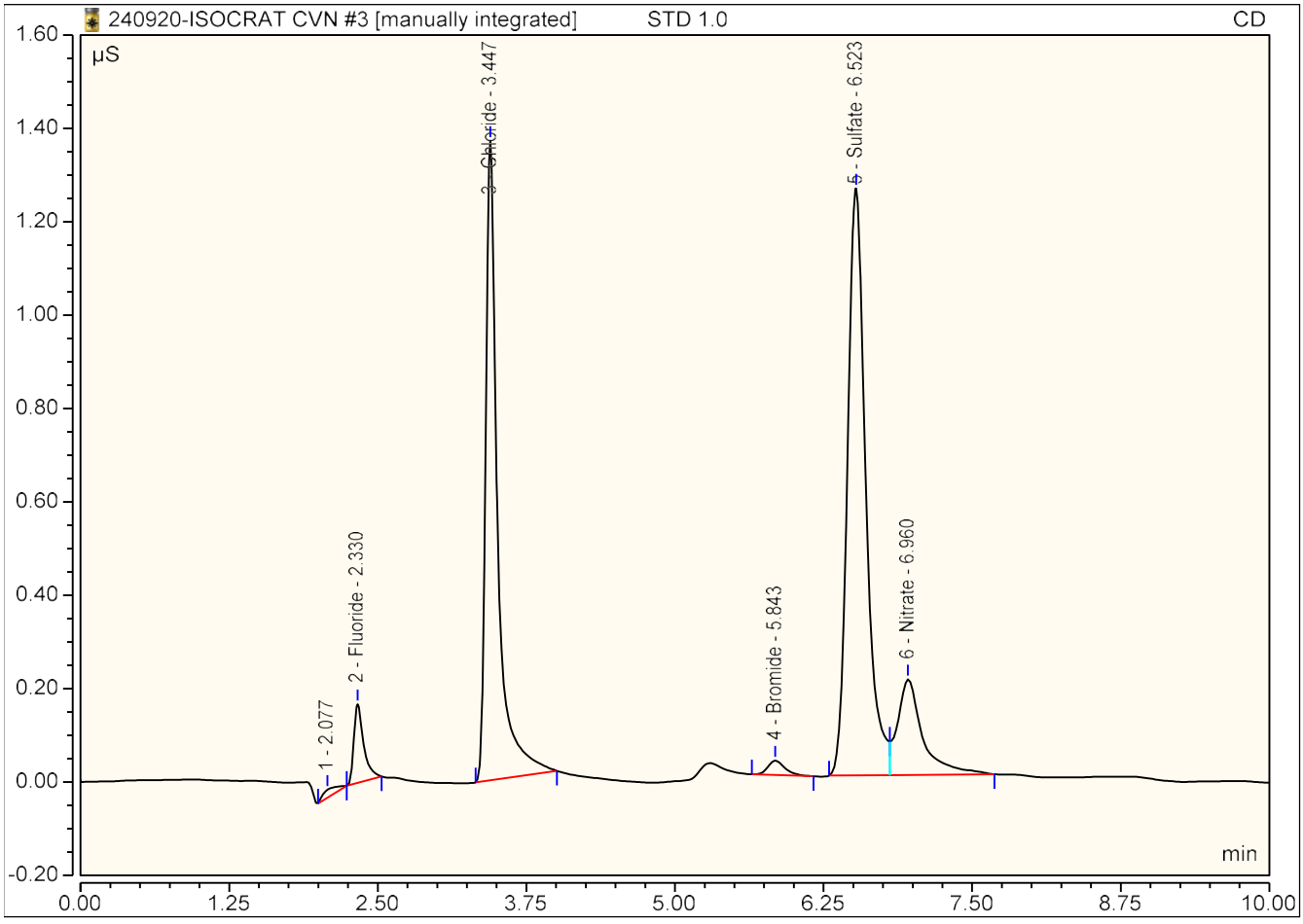
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.081	0.0592
3	3.45	**Chloride**	BMB*	0.074	0.618	0.3873
4	5.85	**Bromide**	BMB	0.002	0.013	0.0525
5	6.53	**Sulfate**	BM *	0.100	0.545	0.6237
6	6.97	**Nitrate**	MB*	0.024	0.098	0.0442
TOTAL:				0.21	1.35	1.17



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:33**	*Run Time:*	**10.00**

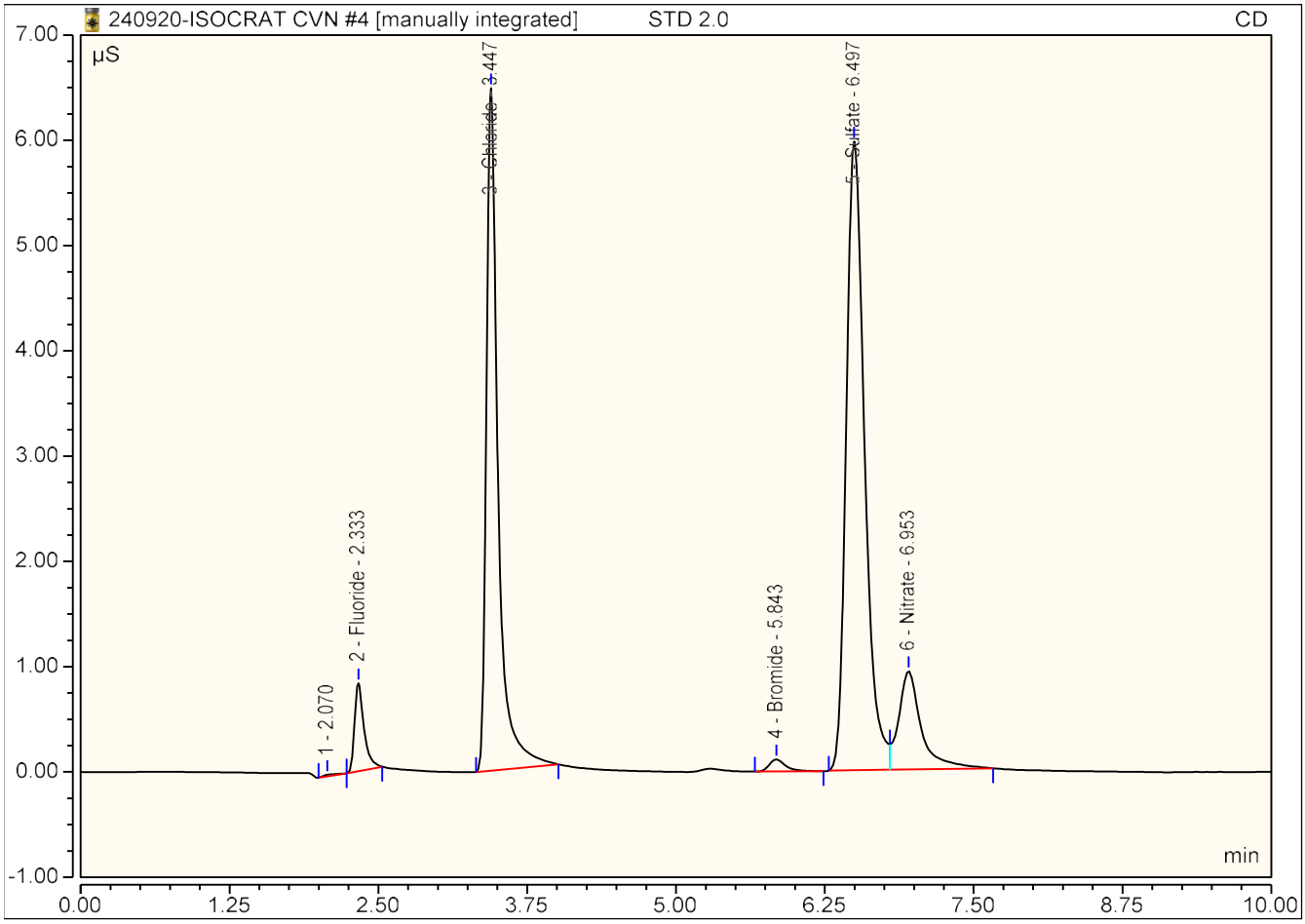
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.016	0.169	0.0738
3	3.45	**Chloride**	BMB*	0.159	1.370	0.5947
4	5.84	**Bromide**	BMB	0.005	0.031	0.0753
5	6.52	**Sulfate**	BM *	0.223	1.257	1.0491
6	6.96	**Nitrate**	MB*	0.050	0.205	0.0646
TOTAL:				0.45	3.03	1.86



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:45**	*Run Time:*	**10.00**

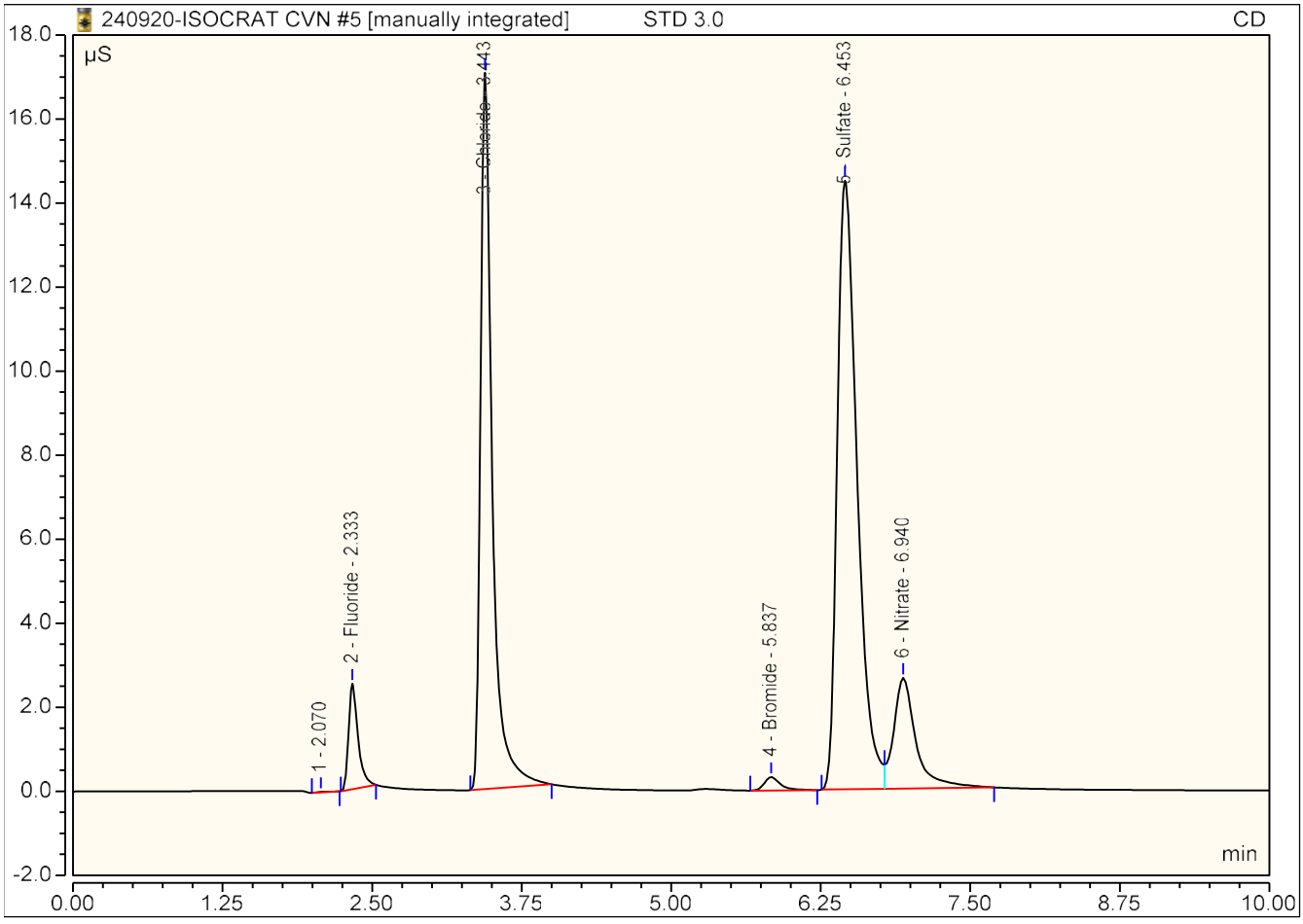
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.077	0.836	0.1840
3	3.45	**Chloride**	BMB*	0.734	6.483	1.9971
4	5.84	**Bromide**	BMB	0.019	0.116	0.1890
5	6.50	**Sulfate**	BM *	1.064	5.973	3.9561
6	6.95	**Nitrate**	MB*	0.206	0.936	0.1868
TOTAL:				2.10	14.34	6.51



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:57**	*Run Time:*	**10.00**

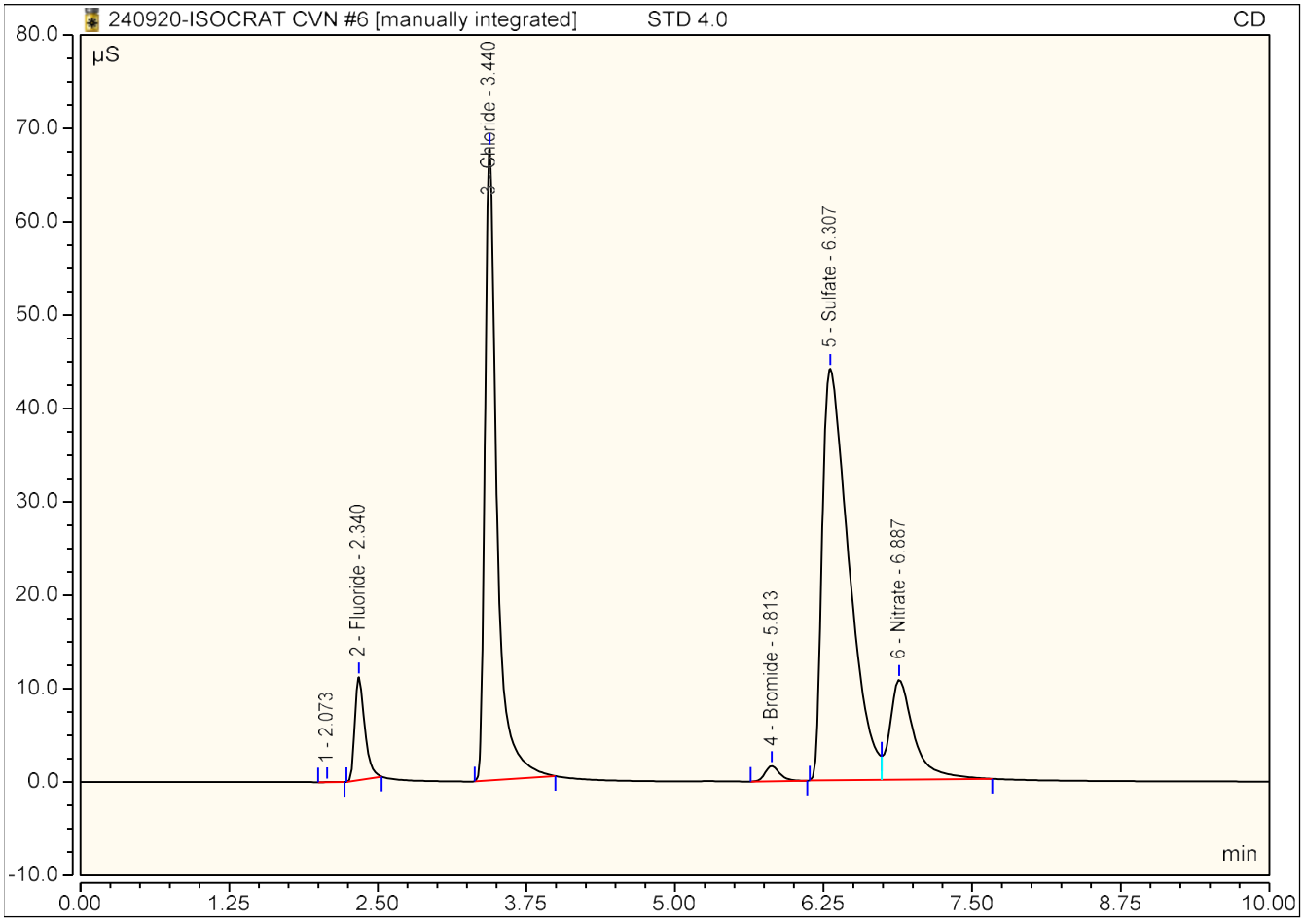
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.228	2.511	0.4607
3	3.44	**Chloride**	BMB*	1.937	17.049	4.9336
4	5.84	**Bromide**	BMB	0.050	0.317	0.4440
5	6.45	**Sulfate**	BM *	2.793	14.483	9.9320
6	6.94	**Nitrate**	MB*	0.570	2.634	0.4717
TOTAL:				5.58	36.99	16.24



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:09**	*Run Time:*	**10.00**

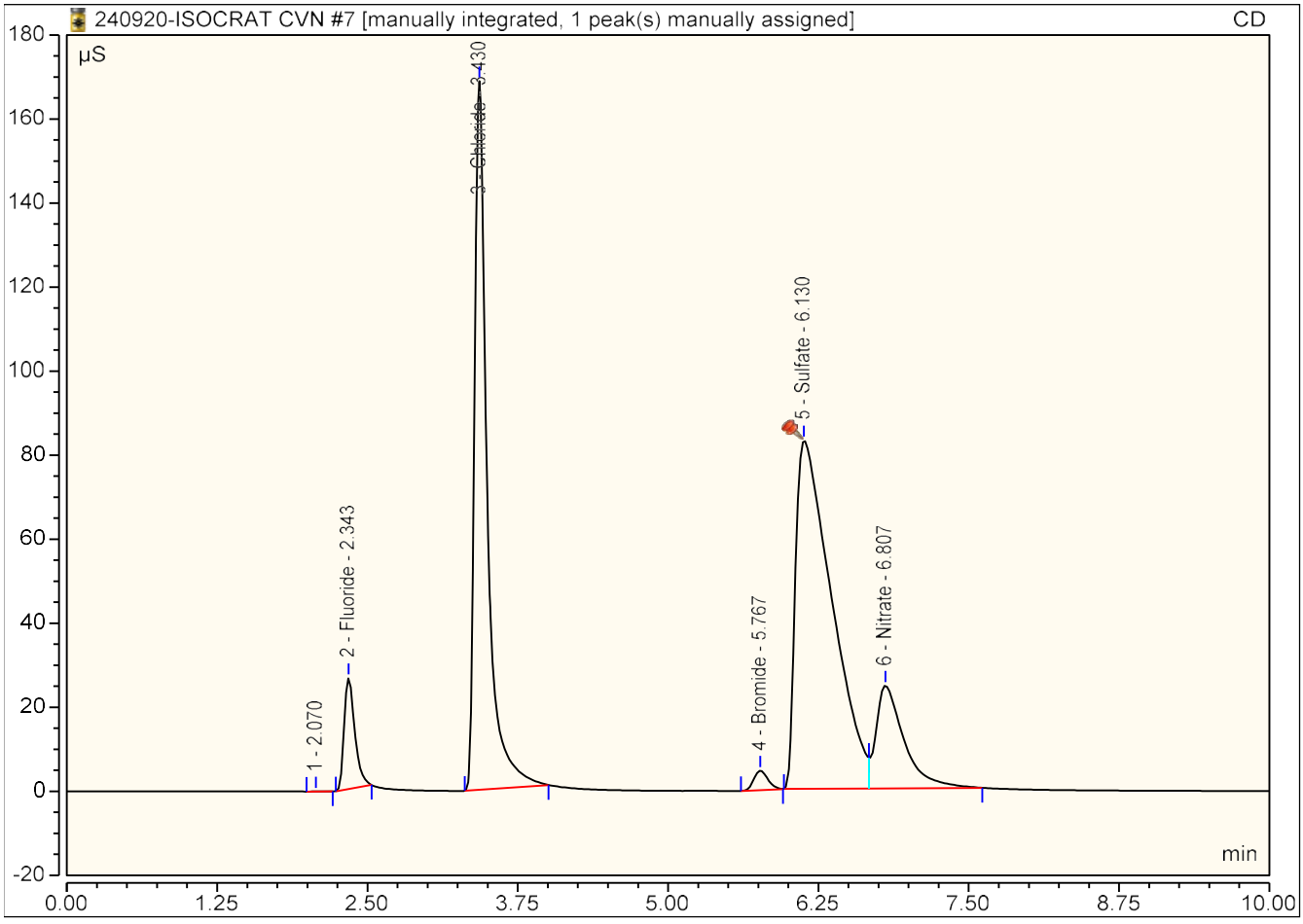
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	1.066	11.023	1.9885
3	3.44	**Chloride**	BMB*	7.993	67.701	19.7203
4	5.81	**Bromide**	BMB	0.239	1.650	2.0141
5	6.31	**Sulfate**	BM *	11.456	44.080	39.8861
6	6.89	**Nitrate**	MB*	2.529	10.726	2.0078
TOTAL:				23.28	135.18	65.62



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	2.722	26.414	5.0087
3	3.43	**Chloride**	BMB*	20.443	168.608	50.1170
4	5.77	**Bromide**	BMB	0.629	4.639	5.2575
5	6.13	**Sulfate**	BM *^	28.857	82.915	100.0530
6	6.81	**Nitrate**	MB*	6.605	24.427	5.2021
TOTAL:				59.26	307.00	165.64



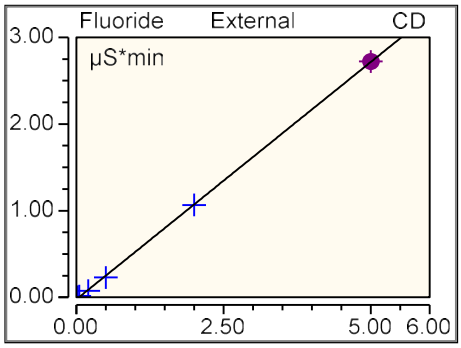
Calibration Batch Report

Sequence:	**240920-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10**

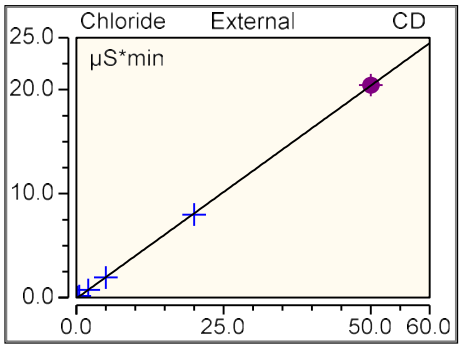
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.024	0.548	0.000	99.9805
Chloride	Area	in, WithOffse	6.000	-0.084	0.410	0.000	99.9935
Bromide	Area	in, WithOffse	5.000	-0.004	0.120	0.000	99.8241
Sulfate	Area	in, WithOffse	6.000	-0.080	0.289	0.000	99.9995
Nitrate	Area	in, WithOffse	5.000	-0.032	1.276	0.000	99.9412
		AVERAGE:		-0.0449	0.5287	0.0000	99.9478

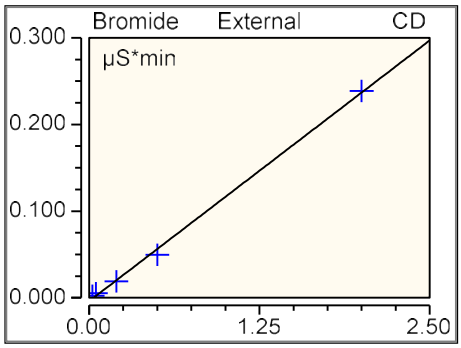
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.330	0.0081	0.081	0.059
STD 1.0	2.330	0.0161	0.169	0.074
STD 2.0	2.333	0.0765	0.836	0.184
STD 3.0	2.333	0.2282	2.511	0.461
STD 4.0	2.340	1.0658	11.023	1.989
STD 5.0	2.343	2.7217	26.414	5.009
Average	2.335			
Rel. Std. Dev.	0.235 %			



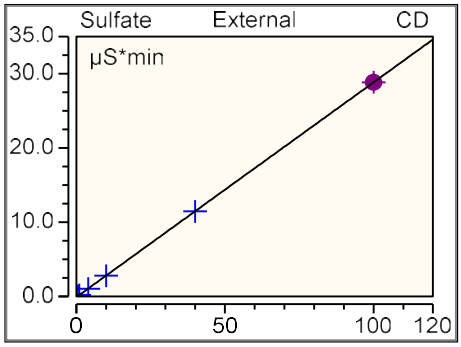
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.447	0.0744	0.618	0.387
STD 1.0	3.447	0.1594	1.370	0.595
STD 2.0	3.447	0.7338	6.483	1.997
STD 3.0	3.443	1.9365	17.049	4.934
STD 4.0	3.440	7.9930	67.701	19.720
STD 5.0	3.430	20.4430	168.608	50.117
Average	3.442			
Rel. Std. Dev.	0.190 %			



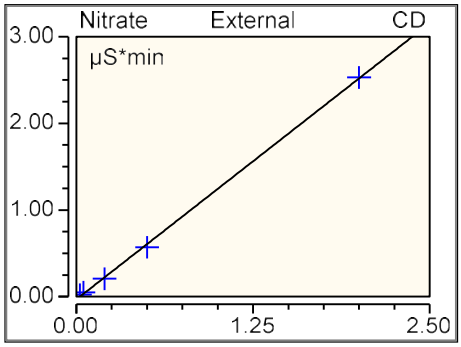
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.850	0.0024	0.013	0.053
STD 1.0	5.843	0.0051	0.031	0.075
STD 2.0	5.843	0.0188	0.116	0.189
STD 3.0	5.837	0.0495	0.317	0.444
STD 4.0	5.813	0.2386	1.650	2.014
STD 5.0	5.767	0.6291	4.639	5.257
Average	5.826			
Rel. Std. Dev.	0.541 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.530	0.1004	0.545	0.624
STD 1.0	6.523	0.2234	1.257	1.049
STD 2.0	6.497	1.0642	5.973	3.956
STD 3.0	6.453	2.7926	14.483	9.932
STD 4.0	6.307	11.4558	44.080	39.886
STD 5.0	6.130	28.8572	82.915	100.053
Average	6.407			
Rel. Std. Dev.	2.474 %			



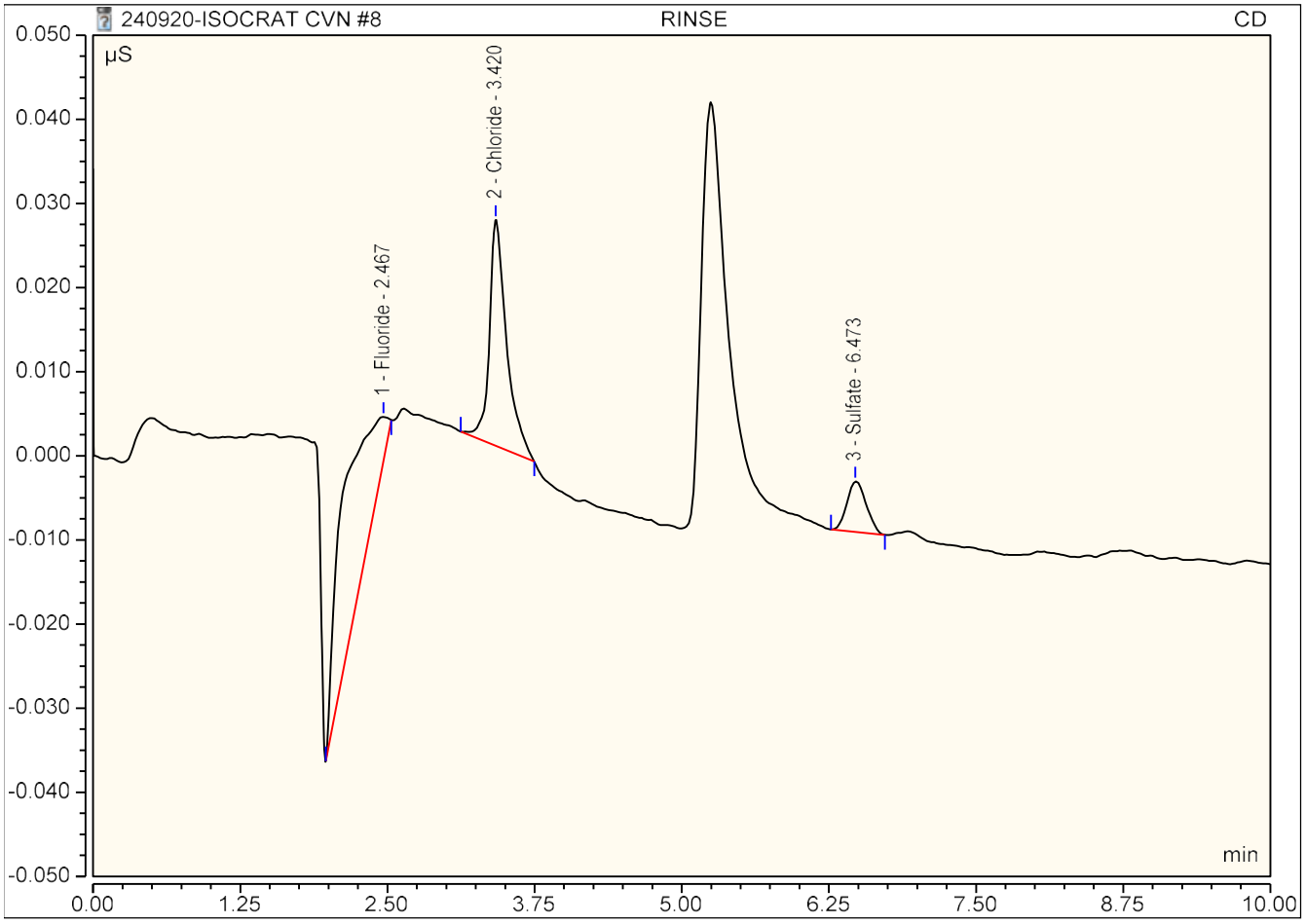
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.967	0.0242	0.098	0.044
STD 1.0	6.960	0.0502	0.205	0.065
STD 2.0	6.953	0.2061	0.936	0.187
STD 3.0	6.940	0.5696	2.634	0.472
STD 4.0	6.887	2.5293	10.726	2.008
STD 5.0	6.807	6.6045	24.427	5.202
Average	6.919			
Rel. Std. Dev.	0.896 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 09:03**	*Run Time:*	**10.00**

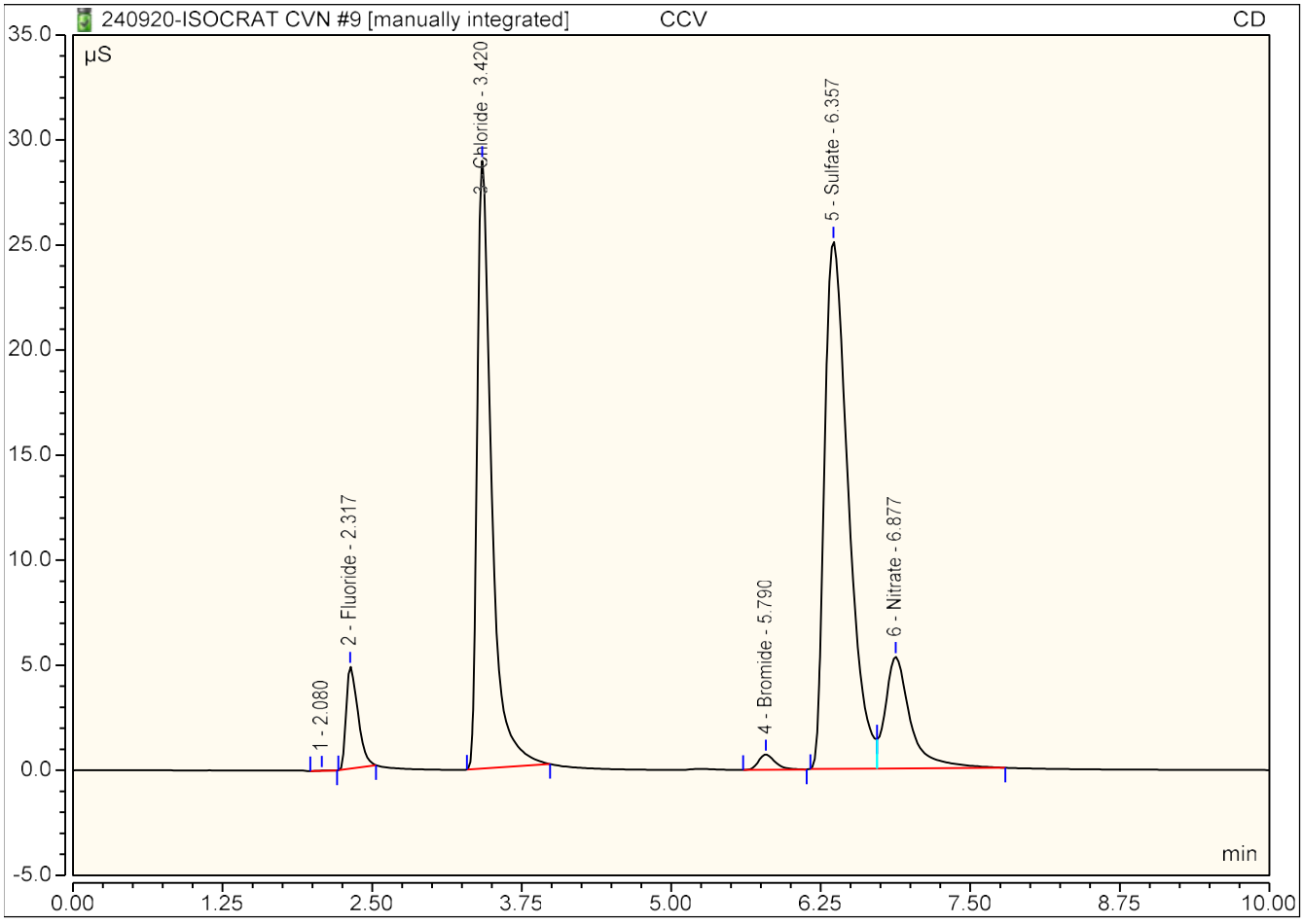
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.47	**Fluoride**	BMB	0.007	0.005	0.0574
2	3.42	**Chloride**	BMB	0.005	0.027	0.2167
3	6.47	**Sulfate**	BMB	0.001	0.006	0.2805
TOTAL:				0.01	0.04	0.55



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 09:15**	*Run Time:*	**10.00**

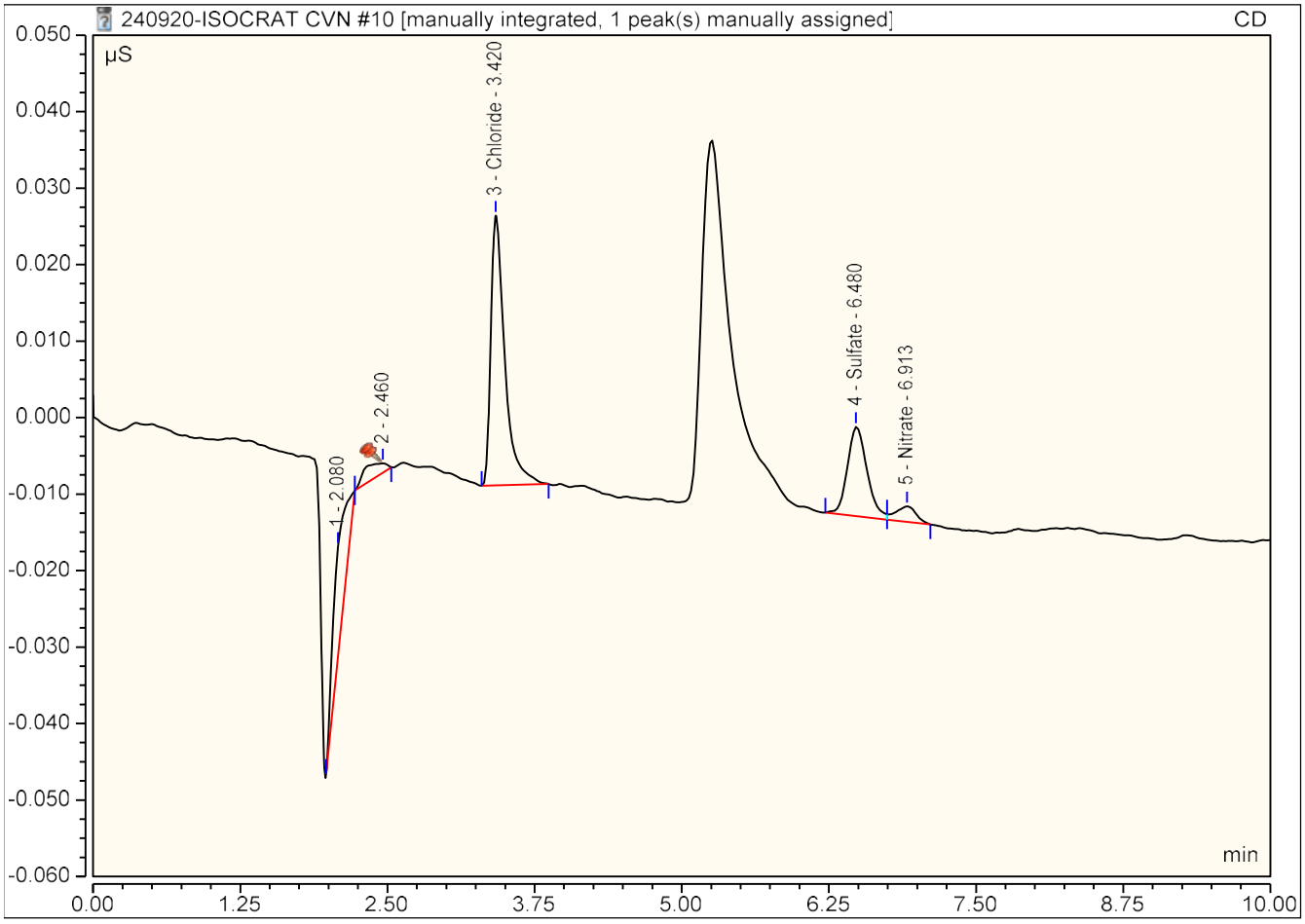
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.549	4.858	1.0451
3	3.42	**Chloride**	BMB*	4.050	28.934	10.0941
4	5.79	**Bromide**	BMB	0.119	0.732	1.0174
5	6.36	**Sulfate**	BM *	5.774	25.094	20.2391
6	6.88	**Nitrate**	MB*	1.297	5.315	1.0419
TOTAL:				11.79	64.93	33.44



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 09:27**	*Run Time:*	**10.00**

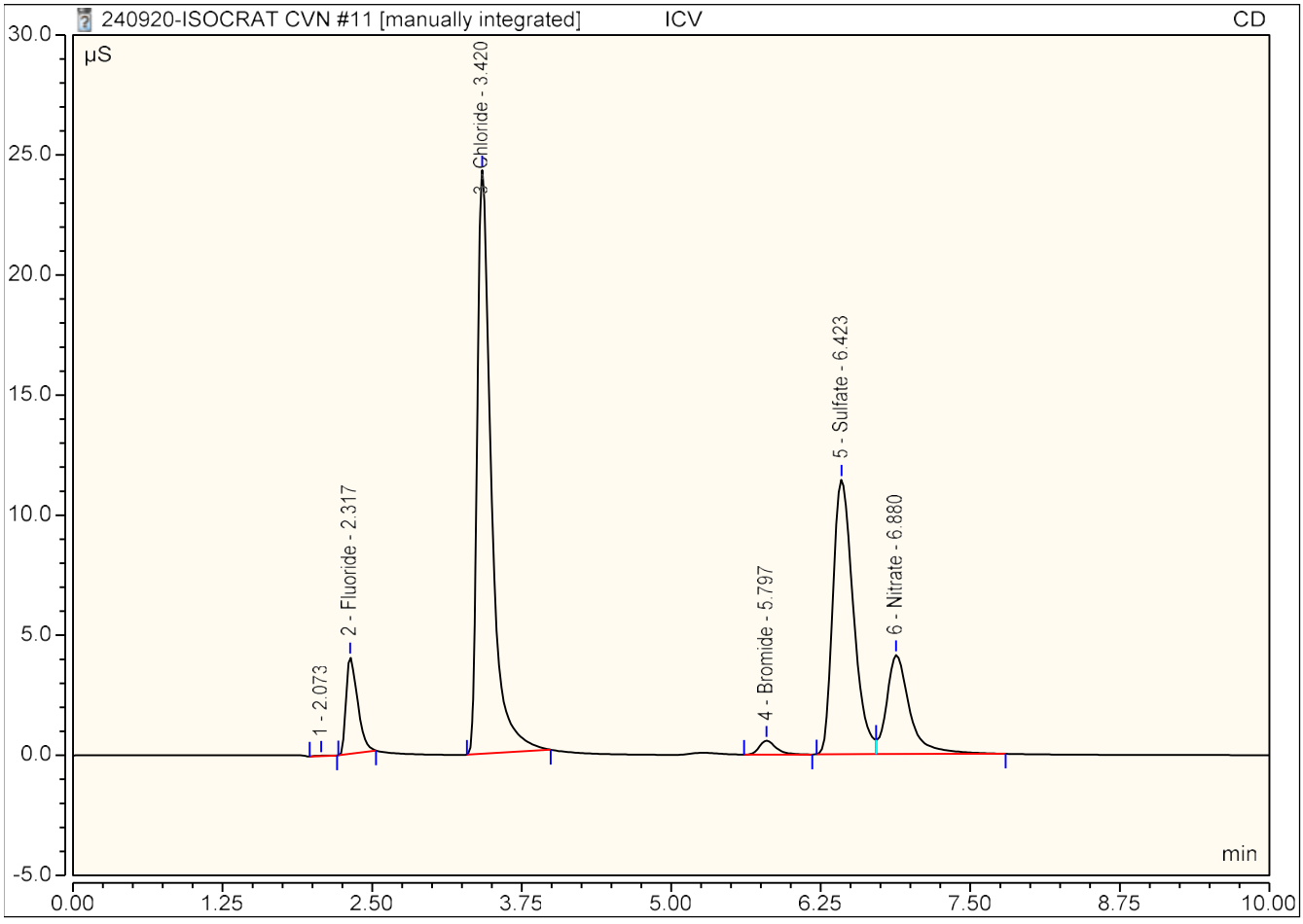
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.005	0.035	0.2174
4	6.48	**Sulfate**	BM *	0.002	0.012	0.2843
5	6.91	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.05	0.53



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 09:39**	*Run Time:*	**10.00**

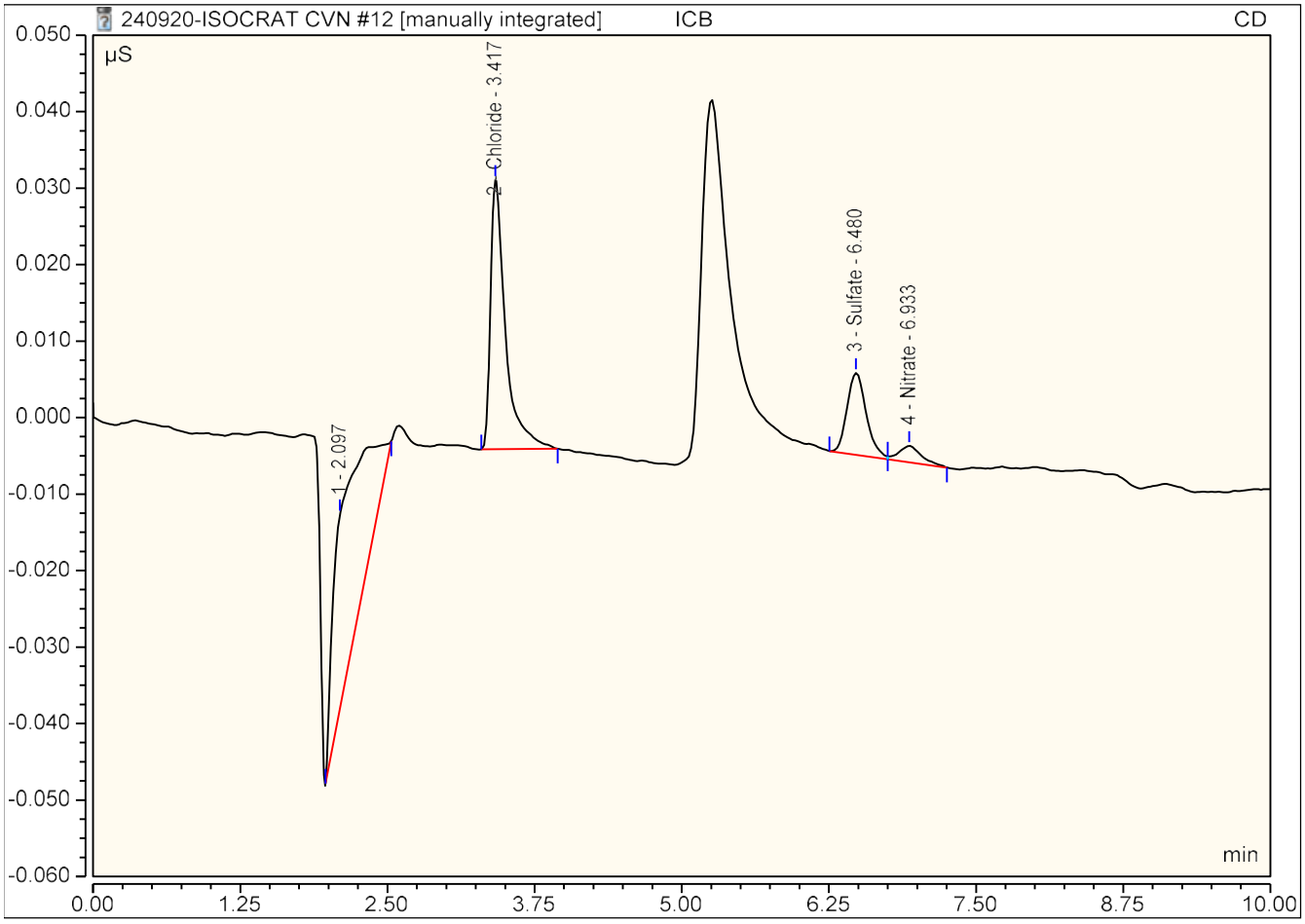
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.447	4.023	0.8593
3	3.42	**Chloride**	BMB*	3.330	24.309	8.3357
4	5.80	**Bromide**	BMB	0.095	0.584	0.8235
5	6.42	**Sulfate**	BM *	2.267	11.432	8.1139
6	6.88	**Nitrate**	MB*	0.922	4.122	0.7476
TOTAL:				7.06	44.47	18.88



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 09:51**	*Run Time:*	**10.00**

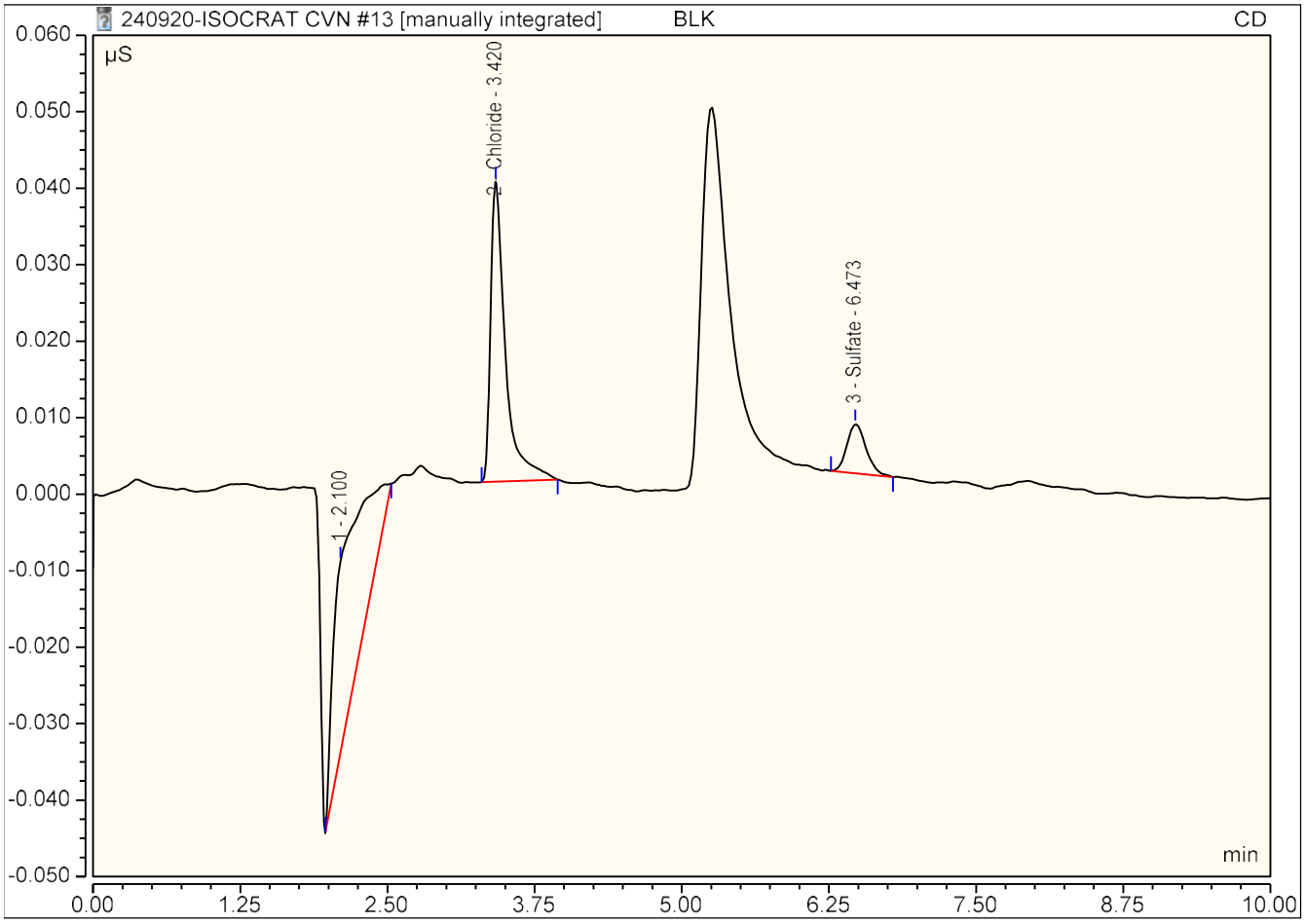
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.005	0.035	0.2182
3	6.48	**Sulfate**	BM *	0.002	0.011	0.2836
4	6.93	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.05	0.53



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 10:03**	*Run Time:*	**10.00**

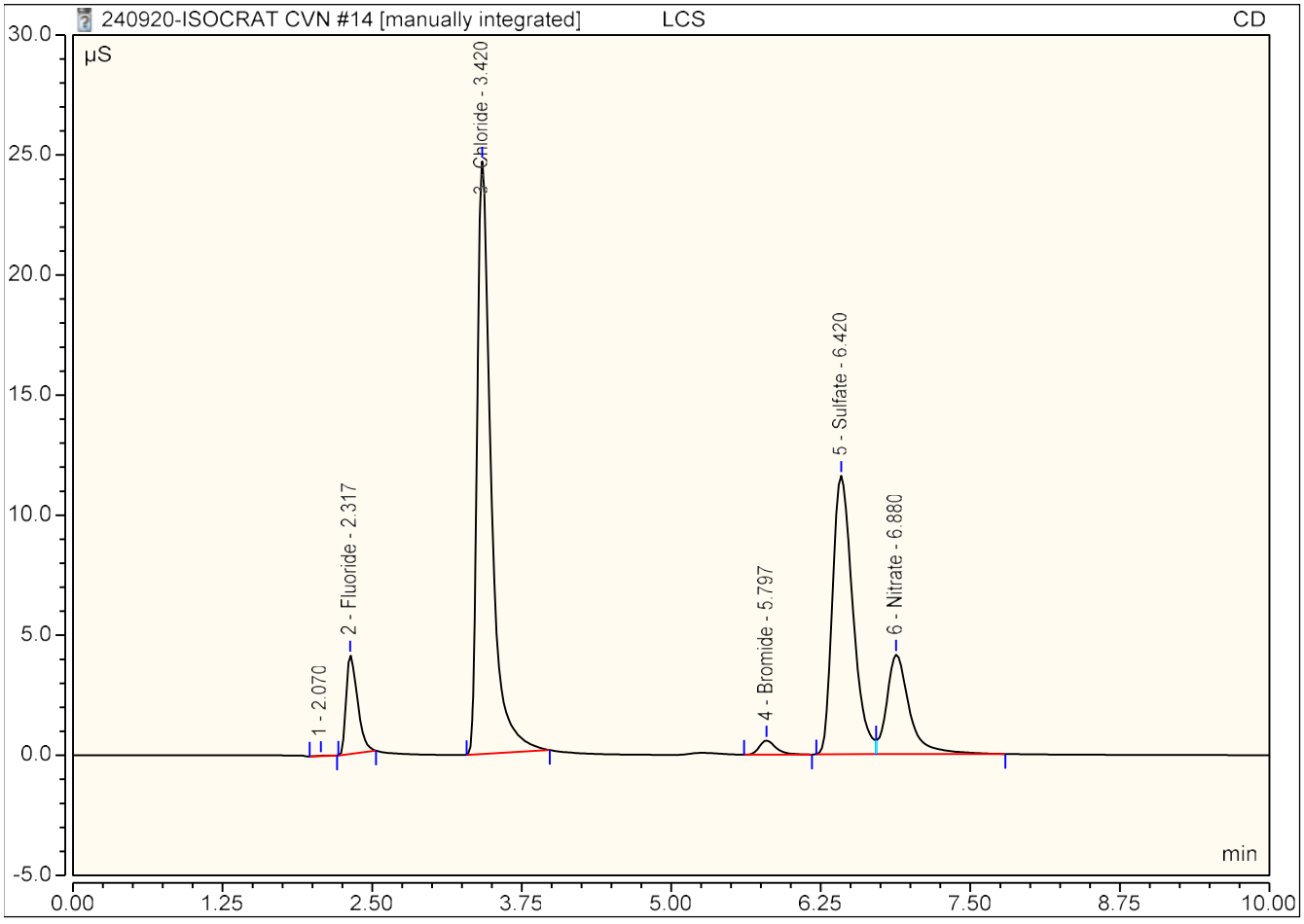
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.006	0.039	0.2195
3	6.47	**Sulfate**	BMB	0.001	0.006	0.2807
TOTAL:				0.01	0.05	0.50



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 10:16**	*Run Time:*	**10.00**

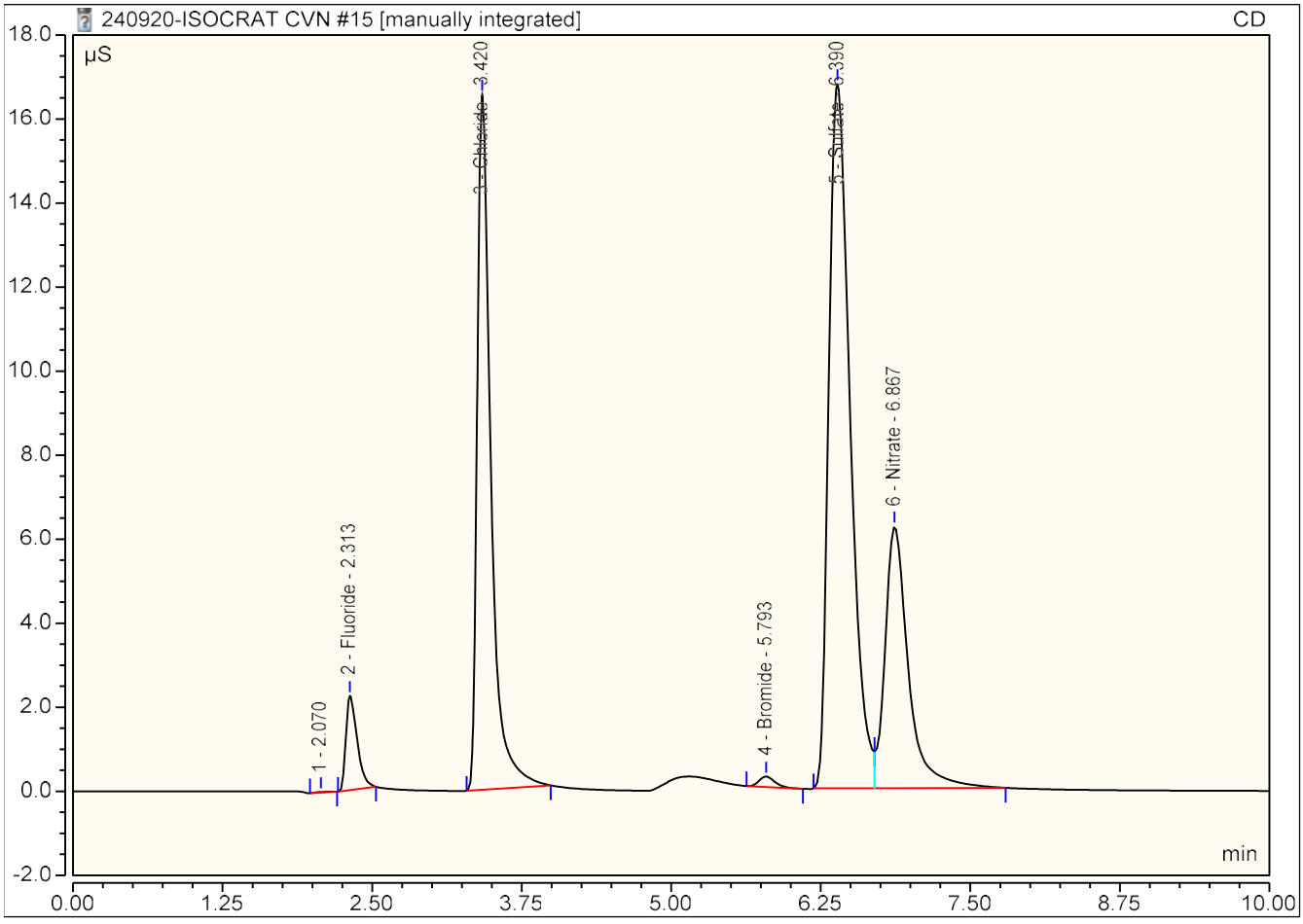
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.451	4.102	0.8666
3	3.42	**Chloride**	BMB*	3.347	24.679	8.3768
4	5.80	**Bromide**	BMB	0.095	0.590	0.8232
5	6.42	**Sulfate**	BM *	2.282	11.593	8.1675
6	6.88	**Nitrate**	MB*	0.913	4.145	0.7406
TOTAL:				7.09	45.11	18.97



Peak Integration Report

Sample Name:	**L2453053-01 BR MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 10:28**	*Run Time:*	**10.00**

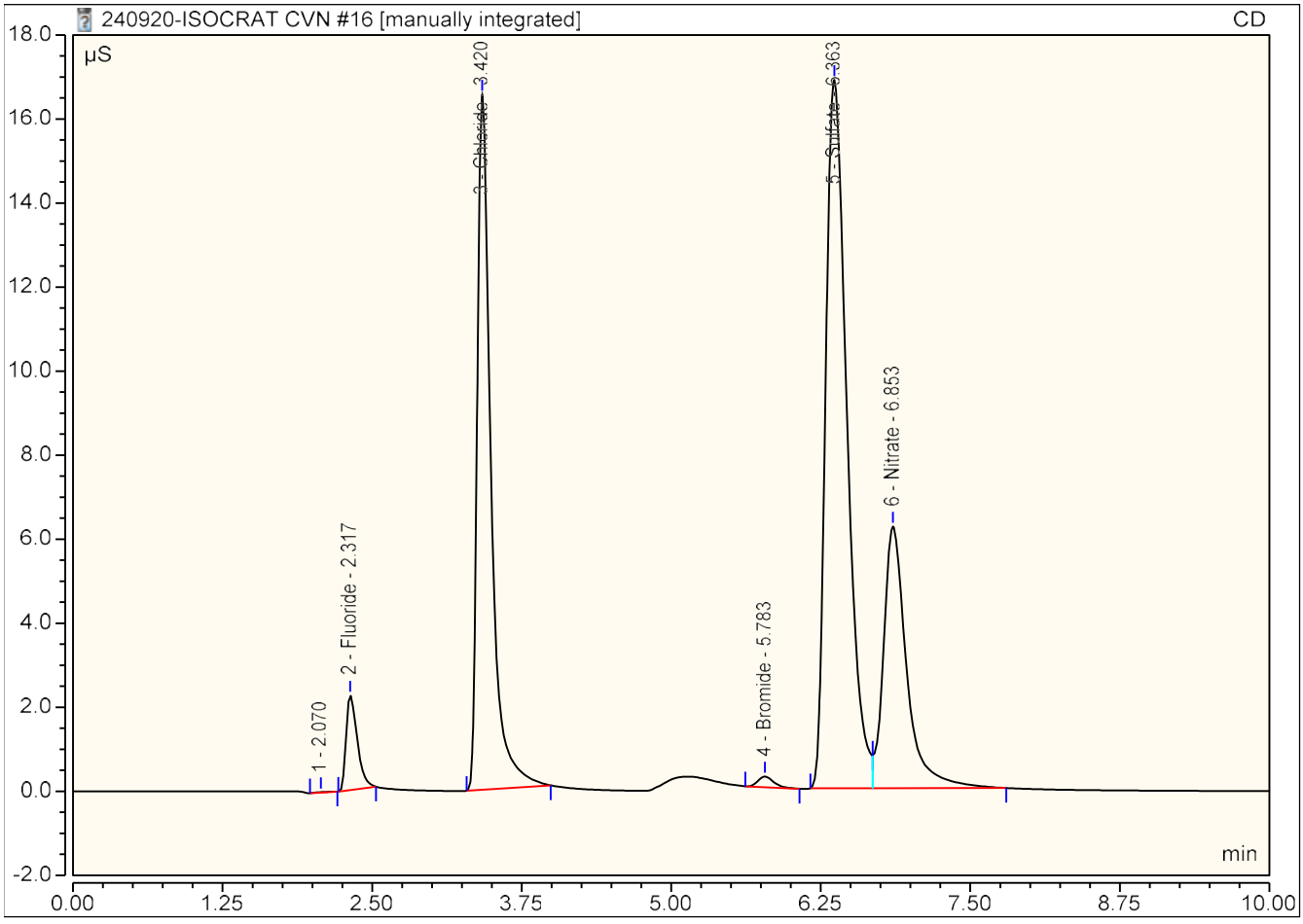
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.243	2.242	0.4868
3	3.42	**Chloride**	BMB*	2.192	16.548	5.5569
4	5.79	**Bromide**	BMB	0.039	0.253	0.3547
5	6.39	**Sulfate**	BM *	3.458	16.759	12.2323
6	6.87	**Nitrate**	MB*	1.407	6.231	1.1284
TOTAL:				7.34	42.03	19.76



Peak Integration Report

Sample Name:	**L2453053-01 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 10:40**	*Run Time:*	**10.00**

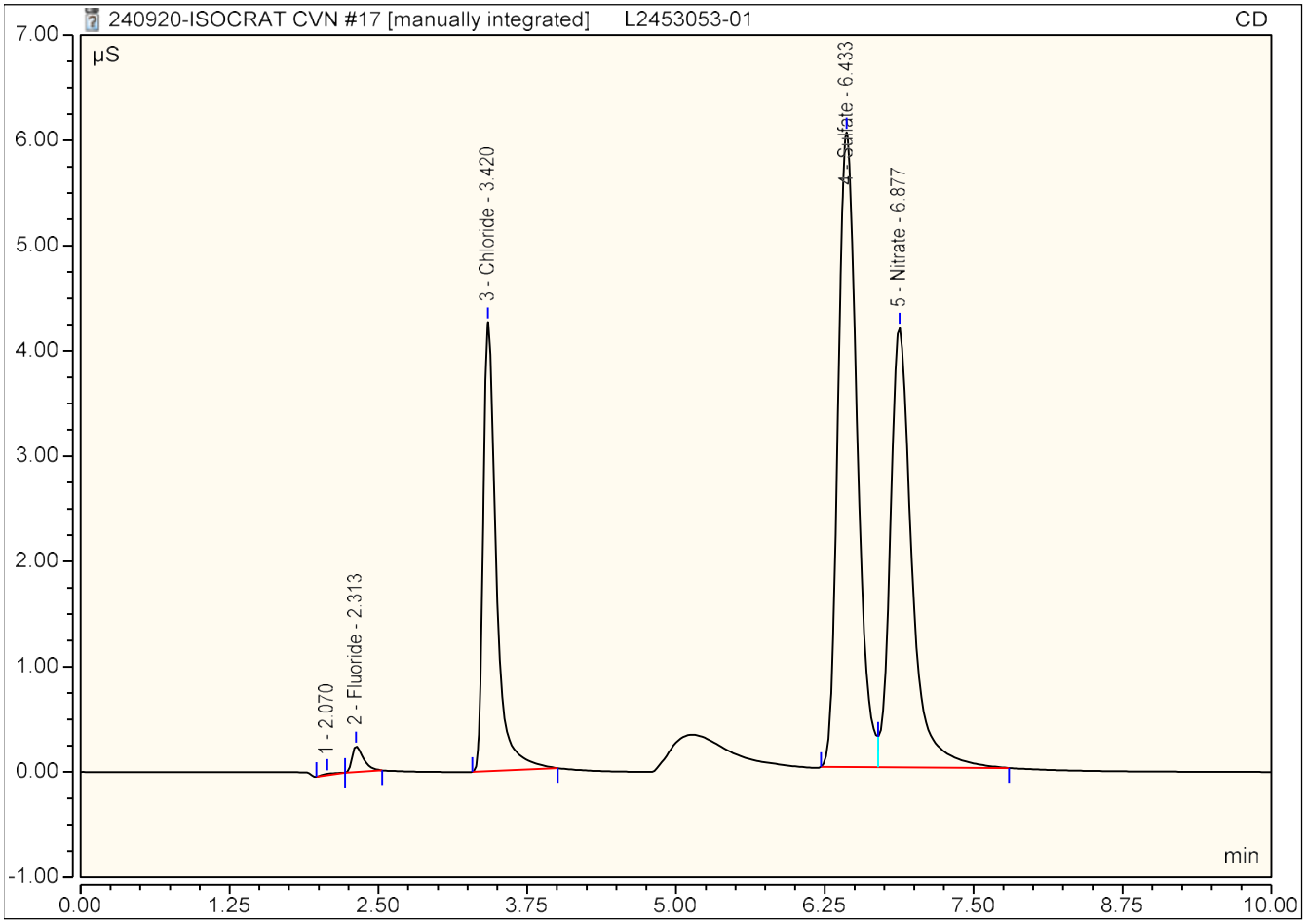
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.243	2.251	0.4873
3	3.42	**Chloride**	BMB*	2.194	16.550	5.5630
4	5.78	**Bromide**	BMB	0.039	0.254	0.3553
5	6.36	**Sulfate**	BM *	3.464	16.861	12.2534
6	6.85	**Nitrate**	MB*	1.400	6.228	1.1228
TOTAL:				7.34	42.14	19.78



Peak Integration Report

Sample Name:	**L2453053-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 10:52**	*Run Time:*	**10.00**

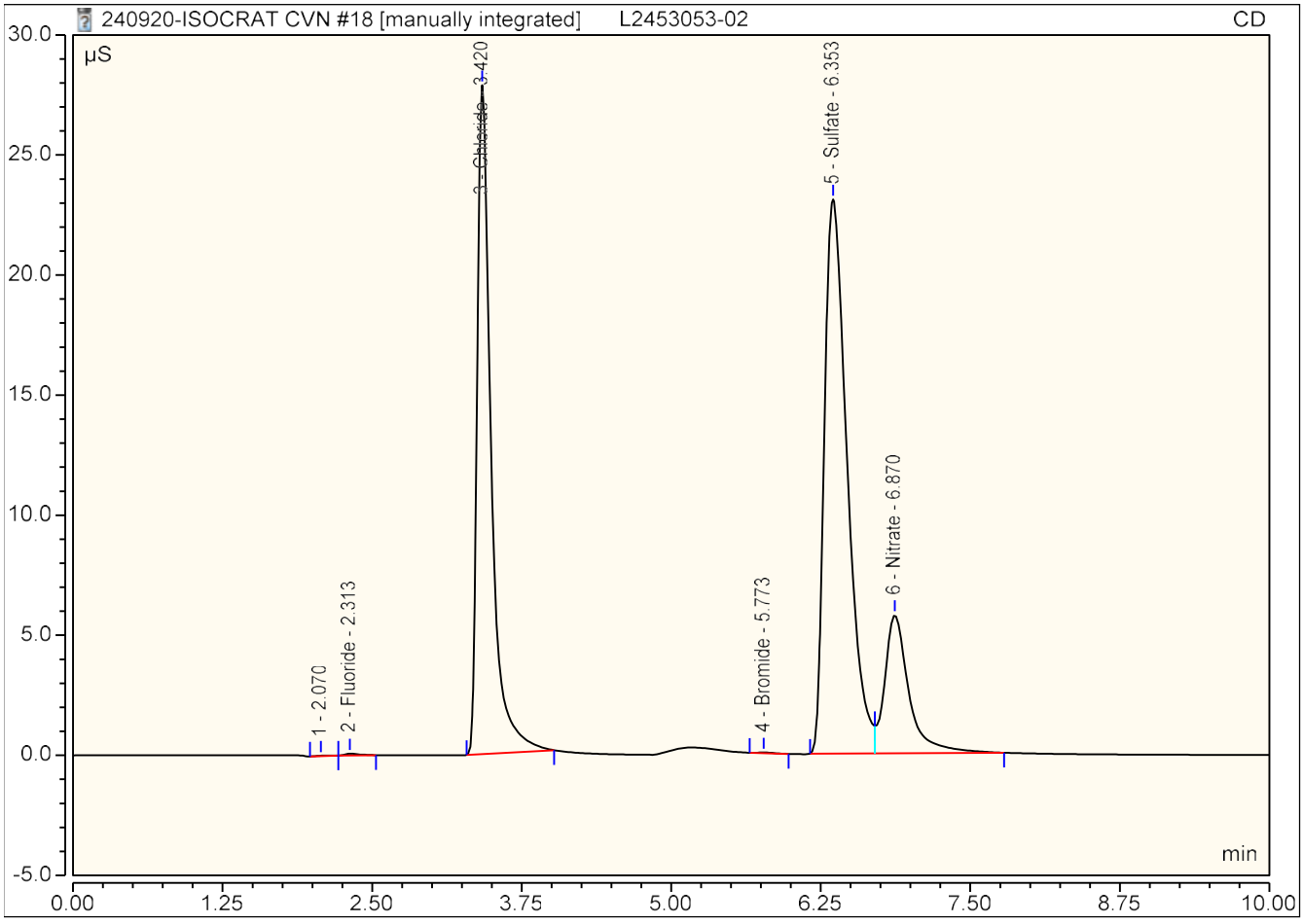
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.027	0.244	0.0944
3	3.42	**Chloride**	BMB*	0.545	4.267	1.5364
4	6.43	**Sulfate**	BM *	1.122	6.030	4.1565
5	6.88	**Nitrate**	MB*	0.880	4.179	0.7151
TOTAL:				2.57	14.72	6.50



Peak Integration Report

Sample Name:	**L2453053-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 11:04**	*Run Time:*	**10.00**

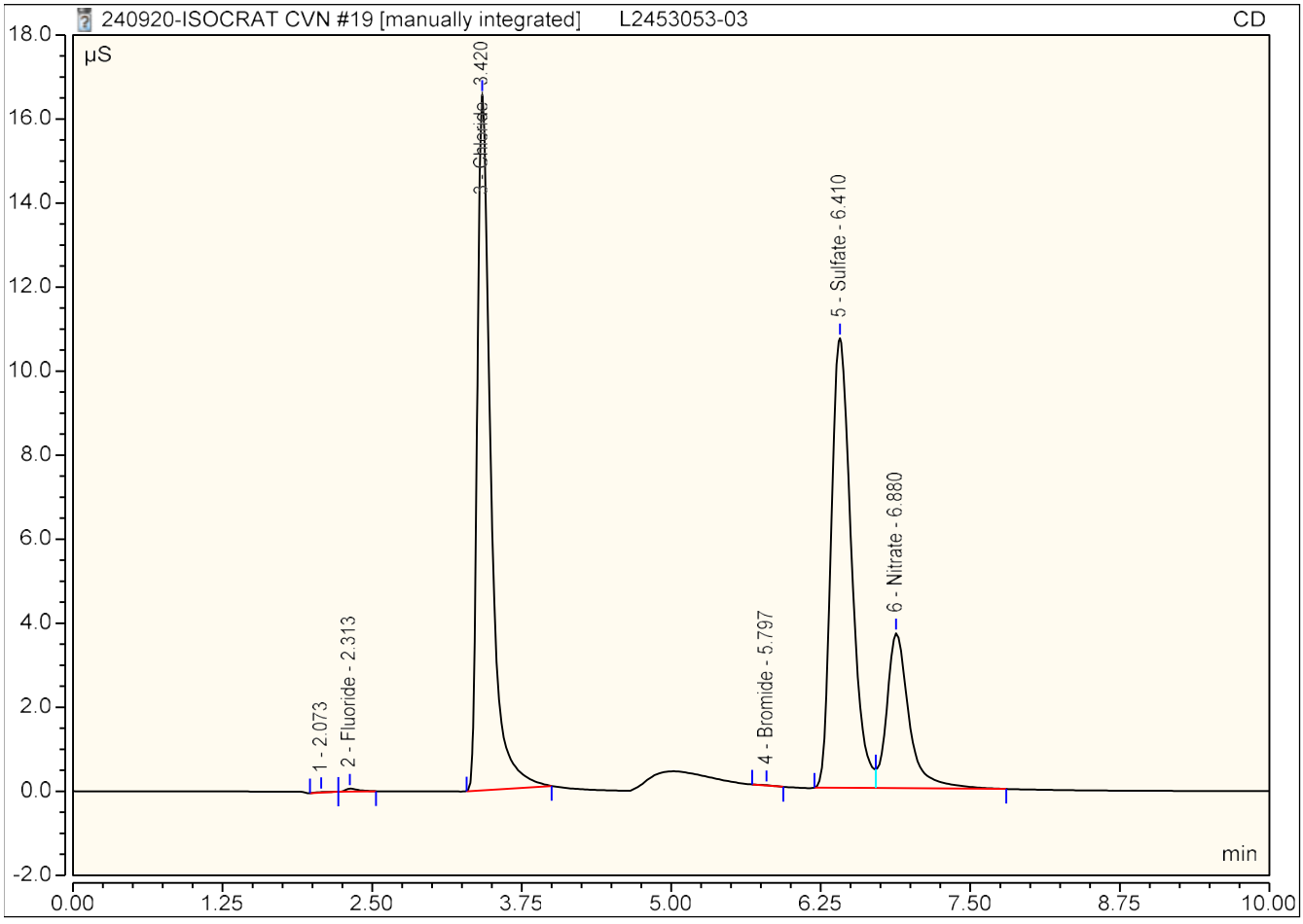
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.075	0.0618
3	3.42	**Chloride**	BMB*	3.759	27.867	9.3844
4	5.77	**Bromide**	BMB	0.004	0.029	0.0668
5	6.35	**Sulfate**	BM *	5.081	23.073	17.8456
6	6.87	**Nitrate**	MB*	1.347	5.759	1.0809
TOTAL:				10.20	56.80	28.44



Peak Integration Report

Sample Name:	**L2453053-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 11:16**	*Run Time:*	**10.00**

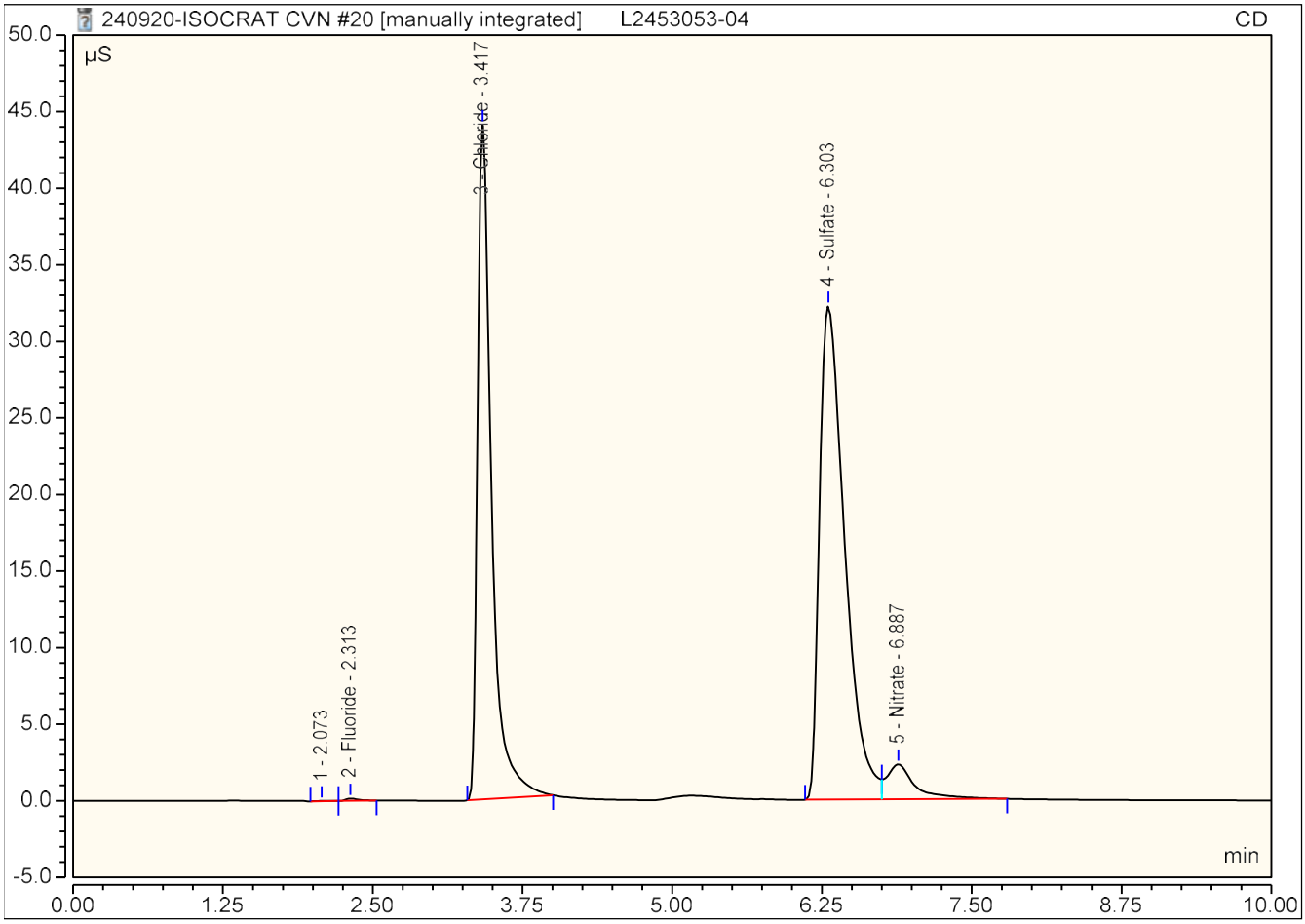
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.069	0.0601
3	3.42	**Chloride**	BMB*	2.175	16.552	5.5166
4	5.80	**Bromide**	BMB	0.001	0.011	0.0437
5	6.41	**Sulfate**	BM *	2.089	10.699	7.4978
6	6.88	**Nitrate**	MB*	0.795	3.691	0.6480
TOTAL:				5.07	31.02	13.77



Peak Integration Report

Sample Name:	**L2453053-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 11:28**	*Run Time:*	**10.00**

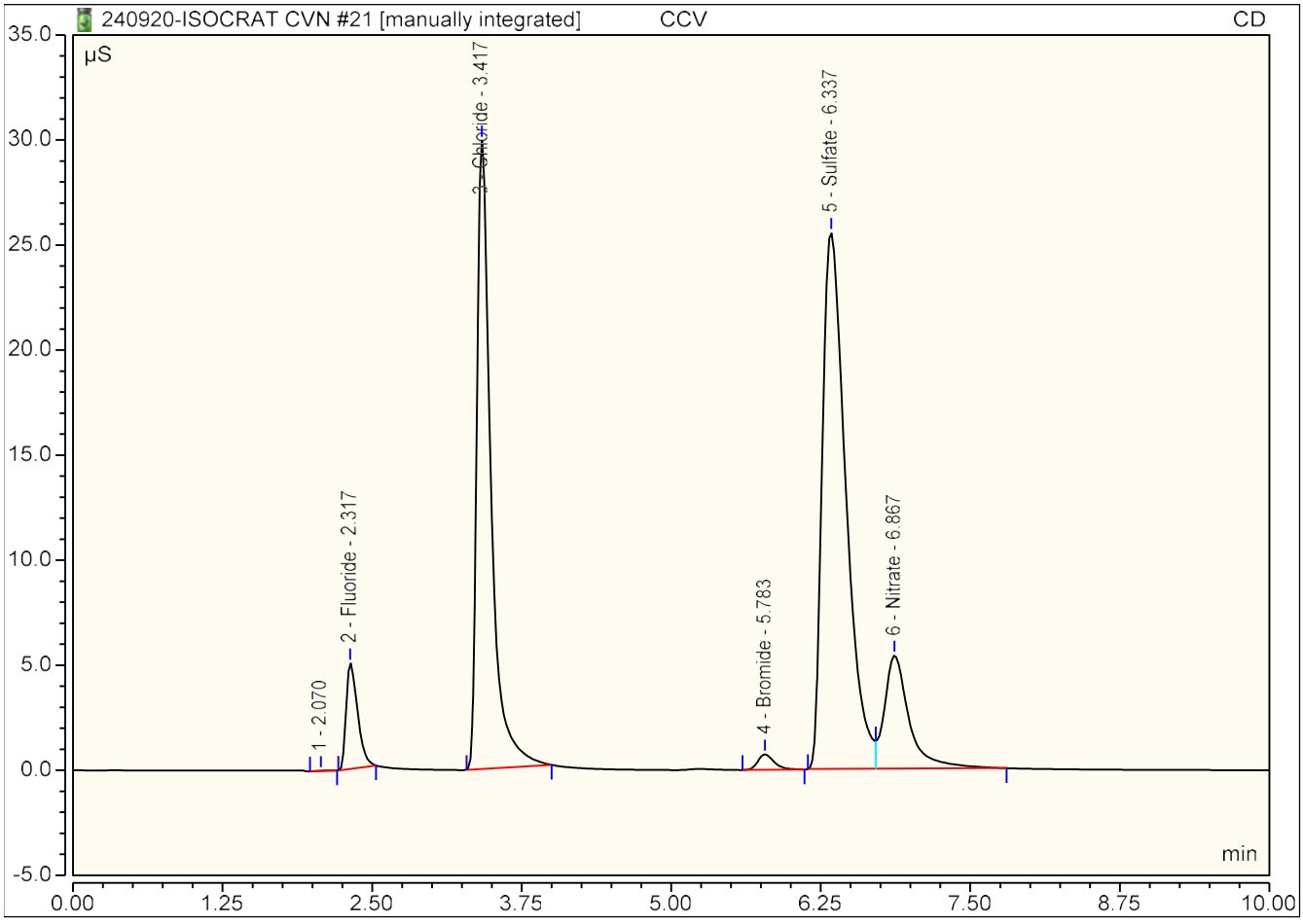
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.017	0.145	0.0752
3	3.42	**Chloride**	BMB*	5.985	44.056	14.8191
4	6.30	**Sulfate**	BM *	7.869	32.217	27.4834
5	6.89	**Nitrate**	MB*	0.629	2.293	0.5180
TOTAL:				14.50	78.71	42.90



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 11:40**	*Run Time:*	**10.00**

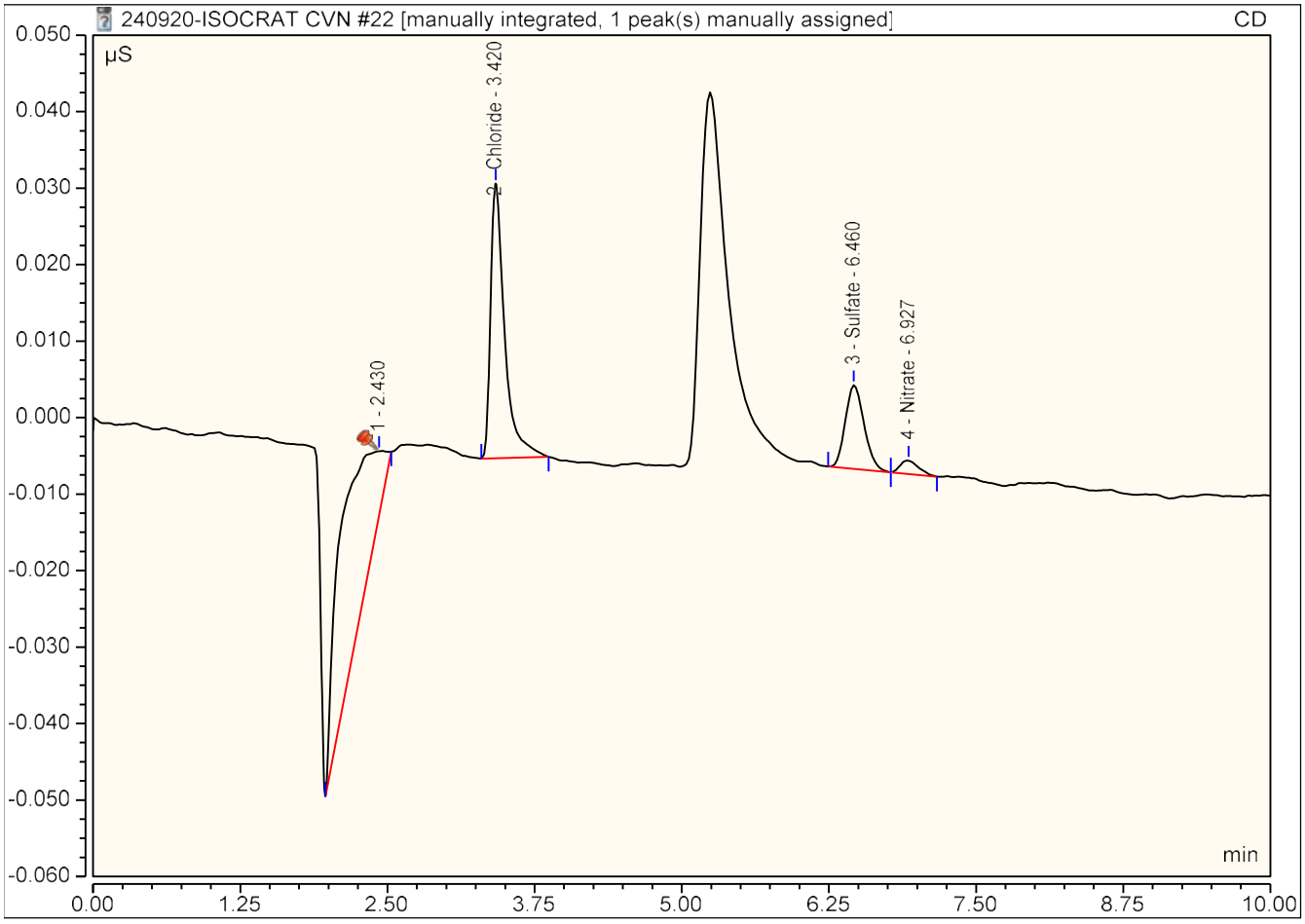
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.555	5.026	1.0575
3	3.42	**Chloride**	BMB*	4.081	29.914	10.1694
4	5.78	**Bromide**	BMB	0.117	0.738	1.0038
5	6.34	**Sulfate**	BM *	5.825	25.522	20.4161
6	6.87	**Nitrate**	MB*	1.294	5.393	1.0398
TOTAL:				11.87	66.59	33.69



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 11:52**	*Run Time:*	**10.00**

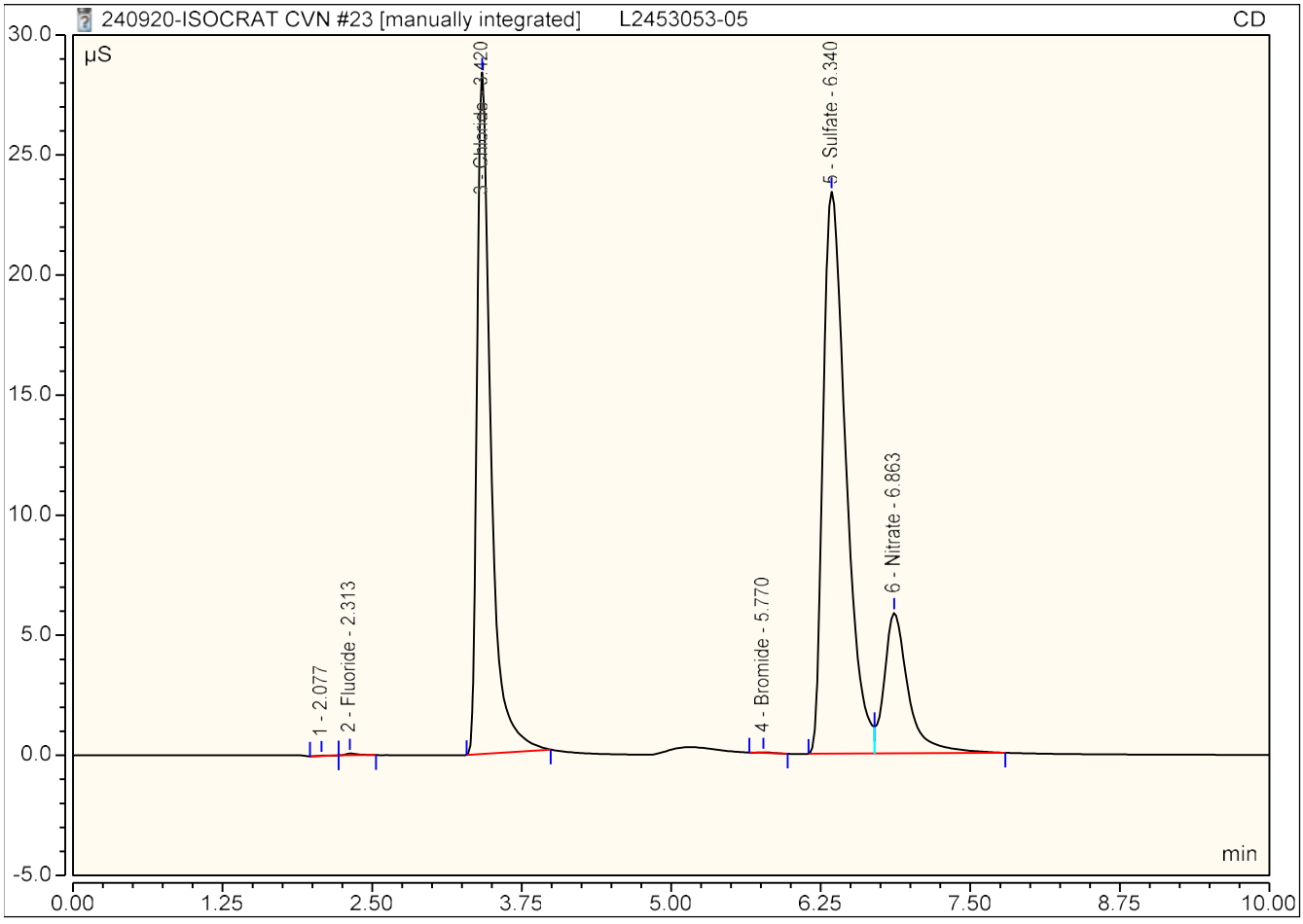
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.005	0.036	0.2177
3	6.46	**Sulfate**	BM *	0.002	0.011	0.2835
4	6.93	**Nitrate**	MB*	0.000	0.002	0.0255
TOTAL:				0.01	0.05	0.53



Peak Integration Report

Sample Name:	**L2453053-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 12:04**	*Run Time:*	**10.00**

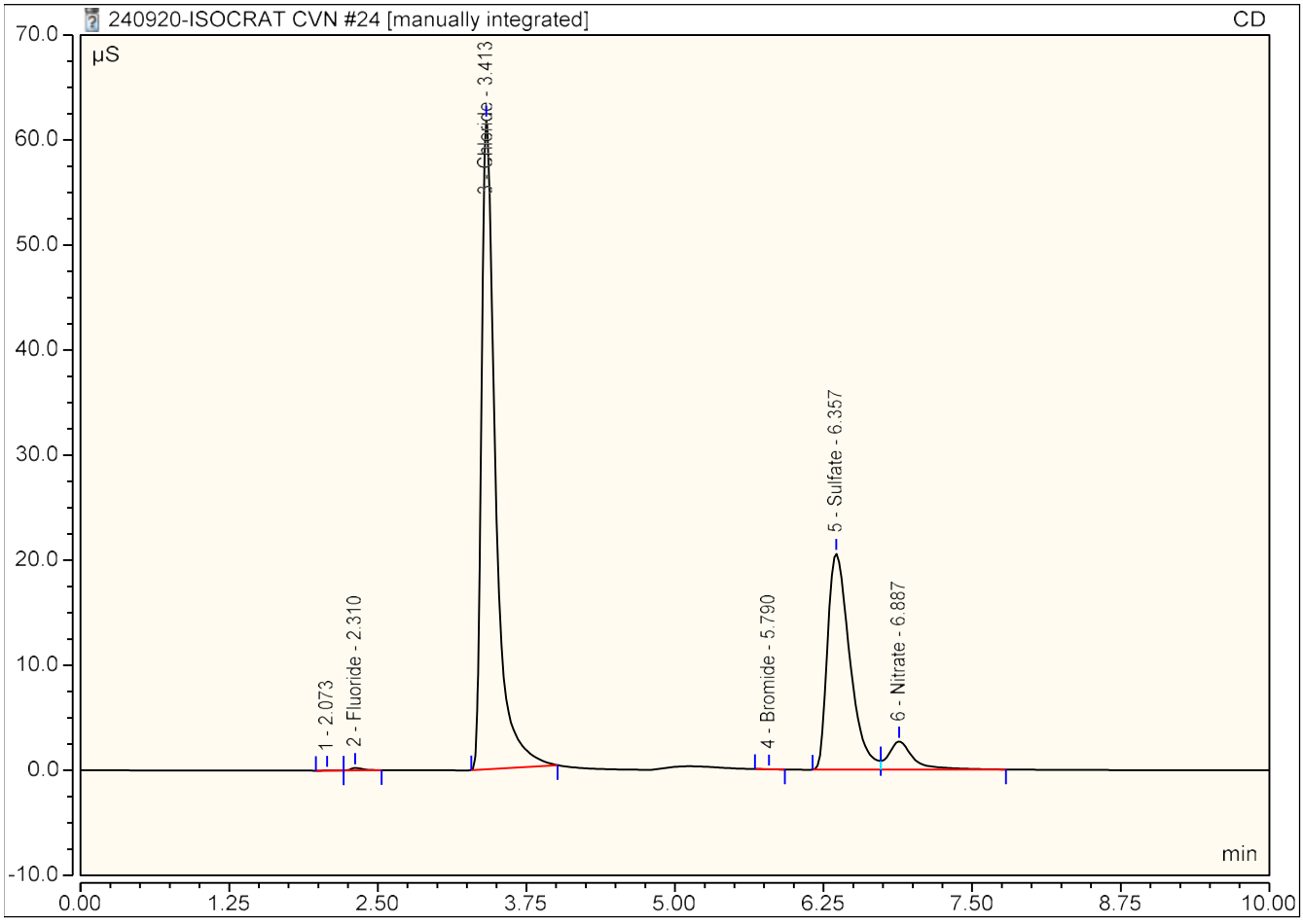
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.076	0.0617
3	3.42	**Chloride**	BMB*	3.811	28.378	9.5096
4	5.77	**Bromide**	BMB	0.004	0.029	0.0664
5	6.34	**Sulfate**	BM *	5.158	23.386	18.1098
6	6.86	**Nitrate**	MB*	1.364	5.849	1.0947
TOTAL:				10.35	57.72	28.84



Peak Integration Report

Sample Name:	**L2453342-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 12:16**	*Run Time:*	**10.00**

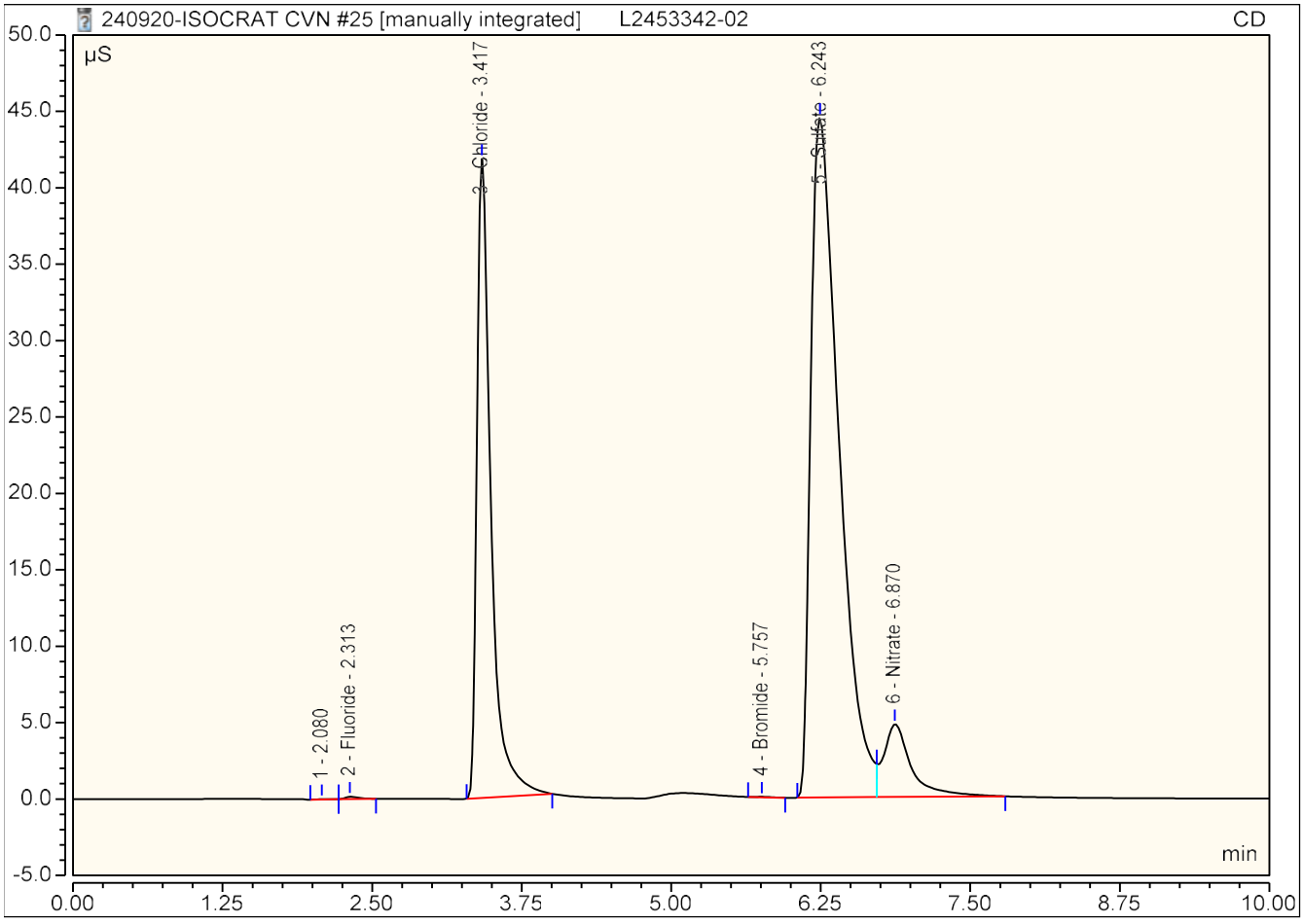
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.027	0.236	0.0933
3	3.41	**Chloride**	BMB*	8.553	61.759	21.0882
4	5.79	**Bromide**	BMB	0.001	0.011	0.0441
5	6.36	**Sulfate**	BM *	4.460	20.568	15.6990
6	6.89	**Nitrate**	MB*	0.644	2.684	0.5300
TOTAL:				13.69	85.26	37.45



Peak Integration Report

Sample Name:	**L2453342-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 12:28**	*Run Time:*	**10.00**

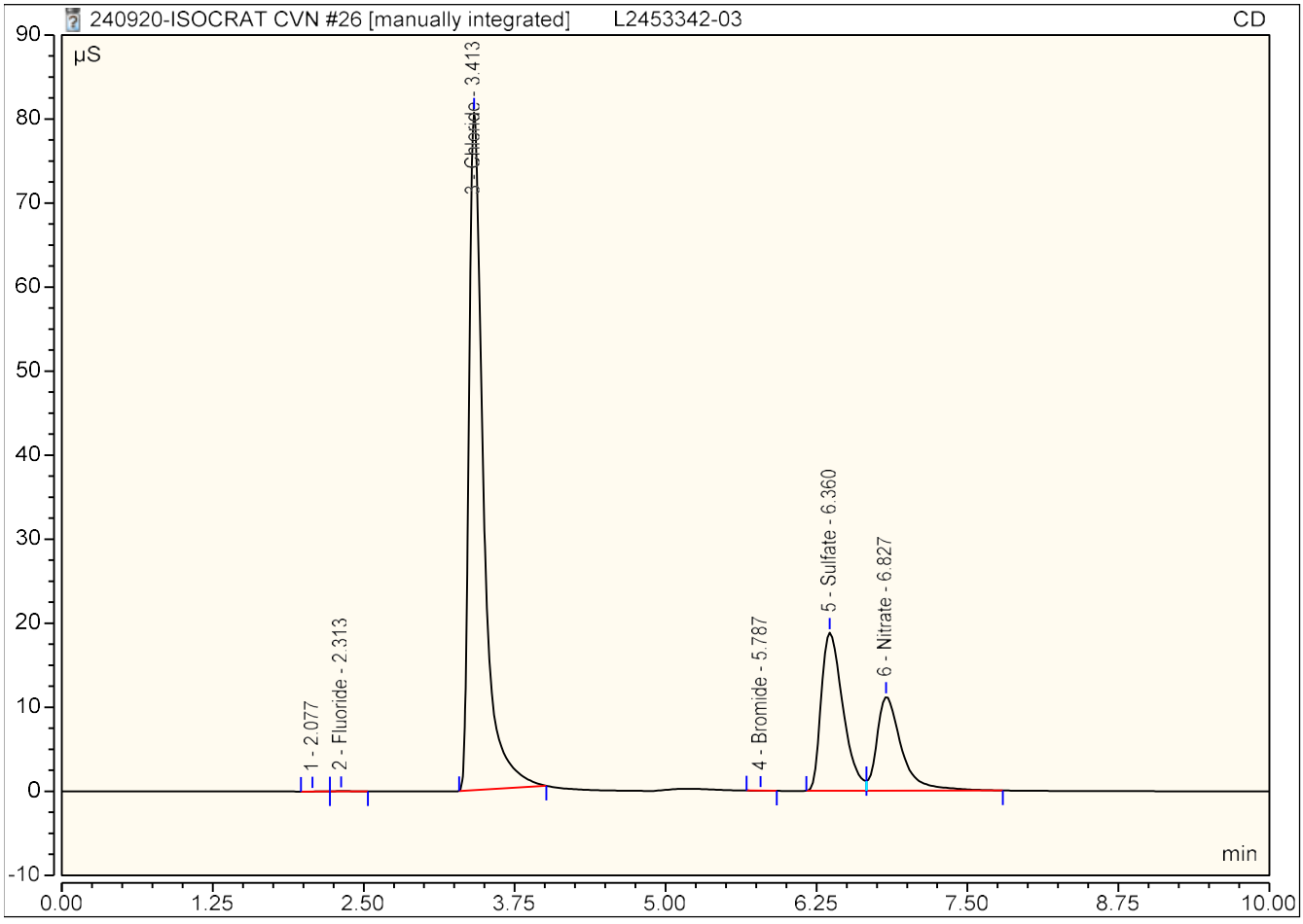
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.018	0.150	0.0774
3	3.42	**Chloride**	BMB*	5.701	41.819	14.1236
4	5.76	**Bromide**	BMB	0.004	0.027	0.0651
5	6.24	**Sulfate**	BM *	12.154	44.473	42.2995
6	6.87	**Nitrate**	MB*	1.284	4.758	1.0316
TOTAL:				19.16	91.23	57.60



Peak Integration Report

Sample Name:	**L2453342-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 12:41**	*Run Time:*	**10.00**

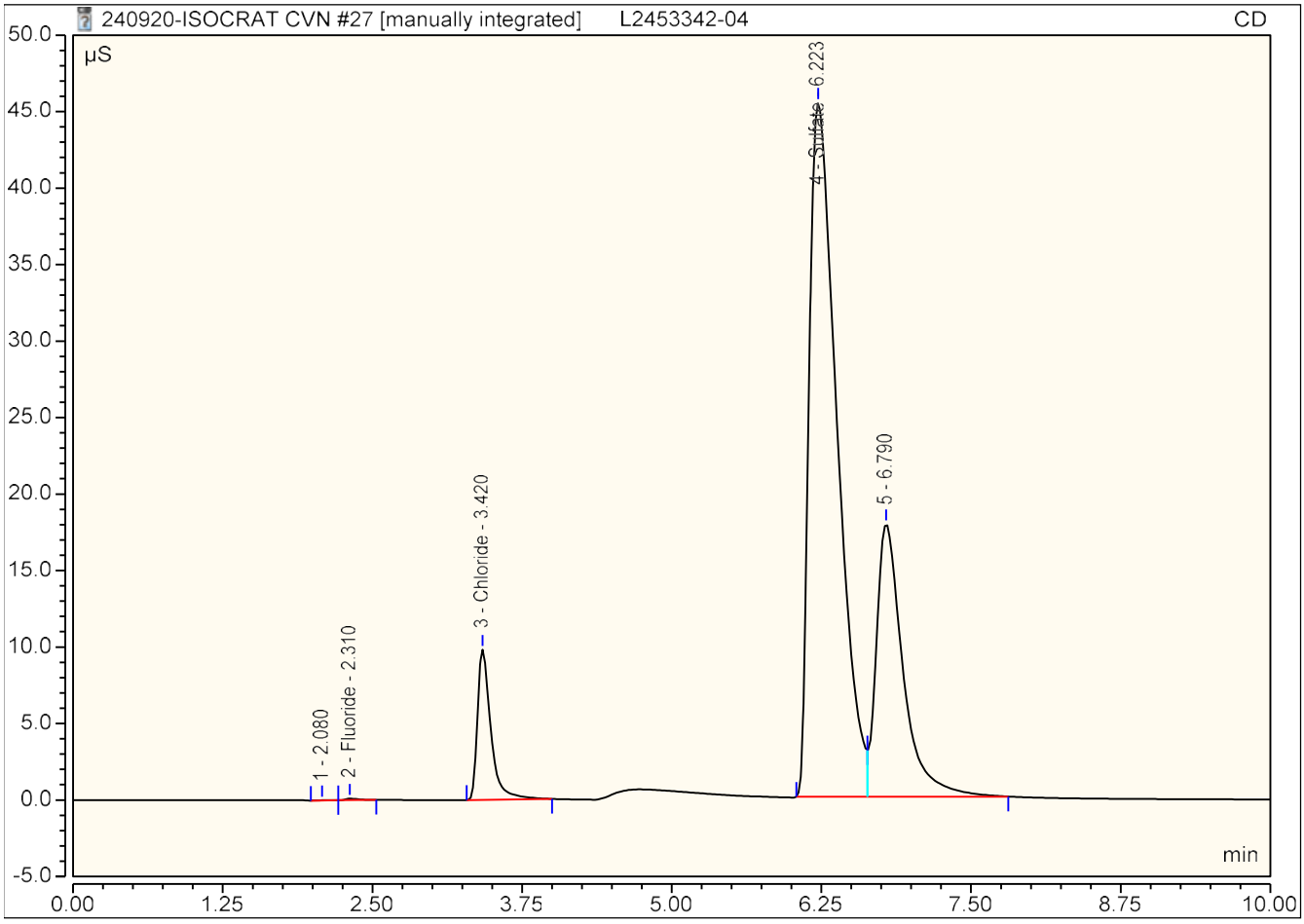
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.007	0.053	0.0567
3	3.41	**Chloride**	BMB*	11.227	80.607	27.6154
4	5.79	**Bromide**	BMB	0.001	0.009	0.0416
5	6.36	**Sulfate**	BM *	3.929	18.799	13.8598
6	6.83	**Nitrate**	MB*	2.623	11.163	2.0814
TOTAL:				17.79	110.63	43.65



Peak Integration Report

Sample Name:	**L2453342-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 12:53**	*Run Time:*	**10.00**

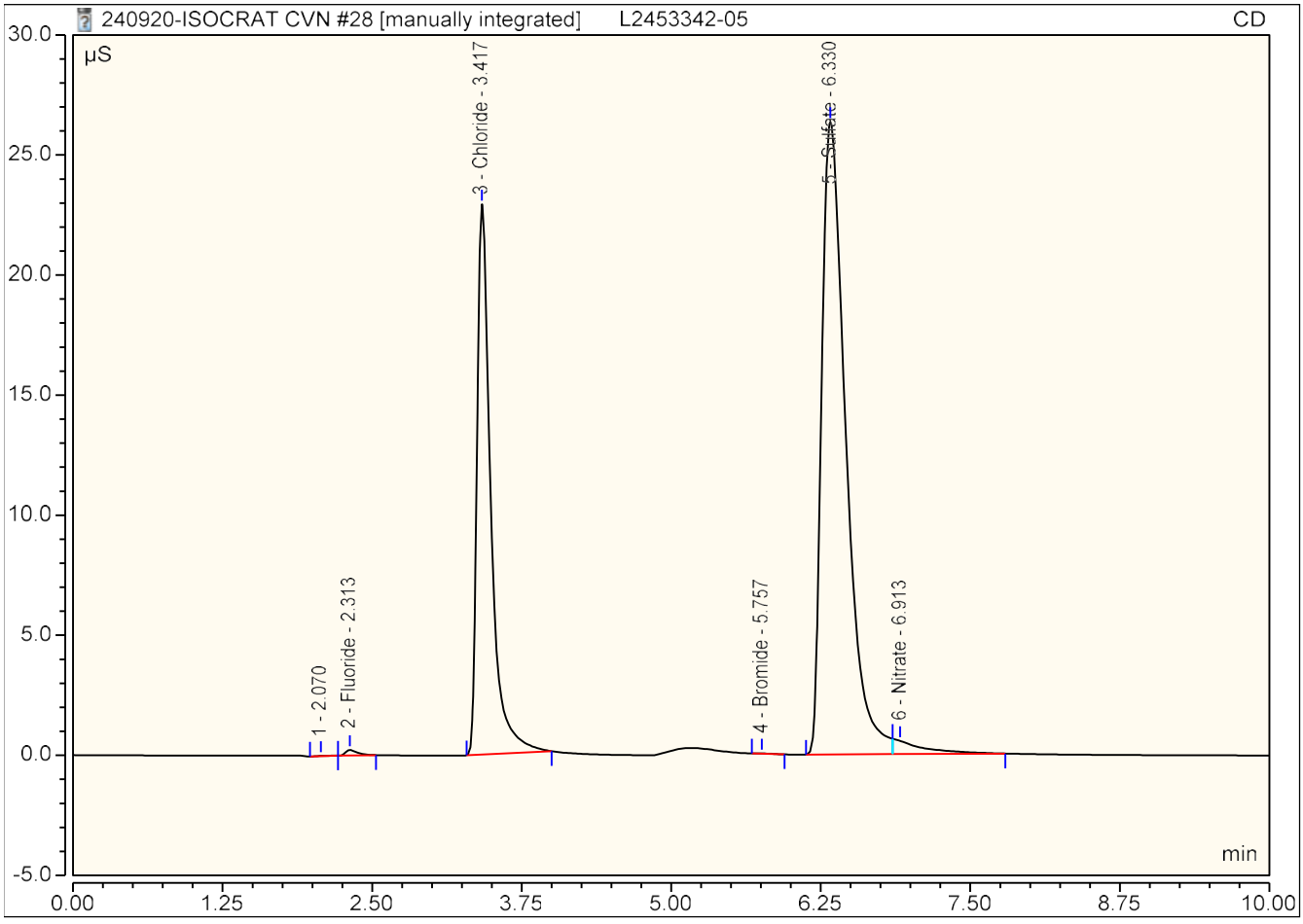
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.097	0.0659
3	3.42	**Chloride**	BMB*	1.269	9.822	3.3049
4	6.22	**Sulfate**	BM *	12.230	45.379	42.5626
TOTAL:				13.51	55.30	45.93



Peak Integration Report

Sample Name:	**L2453342-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 13:05**	*Run Time:*	**10.00**

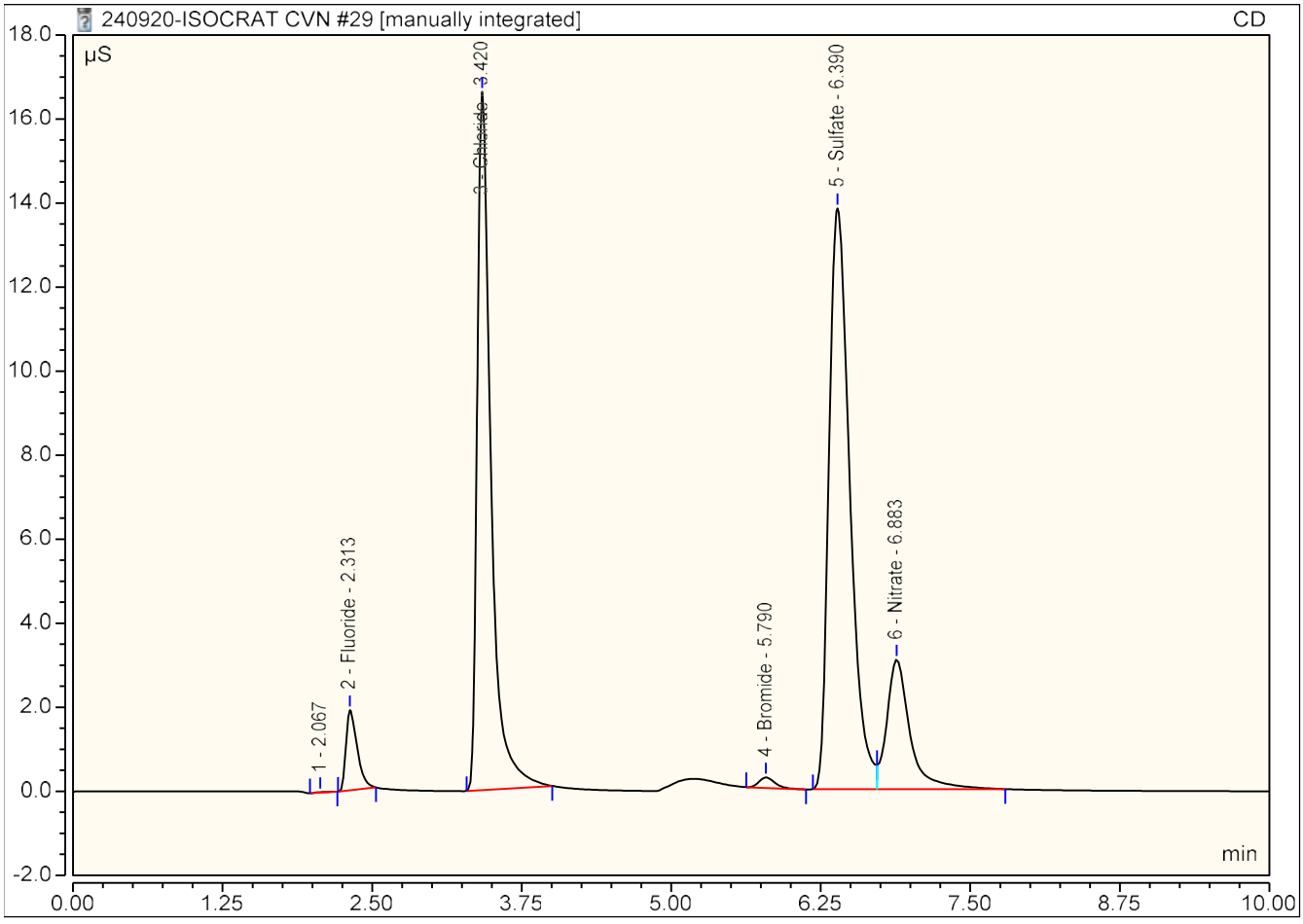
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.026	0.233	0.0927
3	3.42	**Chloride**	BMB*	3.059	22.918	7.6745
4	5.76	**Bromide**	BMB	0.002	0.013	0.0485
5	6.33	**Sulfate**	BM *	6.131	26.345	21.4740
6	6.91	**Nitrate**	MB*	0.174	0.552	0.1612
TOTAL:				9.39	50.06	29.45



Peak Integration Report

Sample Name:	**L2453342-06 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 13:17**	*Run Time:*	**10.00**

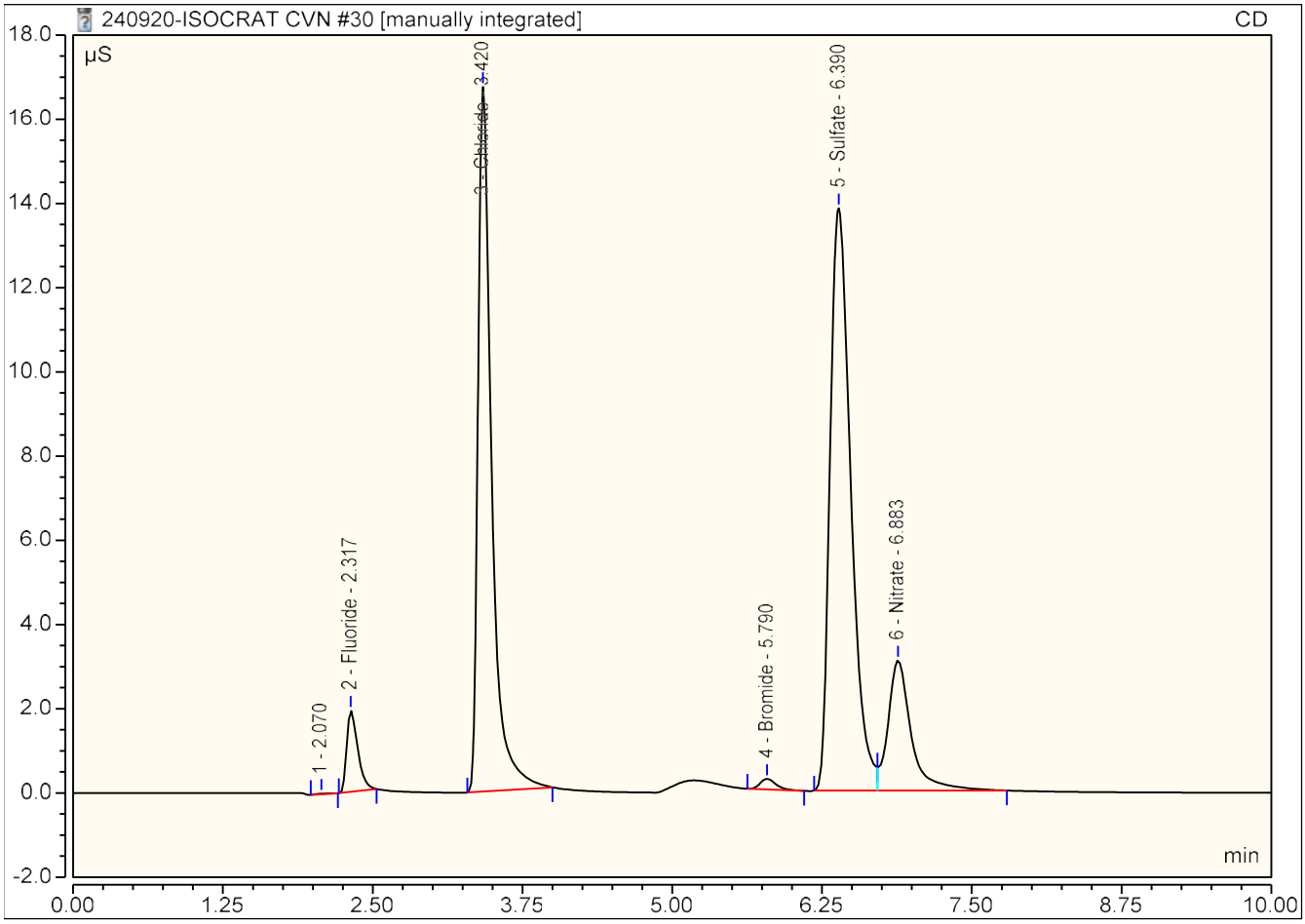
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.206	1.911	0.4198
3	3.42	**Chloride**	BMB*	2.207	16.618	5.5950
4	5.79	**Bromide**	BMB	0.039	0.250	0.3560
5	6.39	**Sulfate**	BM *	2.784	13.821	9.9030
6	6.88	**Nitrate**	MB*	0.692	3.084	0.5673
TOTAL:				5.93	35.68	16.84



Peak Integration Report

Sample Name:	**L2453342-06 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 13:29**	*Run Time:*	**10.00**

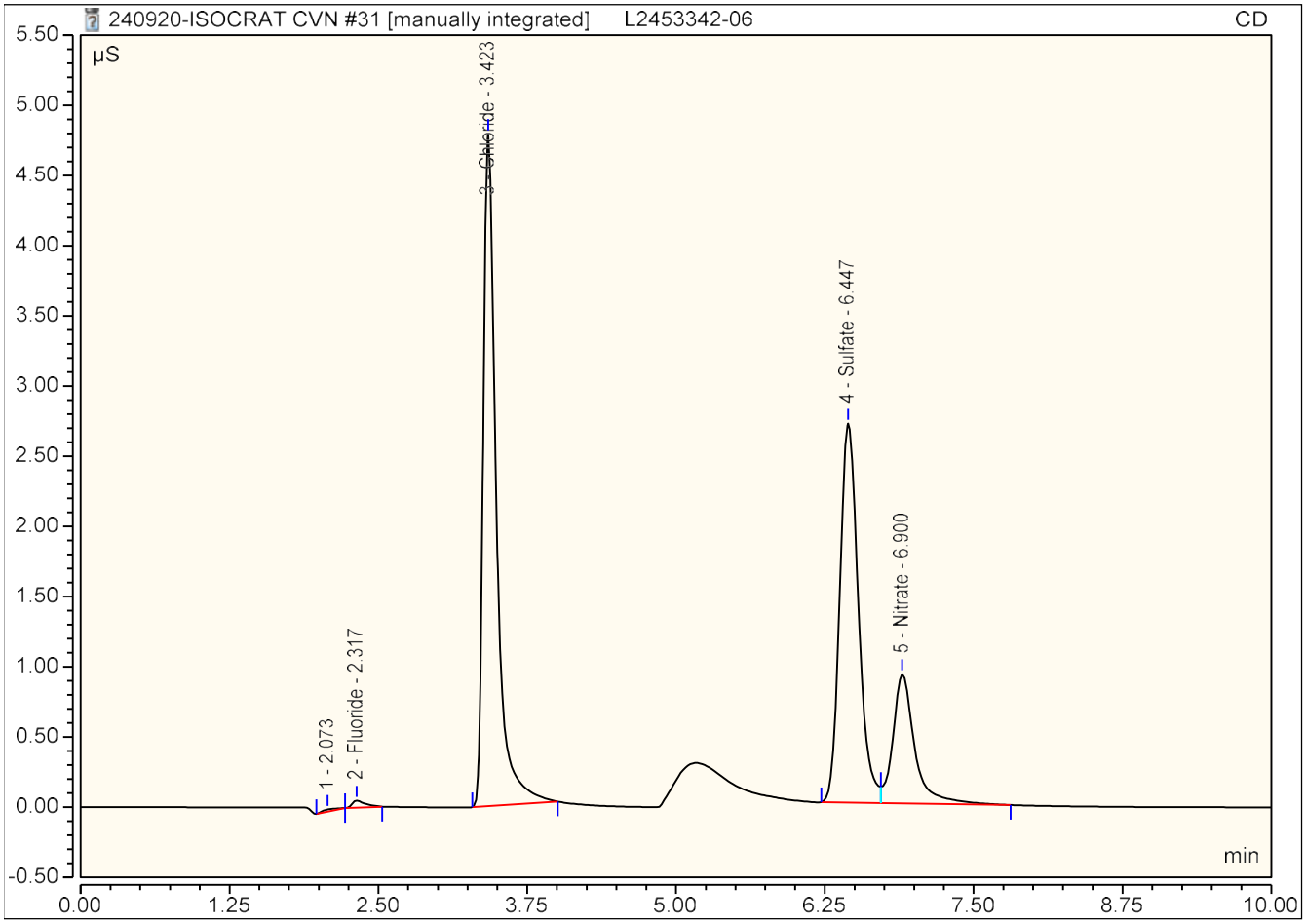
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.206	1.928	0.4199
3	3.42	**Chloride**	BMB*	2.204	16.736	5.5869
4	5.79	**Bromide**	BMB	0.039	0.251	0.3547
5	6.39	**Sulfate**	BM *	2.772	13.830	9.8624
6	6.88	**Nitrate**	MB*	0.692	3.091	0.5676
TOTAL:				5.91	35.84	16.79



Peak Integration Report

Sample Name:	**L2453342-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 13:41**	*Run Time:*	**10.00**

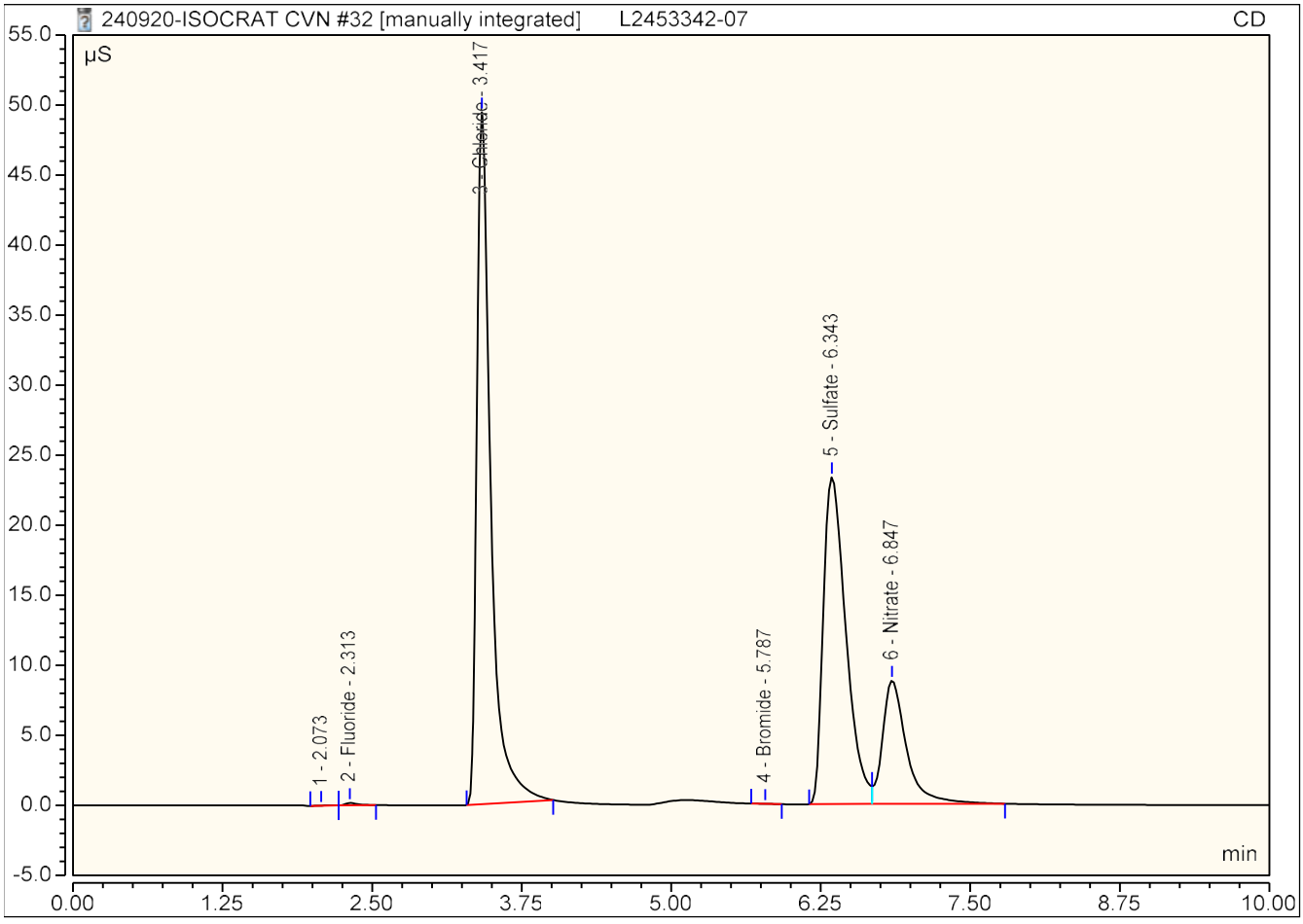
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.051	0.0564
3	3.42	**Chloride**	BMB*	0.610	4.789	1.6945
4	6.45	**Sulfate**	BM *	0.489	2.700	1.9668
5	6.90	**Nitrate**	MB*	0.195	0.922	0.1781
TOTAL:				1.30	8.46	3.90



Peak Integration Report

Sample Name:	**L2453342-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 13:53**	*Run Time:*	**10.00**

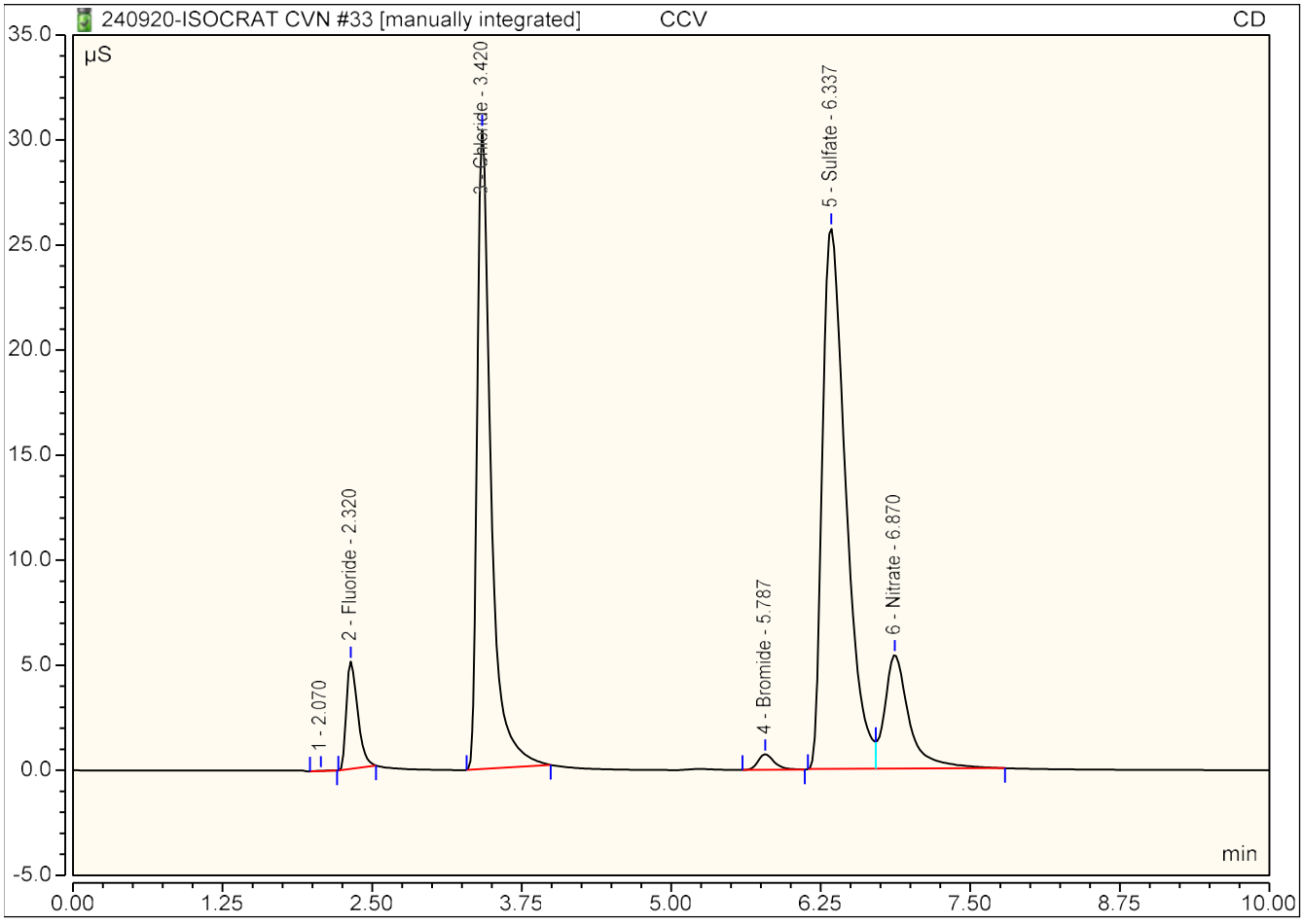
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.020	0.173	0.0814
3	3.42	**Chloride**	BMB*	6.695	49.395	16.5523
4	5.79	**Bromide**	BMB	0.002	0.012	0.0453
5	6.34	**Sulfate**	BM *	5.104	23.339	17.9245
6	6.85	**Nitrate**	MB*	2.050	8.814	1.6323
TOTAL:				13.87	81.73	36.24



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 14:05**	*Run Time:*	**10.00**

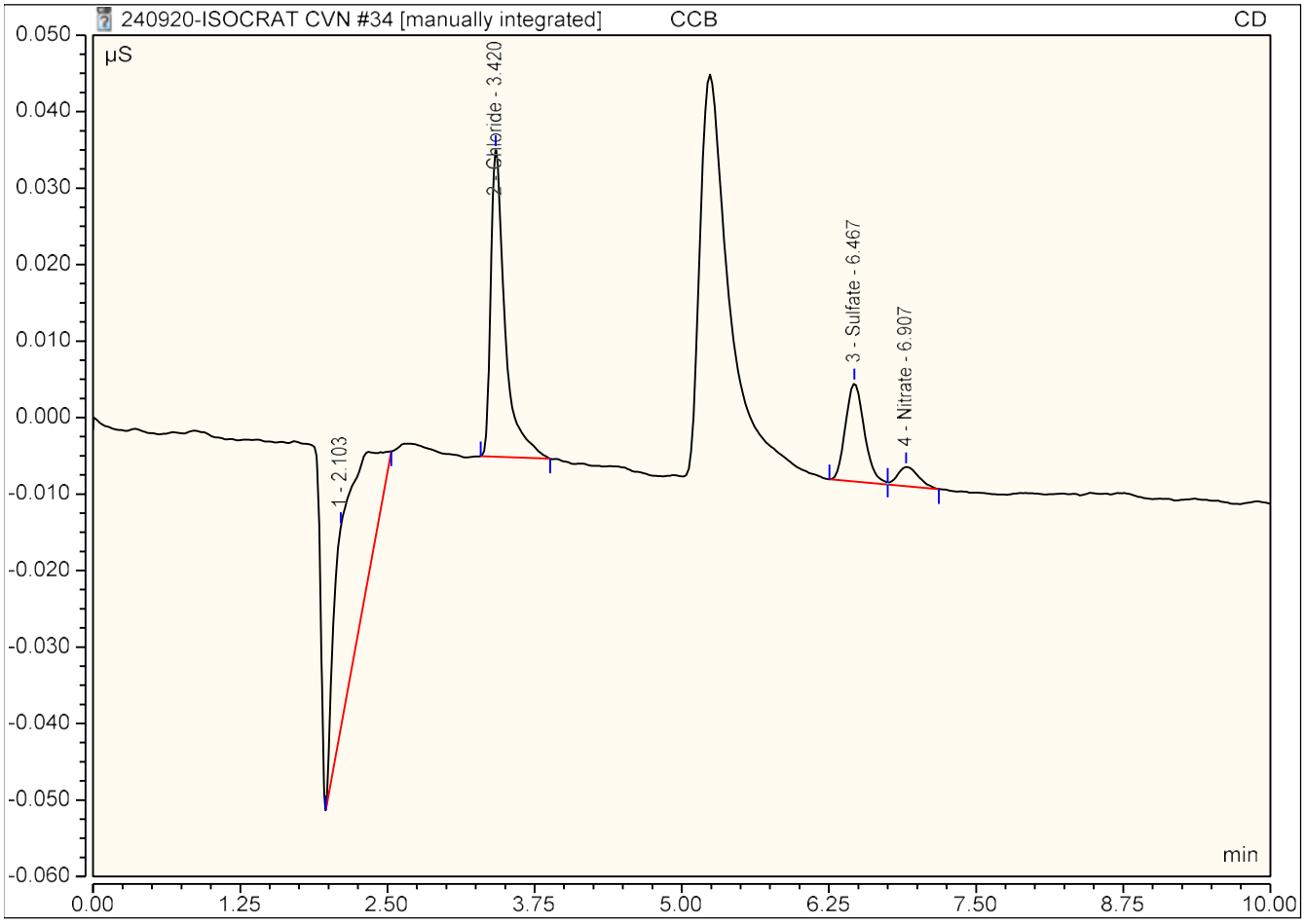
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.557	5.111	1.0597
3	3.42	**Chloride**	BMB*	4.082	30.434	10.1722
4	5.79	**Bromide**	BMB	0.117	0.747	1.0069
5	6.34	**Sulfate**	BM *	5.831	25.742	20.4383
6	6.87	**Nitrate**	MB*	1.290	5.420	1.0362
TOTAL:				11.88	67.45	33.71



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 14:17**	*Run Time:*	**10.00**

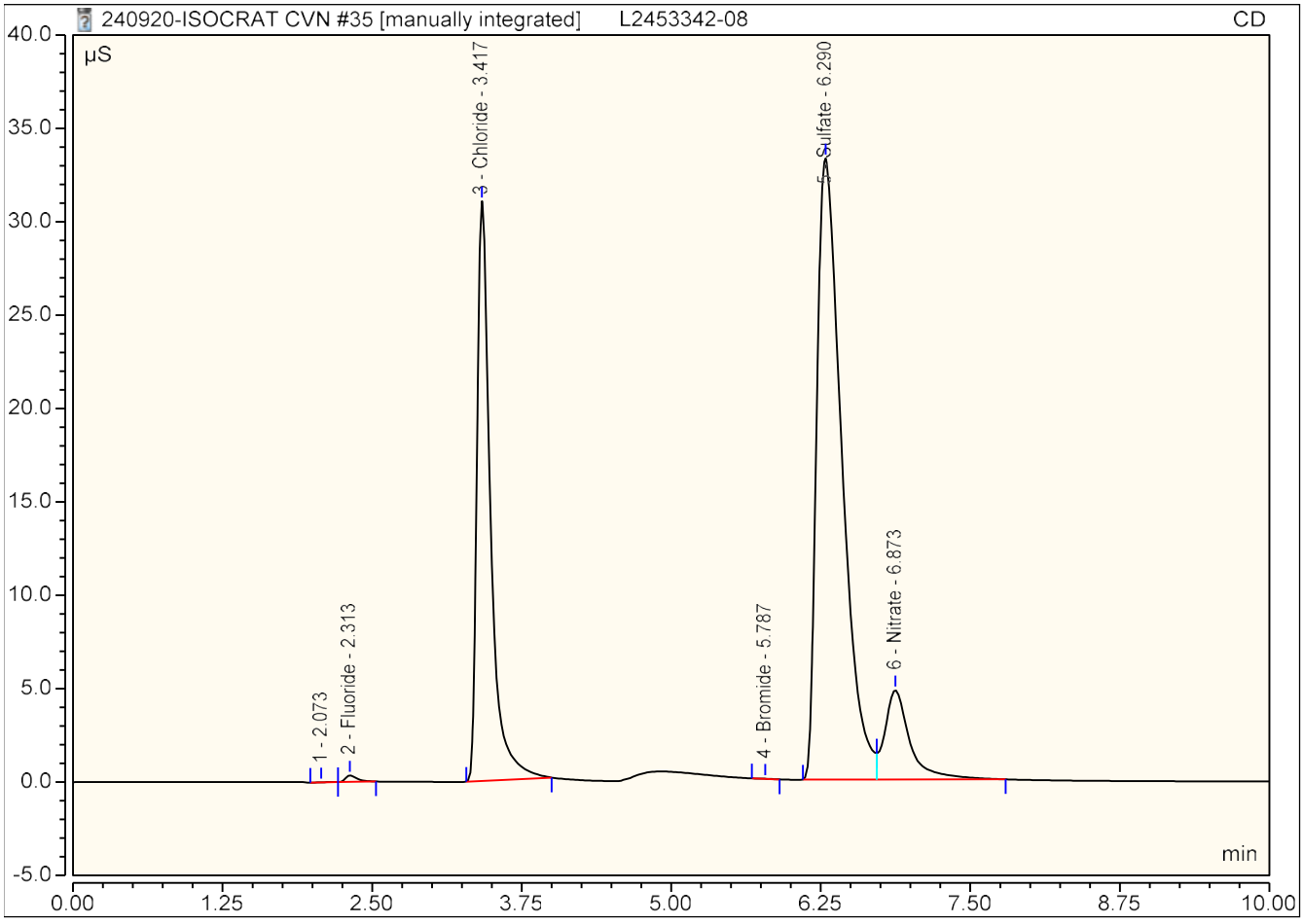
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.006	0.040	0.2193
3	6.47	**Sulfate**	BM *	0.002	0.013	0.2848
4	6.91	**Nitrate**	MB*	0.001	0.003	0.0256
TOTAL:				0.01	0.06	0.53



Peak Integration Report

Sample Name:	**L2453342-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 14:29**	*Run Time:*	**10.00**

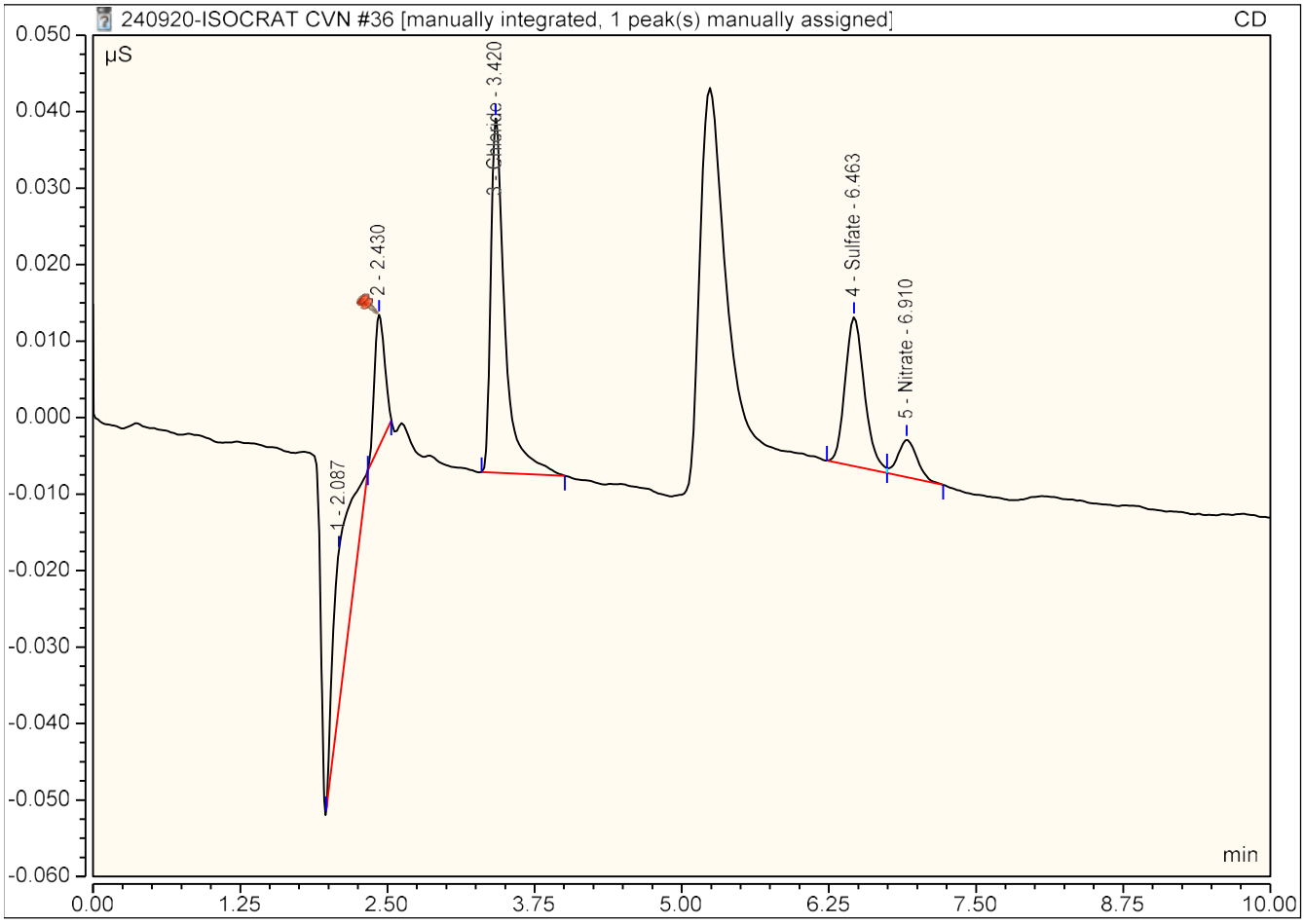
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.038	0.344	0.1145
3	3.42	**Chloride**	BMB*	4.094	31.038	10.2015
4	5.79	**Bromide**	BMB	0.001	0.008	0.0401
5	6.29	**Sulfate**	BM *	8.083	33.261	28.2230
6	6.87	**Nitrate**	MB*	1.164	4.781	0.9376
TOTAL:				13.38	69.43	39.52



Peak Integration Report

Sample Name:	**L2453342-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 14:41**	*Run Time:*	**10.00**

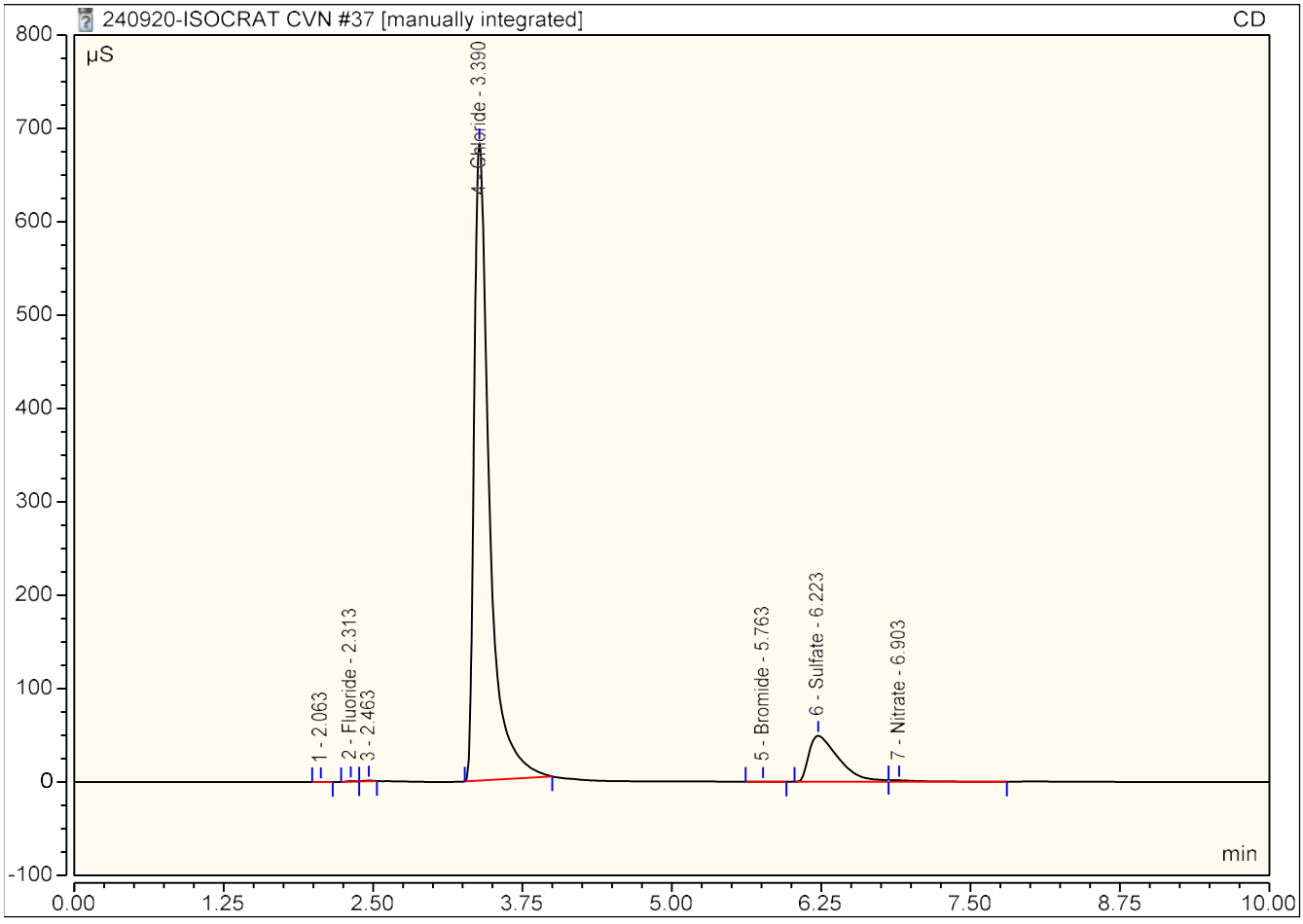
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.006	0.046	0.2214
4	6.46	**Sulfate**	BM *	0.004	0.019	0.2894
5	6.91	**Nitrate**	MB*	0.001	0.005	0.0260
TOTAL:				0.01	0.07	0.54



Peak Integration Report

Sample Name:	**L2453250-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 14:53**	*Run Time:*	**10.00**

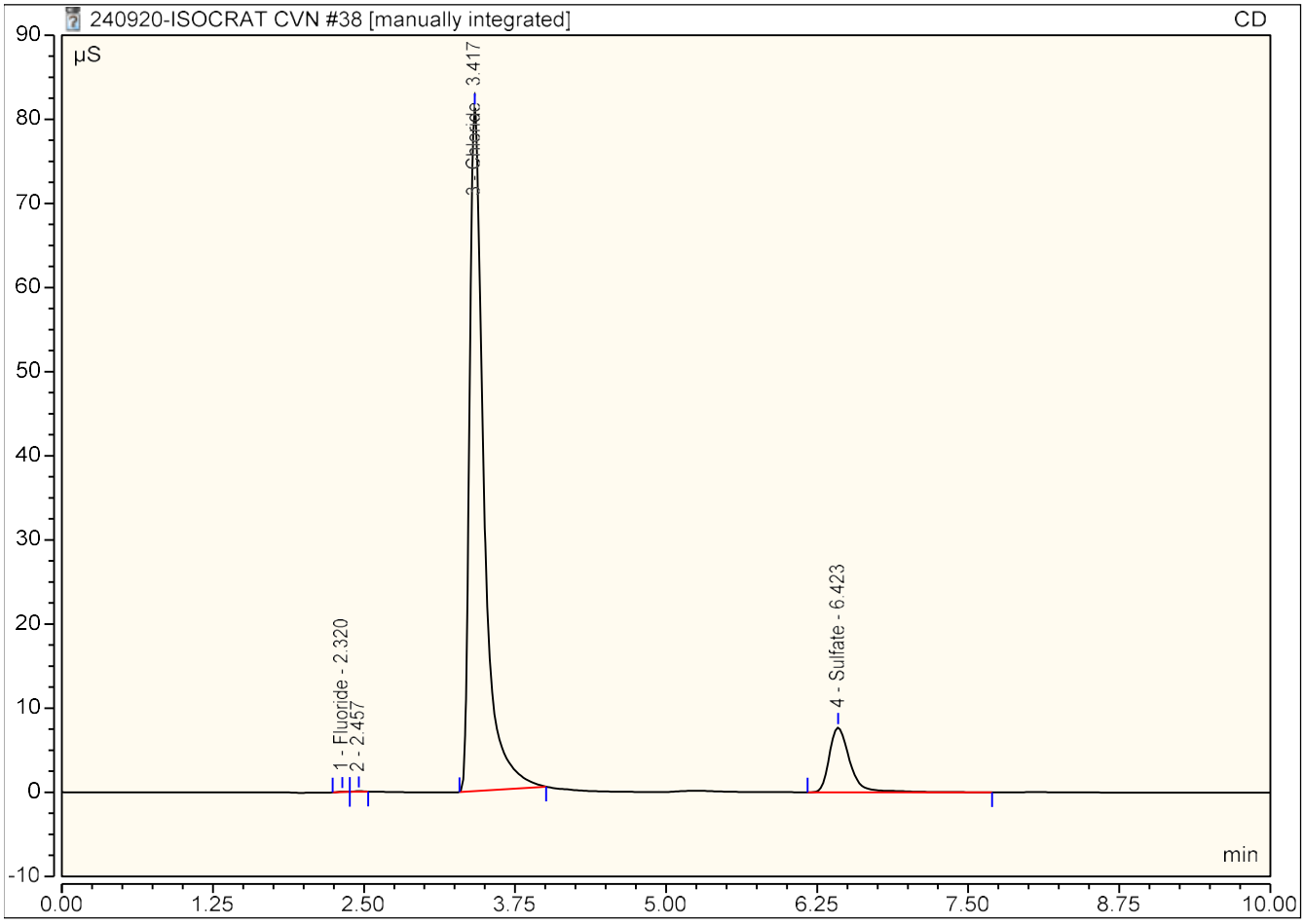
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.049	0.641	0.1337
4	3.39	**Chloride**	BMB*	101.168	682.817	247.2077
5	5.76	**Bromide**	BMB	0.020	0.137	0.1955
6	6.22	**Sulfate**	BM *	14.172	49.271	49.2784
7	6.90	**Nitrate**	MB*	0.472	1.545	0.3949
TOTAL:				115.88	734.41	297.21



Peak Integration Report

Sample Name:	**L2453250-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 15:06**	*Run Time:*	**10.00**

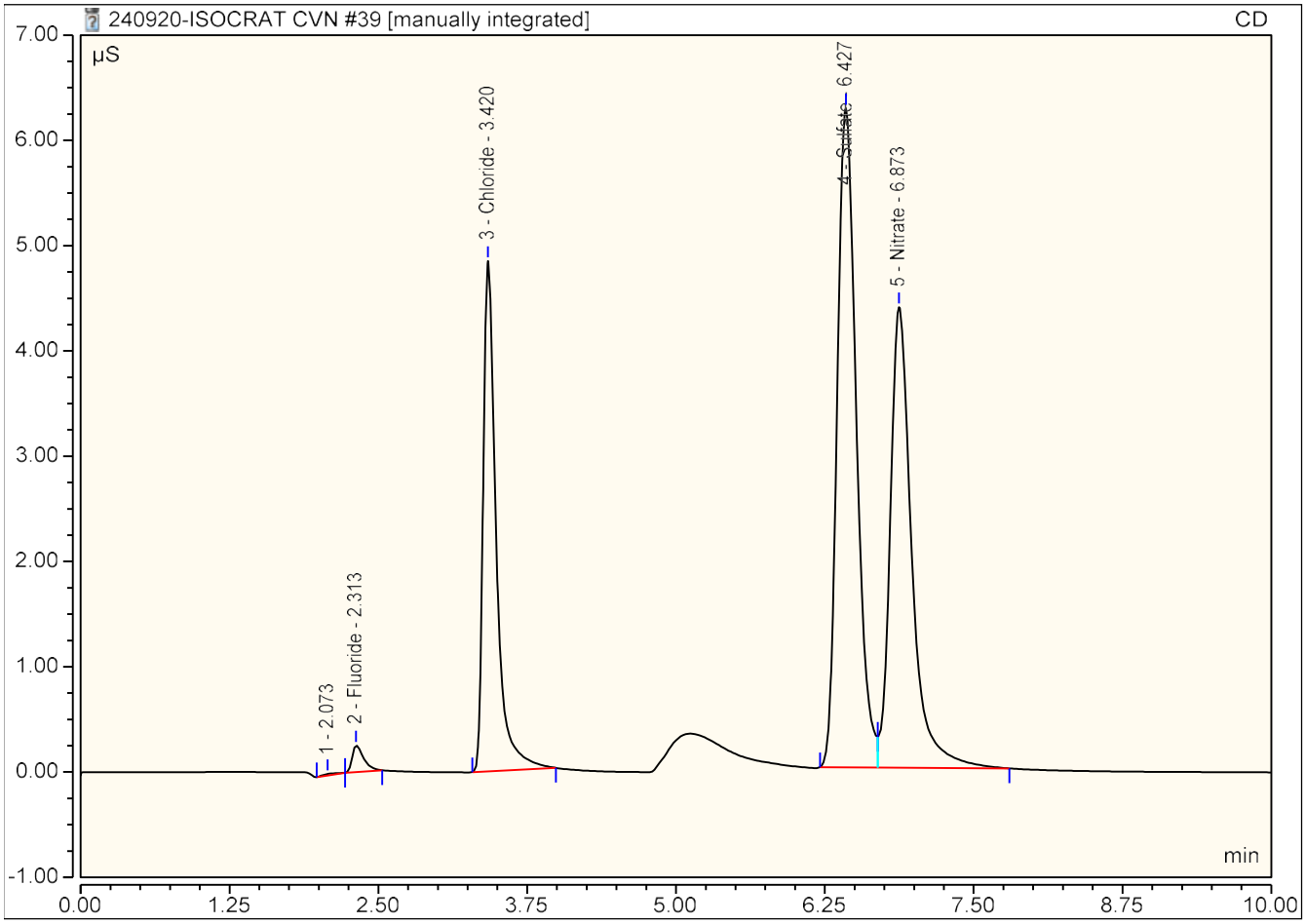
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.004	0.053	0.5188
3	3.42	**Chloride**	BMB*	11.214	81.163	275.8528
4	6.42	**Sulfate**	BMB	1.526	7.678	55.5150
TOTAL:				12.74	88.89	331.89



Peak Integration Report

Sample Name:	**L2453058-01 CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 15:18**	*Run Time:*	**10.00**

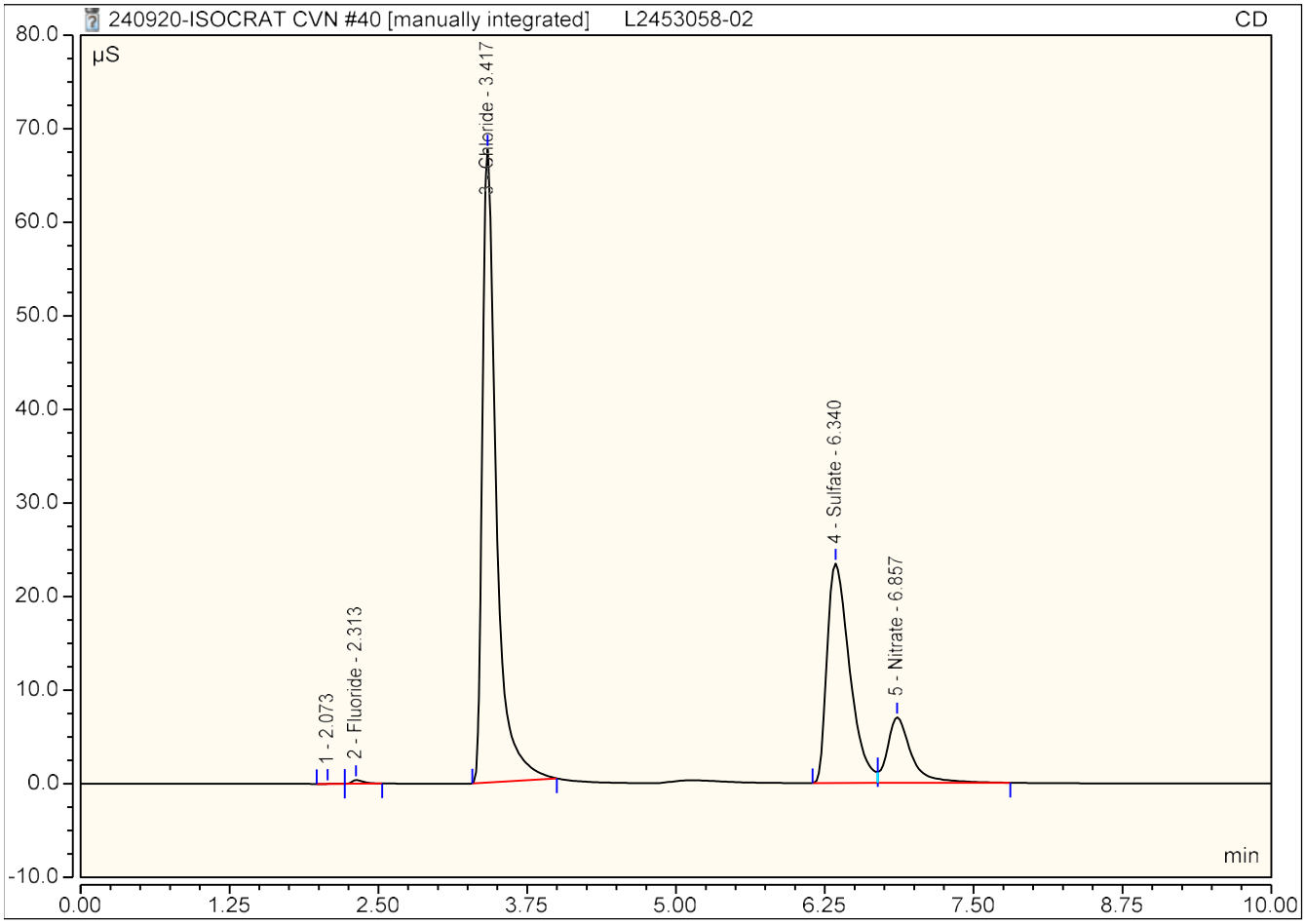
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.028	0.253	0.0961
3	3.42	**Chloride**	BMB*	0.616	4.848	1.7085
4	6.43	**Sulfate**	BM *	1.165	6.259	4.3049
5	6.87	**Nitrate**	MB*	0.919	4.373	0.7453
TOTAL:				2.73	15.73	6.85



Peak Integration Report

Sample Name:	**L2453058-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 15:30**	*Run Time:*	**10.00**

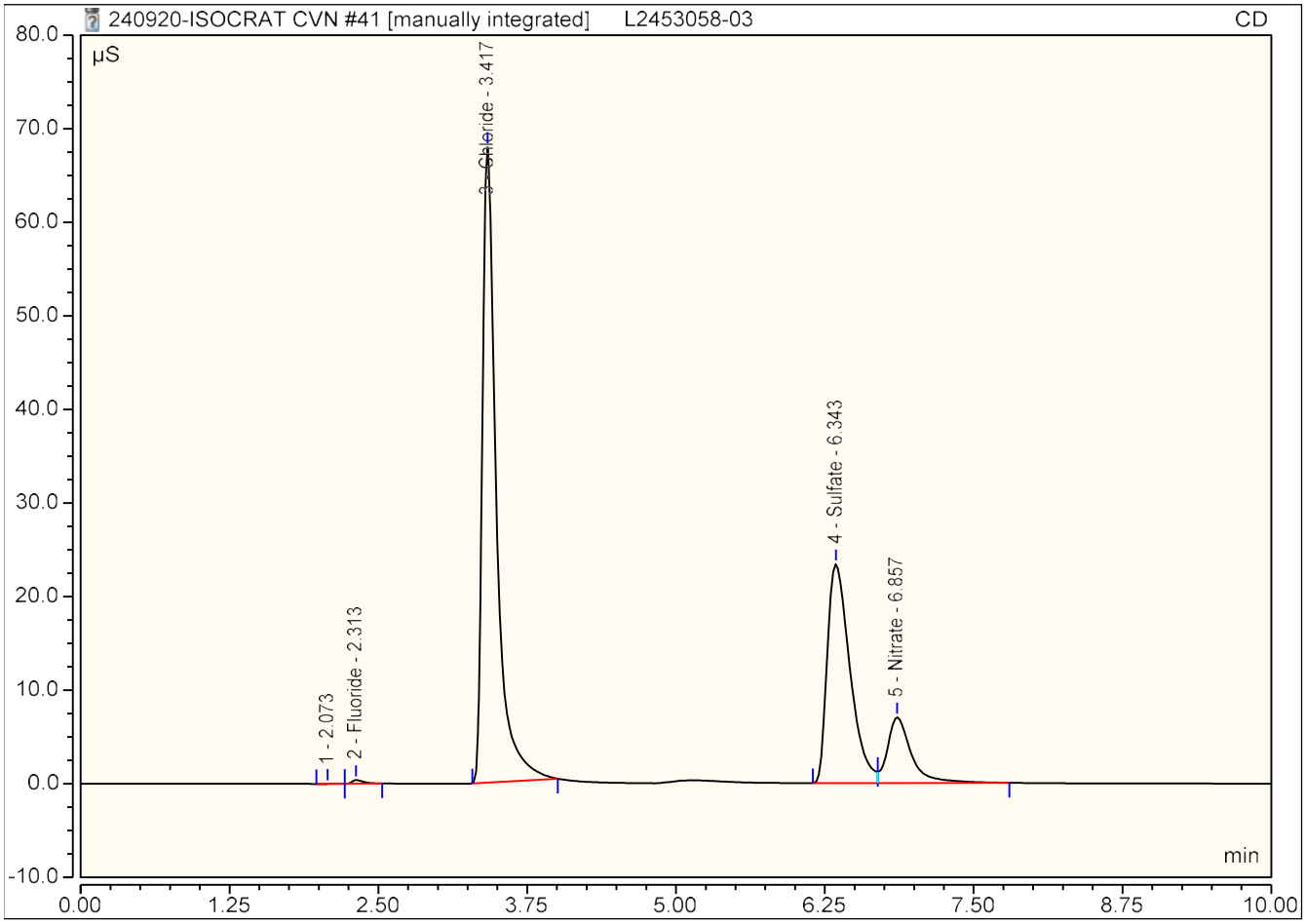
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.043	0.398	0.1235
3	3.42	**Chloride**	BMB*	9.246	67.646	22.7801
4	6.34	**Sulfate**	BM *	5.155	23.444	18.0996
5	6.86	**Nitrate**	MB*	1.624	7.016	1.2980
TOTAL:				16.07	98.50	42.30



Peak Integration Report

Sample Name:	**L2453058-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 15:42**	*Run Time:*	**10.00**

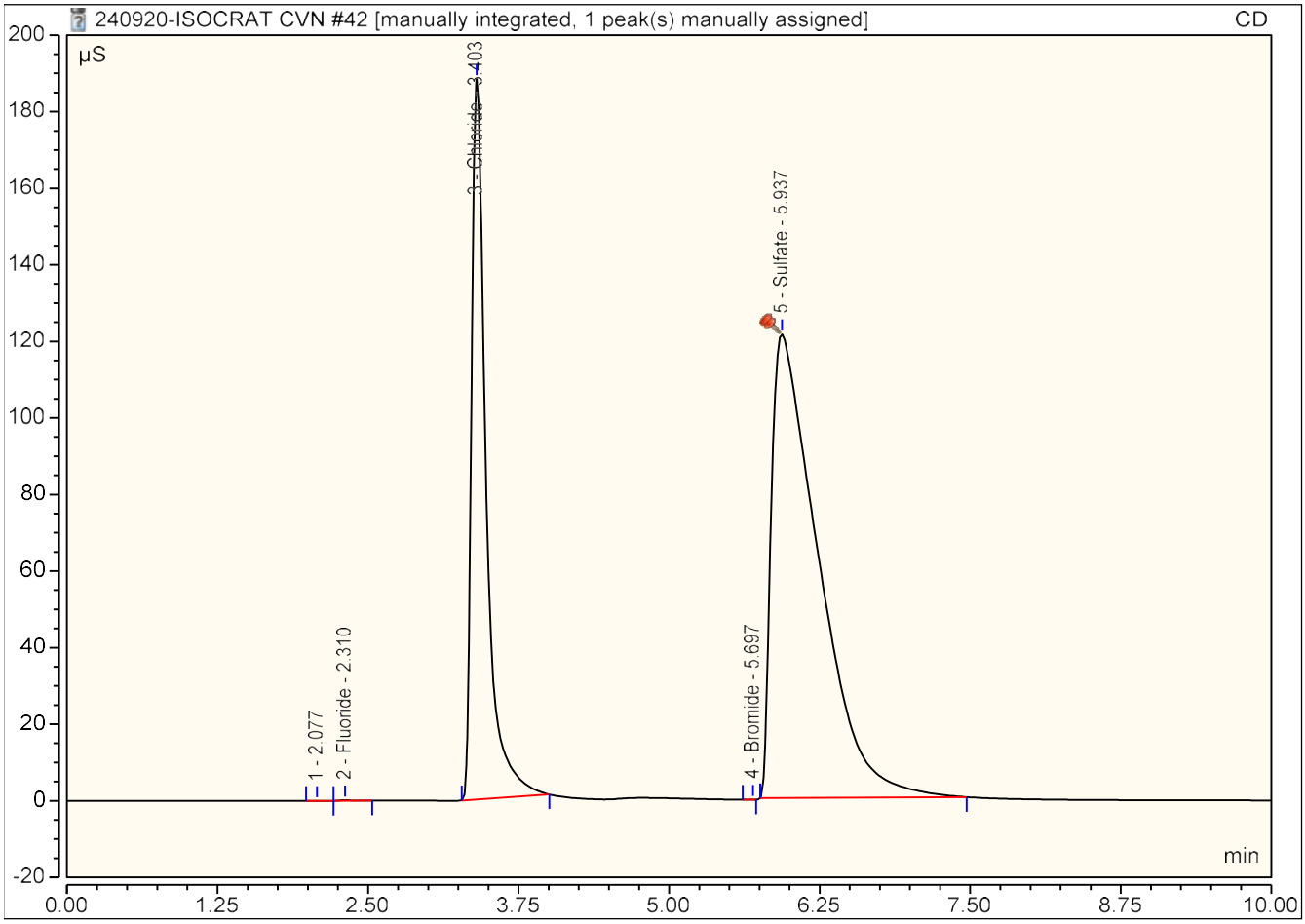
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.043	0.398	0.1237
3	3.42	**Chloride**	BMB*	9.265	67.914	22.8251
4	6.34	**Sulfate**	BM *	5.159	23.400	18.1147
5	6.86	**Nitrate**	MB*	1.621	7.010	1.2960
TOTAL:				16.09	98.72	42.36



Peak Integration Report

Sample Name:	**XL2453985-01 CL SO4 NO3**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 15:54**	*Run Time:*	**10.00**

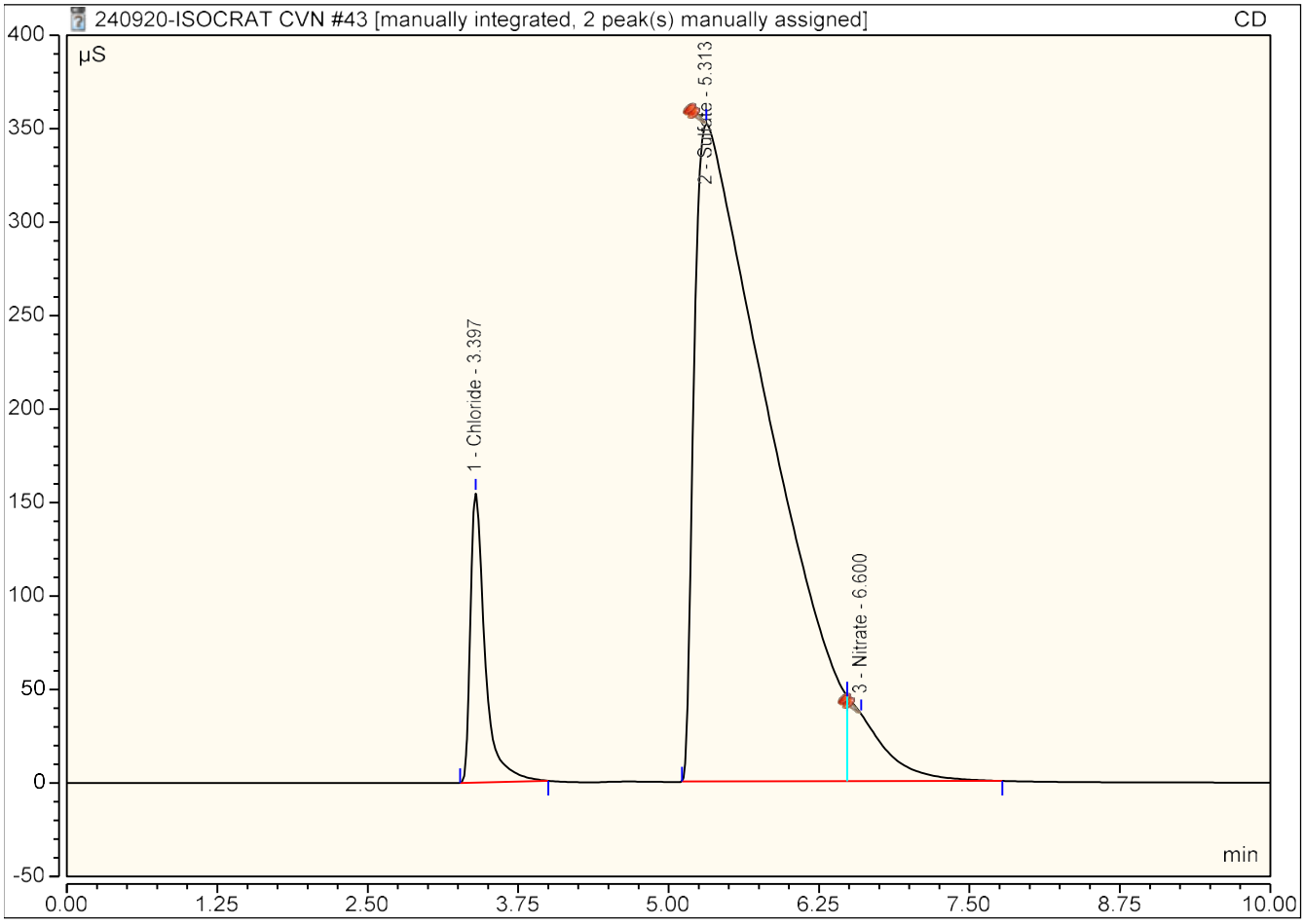
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.015	0.120	0.0717
3	3.40	**Chloride**	BMB*	26.544	188.241	65.0129
4	5.70	**Bromide**	BMB	0.001	0.012	0.0403
5	5.94	**Sulfate**	BMB*^	54.871	121.178	189.9967
TOTAL:				81.43	309.55	255.12



Peak Integration Report

Sample Name:	**XL2453985-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 16:06**	*Run Time:*	**10.00**

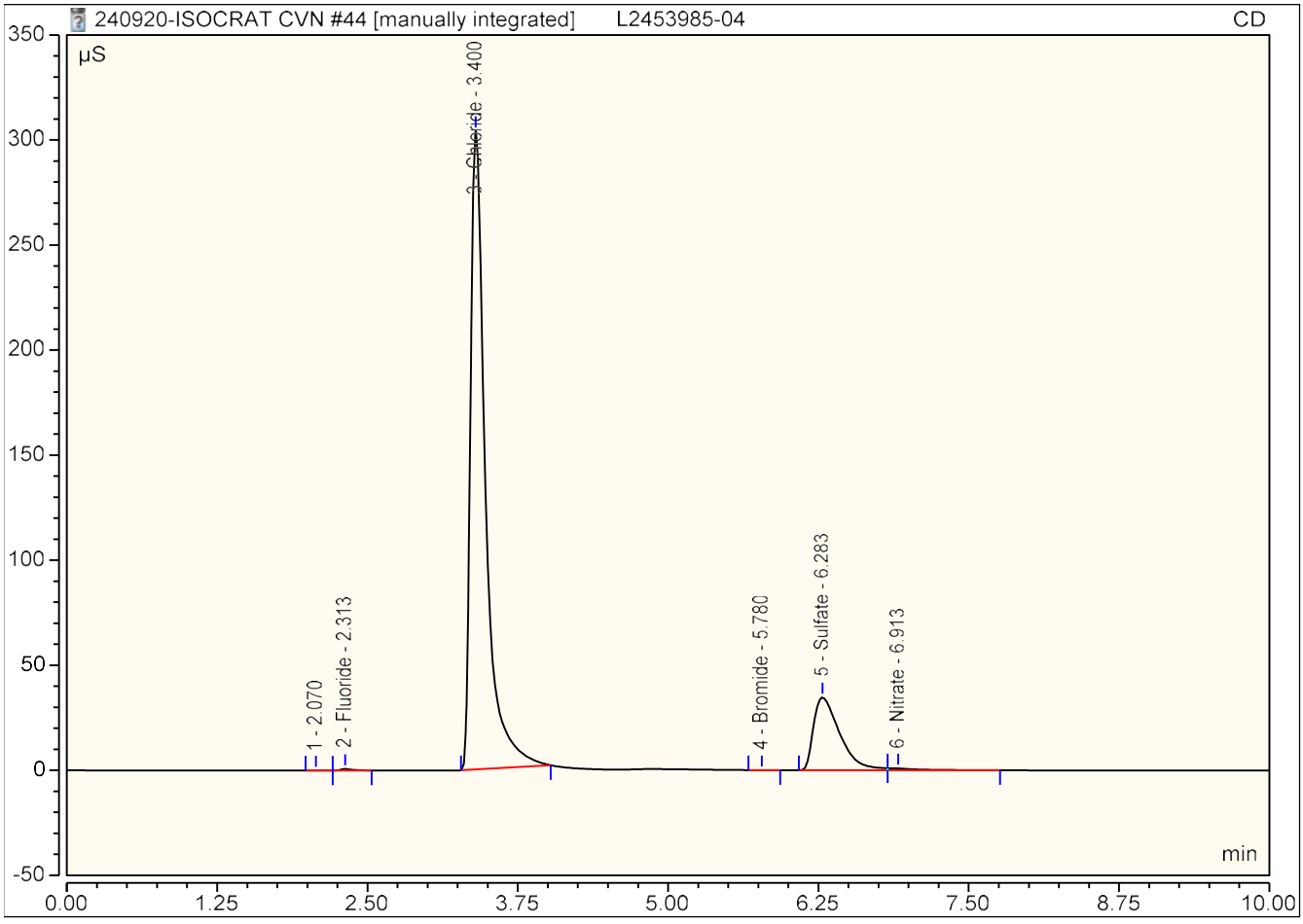
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.40	**Chloride**	BMB*	21.888	154.556	53.6439
2	5.31	**Sulfate**	BM *^	255.259	351.732	882.8567
3	6.60	**Nitrate**	MB*^	13.736	35.841	10.7924
TOTAL:				290.88	542.13	947.29



Peak Integration Report

Sample Name:	**L2453985-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 16:18**	*Run Time:*	**10.00**

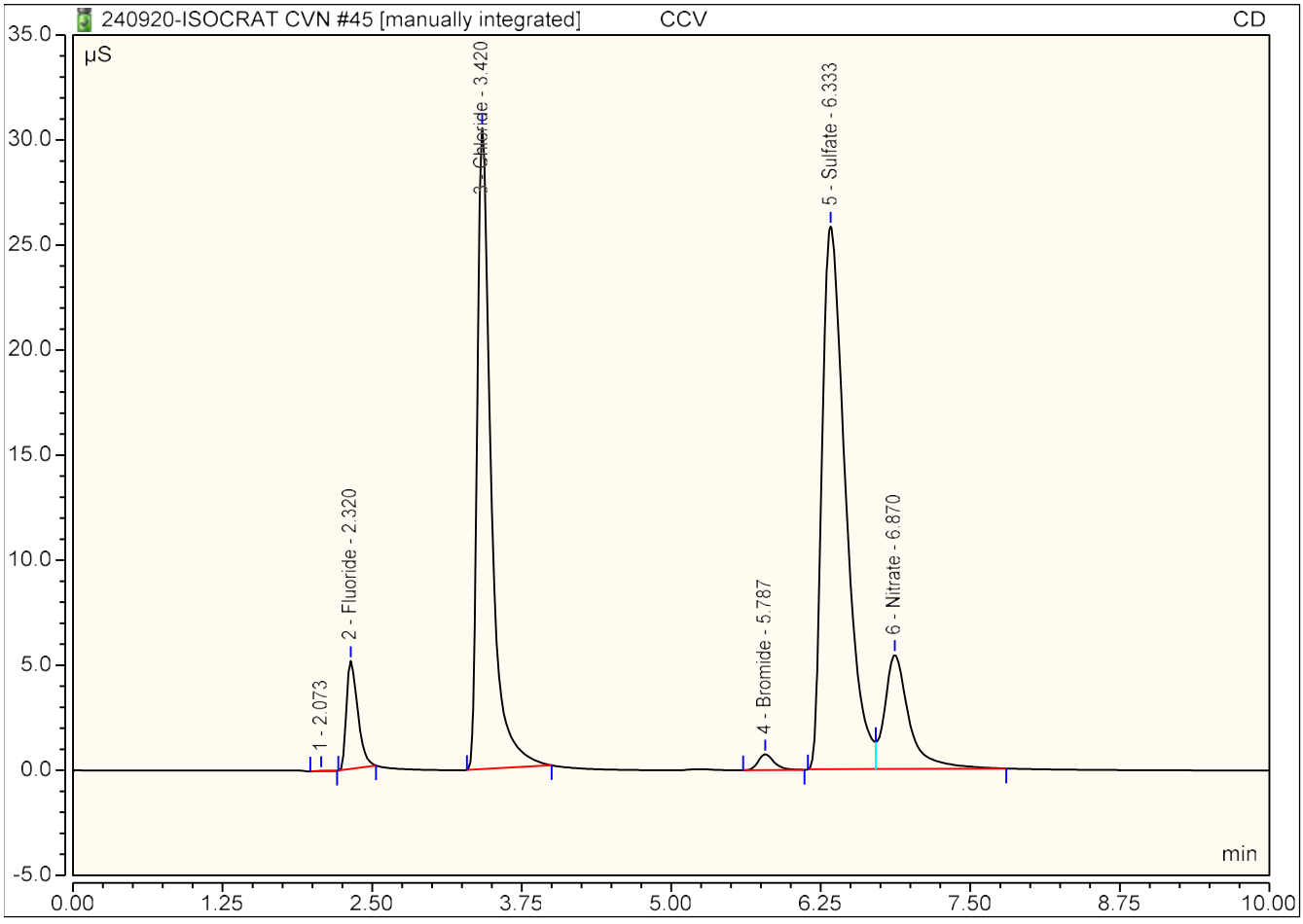
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.076	0.691	0.1828
3	3.40	**Chloride**	BMB*	43.927	303.850	107.4539
4	5.78	**Bromide**	BMB	0.002	0.018	0.0511
5	6.28	**Sulfate**	BM *	8.760	34.725	30.5639
6	6.91	**Nitrate**	MB*	0.271	0.888	0.2374
TOTAL:				53.04	340.17	138.49



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 16:30**	*Run Time:*	**10.00**

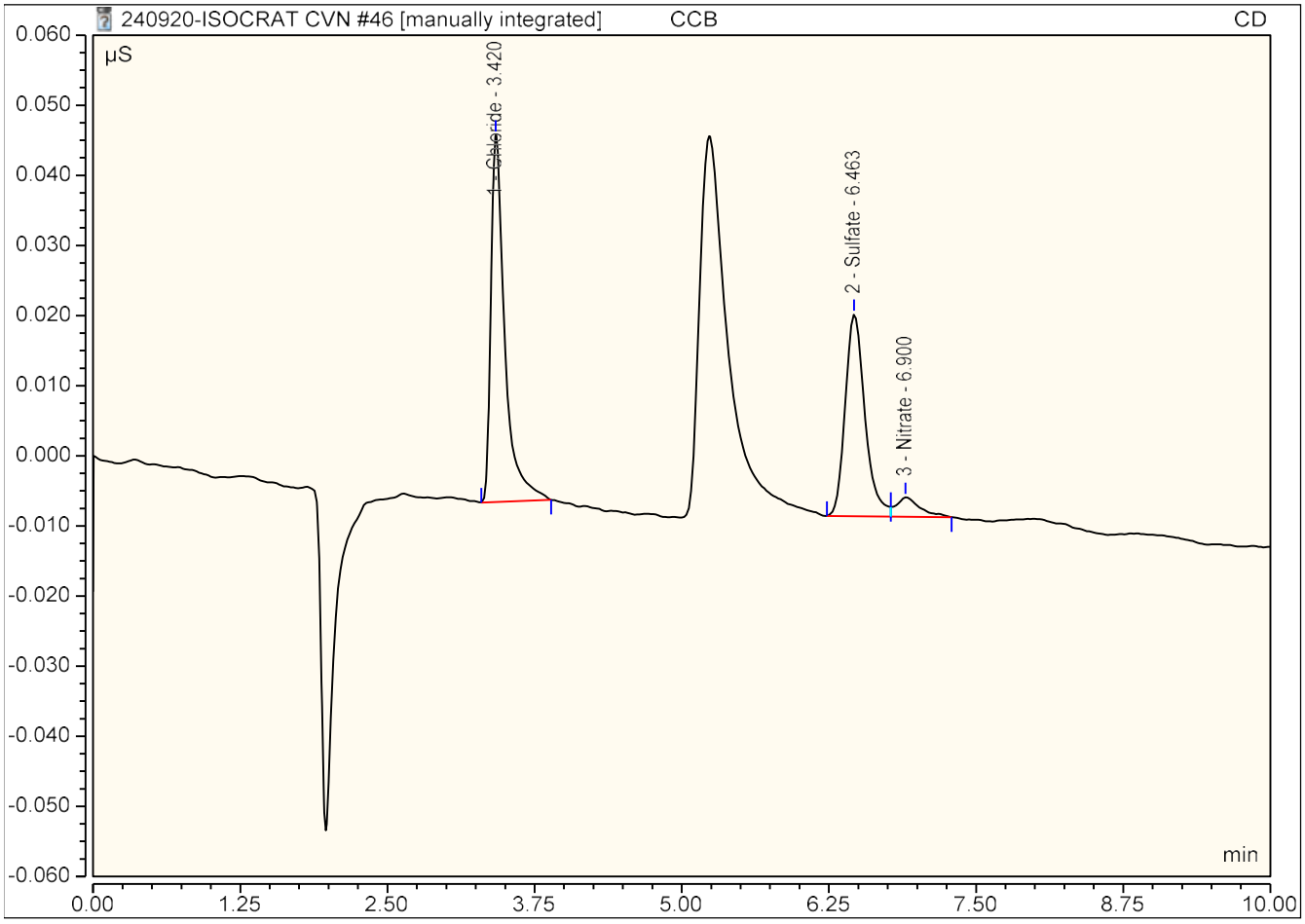
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.561	5.141	1.0682
3	3.42	**Chloride**	BMB*	4.104	30.511	10.2266
4	5.79	**Bromide**	BMB	0.118	0.755	1.0121
5	6.33	**Sulfate**	BM *	5.851	25.831	20.5060
6	6.87	**Nitrate**	MB*	1.292	5.438	1.0383
TOTAL:				11.93	67.67	33.85



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 16:42**	*Run Time:*	**10.00**

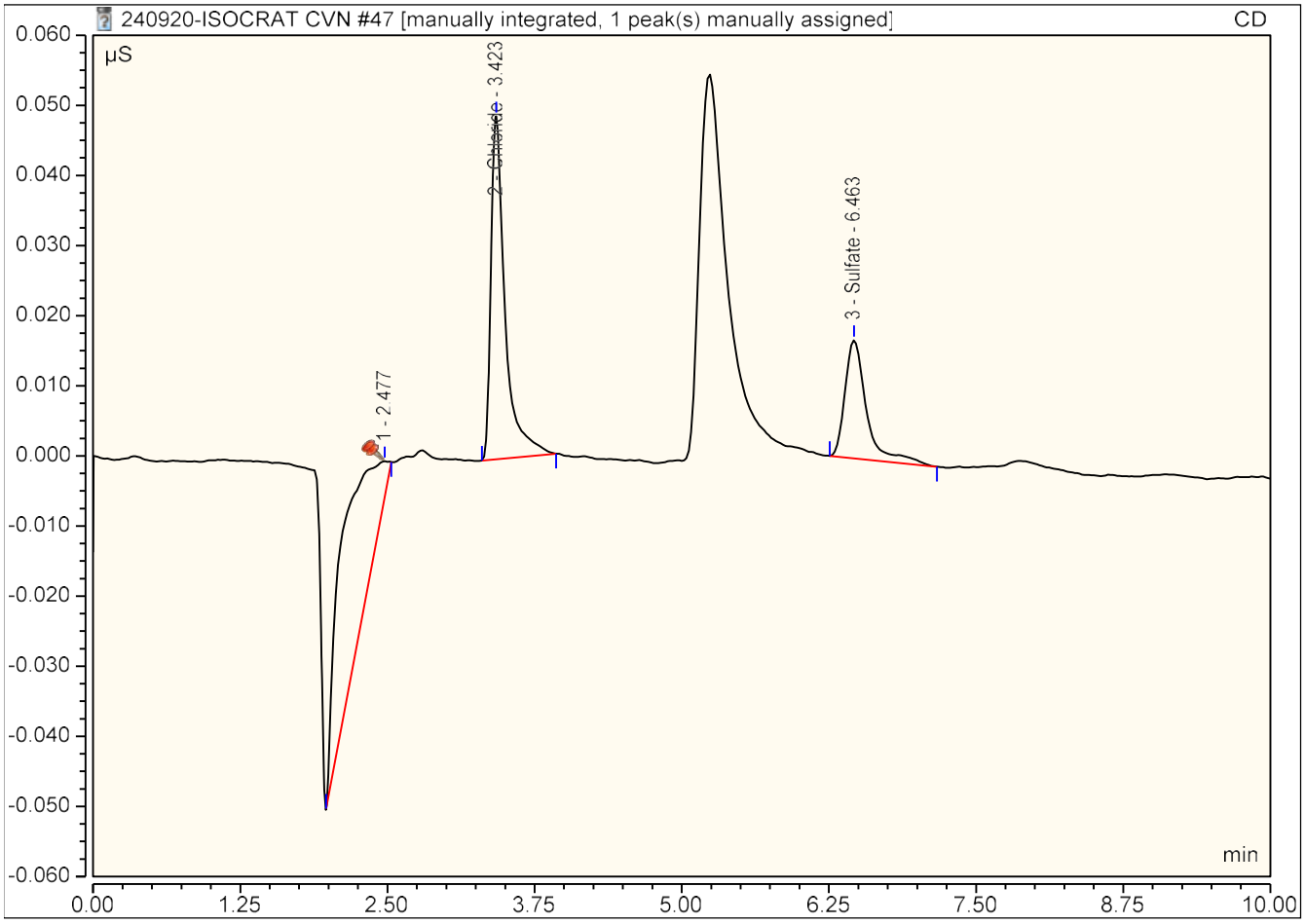
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.42	**Chloride**	BMB*	0.007	0.052	0.2230
2	6.46	**Sulfate**	BM *	0.006	0.029	0.2959
3	6.90	**Nitrate**	MB*	0.001	0.003	0.0258
TOTAL:				0.01	0.08	0.54



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 16:54**	*Run Time:*	**10.00**

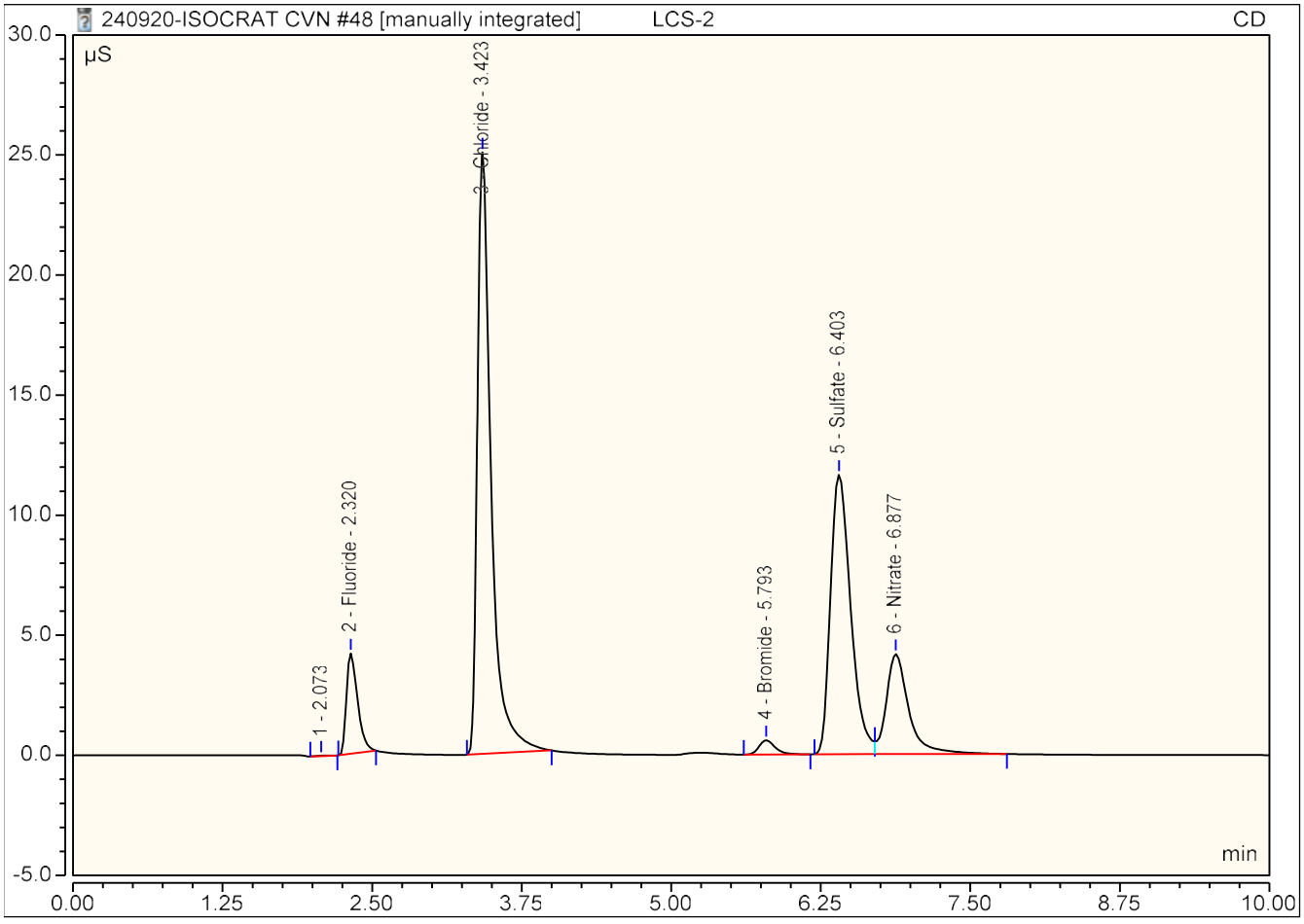
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.007	0.049	0.2221
3	6.46	**Sulfate**	BMB	0.004	0.017	0.2889
TOTAL:				0.01	0.07	0.51



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 17:06**	*Run Time:*	**10.00**

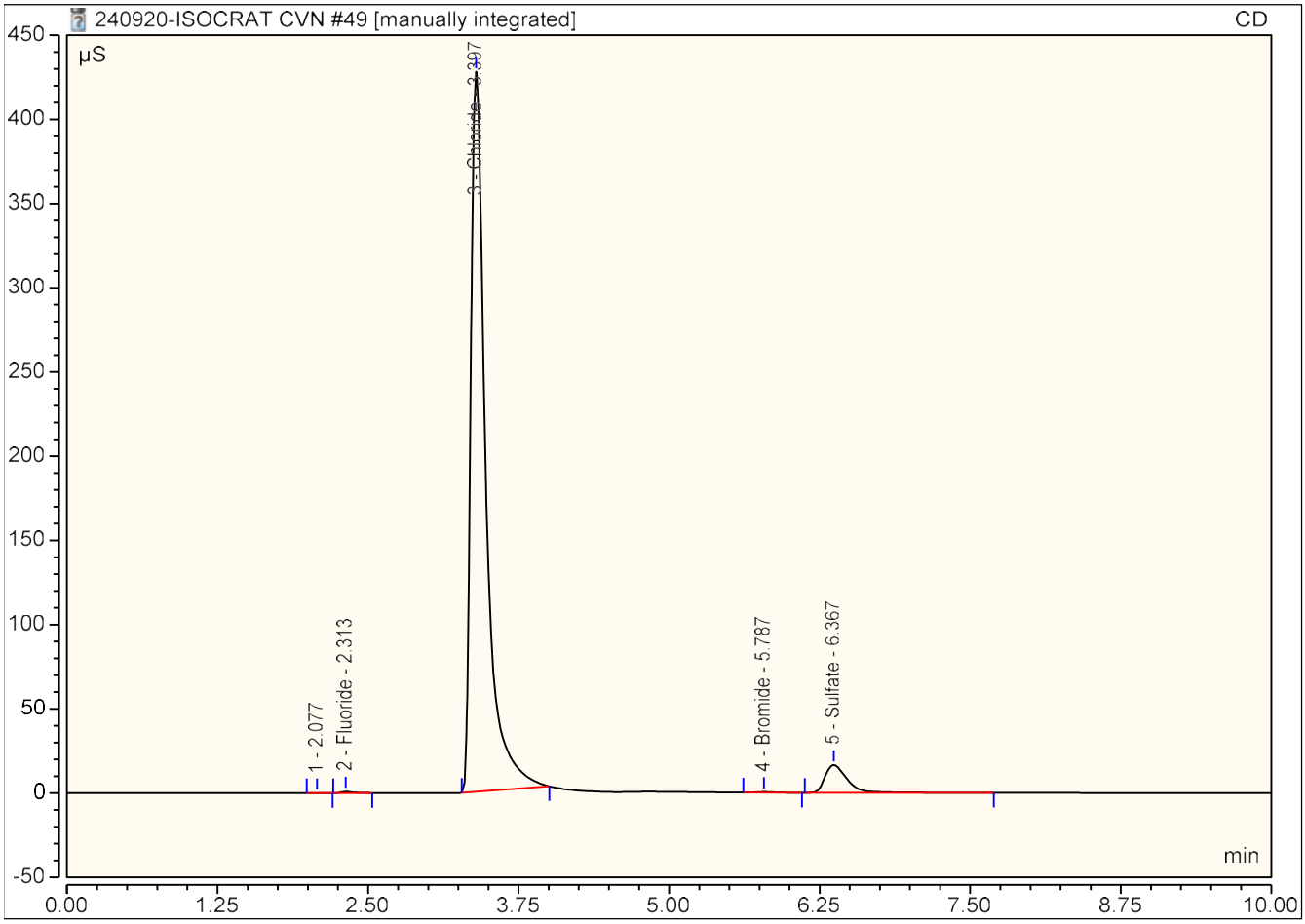
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.450	4.183	0.8660
3	3.42	**Chloride**	BMB*	3.335	25.045	8.3482
4	5.79	**Bromide**	BMB	0.095	0.596	0.8184
5	6.40	**Sulfate**	BM *	2.272	11.634	8.1306
6	6.88	**Nitrate**	MB*	0.910	4.165	0.7383
TOTAL:				7.06	45.62	18.90



Peak Integration Report

Sample Name:	**XL2453433-01 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 17:19**	*Run Time:*	**10.00**

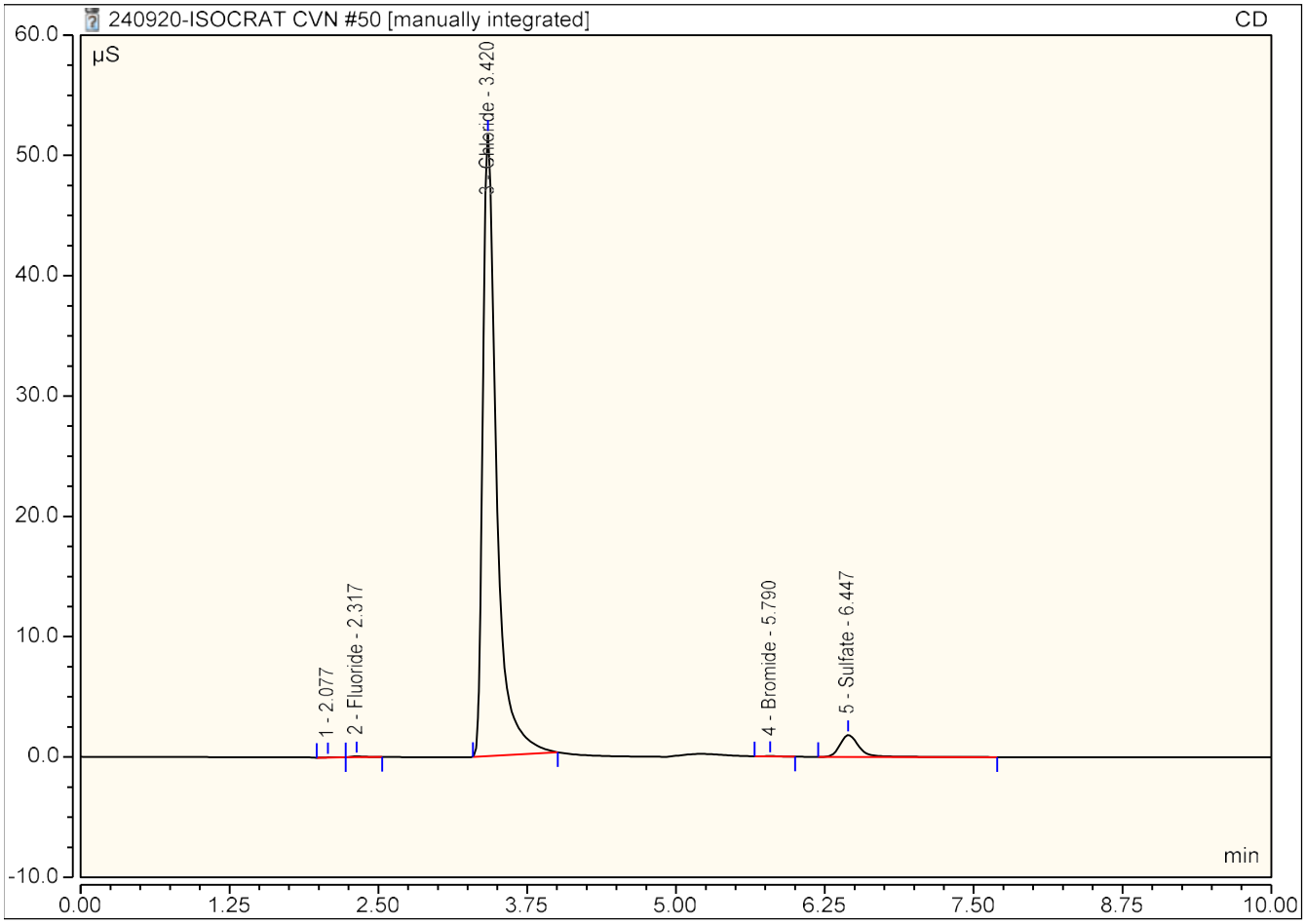
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.094	0.850	0.2159
3	3.40	**Chloride**	BMB*	62.103	427.320	151.8308
4	5.79	**Bromide**	BMB	0.061	0.392	0.5377
5	6.37	**Sulfate**	BMB	3.526	16.480	12.4674
TOTAL:				65.78	445.04	165.05



Peak Integration Report

Sample Name:	**L2453433-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 17:31**	*Run Time:*	**10.00**

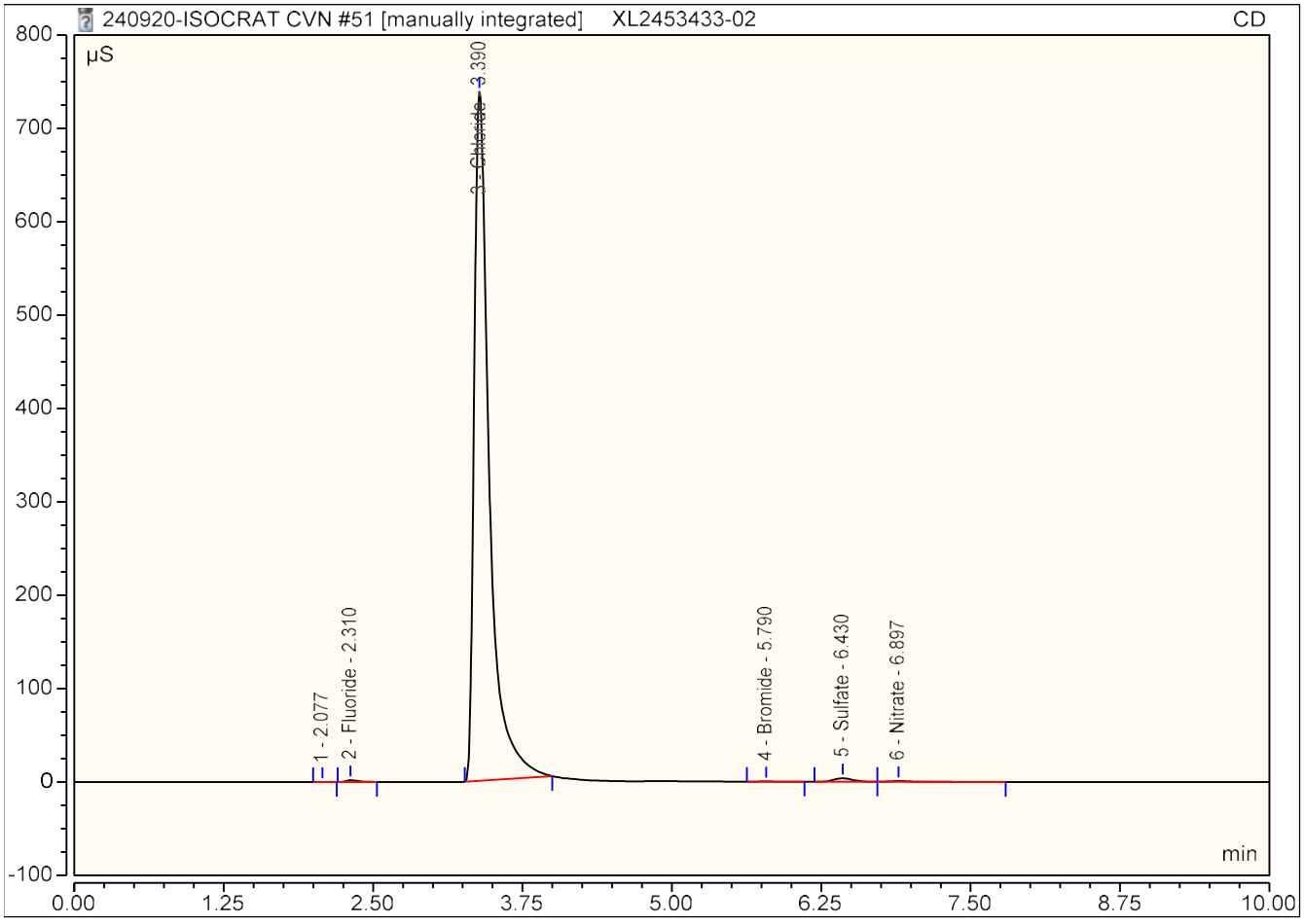
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.010	0.079	0.6233
3	3.42	**Chloride**	BMB*	6.974	51.640	172.3261
4	5.79	**Bromide**	BMB	0.005	0.033	0.7120
5	6.45	**Sulfate**	BMB	0.341	1.818	14.5484
TOTAL:				7.33	53.57	188.21



Peak Integration Report

Sample Name:	**XL2453433-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 17:43**	*Run Time:*	**10.00**

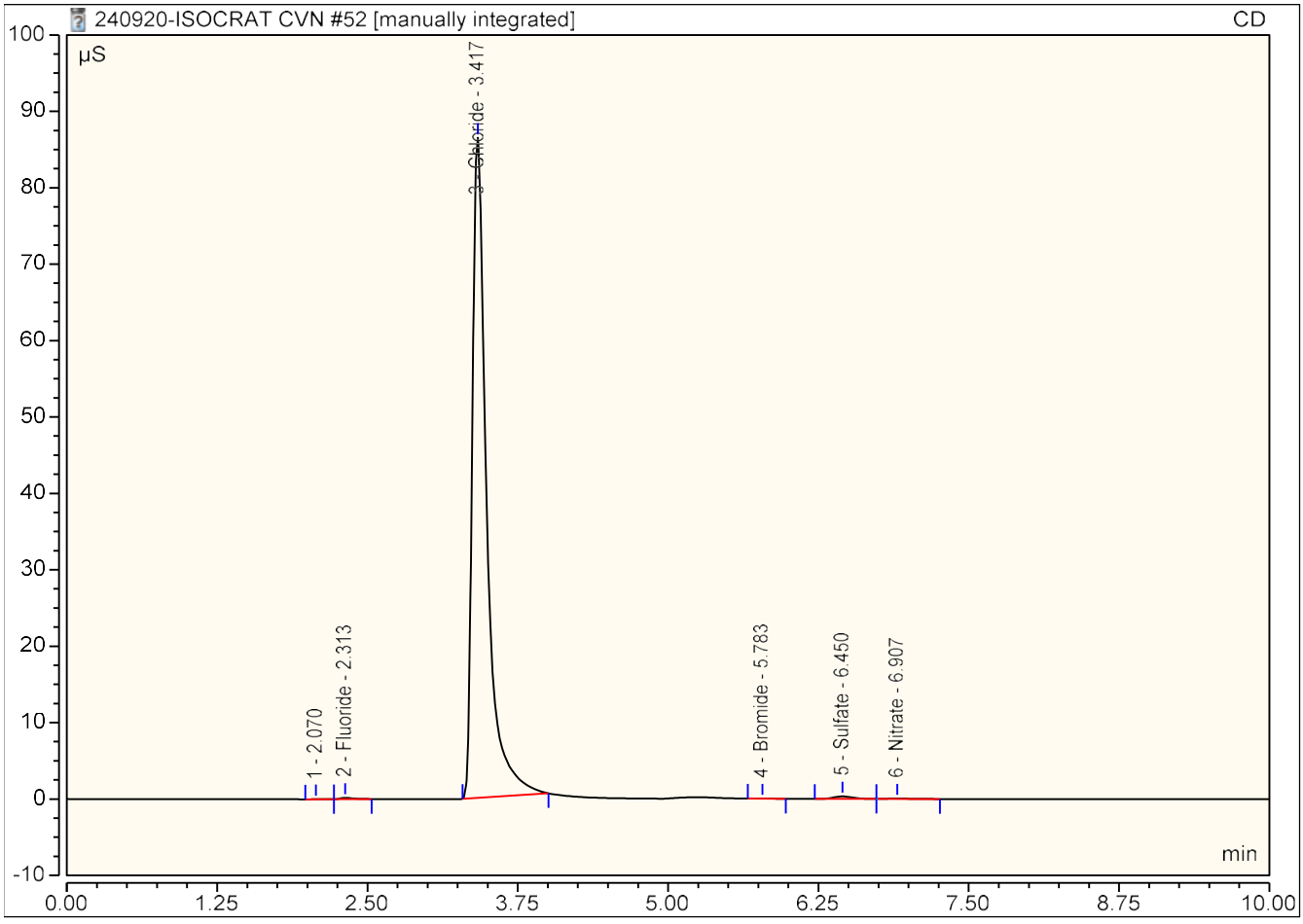
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.224	2.050	0.4528
3	3.39	**Chloride**	BMB*	108.508	737.907	265.1267
4	5.79	**Bromide**	BMB	0.043	0.282	0.3905
5	6.43	**Sulfate**	BM *	0.714	3.843	2.7463
6	6.90	**Nitrate**	MB*	0.187	0.910	0.1718
TOTAL:				109.68	744.99	268.89



Peak Integration Report

Sample Name:	**L2453433-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 17:55**	*Run Time:*	**10.00**

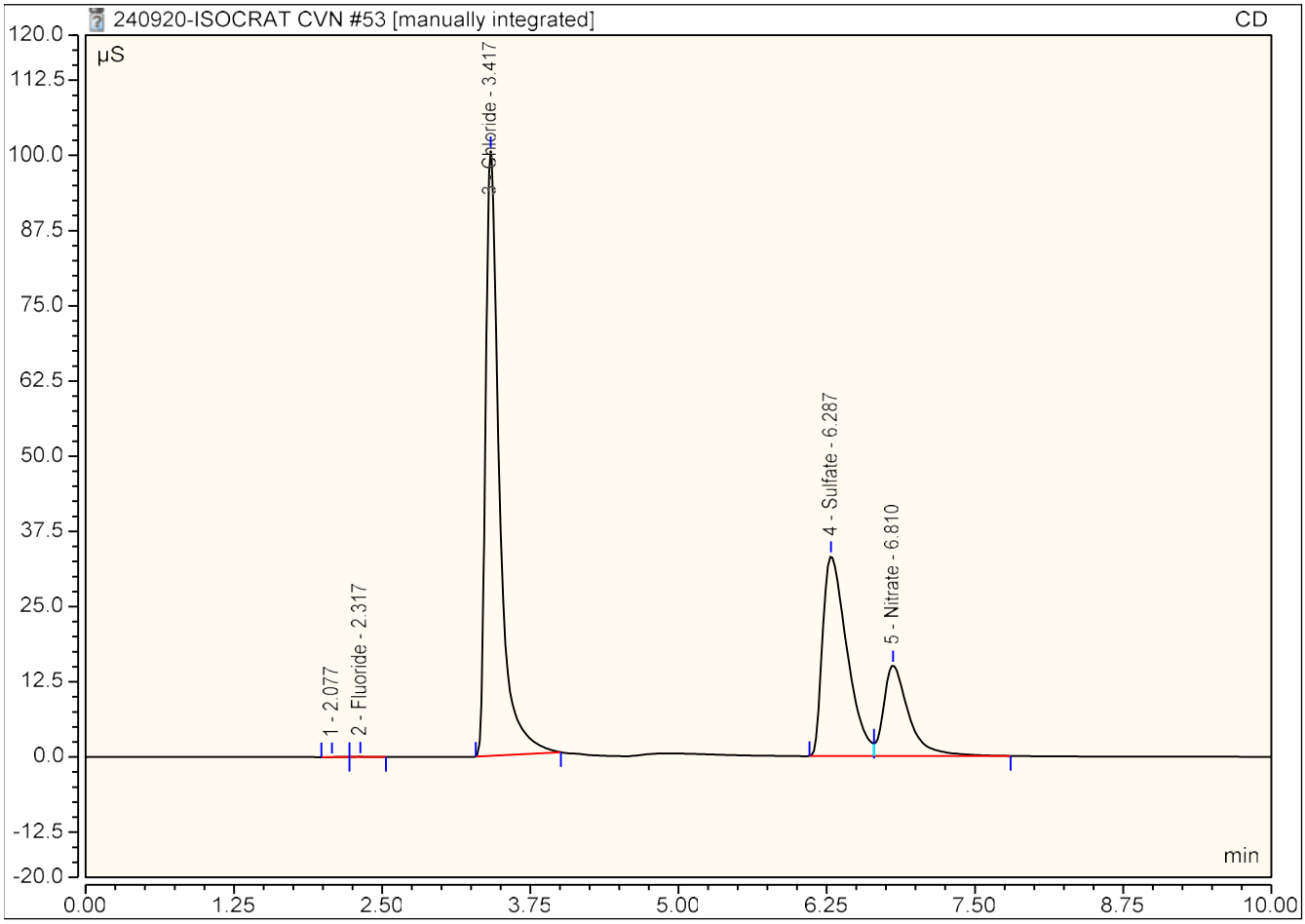
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.019	0.173	0.7966
3	3.42	**Chloride**	BMB*	11.918	86.372	293.0261
4	5.78	**Bromide**	BMB	0.003	0.021	0.5736
5	6.45	**Sulfate**	BM *	0.061	0.334	4.8835
6	6.91	**Nitrate**	MB*	0.015	0.074	0.3690
TOTAL:				12.02	86.97	299.65



Peak Integration Report

Sample Name:	**L2453399-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 18:07**	*Run Time:*	**10.00**

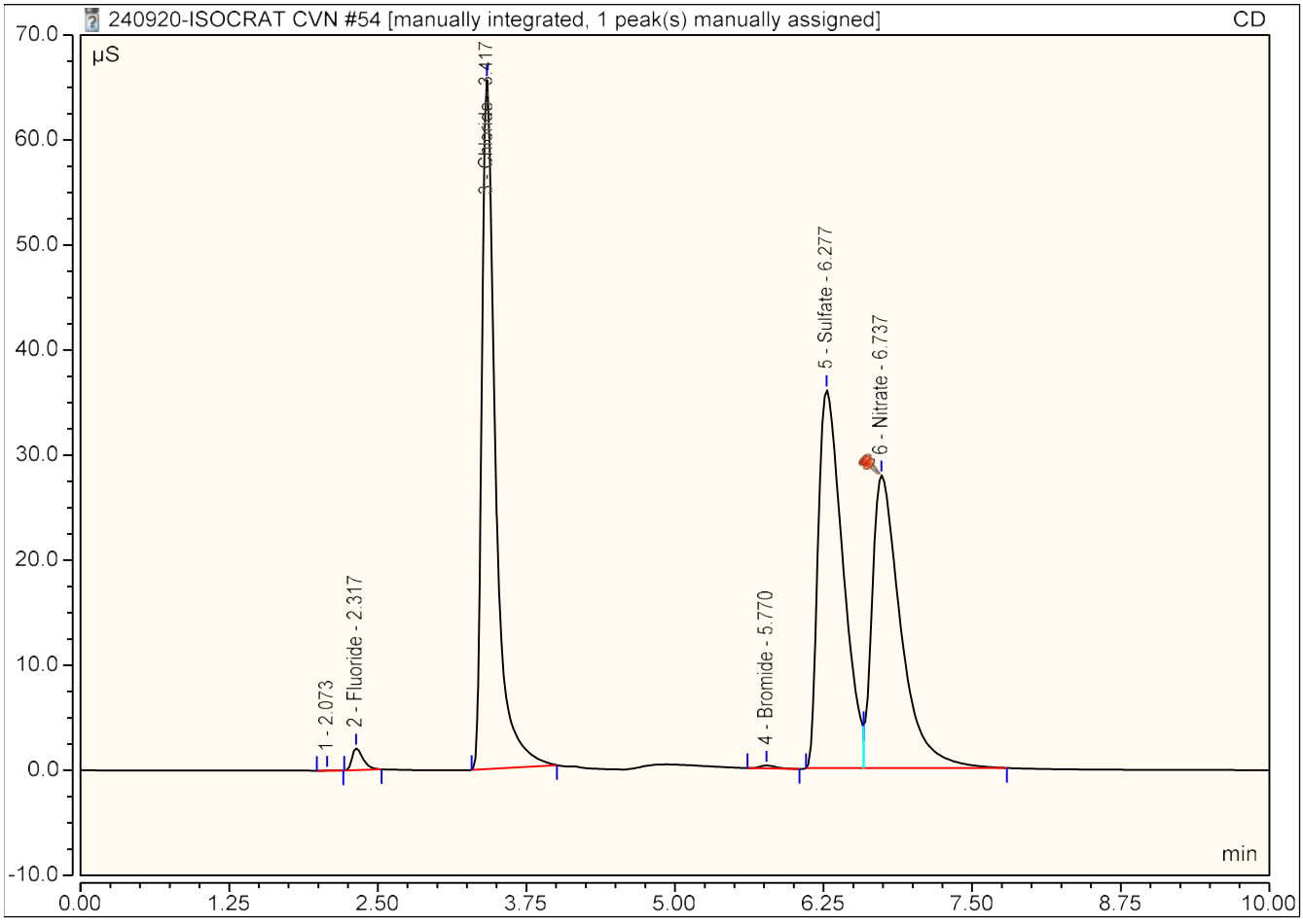
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.046	0.0549
3	3.42	**Chloride**	BMB*	13.683	100.494	33.6121
4	6.29	**Sulfate**	BM *	7.926	33.242	27.6803
5	6.81	**Nitrate**	MB*	3.683	15.054	2.9123
TOTAL:				25.30	148.84	64.26



Peak Integration Report

Sample Name:	**L2453399-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 18:19**	*Run Time:*	**10.00**

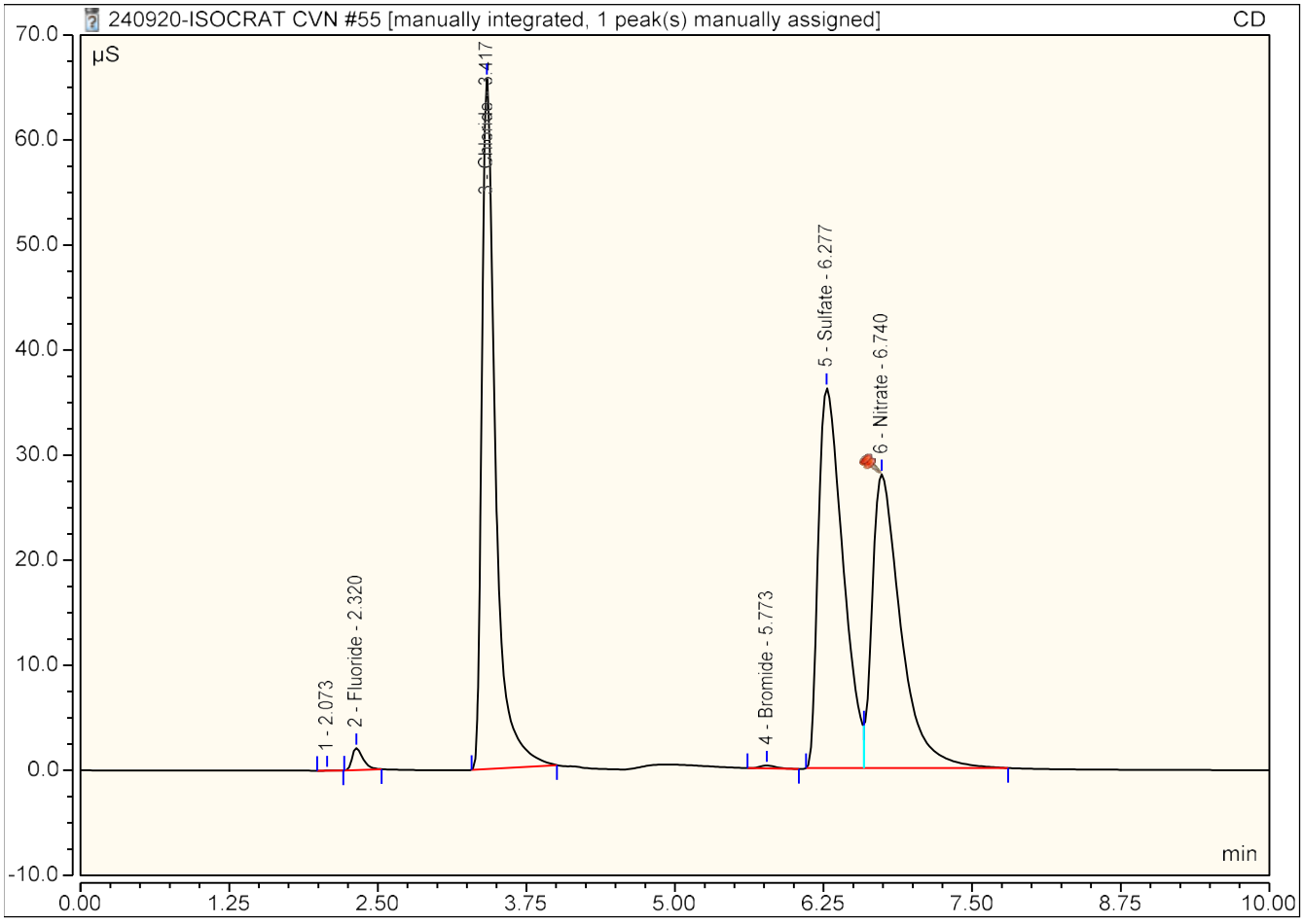
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.221	2.073	0.4479
3	3.42	**Chloride**	BMB*	8.815	65.607	21.7286
4	5.77	**Bromide**	BMB	0.043	0.284	0.3877
5	6.28	**Sulfate**	BM *	8.645	35.976	30.1670
6	6.74	**Nitrate**	MB*^	7.768	27.876	6.1144
TOTAL:				25.49	131.82	58.85



Peak Integration Report

Sample Name:	**L2453399-02 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 18:31**	*Run Time:*	**10.00**

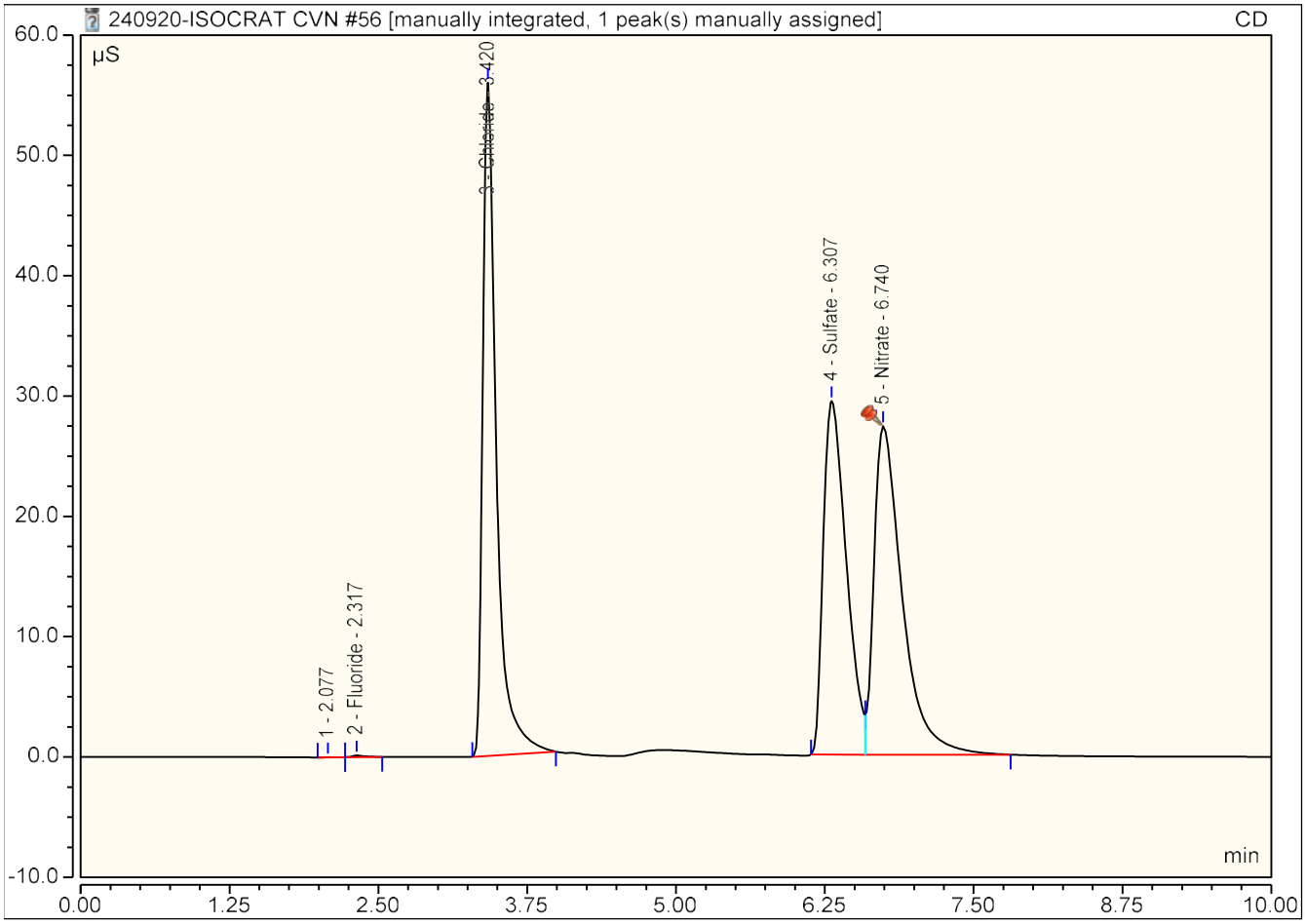
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.221	2.077	0.4483
3	3.42	**Chloride**	BMB*	8.828	65.749	21.7584
4	5.77	**Bromide**	BMB	0.043	0.286	0.3881
5	6.28	**Sulfate**	BM *	8.677	36.174	30.2764
6	6.74	**Nitrate**	MB*^	7.784	27.959	6.1270
TOTAL:				25.55	132.25	59.00



Peak Integration Report

Sample Name:	**L2453399-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 18:43**	*Run Time:*	**10.00**

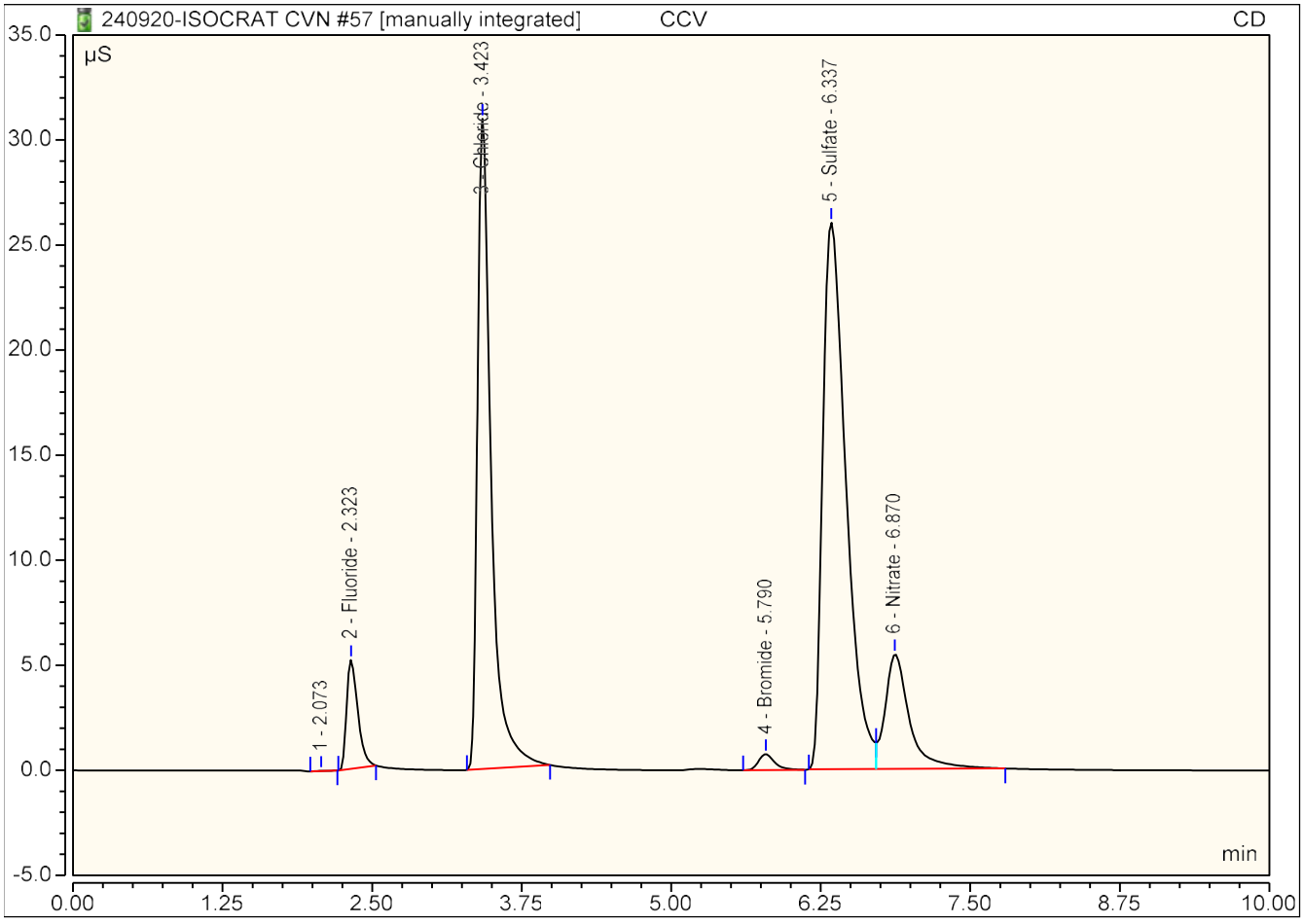
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.016	0.139	0.0734
3	3.42	**Chloride**	BMB*	7.422	55.950	18.3268
4	6.31	**Sulfate**	BM *	6.578	29.389	23.0202
5	6.74	**Nitrate**	MB*^	7.480	27.315	5.8884
TOTAL:				21.50	112.79	47.31



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 18:55**	*Run Time:*	**10.00**

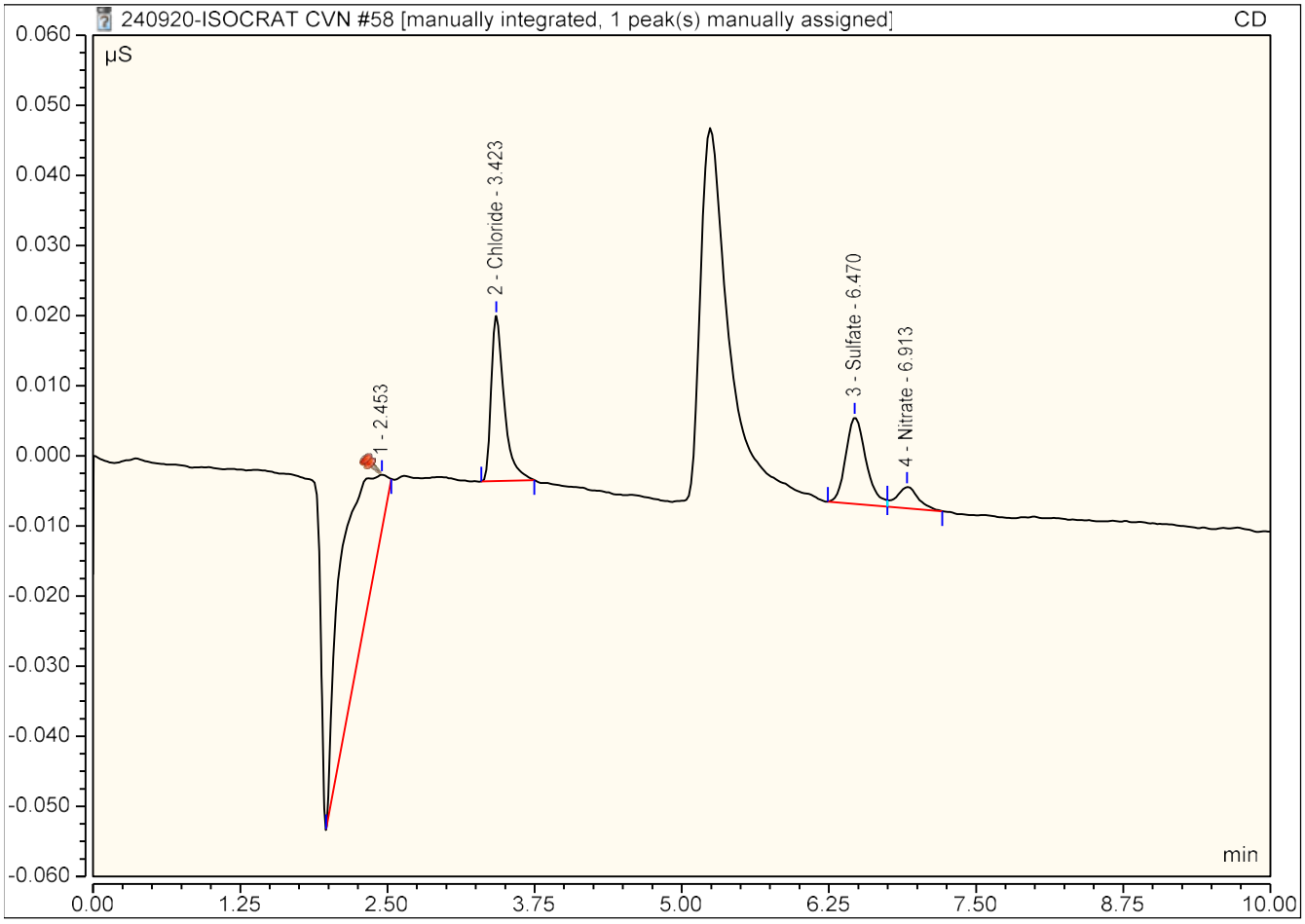
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.560	5.182	1.0653
3	3.42	**Chloride**	BMB*	4.098	30.943	10.2101
4	5.79	**Bromide**	BMB	0.118	0.758	1.0106
5	6.34	**Sulfate**	BM *	5.864	26.006	20.5503
6	6.87	**Nitrate**	MB*	1.284	5.458	1.0315
TOTAL:				11.92	68.35	33.87



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 19:07**	*Run Time:*	**10.00**

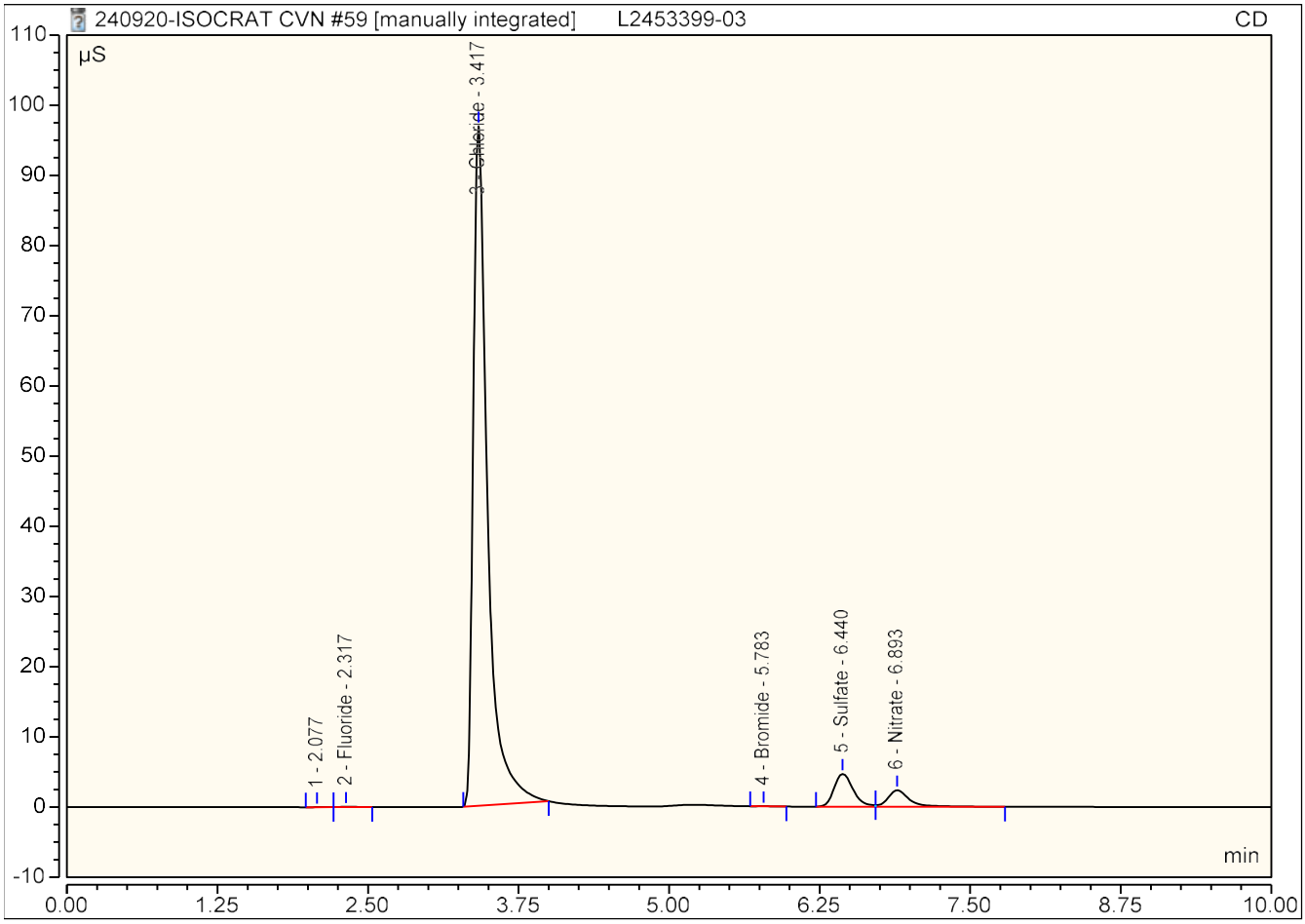
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.003	0.024	0.2130
3	6.47	**Sulfate**	BM *	0.002	0.012	0.2851
4	6.91	**Nitrate**	MB*	0.001	0.003	0.0257
TOTAL:				0.01	0.04	0.52



Peak Integration Report

Sample Name:	**L2453399-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 19:19**	*Run Time:*	**10.00**

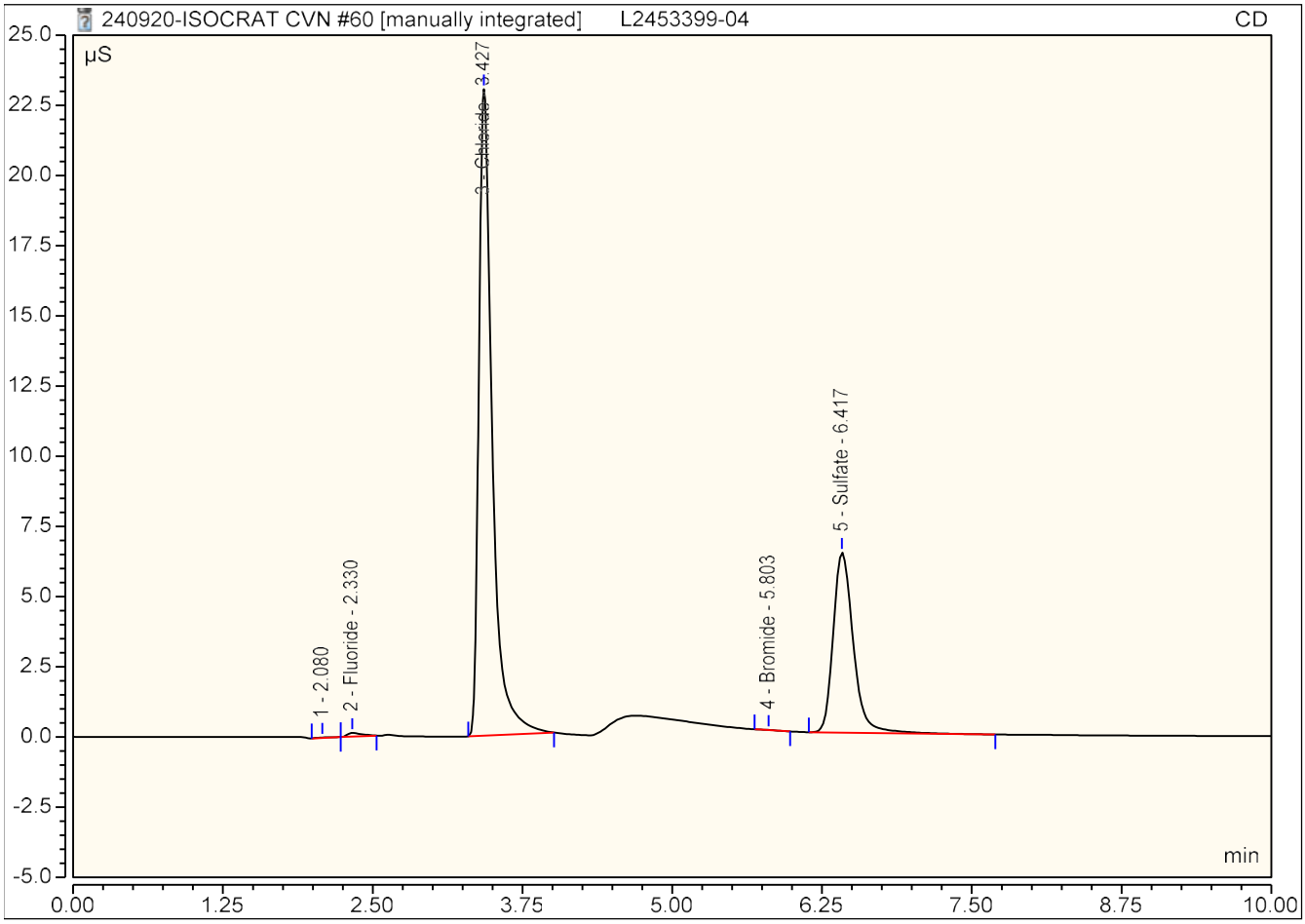
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.057	0.0568
3	3.42	**Chloride**	BMB*	13.297	96.819	32.6692
4	5.78	**Bromide**	BMB	0.003	0.021	0.0570
5	6.44	**Sulfate**	BM *	0.858	4.676	3.2417
6	6.89	**Nitrate**	MB*	0.485	2.347	0.4055
TOTAL:				14.65	103.92	36.43



Peak Integration Report

Sample Name:	**L2453399-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 19:32**	*Run Time:*	**10.00**

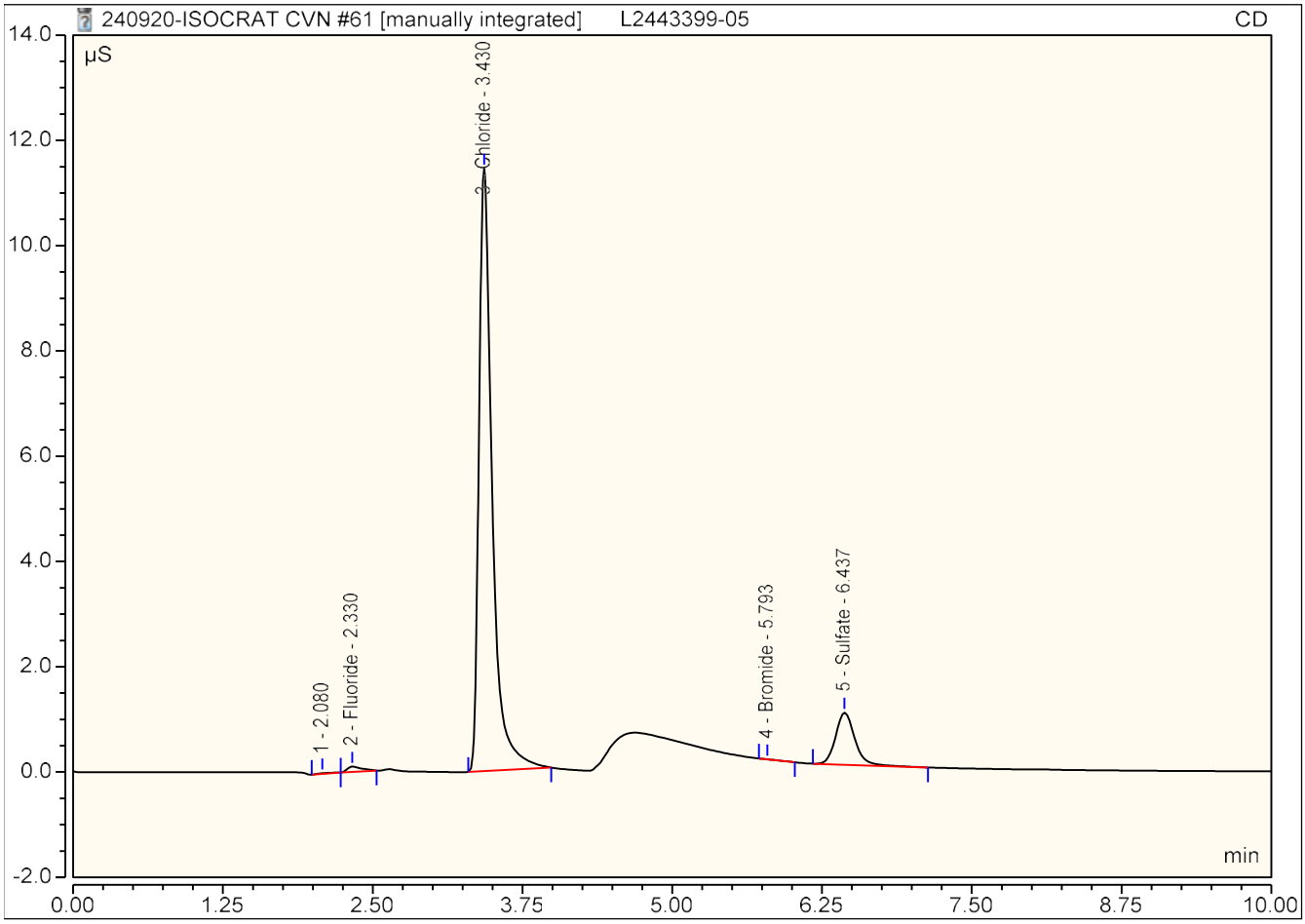
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.018	0.134	0.0781
3	3.43	**Chloride**	BMB*	2.995	23.032	7.5167
4	5.80	**Bromide**	BMB	0.001	0.008	0.0415
5	6.42	**Sulfate**	BMB	1.249	6.414	4.5938
TOTAL:				4.26	29.59	12.23



Peak Integration Report

Sample Name:	**L2443399-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 19:44**	*Run Time:*	**10.00**

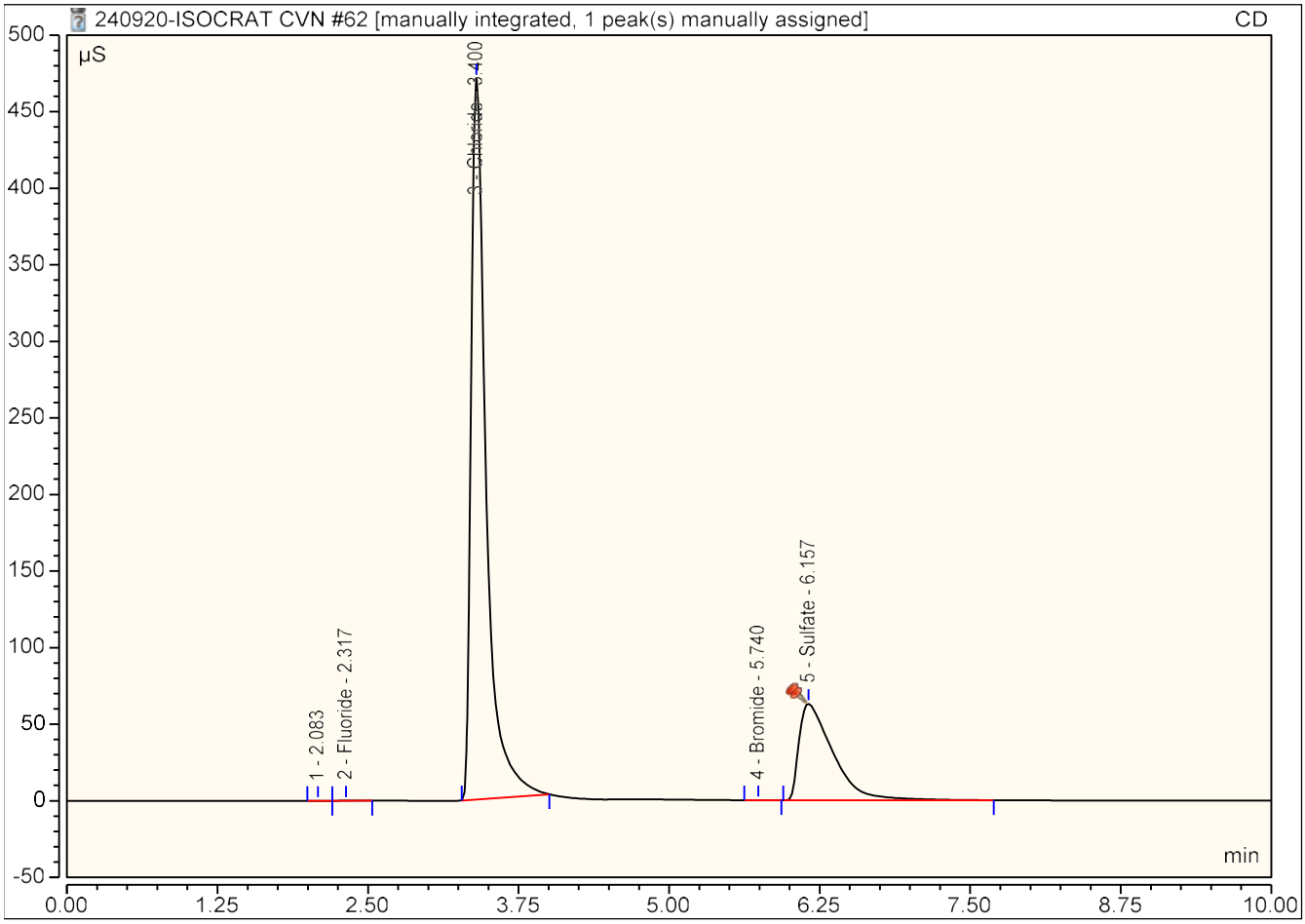
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.014	0.101	0.0701
3	3.43	**Chloride**	BMB*	1.466	11.449	3.7859
4	5.79	**Bromide**	BMB	0.000	0.002	0.0351
5	6.44	**Sulfate**	BMB	0.184	0.992	0.9136
TOTAL:				1.67	12.54	4.80



Peak Integration Report

Sample Name:	**L2453400-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 19:56**	*Run Time:*	**10.00**

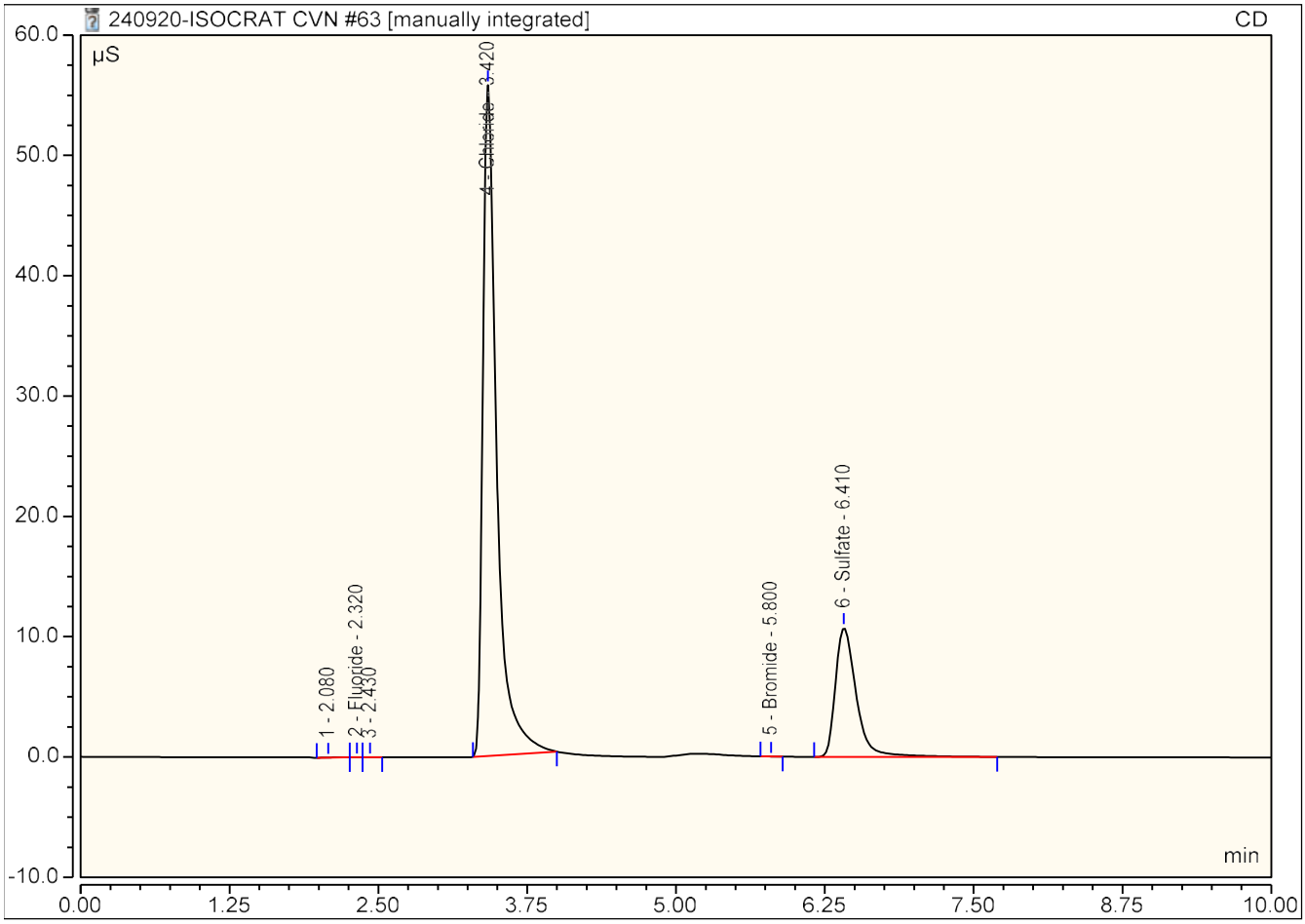
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.047	0.0557
3	3.40	**Chloride**	BMB*	68.308	470.745	166.9800
4	5.74	**Bromide**	BMB	0.006	0.040	0.0832
5	6.16	**Sulfate**	BMB^	20.488	63.042	71.1172
TOTAL:				88.81	533.87	238.24



Peak Integration Report

Sample Name:	**L2453400-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 20:08**	*Run Time:*	**10.00**

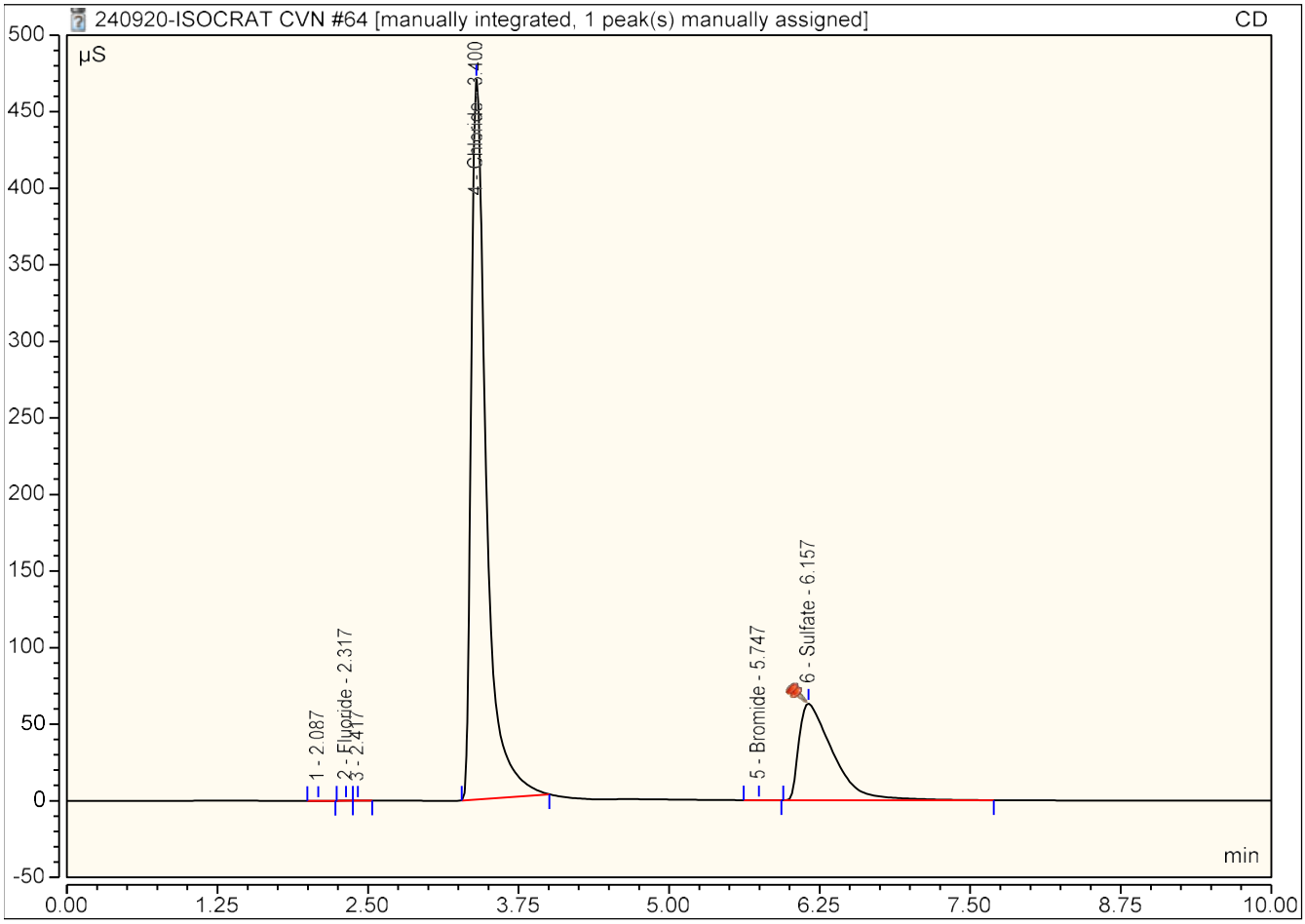
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.000	0.003	0.4480
4	3.42	**Chloride**	BMB*	7.548	55.754	186.3504
5	5.80	**Bromide**	BMB	0.000	0.002	0.3429
6	6.41	**Sulfate**	BMB	2.176	10.732	78.0160
TOTAL:				9.73	66.49	265.16



Peak Integration Report

Sample Name:	**L2453400-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 20:20**	*Run Time:*	**10.00**

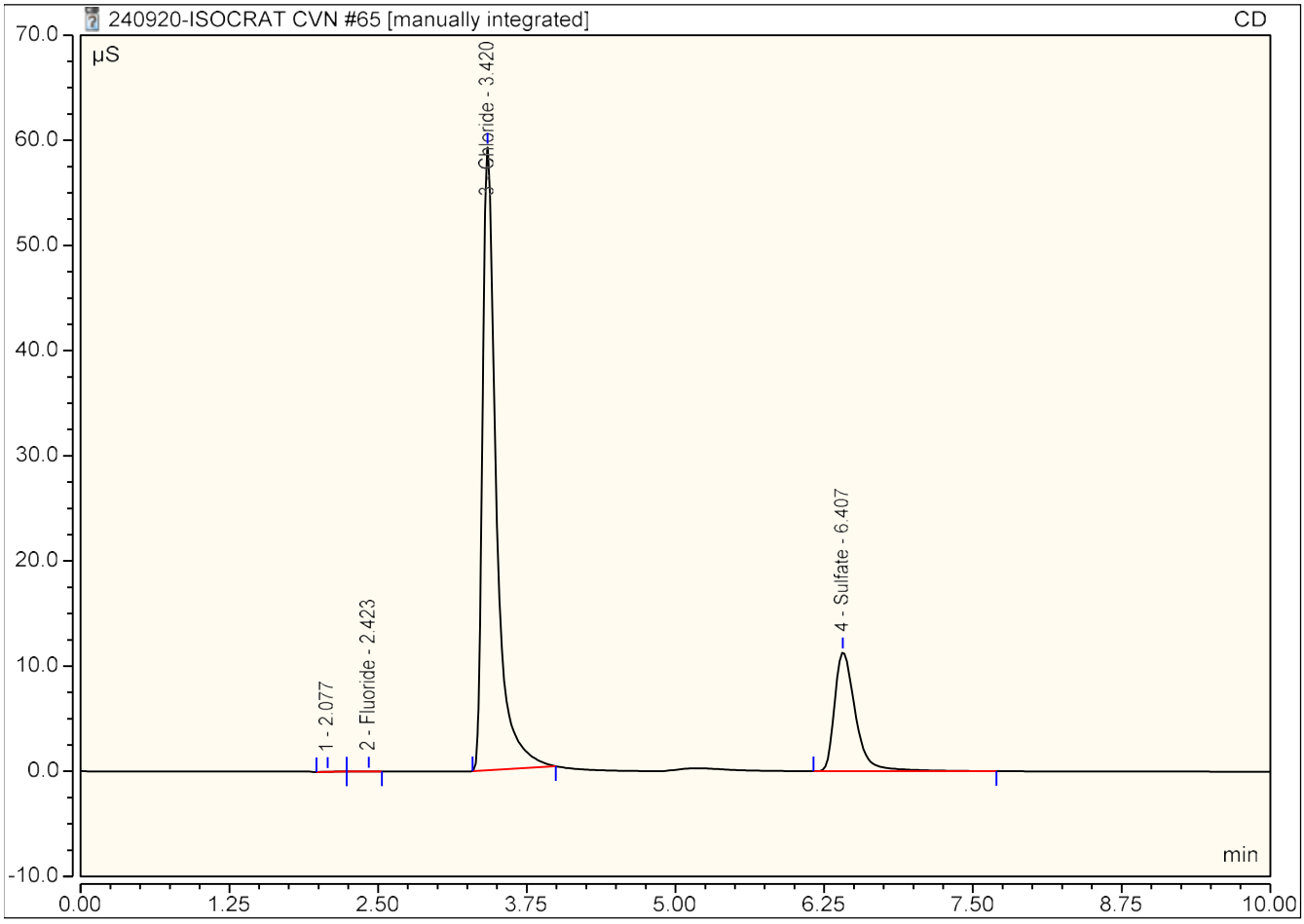
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.002	0.025	0.0476
4	3.40	**Chloride**	BMB*	68.412	470.091	167.2335
5	5.75	**Bromide**	BMB	0.006	0.044	0.0853
6	6.16	**Sulfate**	BMB^	20.511	63.098	71.1954
TOTAL:				88.93	533.26	238.56



Peak Integration Report

Sample Name:	**L2453400-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 20:32**	*Run Time:*	**10.00**

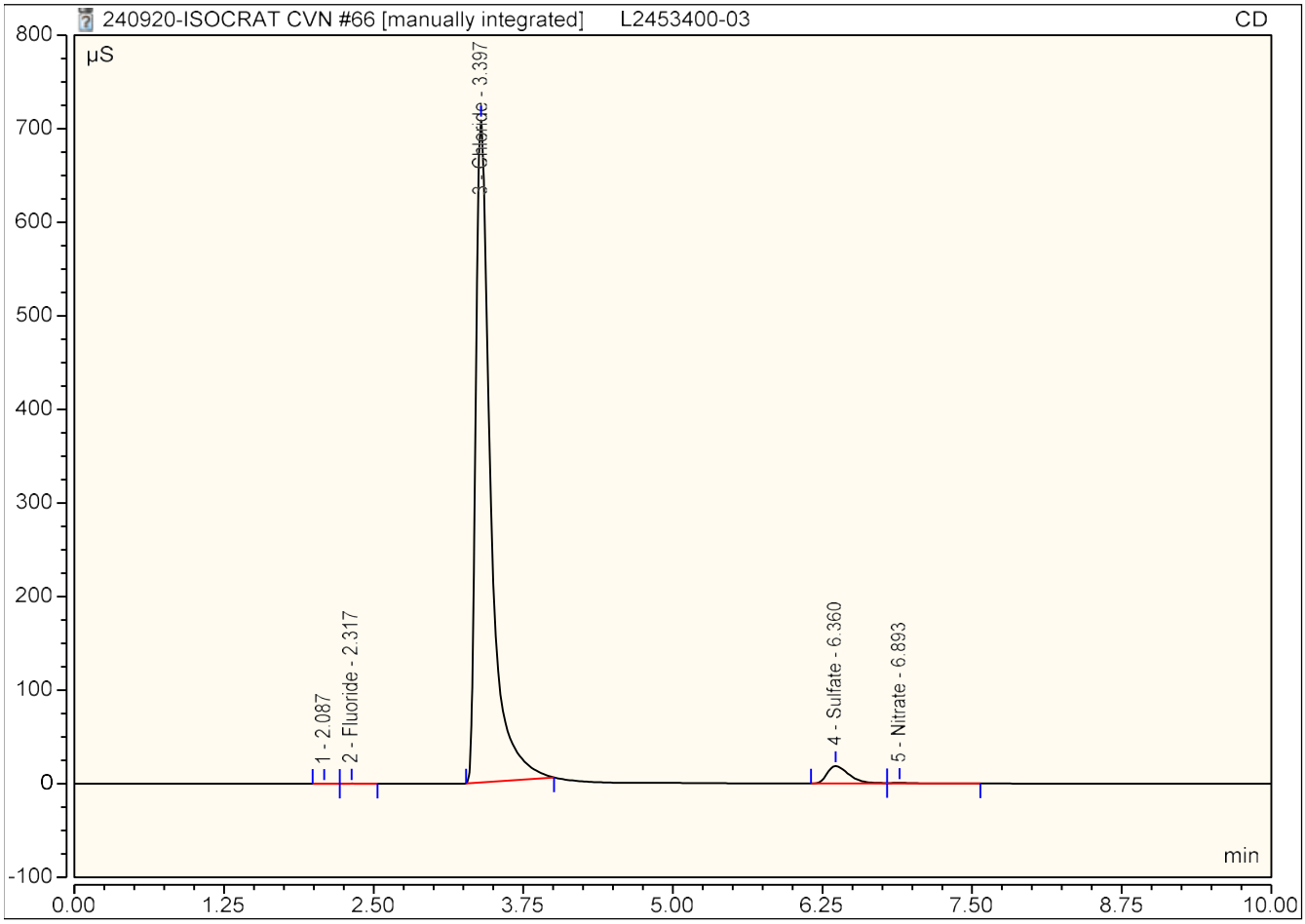
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.001	0.007	0.4686
3	3.42	**Chloride**	BMB*	7.990	59.233	197.1201
4	6.41	**Sulfate**	BMB	2.315	11.317	82.8044
TOTAL:				10.31	70.56	280.39



Peak Integration Report

Sample Name:	**L2453400-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 20:44**	*Run Time:*	**10.00**

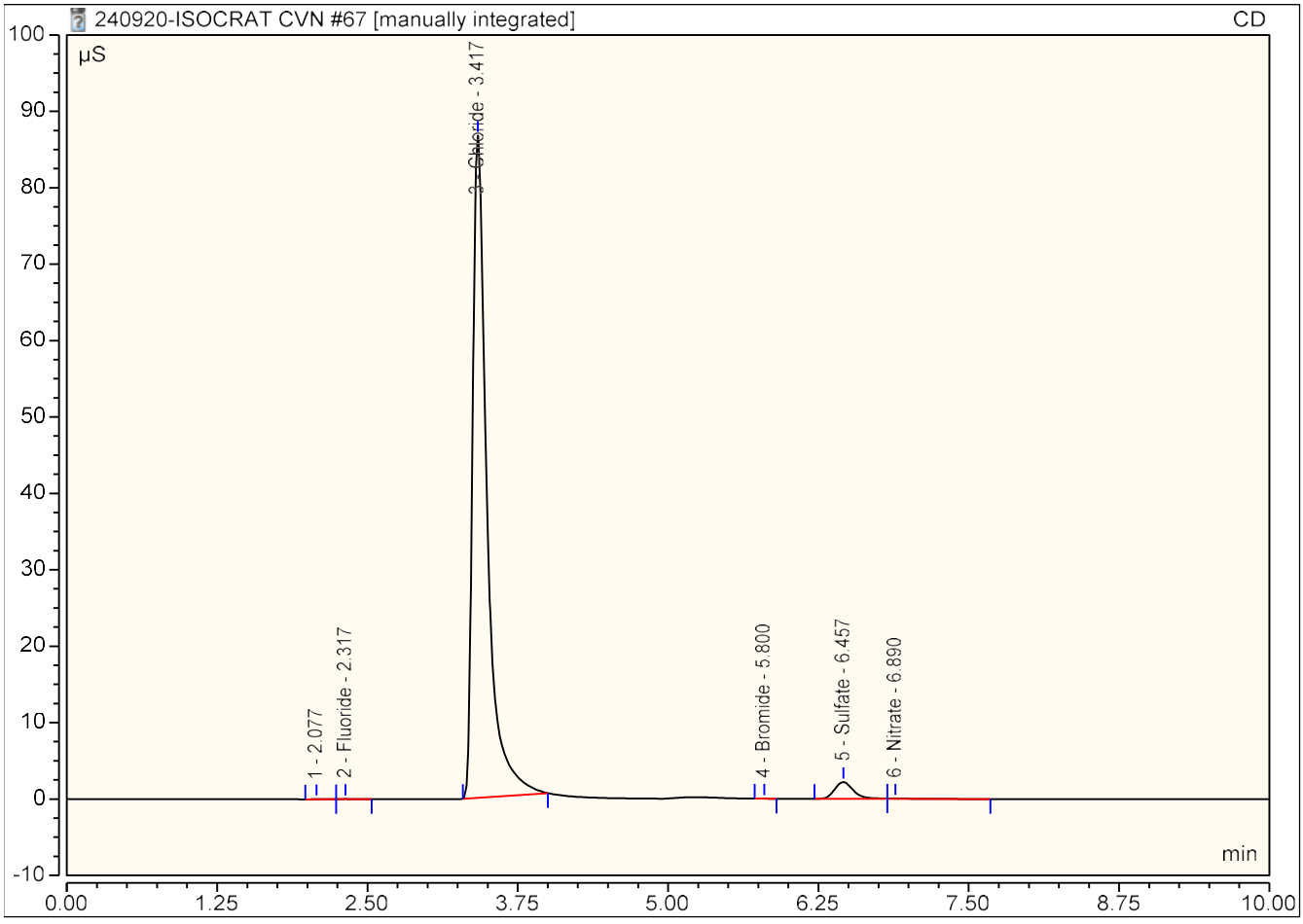
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.019	0.155	0.0786
3	3.40	**Chloride**	BMB*	103.213	707.614	252.1996
4	6.36	**Sulfate**	BM *	4.005	18.732	14.1225
5	6.89	**Nitrate**	MB*	0.182	0.676	0.1680
TOTAL:				107.42	727.18	266.57



Peak Integration Report

Sample Name:	**L2453400-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 20:56**	*Run Time:*	**10.00**

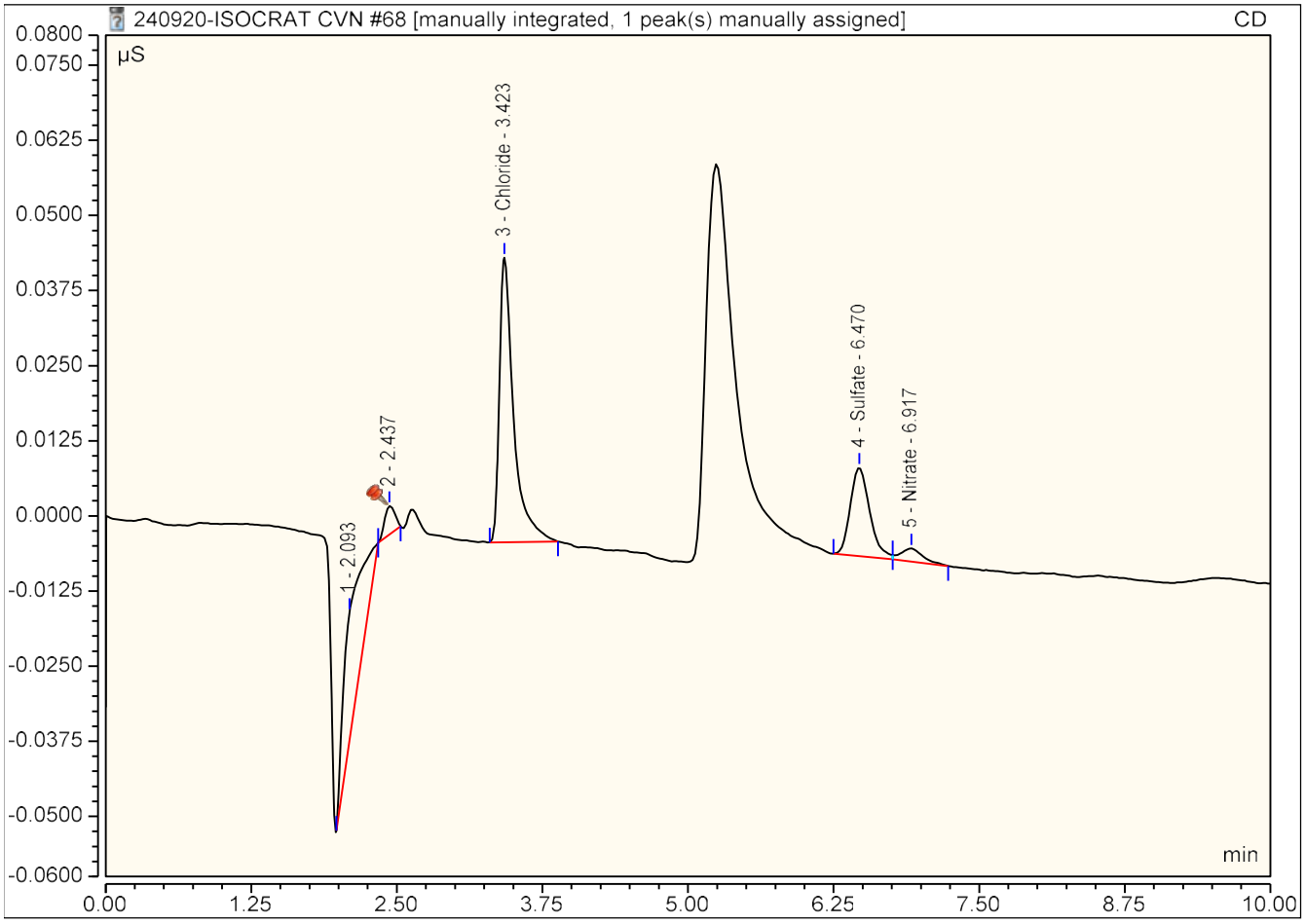
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.002	0.018	0.4895
3	3.42	**Chloride**	BMB*	11.991	86.662	294.8066
4	5.80	**Bromide**	BMB	0.000	0.001	0.3369
5	6.46	**Sulfate**	BM *	0.406	2.200	16.8185
6	6.89	**Nitrate**	MB*	0.018	0.070	0.3969
TOTAL:				12.42	88.95	312.85



Peak Integration Report

Sample Name:	**L2453400-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 21:08**	*Run Time:*	**10.00**

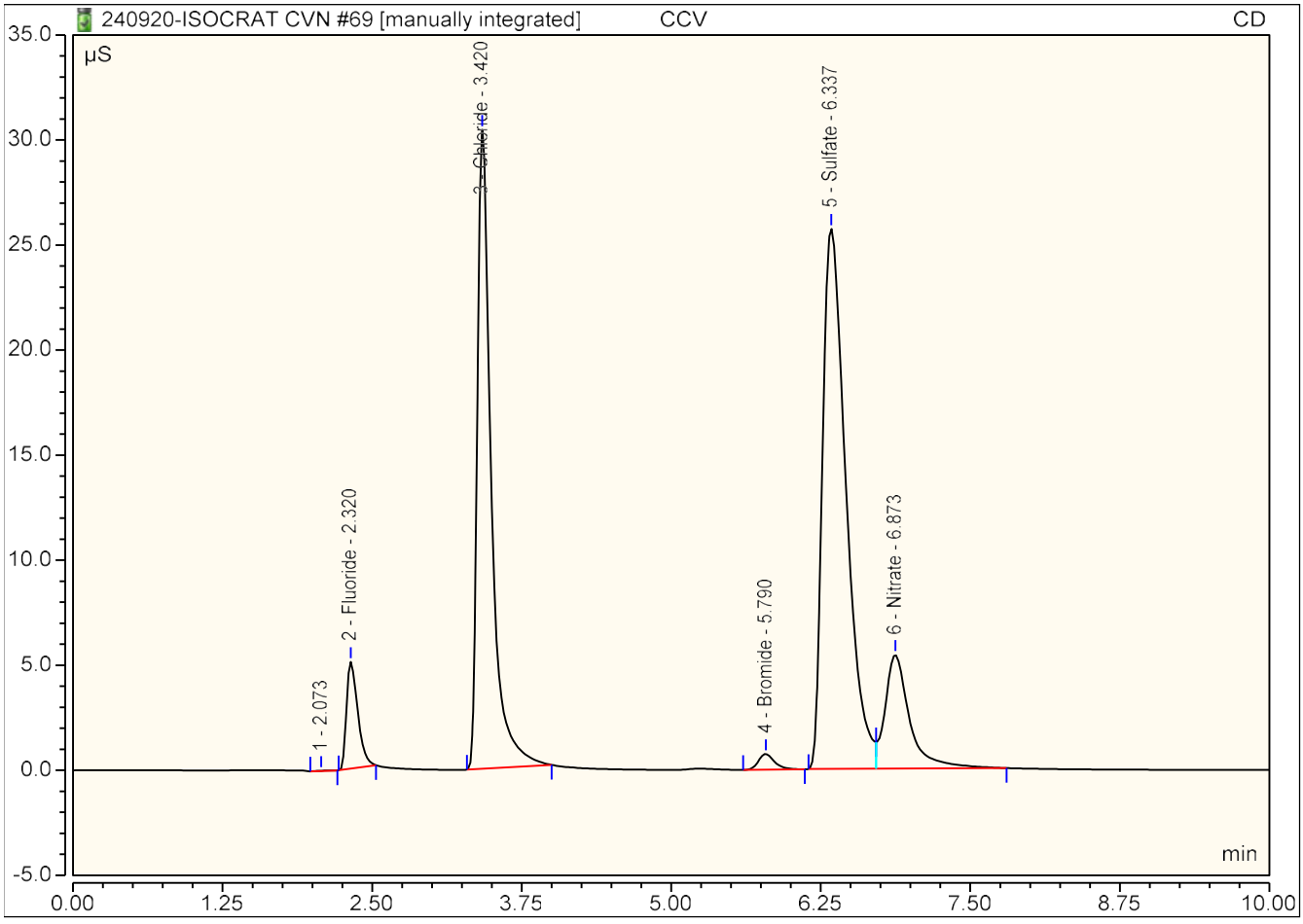
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.007	0.047	0.2219
4	6.47	**Sulfate**	BM *	0.003	0.015	0.2863
5	6.92	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.53



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 21:20**	*Run Time:*	**10.00**

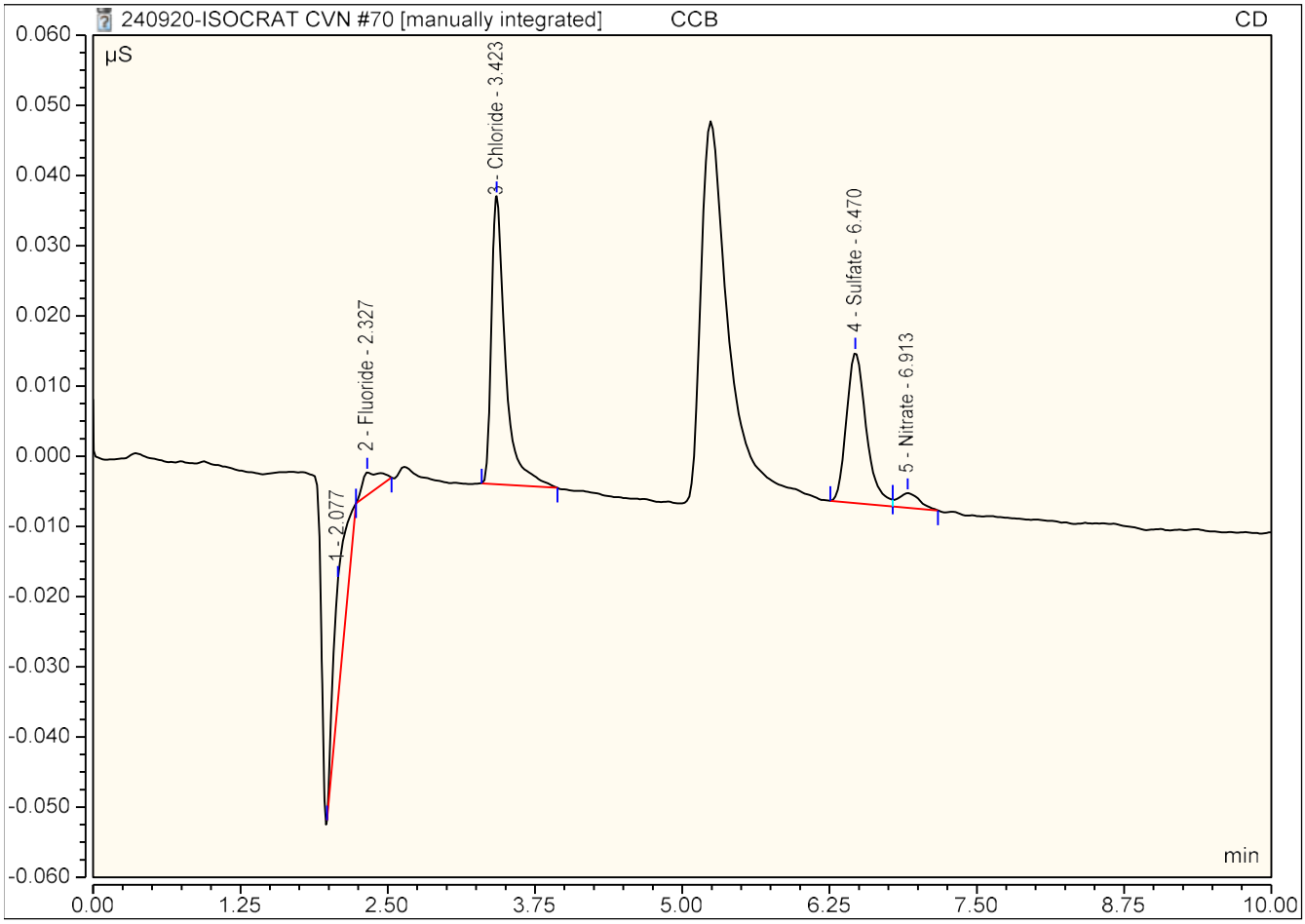
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.553	5.089	1.0532
3	3.42	**Chloride**	BMB*	4.092	30.415	10.1966
4	5.79	**Bromide**	BMB	0.117	0.747	1.0030
5	6.34	**Sulfate**	BM *	5.825	25.703	20.4166
6	6.87	**Nitrate**	MB*	1.287	5.415	1.0340
TOTAL:				11.87	67.37	33.70



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 21:32**	*Run Time:*	**10.00**

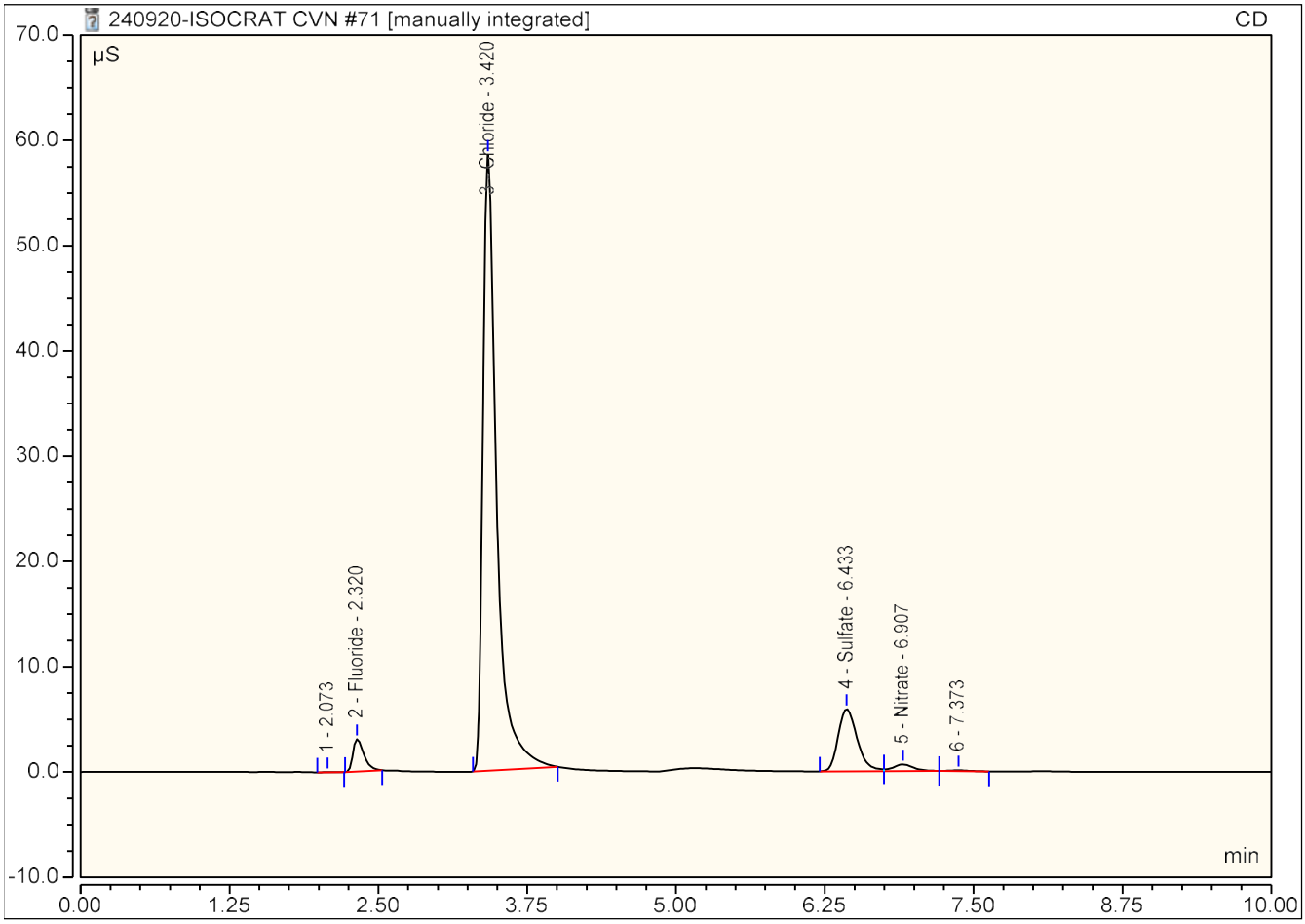
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.001	0.003	0.0454
3	3.42	**Chloride**	BMB*	0.006	0.041	0.2193
4	6.47	**Sulfate**	BM *	0.004	0.021	0.2910
5	6.91	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.07	0.58



Peak Integration Report

Sample Name:	**L2453383-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 21:45**	*Run Time:*	**10.00**

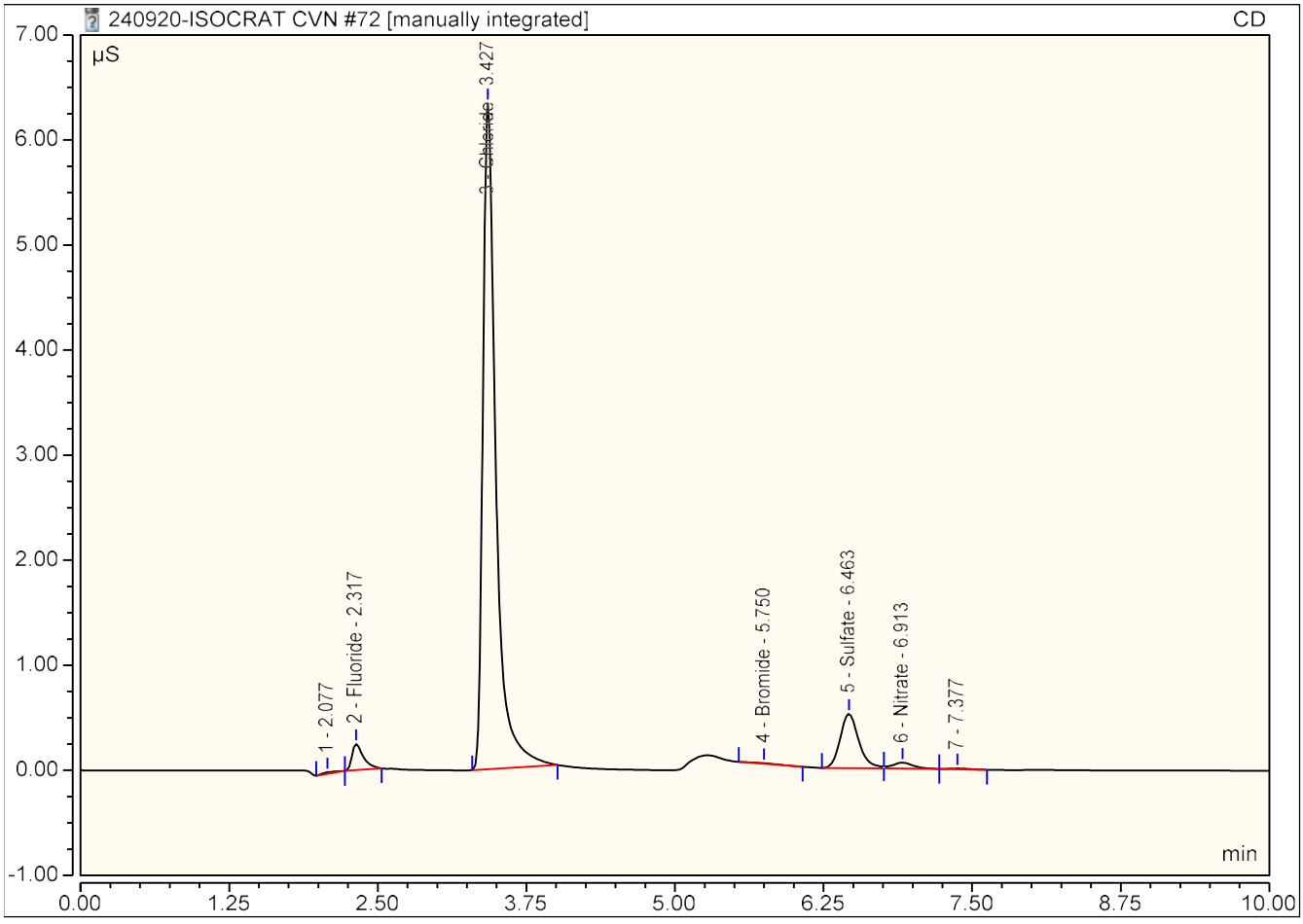
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.329	3.080	0.6438
3	3.42	**Chloride**	BMB*	7.882	58.511	19.4495
4	6.43	**Sulfate**	BM *	1.099	5.918	4.0775
5	6.91	**Nitrate**	Mb*	0.124	0.630	0.1223
TOTAL:				9.43	68.14	24.29



Peak Integration Report

Sample Name:	**XL2453383-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 21:57**	*Run Time:*	**10.00**

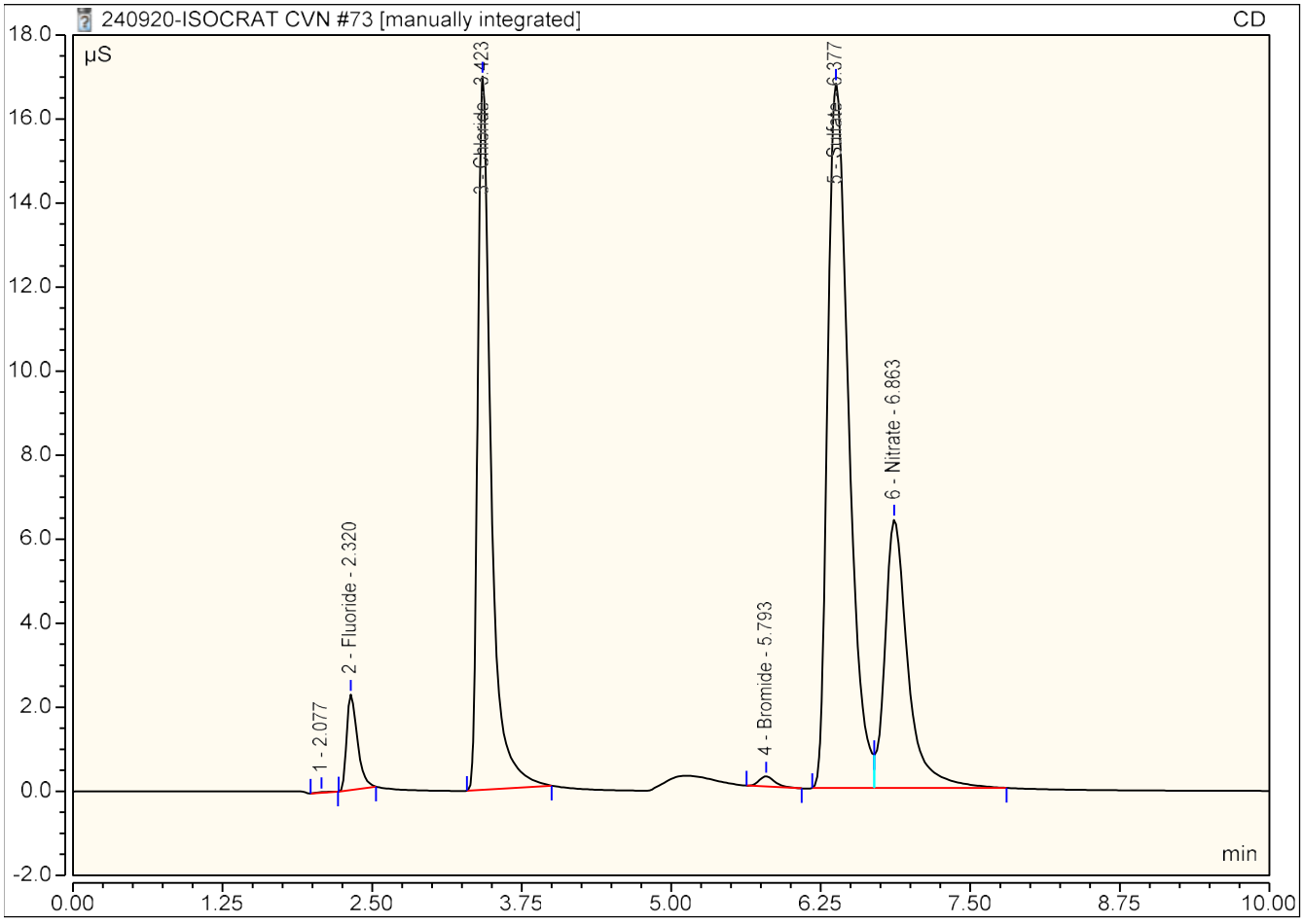
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.028	0.249	0.9496
3	3.43	**Chloride**	BMB*	0.806	6.339	21.7379
4	5.75	**Bromide**	BMB	0.002	0.006	0.4692
5	6.46	**Sulfate**	BM *	0.094	0.517	6.0025
6	6.91	**Nitrate**	Mb*	0.011	0.056	0.3414
TOTAL:				0.94	7.17	29.50



Peak Integration Report

Sample Name:	**L2453058-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 22:09**	*Run Time:*	**10.00**

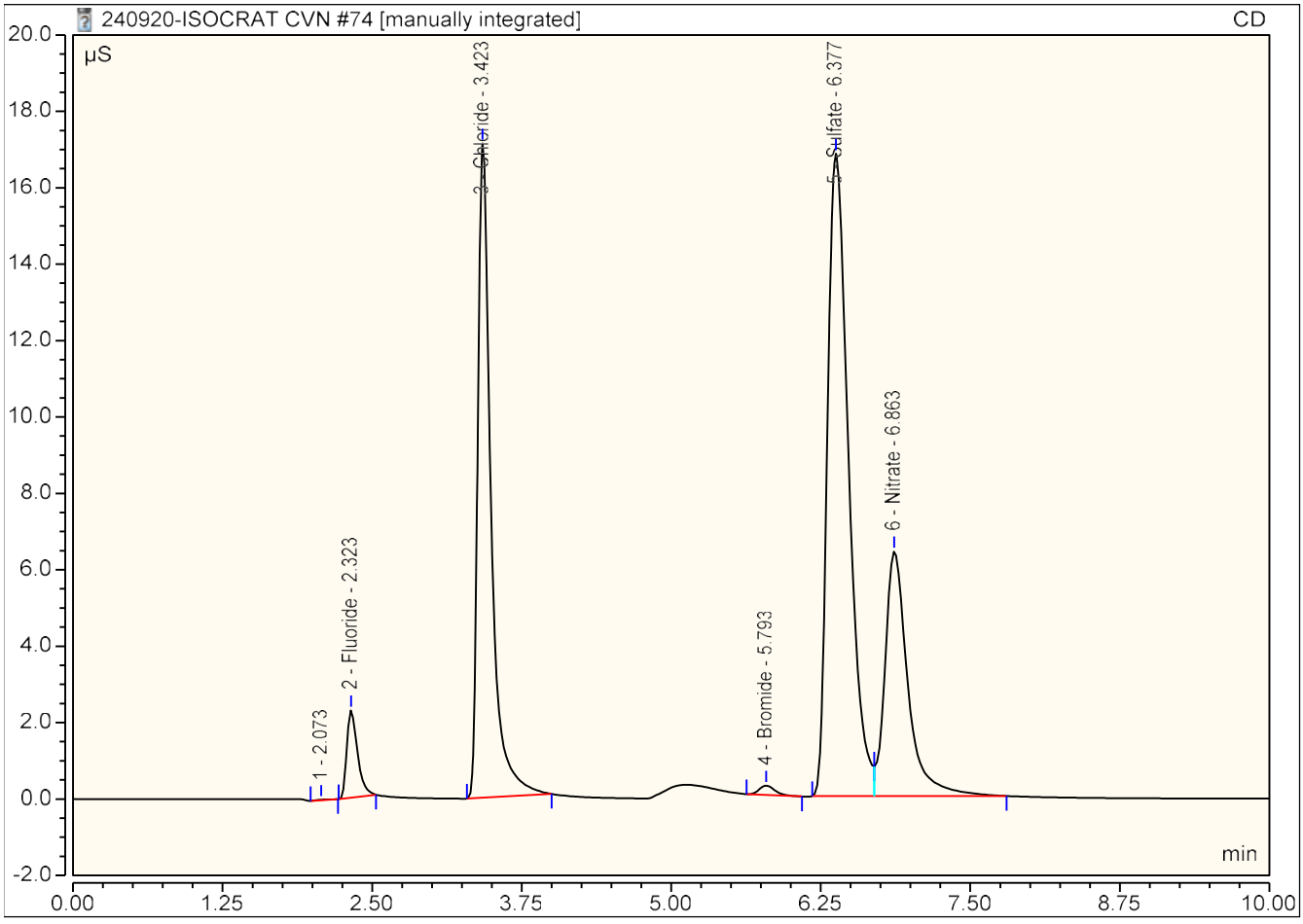
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.236	2.270	0.4755
3	3.42	**Chloride**	BMB*	2.186	16.977	5.5435
4	5.79	**Bromide**	BMB	0.037	0.245	0.3412
5	6.38	**Sulfate**	BM *	3.416	16.758	12.0874
6	6.86	**Nitrate**	MB*	1.421	6.391	1.1389
TOTAL:				7.30	42.64	19.59



Peak Integration Report

Sample Name:	**L2453058-01 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 22:21**	*Run Time:*	**10.00**

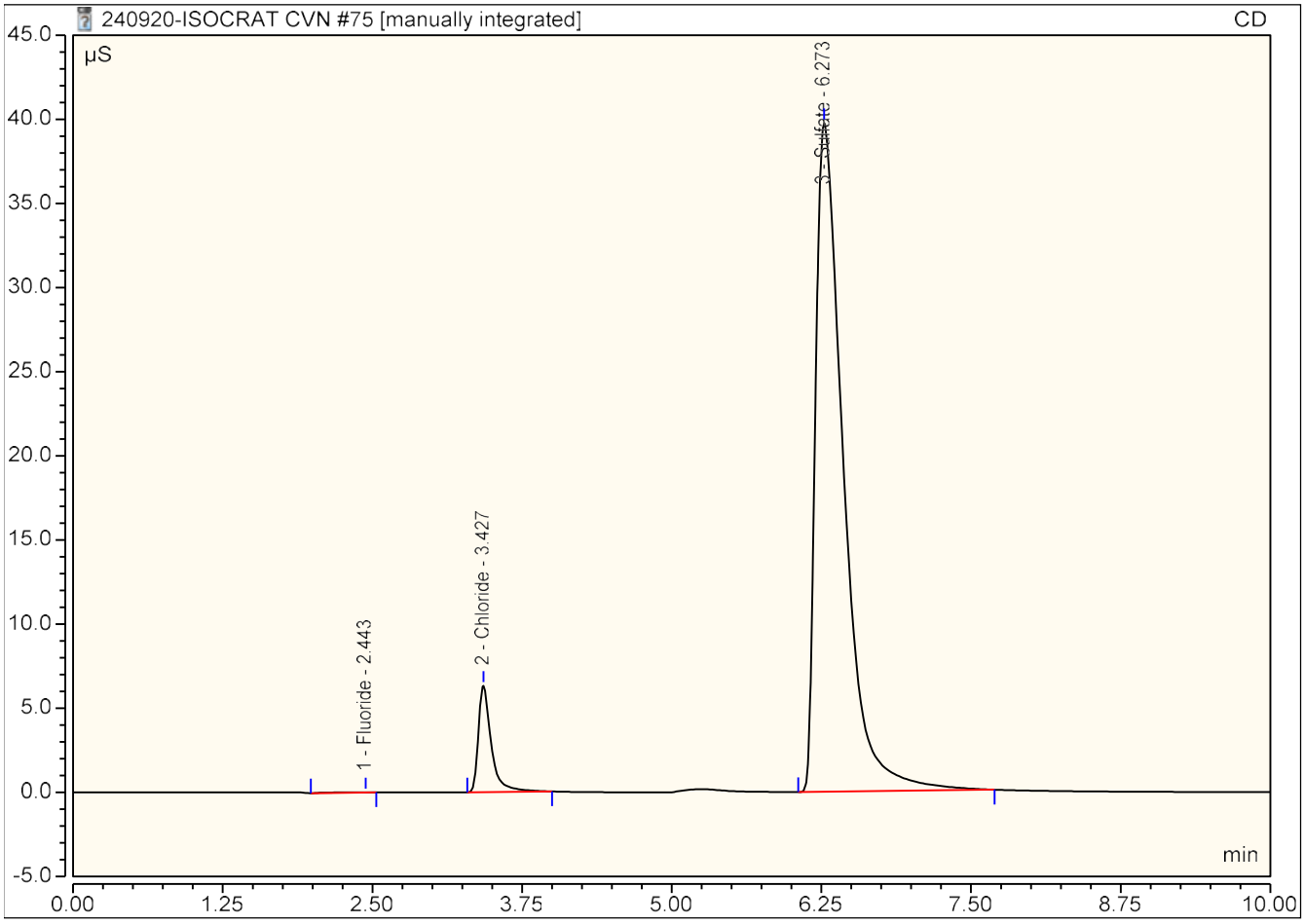
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.237	2.290	0.4772
3	3.42	**Chloride**	BMB*	2.191	17.128	5.5545
4	5.79	**Bromide**	BMB	0.037	0.245	0.3401
5	6.38	**Sulfate**	BM *	3.416	16.812	12.0877
6	6.86	**Nitrate**	MB*	1.421	6.407	1.1390
TOTAL:				7.30	42.88	19.60



Peak Integration Report

Sample Name:	**L2453985-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 22:33**	*Run Time:*	**10.00**

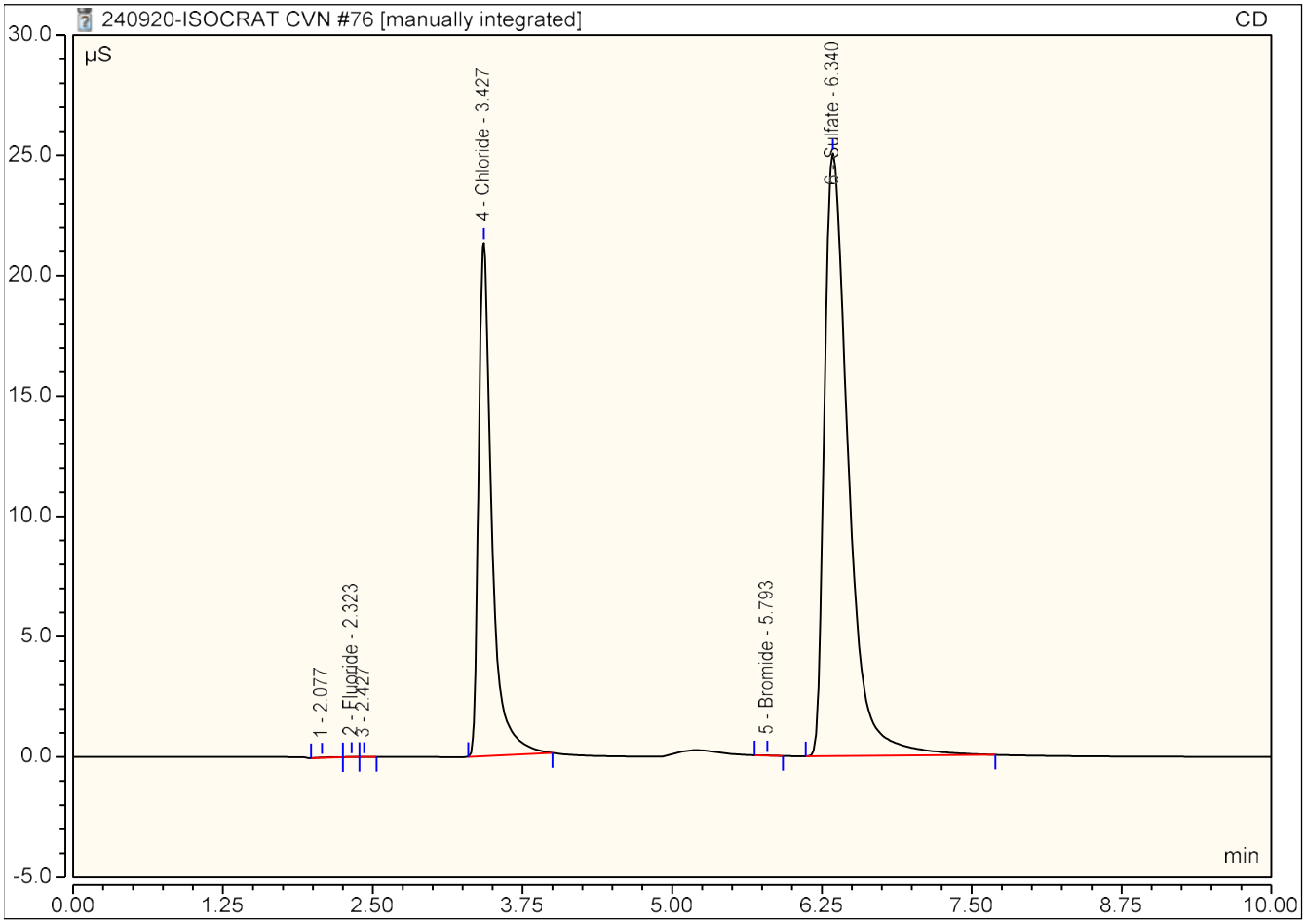
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.44	**Fluoride**	BMB	0.009	0.014	1.5411
2	3.43	**Chloride**	BMB*	0.791	6.321	53.4003
3	6.27	**Sulfate**	BMB	10.692	39.734	931.1507
TOTAL:				11.49	46.07	986.09



Peak Integration Report

Sample Name:	**L2453985-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 22:45**	*Run Time:*	**10.00**

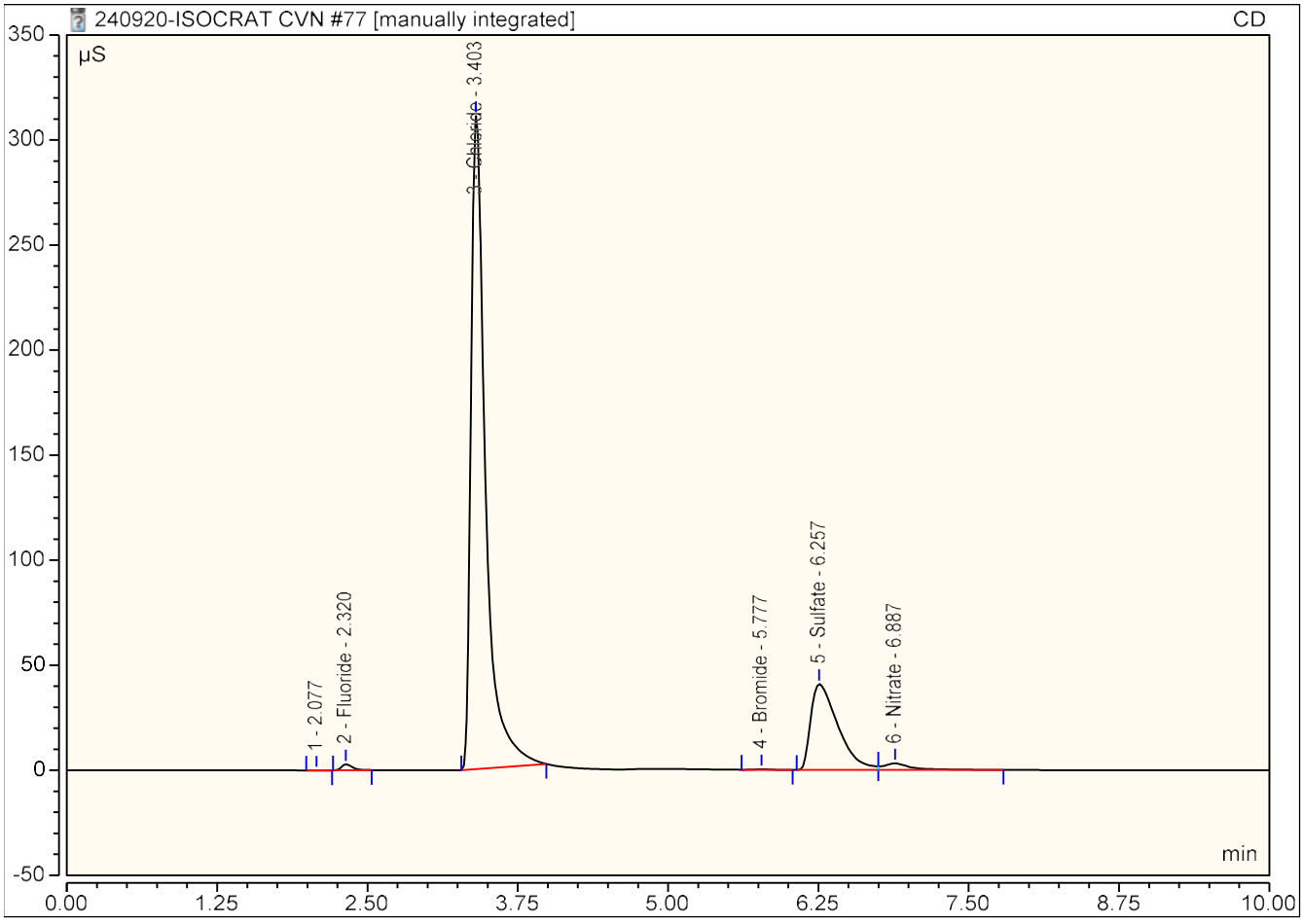
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.009	0.4571
4	3.43	**Chloride**	BMB*	2.755	21.332	69.3248
5	5.79	**Bromide**	BMB	0.001	0.005	0.3719
6	6.34	**Sulfate**	BMB	5.821	25.044	204.0383
TOTAL:				8.58	46.39	274.19



Peak Integration Report

Sample Name:	**L2453985-04 MS NO3 SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 22:57**	*Run Time:*	**10.00**

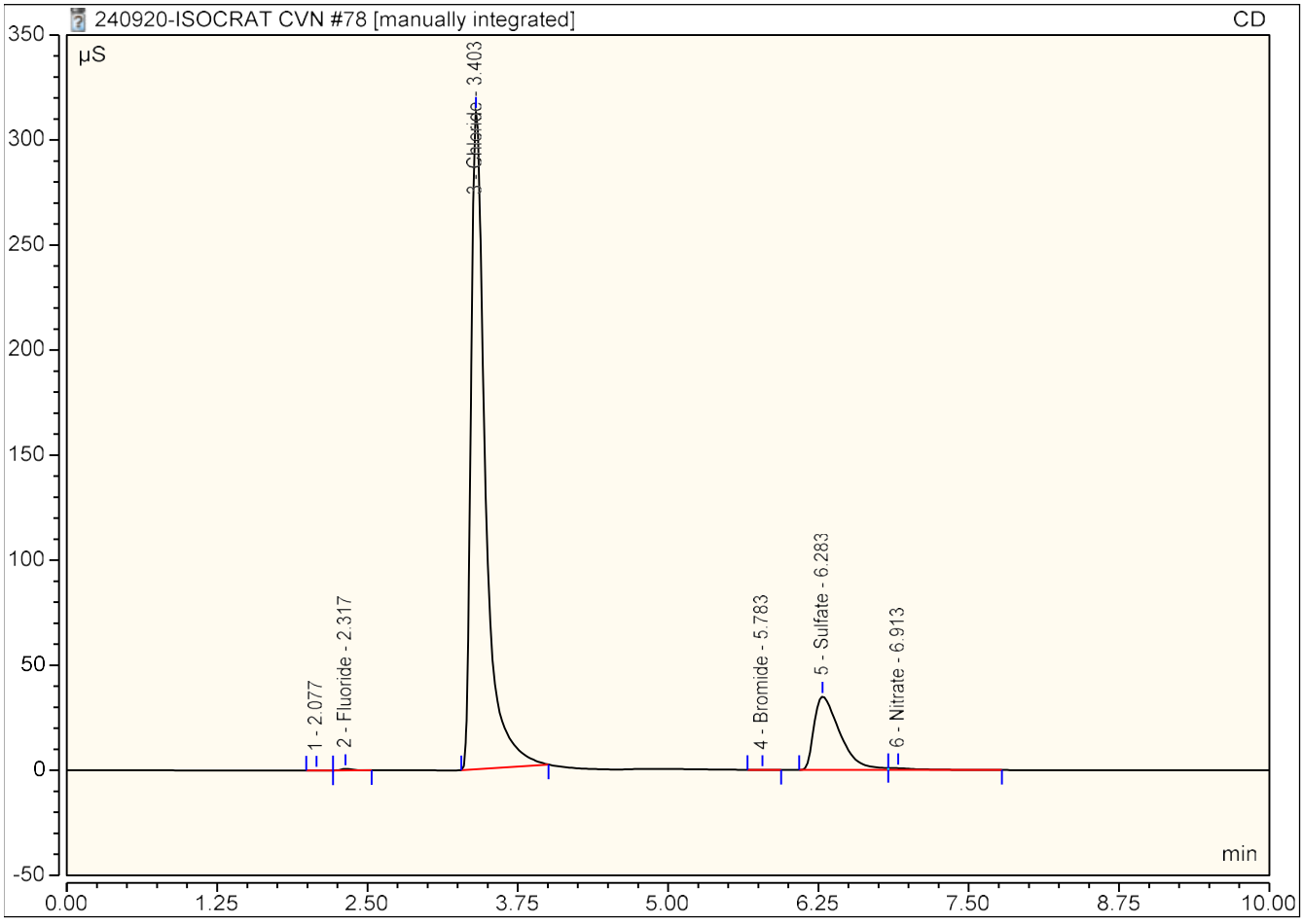
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.294	2.781	0.5809
3	3.40	**Chloride**	BMB*	43.587	310.756	106.6225
4	5.78	**Bromide**	BMB	0.041	0.276	0.3769
5	6.26	**Sulfate**	BM *	10.678	40.848	37.1980
6	6.89	**Nitrate**	MB*	0.841	3.115	0.6841
TOTAL:				55.44	357.78	145.46



Peak Integration Report

Sample Name:	**L2453985-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 23:09**	*Run Time:*	**10.00**

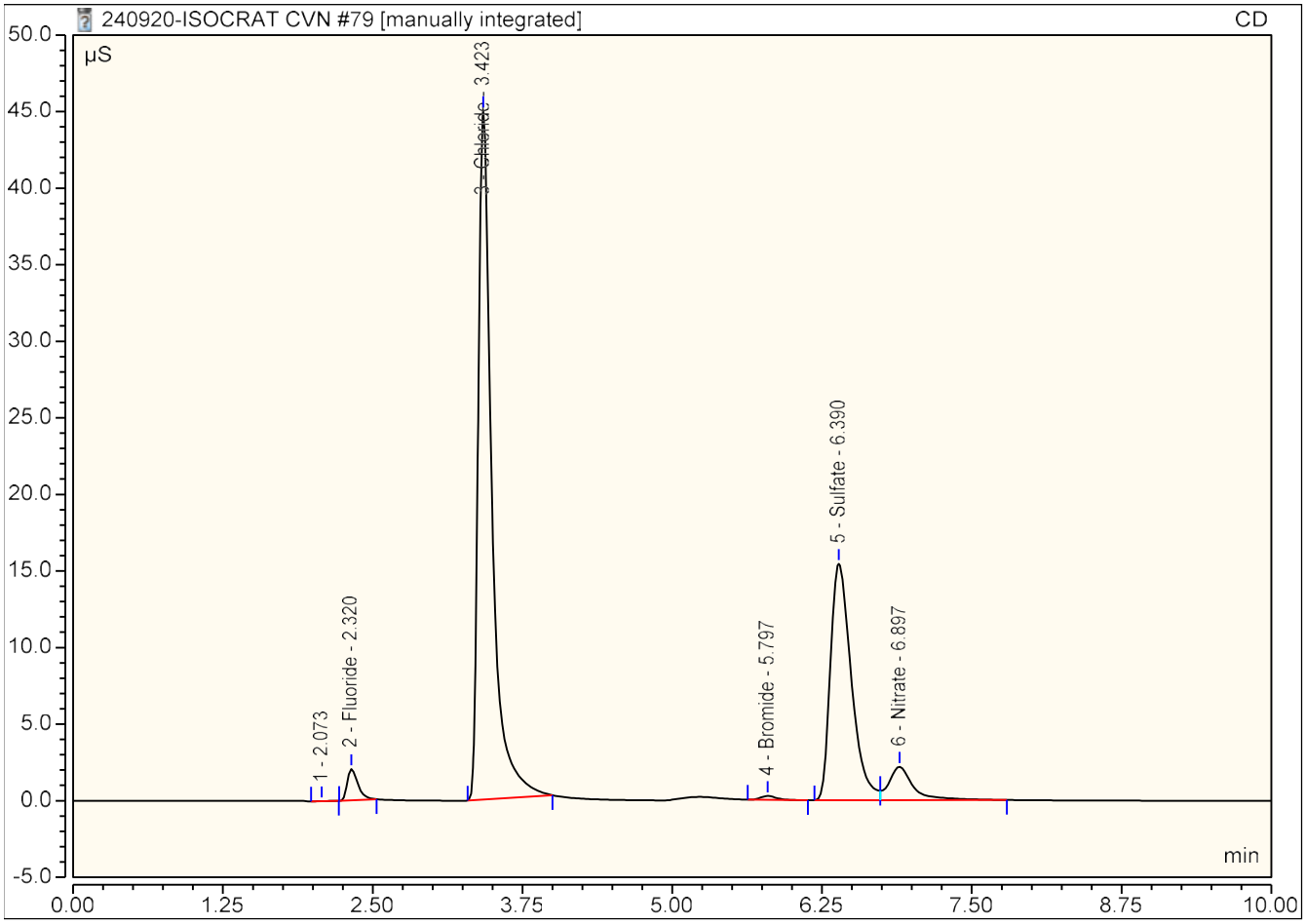
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.073	0.700	0.1784
3	3.40	**Chloride**	BMB*	43.804	312.978	107.1522
4	5.78	**Bromide**	BMB	0.002	0.019	0.0521
5	6.28	**Sulfate**	BM *	8.708	34.967	30.3863
6	6.91	**Nitrate**	MB*	0.272	0.888	0.2388
TOTAL:				52.86	349.55	138.01



Peak Integration Report

Sample Name:	**L2453985-04 MS; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 23:21**	*Run Time:*	**10.00**

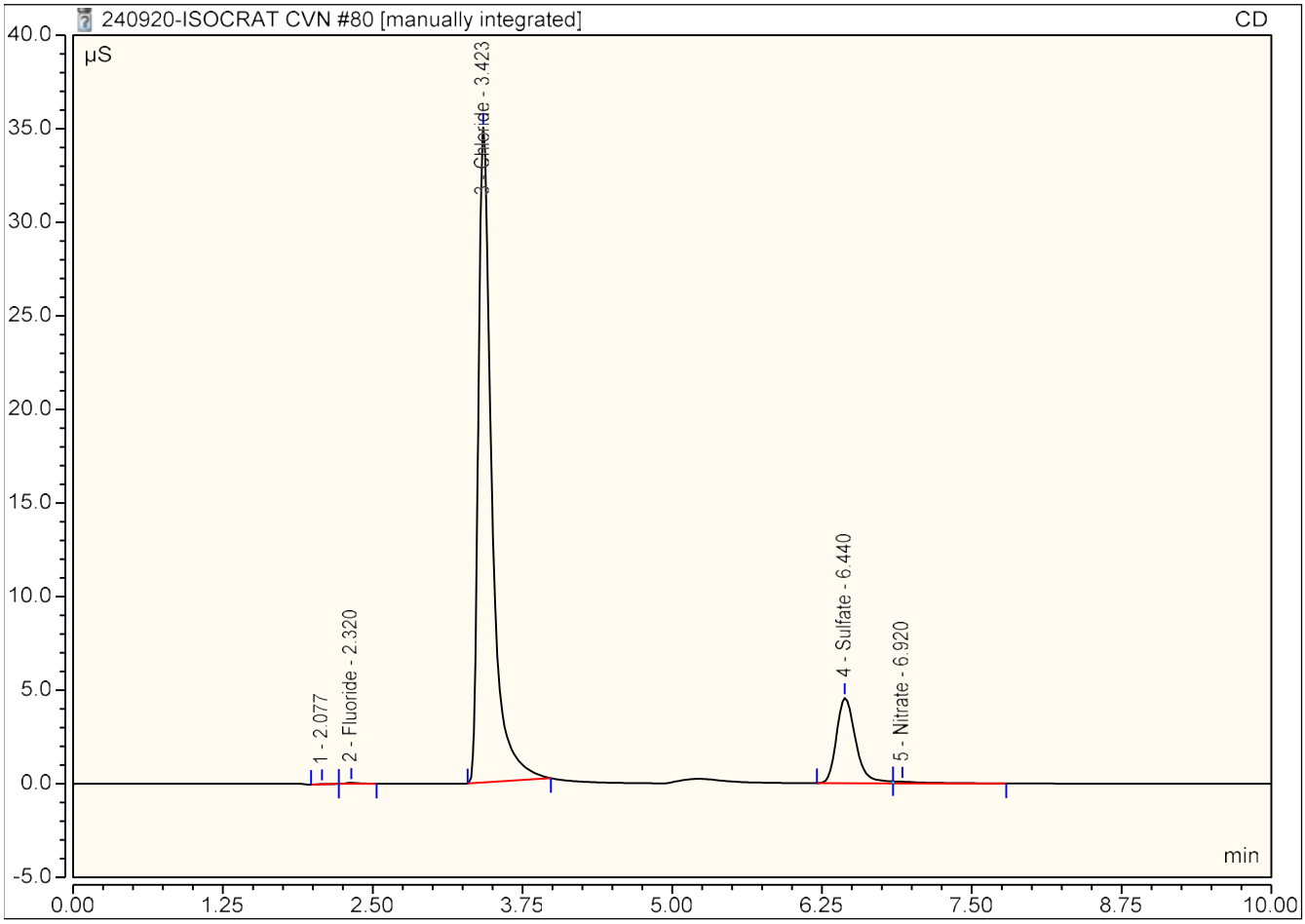
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.212	2.056	4.3034
3	3.42	**Chloride**	BMB*	5.945	44.957	147.1985
4	5.80	**Bromide**	BMB	0.039	0.256	3.5986
5	6.39	**Sulfate**	BM *	3.114	15.431	110.4208
6	6.90	**Nitrate**	MB*	0.509	2.181	4.2436
TOTAL:				9.82	64.88	269.76



Peak Integration Report

Sample Name:	**L2453985-04 DUP; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 23:33**	*Run Time:*	**10.00**

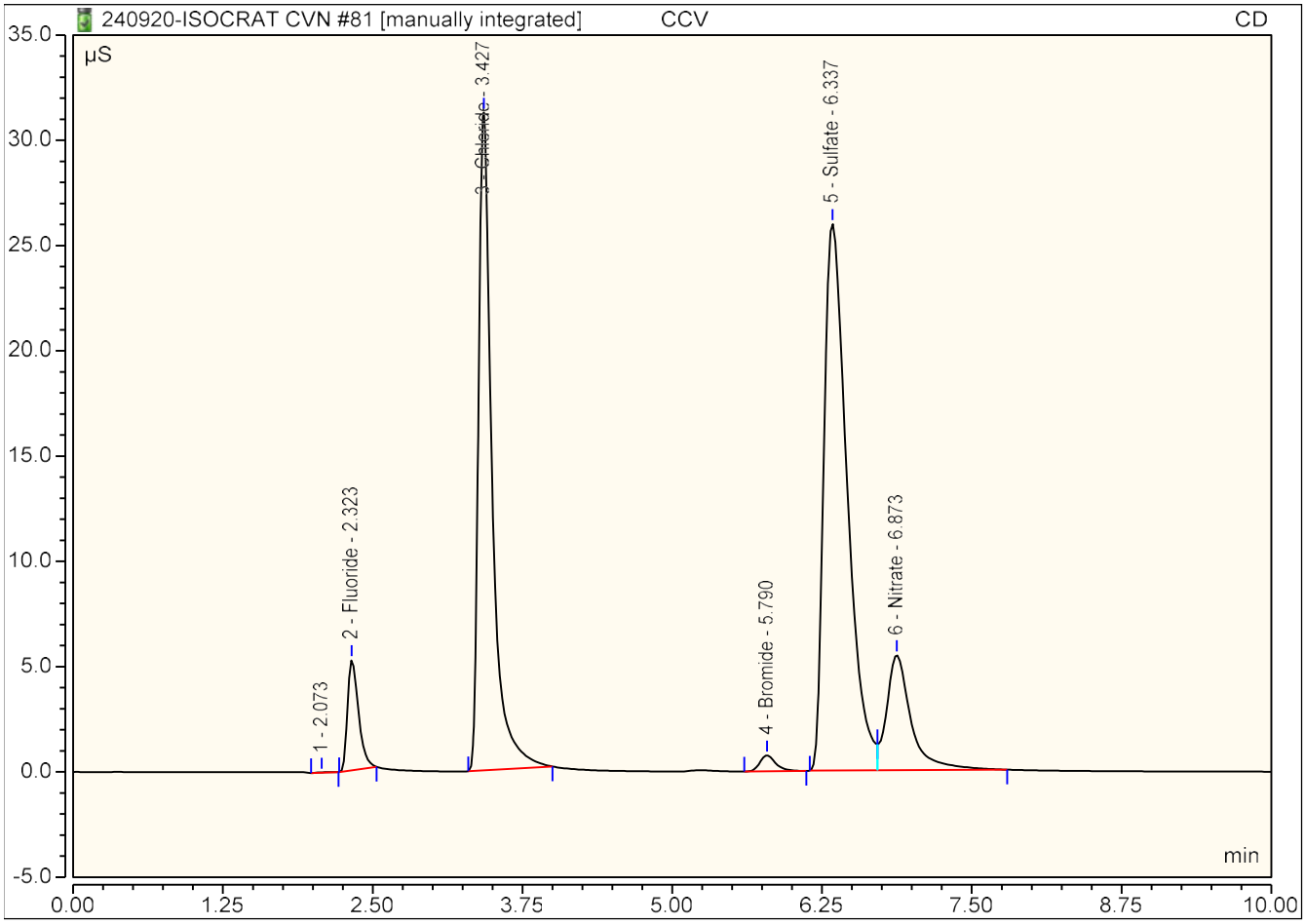
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.062	0.5740
3	3.42	**Chloride**	BMB*	4.593	34.992	114.2018
4	6.44	**Sulfate**	BM *	0.848	4.560	32.0972
5	6.92	**Nitrate**	MB*	0.029	0.091	0.4767
TOTAL:				5.48	39.70	147.35



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 23:45**	*Run Time:*	**10.00**

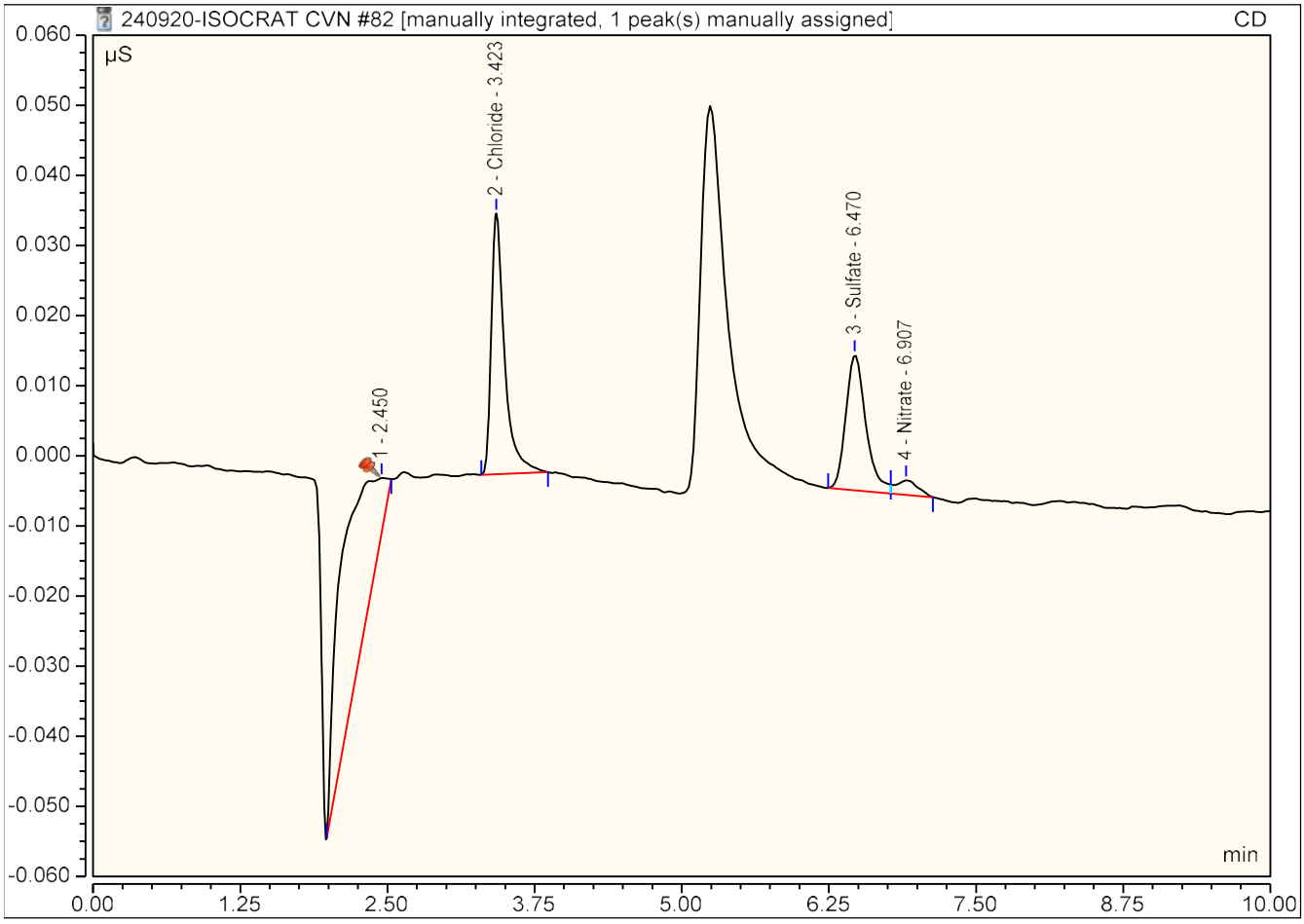
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.556	5.248	1.0587
3	3.43	**Chloride**	BMB*	4.097	31.251	10.2072
4	5.79	**Bromide**	BMB	0.117	0.759	1.0073
5	6.34	**Sulfate**	BM *	5.835	25.960	20.4529
6	6.87	**Nitrate**	MB*	1.292	5.471	1.0383
TOTAL:				11.90	68.69	33.76



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Sep-2024 / 23:57**	*Run Time:*	**10.00**

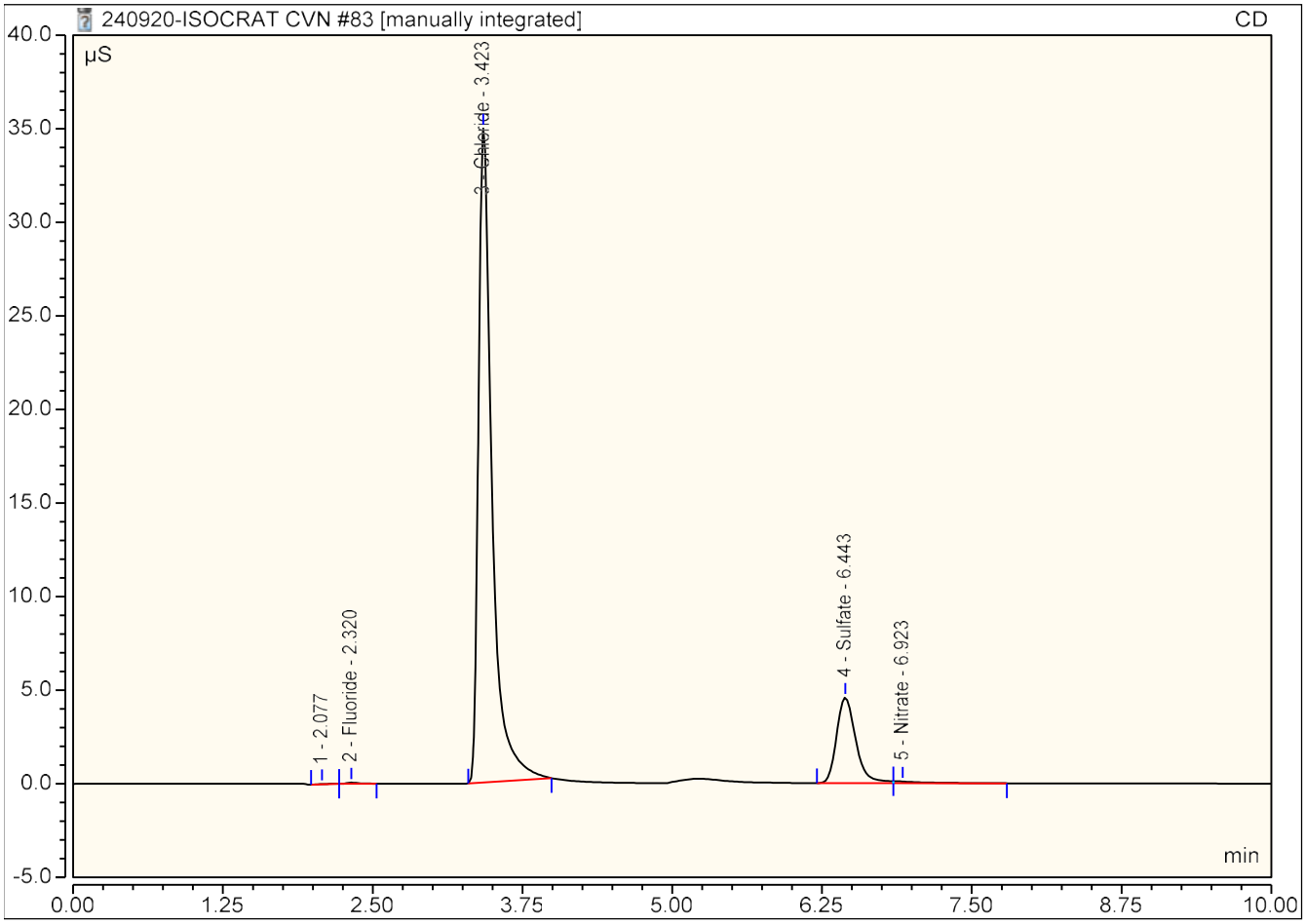
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.005	0.037	0.2174
3	6.47	**Sulfate**	BM *	0.004	0.019	0.2897
4	6.91	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.53



Peak Integration Report

Sample Name:	**L2453985-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 00:10**	*Run Time:*	**10.00**

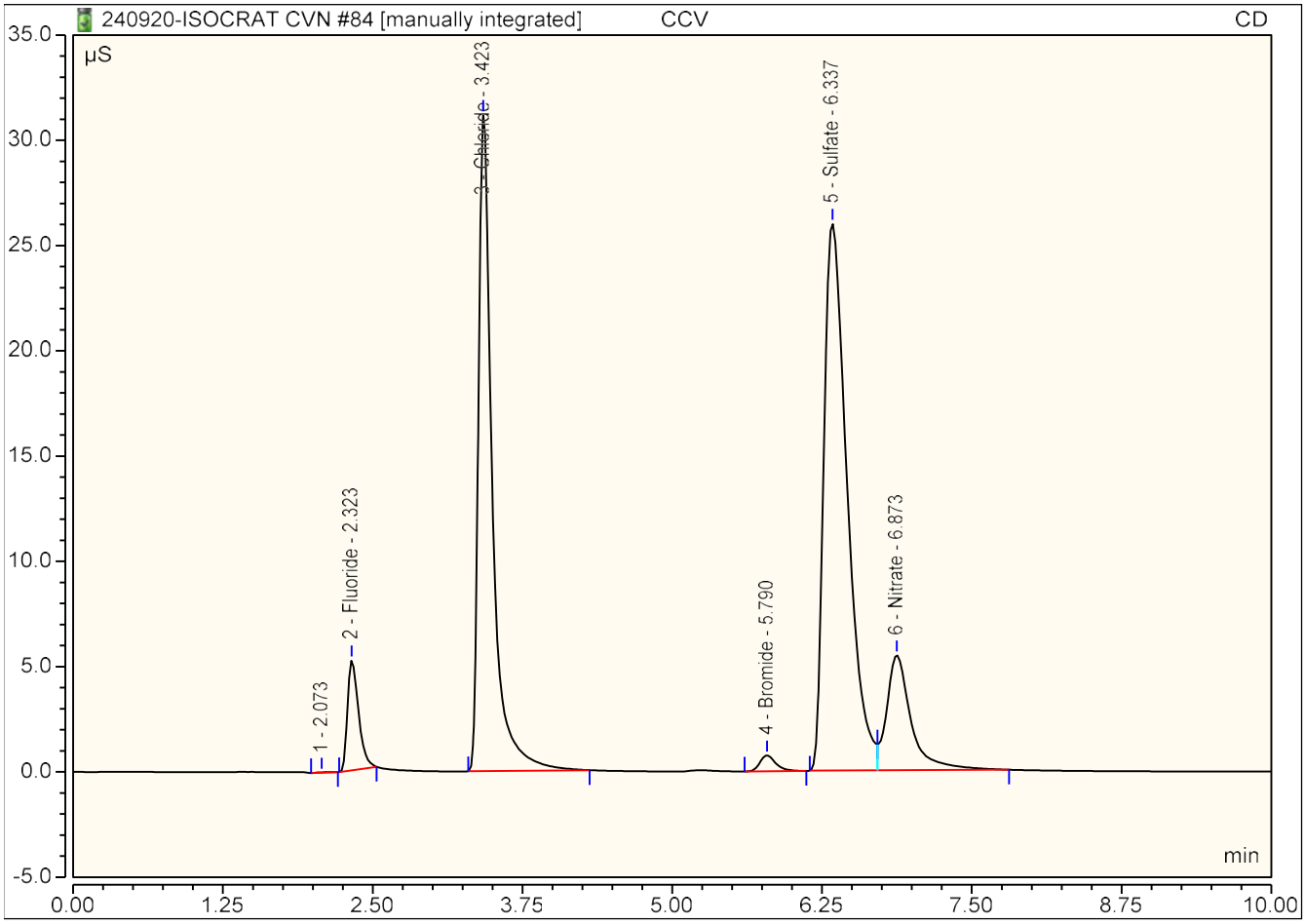
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.060	0.5703
3	3.42	**Chloride**	BMB*	4.594	34.942	114.2133
4	6.44	**Sulfate**	BM *	0.850	4.564	32.1693
5	6.92	**Nitrate**	MB*	0.028	0.090	0.4740
TOTAL:				5.48	39.66	147.43



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 00:22**	*Run Time:*	**10.00**

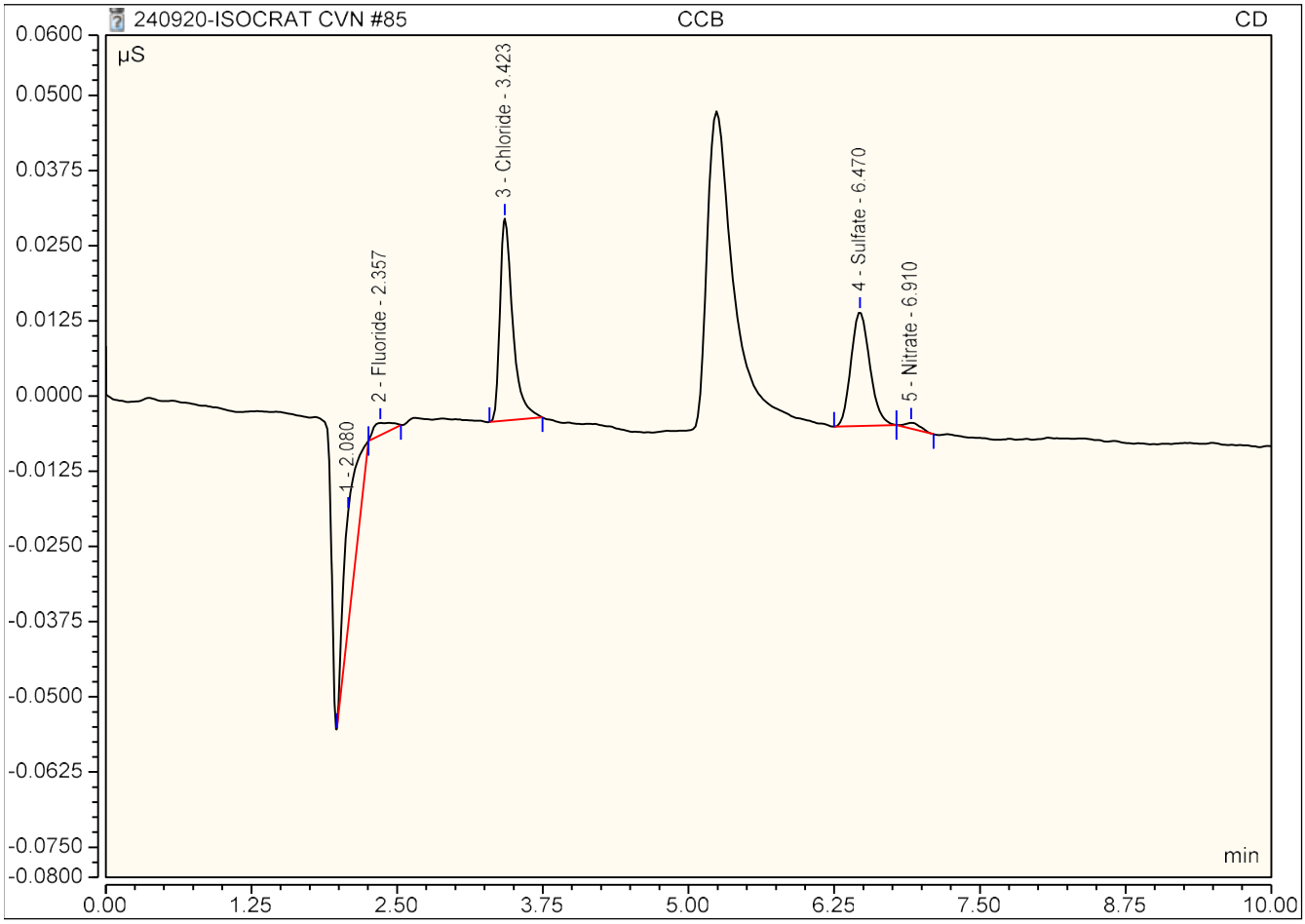
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.556	5.229	1.0580
3	3.42	**Chloride**	BMB*	4.178	31.173	10.4060
4	5.79	**Bromide**	BMB	0.117	0.758	1.0073
5	6.34	**Sulfate**	BM *	5.838	25.973	20.4603
6	6.87	**Nitrate**	MB*	1.288	5.468	1.0349
TOTAL:				11.98	68.60	33.97



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 00:34**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.36	**Fluoride**	BMB	0.000	0.002	0.0451
3	3.42	**Chloride**	BMB	0.004	0.034	0.2160
4	6.47	**Sulfate**	BMB	0.004	0.019	0.2888
5	6.91	**Nitrate**	BMB	0.000	0.001	0.0254
TOTAL:				0.01	0.06	0.58



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2129	n.a.	0.2810	n.a.
2	STD 0.5	1.0	0.0592	0.3873	0.0442	0.6237	0.0525
3	STD 1.0	1.0	0.0738	0.5947	0.0646	1.0491	0.0753
4	STD 2.0	1.0	0.1840	1.9971	0.1868	3.9561	0.1890
5	STD 3.0	1.0	0.4607	4.9336	0.4717	9.9320	0.4440
6	STD 4.0	1.0	1.9885	19.7203	2.0078	39.8861	2.0141
7	STD 5.0	1.0	5.0087	50.1170	5.2021	100.0530	5.2575
8	RINSE	1.0	0.0574	0.2167	n.a.	0.2805	n.a.
9	CCV	1.0	1.0451	10.0941	1.0419	20.2391	1.0174
10	CCB	1.0	n.a.	0.2174	0.0256	0.2843	n.a.
11	ICV	1.0	0.8593	8.3357	0.7476	8.1139	0.8235
12	ICB	1.0	n.a.	0.2182	0.0256	0.2836	n.a.
13	BLK	1.0	n.a.	0.2195	n.a.	0.2807	n.a.
14	LCS	1.0	0.8666	8.3768	0.7406	8.1675	0.8232
15	L2453053-01 BR MS	1.0	0.4868	5.5569	1.1284	12.2323	0.3547
16	L2453053-01 MSD	1.0	0.4873	5.5630	1.1228	12.2534	0.3553
17	L2453053-01	1.0	0.0944	1.5364	0.7151	4.1565	n.a.
18	L2453053-02	1.0	0.0618	9.3844	1.0809	17.8456	0.0668
19	L2453053-03	1.0	0.0601	5.5166	0.6480	7.4978	0.0437
20	L2453053-04	1.0	0.0752	14.8191	0.5180	27.4834	n.a.
21	CCV	1.0	1.0575	10.1694	1.0398	20.4161	1.0038
22	CCB	1.0	n.a.	0.2177	0.0255	0.2835	n.a.
23	L2453053-05	1.0	0.0617	9.5096	1.0947	18.1098	0.0664
24	L2453342-01 BR	1.0	0.0933	21.0882	0.5300	15.6990	0.0441
25	L2453342-02	1.0	0.0774	14.1236	1.0316	42.2995	0.0651
26	L2453342-03	1.0	0.0567	27.6154	2.0814	13.8598	0.0416
27	L2453342-04	1.0	0.0659	3.3049	n.a.	42.5626	n.a.
28	L2453342-05	1.0	0.0927	7.6745	0.1612	21.4740	0.0485
29	L2453342-06 MS	1.0	0.4198	5.5950	0.5673	9.9030	0.3560
30	L2453342-06 MSD	1.0	0.4199	5.5869	0.5676	9.8624	0.3547
31	L2453342-06	1.0	0.0564	1.6945	0.1781	1.9668	n.a.
32	L2453342-07	1.0	0.0814	16.5523	1.6323	17.9245	0.0453
33	CCV	1.0	1.0597	10.1722	1.0362	20.4383	1.0069
34	CCB	1.0	n.a.	0.2193	0.0256	0.2848	n.a.
35	L2453342-08	1.0	0.1145	10.2015	0.9376	28.2230	0.0401
36	L2453342-10	1.0	n.a.	0.2214	0.0260	0.2894	n.a.
37	L2453250-01 BR CL SO4	1.0	0.1337	247.2077	0.3949	49.2784	0.1955
38	L2453250-01; 10X	10.0	0.5188	275.8528	n.a.	55.5150	n.a.
39	L2453058-01 CL SO4 BR	1.0	0.0961	1.7085	0.7453	4.3049	n.a.
40	L2453058-02	1.0	0.1235	22.7801	1.2980	18.0996	n.a.
41	L2453058-03	1.0	0.1237	22.8251	1.2960	18.1147	n.a.
42	XL2453985-01 CL SO4 NO3	1.0	0.0717	65.0129	n.a.	189.9967	0.0403
43	XL2453985-02	1.0	n.a.	53.6439	10.7924	882.8567	n.a.
44	L2453985-04	1.0	0.1828	107.4539	0.2374	30.5639	0.0511
45	CCV	1.0	1.0682	10.2266	1.0383	20.5060	1.0121

46	CCB	1.0	n.a.	0.2230	0.0258	0.2959	n.a.
47	BLK-2	1.0	n.a.	0.2221	n.a.	0.2889	n.a.
48	LCS-2	1.0	0.8660	8.3482	0.7383	8.1306	0.8184
49	XL2453433-01 CL	1.0	0.2159	151.8308	n.a.	12.4674	0.5377
50	L2453433-01; 10X	10.0	0.6233	172.3261	n.a.	14.5484	0.7120
51	XL2453433-02	1.0	0.4528	265.1267	0.1718	2.7463	0.3905
52	L2453433-02; 10X	10.0	0.7966	293.0261	0.3690	4.8835	0.5736
53	L2453399-01 BR CL SO4	1.0	0.0549	33.6121	2.9123	27.6803	n.a.
54	L2453399-02 MS	1.0	0.4479	21.7286	6.1144	30.1670	0.3877
55	L2453399-02 MSD	1.0	0.4483	21.7584	6.1270	30.2764	0.3881
56	L2453399-02	1.0	0.0734	18.3268	5.8884	23.0202	n.a.
57	CCV	1.0	1.0653	10.2101	1.0315	20.5503	1.0106
58	CCB	1.0	n.a.	0.2130	0.0257	0.2851	n.a.
59	L2453399-03	1.0	0.0568	32.6692	0.4055	3.2417	0.0570
60	L2453399-04	1.0	0.0781	7.5167	n.a.	4.5938	0.0415
61	L2443399-05	1.0	0.0701	3.7859	n.a.	0.9136	0.0351
62	L2453400-01 BR CL SO4	1.0	0.0557	166.9800	n.a.	71.1172	0.0832
63	L2453400-01; 10X	10.0	0.4480	186.3504	n.a.	78.0160	0.3429
64	L2453400-02	1.0	0.0476	167.2335	n.a.	71.1954	0.0853
65	L2453400-02; 10X	10.0	0.4686	197.1201	n.a.	82.8044	n.a.
66	L2453400-03	1.0	0.0786	252.1996	0.1680	14.1225	n.a.
67	L2453400-03; 10X	10.0	0.4895	294.8066	0.3969	16.8185	0.3369
68	L2453400-04	1.0	n.a.	0.2219	0.0256	0.2863	n.a.
69	CCV	1.0	1.0532	10.1966	1.0340	20.4166	1.0030
70	CCB	1.0	0.0454	0.2193	0.0256	0.2910	n.a.
71	L2453383-01 CL SO4	1.0	0.6438	19.4495	0.1223	4.0775	n.a.
72	XL2453383-01; 10X	10.0	0.9496	21.7379	0.3414	6.0025	0.4692
73	L2453058-01 MS	1.0	0.4755	5.5435	1.1389	12.0874	0.3412
74	L2453058-01 MSD	1.0	0.4772	5.5545	1.1390	12.0877	0.3401
75	L2453985-02; 25X	25.0	1.5411	53.4003	n.a.	931.1507	n.a.
76	L2453985-01; 10X	10.0	0.4571	69.3248	n.a.	204.0383	0.3719
77	L2453985-04 MS NO3 SO4	1.0	0.5809	106.6225	0.6841	37.1980	0.3769
78	L2453985-04 DUP	1.0	0.1784	107.1522	0.2388	30.3863	0.0521
79	L2453985-04 MS; 10X CL	10.0	4.3034	147.1985	4.2436	110.4208	3.5986
80	L2453985-04 DUP; 10X	10.0	0.5740	114.2018	0.4767	32.0972	n.a.
81	CCV	1.0	1.0587	10.2072	1.0383	20.4529	1.0073
82	CCB	1.0	n.a.	0.2174	0.0256	0.2897	n.a.
83	L2453985-04; 10X	10.0	0.5703	114.2133	0.4740	32.1693	n.a.
84	CCV	1.0	1.0580	10.4060	1.0349	20.4603	1.0073
85	CCB	1.0	0.0451	0.2160	0.0254	0.2888	n.a.
	Sum:	208.000	38.6932		78.9515	3800.0967	30.2567
	Average:	2.447	0.5374		1.1611	44.7070	0.5709
	Rel.Std.Dev:	160.083 %	1.5180		1.5850	3.1142	1.5538

Inject Time	Comment
05/Sep/2024 16:08	AU
05/Sep/2024 16:20	LOT#240905-0.5
05/Sep/2024 16:33	LOT#240905-1.0
05/Sep/2024 16:45	LOT#240905-2.0
05/Sep/2024 16:57	LOT#240905-3.0
05/Sep/2024 17:09	LOT#240905-4.0
05/Sep/2024 17:21	LOT#240905-5.0
20/Sep/2024 09:03	4321-4201-4405-4208-4204
20/Sep/2024 09:15	LOT#240916-C
20/Sep/2024 09:27	CVN
20/Sep/2024 09:39	LOT#240916-I
20/Sep/2024 09:51	CVN
20/Sep/2024 10:03	CVN
20/Sep/2024 10:16	LOT#240916-I
20/Sep/2024 10:28	CVN
20/Sep/2024 10:40	CVN
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21/Sep/2024 00:22	LOT#240916-C
21/Sep/2024 00:34	CVN
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Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-10S	**Matrix**	: WATER
Lab Sample ID	: L2453342-06		
Matrix Spike	: WG1974208-3	**MS Analysis Date**	: 09/20/24 13:17
Matrix Spike Dup	: WG1974208-4	**MSD Analysis Date**	: 09/20/24 13:29

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.356	88	Q	0.4	0.355	88	Q	0	90-110	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453342
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974208-2	**LCS Analysis Date**	: 09/20/24 17:06
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Bromide	0.800	0.818	102.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 01, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2453342
Pace Project No.: 50382967

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2453342
Pace Project No.: 50382967

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2453342
Pace Project No.: 50382967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50382967001	**MP-1**	Water	09/17/24 10:51	09/20/24 09:35
50382967002	**MP-1D**	Water	09/17/24 11:30	09/20/24 09:35
50382967003	**MW-13D**	Water	09/17/24 08:25	09/20/24 09:35
50382967004	**MW-13S**	Water	09/17/24 08:23	09/20/24 09:35
50382967005	**MW-10D**	Water	09/17/24 09:25	09/20/24 09:35
50382967006	**MW-10S**	Water	09/17/24 09:21	09/20/24 09:35
50382967007	**MW-6D**	Water	09/17/24 13:00	09/20/24 09:35
50382967008	**PZ-6**	Water	09/17/24 12:55	09/20/24 09:35
50382967009	**Equipment Blank**	Water	09/17/24 00:00	09/20/24 09:35

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SAMPLE ANALYTE COUNT

Project: L2453342
Pace Project No.: 50382967

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50382967001	**MP-1**	EPA 9056	ADM	1
50382967002	**MP-1D**	EPA 9056	ADM	1
50382967003	**MW-13D**	EPA 9056	ADM	1
50382967004	**MW-13S**	EPA 9056	ADM	1
50382967005	**MW-10D**	EPA 9056	ADM	1
50382967006	**MW-10S**	EPA 9056	ADM	1
50382967007	**MW-6D**	EPA 9056	ADM	1
50382967008	**PZ-6**	EPA 9056	ADM	1
50382967009	**Equipment Blank**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MP-1 **Lab ID: 50382967001** Collected: 09/17/24 10:51 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 11:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MP-1D **Lab ID: 50382967002** Collected: 09/17/24 11:30 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 12:50		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MW-13D **Lab ID: 50382967003** Collected: 09/17/24 08:25 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 13:06		

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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MW-13S **Lab ID: 50382967004** Collected: 09/17/24 08:23 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 13:23		

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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MW-10D **Lab ID: 50382967005** Collected: 09/17/24 09:25 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 13:40		

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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MW-10S **Lab ID: 50382967006** Collected: 09/17/24 09:21 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 13:57		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: MW-6D **Lab ID: 50382967007** Collected: 09/17/24 13:00 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 14:14		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: PZ-6 **Lab ID: 50382967008** Collected: 09/17/24 12:55 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 14:31		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 50382967

Sample: Equipment Blank **Lab ID: 50382967009** Collected: 09/17/24 00:00 Received: 09/20/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		09/29/24 14:48		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2453342
Pace Project No.: 50382967

QC Batch: 810131 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382967001, 50382967002, 50382967003, 50382967004, 50382967005, 50382967006, 50382967007, 50382967008, 50382967009

METHOD BLANK: 3706163 Matrix: Water
Associated Lab Samples: 50382967001, 50382967002, 50382967003, 50382967004, 50382967005, 50382967006, 50382967007, 50382967008, 50382967009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	09/29/24 09:27	

LABORATORY CONTROL SAMPLE: 3706164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706165 3706166

Parameter	Units	50382767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.0	5.0	101	100	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2453342
Pace Project No.: 50382967

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2453342
Pace Project No.: 50382967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50382967001	**MP-1**	EPA 9056	810131		
50382967002	**MP-1D**	EPA 9056	810131		
50382967003	**MW-13D**	EPA 9056	810131		
50382967004	**MW-13S**	EPA 9056	810131		
50382967005	**MW-10D**	EPA 9056	810131		
50382967006	**MW-10S**	EPA 9056	810131		
50382967007	**MW-6D**	EPA 9056	810131		
50382967008	**PZ-6**	EPA 9056	810131		
50382967009	**Equipment Blank**	EPA 9056	810131		

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pg 1 of 2

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

WO# : 50382967

50382967

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

State/Federal Program:

Regulatory Criteria:

Turnaround & Deliverables Information

Due Date:
Deliverables:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2453342

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MP-1	09-17-24 10:51	WATER	Iodide 001	
	MP-1D	09-17-24 11:30	WATER	Iodide 002	
	MW-13D	09-17-24 08:25	WATER	Iodide 003	
	MW-13S	09-17-24 08:23	WATER	Iodide 004	
	MW-10D	09-17-24 09:25	WATER	Iodide 005	
	MW-10S	09-17-24 09:21	WATER	Iodide 006	MS;MSD
	MW-6D	09-17-24 13:00	WATER	Iodide 007	
	PZ-6	09-17-24 12:55	WATER	Iodide 008	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		9/19/24	Fed ex	
	Fed ex	9/20/24 9.35	Fabiola Schelin Pace	9/20/24 9.35
Form No: AL_subcoc				

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2453342

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2453342

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EQUIPMENT BLANK	09-17-24 00:00	Equipment Blank	1,4-Dioxane	009

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		9/19/24	Fed ex	
	Fed ex	9/20/24 9:35	Tabitha Schuller Pace	9/20/24 9:35
Form No: AL_subcoc				

F-IN-Q-290-rev.28, 29Jul2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/20/24 10:55 TS

1. **Courier:** ☑ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I
4. **Cooler Temperature(s):** 2.0 / 2.0 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																		1											2
2																													
3																													
4																													
5																													
6																													
7																													
8																		↓											↓
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																		I										SL
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	AG3U	250mL unpres amber glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	AG3B	250mL NaOH amber glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass		
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass		
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass		
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass		
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass		
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass		
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass		
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered		
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass		
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass		

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Debbie S Robertson

Purchase Order:

For further assistance, contact:
Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2453342 MP-1
Lab ID: 2024-U-8619 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	202.32 mg	2024-10-02

Sample: L2453342 MP-1D
Lab ID: 2024-U-8620 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	202.54 mg	2024-10-02

Sample: L2453342 MW-13D
Lab ID: 2024-U-8621 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	202.71 mg	2024-10-02

Sample: L2453342 MW-13S
Lab ID: 2024-U-8622 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.79 mg	2024-10-02

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Sample: L2453342 MW-10D
Lab ID: 2024-U-8623 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.68 mg	2024-10-02

Sample: L2453342 MW-10S
Lab ID: 2024-U-8624 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.71 mg	2024-10-02

Sample: L2453342 MW-6D
Lab ID: 2024-U-8625 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.54 mg	2024-10-02

Sample: L2453342 PZ-6
Lab ID: 2024-U-8626 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.28 mg	2024-10-02

Sample: L2453342 EQUIPMENT BLANK
Lab ID: 2024-U-8627 **Received:** 2024-09-20

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.52 mg	2024-10-02

Signatures:

Created By: Debbie.S.Robertson 2024-10-04T16:42:18.297-04:00
Published By: Debbie.S.Robertson 2024-10-04T16:42:36.923-04:00

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 10, 2024

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2453342
Pace Project No.: 30719157

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision 1 - This report replaces the 10/10/24 report. This project was revised on 10/10/24 to report to the MDL.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical

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Greensburg, PA 15601
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CERTIFICATIONS

Project: L2453342
Pace Project No.: 30719157

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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SAMPLE SUMMARY

Project: L2453342
Pace Project No.: 30719157

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30719157001	MW-10S	Water	09/17/24 09:21	09/18/24 21:23
30719157002	PZ-6	Water	09/17/24 12:55	09/18/24 21:23
30719157003	DUP_091724	Water	09/17/24 12:00	09/18/24 21:23
30719157004	EQUIPMENT BLANK	Water	09/17/24 00:00	09/18/24 21:23
30719157005	MW-10S MS	Water	09/17/24 09:21	09/18/24 21:23
30719157006	MW-10S MSD	Water	09/17/24 09:21	09/18/24 21:23

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SAMPLE ANALYTE COUNT

Project: L2453342
Pace Project No.: 30719157

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30719157001	MW-10S	EPA 200.8	WES	1	PASI-BV
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30719157002	PZ-6	EPA 200.8	WES	1	PASI-BV
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30719157003	DUP_091724	EPA 200.8	WES	1	PASI-BV
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30719157004	EQUIPMENT BLANK	EPA 200.8	WES	1	PASI-BV
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30719157005	MW-10S MS	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	1	PASI-PA
30719157006	MW-10S MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: L2453342
Pace Project No.: 30719157

Sample: MW-10S Lab ID: 30719157001 Collected: 09/17/24 09:21 Received: 09/18/24 21:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver								
Uranium	ND	ug/L	0.50	0.25	1	09/24/24 03:55	09/24/24 15:03	7440-61-1	

Sample: PZ-6 Lab ID: 30719157002 Collected: 09/17/24 12:55 Received: 09/18/24 21:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver								
Uranium	1.6	ug/L	0.50	0.25	1	09/24/24 03:55	09/24/24 15:12	7440-61-1	

Sample: DUP_091724 Lab ID: 30719157003 Collected: 09/17/24 12:00 Received: 09/18/24 21:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver								
Uranium	1.6	ug/L	0.50	0.25	1	09/24/24 03:55	09/24/24 15:15	7440-61-1	

Sample: EQUIPMENT BLANK Lab ID: 30719157004 Collected: 09/17/24 00:00 Received: 09/18/24 21:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver								
Uranium	ND	ug/L	0.50	0.25	1	09/24/24 03:55	09/24/24 14:53	7440-61-1	

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QUALITY CONTROL DATA

Project: L2453342
Pace Project No.: 30719157

QC Batch: 698003
QC Batch Method: EPA 200.2
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004

METHOD BLANK: 3399048 Matrix: Water
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Uranium	ug/L	ND	0.50	0.25	09/24/24 13:55	

LABORATORY CONTROL SAMPLE: 3399049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Uranium	ug/L	20	21.0	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3399066 3399067

Parameter	Units	30719791001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Uranium	ug/L	2.9	20	20	24.4	24.4	108	107	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3399068 3399069

Parameter	Units	30719157001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Uranium	ug/L	ND	20	20	21.3	21.5	106	107	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

Sample: MW-10S Lab ID: 30719157001 Collected: 09/17/24 09:21 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0969 ± 0.466 (0.944) C:NA T:86%	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.426 ± 0.336 (0.653) C:78% T:86%	pCi/L	10/02/24 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	0.133 ± 0.214 (0.448) C:NA T:74%	pCi/L	09/30/24 10:46	14274-82-9	
Thorium-230	HSL-300	0.000 ± 0.128 (0.097) C:NA T:74%	pCi/L	09/30/24 10:46	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.128 (0.097) C:NA T:74%	pCi/L	09/30/24 10:46	7440-29-1	

Sample: PZ-6 Lab ID: 30719157002 Collected: 09/17/24 12:55 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0439 ± 0.228 (0.472) C:NA T:83%	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.607 ± 0.387 (0.722) C:82% T:83%	pCi/L	10/02/24 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	0.049 ± 0.181 (0.442) C:NA T:72%	pCi/L	09/30/24 10:46	14274-82-9	
Thorium-230	HSL-300	0.037 ± 0.133 (0.101) C:NA T:72%	pCi/L	09/30/24 10:46	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.133 (0.101) C:NA T:72%	pCi/L	09/30/24 10:46	7440-29-1	

Sample: DUP_091724 Lab ID: 30719157003 Collected: 09/17/24 12:00 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.549 (1.05) C:NA T:85%	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.916 ± 0.453 (0.785) C:79% T:85%	pCi/L	10/02/24 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	-0.040 ± 0.201 (0.570) C:NA T:65%	pCi/L	09/30/24 10:46	14274-82-9	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

Sample: DUP_091724 Lab ID: 30719157003 Collected: 09/17/24 12:00 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Thorium-230	HSL-300	0.000 ± 0.143 (0.108) C:NA T:65%	pCi/L	09/30/24 10:46	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.143 (0.108) C:NA T:65%	pCi/L	09/30/24 10:46	7440-29-1	

Sample: EQUIPMENT BLANK Lab ID: 30719157004 Collected: 09/17/24 00:00 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.150 ± 0.448 (0.938) C:NA T:83%	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.449 ± 0.441 (0.909) C:80% T:83%	pCi/L	10/02/24 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	0.026 ± 0.186 (0.478) C:NA T:68%	pCi/L	09/30/24 10:46	14274-82-9	
Thorium-230	HSL-300	0.000 ± 0.137 (0.103) C:NA T:68%	pCi/L	09/30/24 10:46	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.137 (0.103) C:NA T:68%	pCi/L	09/30/24 10:46	7440-29-1	

Sample: MW-10S MS Lab ID: 30719157005 Collected: 09/17/24 09:21 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	107.87 %REC ± NA (NA) C:NA T:NA	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	95.77 %REC ± NA (NA) C:NA T:NA	pCi/L	10/02/24 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-230	HSL-300	105.14 %REC ± NA (NA) C:NA T:NA	pCi/L	09/30/24 10:46	14269-63-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

Sample: MW-10S MSD Lab ID: 30719157006 Collected: 09/17/24 09:21 Received: 09/18/24 21:23 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	90.21 %REC 17.83RPD ± NA (NA) C:NA T:NA	pCi/L	10/09/24 14:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	77.59 %REC 20.98RPD ± NA (NA) C:NA T:NA	pCi/L	10/02/24 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-230	HSL-300	98.62 %REC 6.40RPD ± NA (NA) C:NA T:NA	pCi/L	09/30/24 10:46	14269-63-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

QC Batch: 697402
QC Batch Method: HSL-300
Analysis Method: HSL-300
Analysis Description: HSL300(AS) Actinides
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

METHOD BLANK: 3396488 Matrix: Water
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Thorium-228	0.085 ± 0.194 (0.439) C:NA T:74%	pCi/L	09/30/24 10:46	
Thorium-230	-0.017 ± 0.125 (0.206) C:NA T:74%	pCi/L	09/30/24 10:46	
Thorium-232	0.035 ± 0.125 (0.094) C:NA T:74%	pCi/L	09/30/24 10:46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

QC Batch: 698257
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

METHOD BLANK: 3399969 Matrix: Water
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.268 ± 0.217 (0.121) C:NA T:84%	pCi/L	10/09/24 14:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2453342
Pace Project No.: 30719157

QC Batch: 698258
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

METHOD BLANK: 3399970 Matrix: Water
Associated Lab Samples: 30719157001, 30719157002, 30719157003, 30719157004, 30719157005, 30719157006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.207 ± 0.322 (0.697) C:80% T:84%	pCi/L	10/02/24 15:27	

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: L2453342
Pace Project No.: 30719157

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2453342
Pace Project No.: 30719157

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30719157001	MW-10S	EPA 200.2	698003	EPA 200.8	698170
30719157002	PZ-6	EPA 200.2	698003	EPA 200.8	698170
30719157003	DUP_091724	EPA 200.2	698003	EPA 200.8	698170
30719157004	EQUIPMENT BLANK	EPA 200.2	698003	EPA 200.8	698170
30719157001	MW-10S	EPA 903.1	698257		
30719157002	PZ-6	EPA 903.1	698257		
30719157003	DUP_091724	EPA 903.1	698257		
30719157004	EQUIPMENT BLANK	EPA 903.1	698257		
30719157005	MW-10S MS	EPA 903.1	698257		
30719157006	MW-10S MSD	EPA 903.1	698257		
30719157001	MW-10S	EPA 904.0	698258		
30719157002	PZ-6	EPA 904.0	698258		
30719157003	DUP_091724	EPA 904.0	698258		
30719157004	EQUIPMENT BLANK	EPA 904.0	698258		
30719157005	MW-10S MS	EPA 904.0	698258		
30719157006	MW-10S MSD	EPA 904.0	698258		
30719157001	MW-10S	HSL-300	697402		
30719157002	PZ-6	HSL-300	697402		
30719157003	DUP_091724	HSL-300	697402		
30719157004	EQUIPMENT BLANK	HSL-300	697402		
30719157005	MW-10S MS	HSL-300	697402		
30719157006	MW-10S MSD	HSL-300	697402		

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ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Greensburg, PA)
1638 Roseytown Rd, Suite 2
Greensburg, PA 15601

Alpha Job Number
L2453342

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2453342

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com L4 report needed/REPORT TO MDL/needs L4 and EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-10S	09-17-24 09:21	WATER	Radium 226; Radium 228; Thorium; Uranium by EPA 200.8 CCJ	MS;MSD
	PZ-6	09-17-24 12:55	WATER	Radium 226; Radium 228; Thorium; Uranium by EPA 200.8 CCJ	
	DUP_091724	09-17-24 12:00	WATER	Radium 226; Radium 228; Thorium; Uranium by EPA 200.8 CCJ	
	EQUIPMENT BLANK	09-17-24 00:00	Equipment Blank	Radium 226; Radium 228; Thorium; Uranium by EPA 200.8 CCJ	

WO# : 30719157
30719157

Received by Pace Beaver
Therm ID 27 Corr Factor +/- 0
Receipt Temp 1.0
Corrected Temp 1.0
Correct Preservation Y / N

Relinquished By:	Date/Time:	Received By:	Date/Time:
Nicely's Del. Service	9.20.24 2300	Nicely's Del. Service	9.18.24 2123
	9.21.24		9.20.24 2300
			9.23.24 0500

Form No: AL_subcoc

Client _____

Site L2453342

Page ____ of ____

Profile/EZ Login Number 21500

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
1	WT						12																					
2							4																					
3							4																					
4	↓						4																					

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

WO#: 30719157
PM: SCR Due Date: 10/10/24
CLIENT: ALPHA ANALYT

Qualtrax ID: 55678

Pace® Analytical Services, LLC

NEW YORK CHAIN OF CUSTODY

WO#: 30719157

PM: SCR Due Date: 10/10/24

CLIENT: ALPHA ANALYT

Page 3 of 4

Date Rec'd in Lab

ALPHA ANALYTICAL LABORATORIES

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers:
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Received by Pace Greensburg
Therm ID 14 Corr Factor +0.5
Receipt Temp 2.3
Corrected Temp 1.8
Correct Preservation Y / N

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☑ ASP-B ☐ Same as Client Info
☐ EQuIS (1 File) ☐ EQuIS (4 File) PO #
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	A2-14-DIOXANESIM-PPB	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226				Sample Specific Comments	Total Bottles
	MP-1	9/17	1051	AQ	AT										20
	MP-1D	9/17	1130	AQ	PP										20
	MW-13D	9/17	1225	AQ	PD										20
	MW-13S	9/17	1323	AQ	AT										20
	MW-10D	9/17	925	AQ	PP										20
	MW-10S	9/17	921	AQ	AT	X	X	X	X	X				MS/MSD	36
	MW-6D	9/17	1300	AQ	PP										26
	PZ-6	9/17	1255	AQ	AT	X	X	X	X	X					26
	DUP-091724	9/17	1200	AQ	AT	X	X	X	X	X					26
	Equipment blank	9/17	1400	AQ	AT	X	X	X	X	X					26
					Container Type										
					Preservative										

Sample Filtration
☐ Done ☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 15:15		9/17/24 15:15
	9/17 PM 2 hrs		9/18 12:30
	9/18 16:20		9-18-24 21:23
BR 1	9.20.24 2300	Nicely's Del. Service	9.20.24 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

WO#: 30719157
PM: SCR Due Date: 10/10/24
CLIENT: ALPHA ANALYT

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Greensburg

Effective Date: 01/04/2024

Client Name: Alpha Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking Number: _____

Initial / Date

Examined By: BE 9.19.24

Labeled By: BE 9.19.24

Temped By: LB 9-18-24

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: 19 Type of Ice: (Wet) Blue None

Cooler Temperature: Observed Temp 2.3 / 1.7 °C Correction Factor: -0.5 / -0.5 °C Final Temp: 1.8 / 1.2 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 10104041 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT	✓			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. PH2
All containers meet method preservation requirements:	✓			Initial when completed: JSC Date/Time of Preservation: Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	X			Initial when completed: LB Date: 9-18-24 Survey Meter SN: 2504356

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

October 10, 2024

Jennifer Byrnes

,

RE: Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70314638001	**MP-1**	Water	09/17/24 10:51	09/17/24 18:40
70314638002	**MP-1D**	Water	09/17/24 11:30	09/17/24 18:40
70314638003	**MW-13D**	Water	09/17/24 08:25	09/17/24 18:40
70314638004	**MW-13S**	Water	09/17/24 08:23	09/17/24 18:40
70314638005	**MW-10D**	Water	09/17/24 09:25	09/17/24 18:40
70314638006	**MW-10S**	Water	09/17/24 09:21	09/17/24 18:40
70314638007	**MW-6D**	Water	09/17/24 13:00	09/17/24 18:40
70314638008	**PZ-6**	Water	09/17/24 17:55	09/17/24 18:40
70314638010	**EQUIPMENT BLANK**	Water	09/17/24 14:00	09/17/24 18:40

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70314638001	**MP-1**	SM22 4500-S2 F	JWM	1
70314638002	**MP-1D**	SM22 4500-S2 F	JWM	1
70314638003	**MW-13D**	SM22 4500-S2 F	JWM	1
70314638004	**MW-13S**	SM22 4500-S2 F	JWM	1
70314638005	**MW-10D**	SM22 4500-S2 F	JWM	1
70314638006	**MW-10S**	SM22 4500-S2 F	JWM	1
70314638007	**MW-6D**	SM22 4500-S2 F	JWM	1
70314638008	**PZ-6**	SM22 4500-S2 F	JWM	1
70314638010	**EQUIPMENT BLANK**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Date: October 10, 2024

4500S2F W Sulfiide -Samples were received within the recognized method holding time but not analyzed within the recognized holding time; client notified and approved.

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Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: October 10, 2024

General Information:
9 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- EQUIPMENT BLANK (Lab ID: 70314638010)
- MP-1 (Lab ID: 70314638001)
- MP-1D (Lab ID: 70314638002)
- MW-10D (Lab ID: 70314638005)
- MW-10S (Lab ID: 70314638006)
- MW-13D (Lab ID: 70314638003)
- MW-13S (Lab ID: 70314638004)
- MW-6D (Lab ID: 70314638007)
- PZ-6 (Lab ID: 70314638008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MP-1 **Lab ID: 70314638001** Collected: 09/17/24 10:51 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 10:52		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MP-1D **Lab ID: 70314638002** Collected: 09/17/24 11:30 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 10:55		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MW-13D **Lab ID: 70314638003** Collected: 09/17/24 08:25 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 10:58		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MW-13S **Lab ID: 70314638004** Collected: 09/17/24 08:23 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 11:01		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MW-10D **Lab ID: 70314638005** Collected: 09/17/24 09:25 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 11:04		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MW-10S **Lab ID: 70314638006** Collected: 09/17/24 09:21 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 14:49		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: MW-6D **Lab ID: 70314638007** Collected: 09/17/24 13:00 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 14:54		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: PZ-6 **Lab ID: 70314638008** Collected: 09/17/24 17:55 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 14:58		H1

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ANALYTICAL RESULTS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Sample: EQUIPMENT BLANK **Lab ID: 70314638010** Collected: 09/17/24 14:00 Received: 09/17/24 18:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		10/08/24 15:01		H1

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QUALITY CONTROL DATA

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

QC Batch: 365801
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70314638001, 70314638002, 70314638003, 70314638004, 70314638005

METHOD BLANK: 1907565 Matrix: Water
Associated Lab Samples: 70314638001, 70314638002, 70314638003, 70314638004, 70314638005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	10/08/24 10:47	

LABORATORY CONTROL SAMPLE & LCSD: 1907566 1907567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

QC Batch: 365807
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70314638006, 70314638007, 70314638008, 70314638010

METHOD BLANK: 1907616 Matrix: Water
Associated Lab Samples: 70314638006, 70314638007, 70314638008, 70314638010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	10/08/24 14:45	

LABORATORY CONTROL SAMPLE: 1907617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	14.0	100	85-115	

MATRIX SPIKE SAMPLE: 1907618

Parameter	Units	70314638006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	<0.20	11.2	8.2	71	70-130	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70314638

[1] 4500S2F W Sulfiide -Samples were received within the recognized method holding time but not analyzed within the recognized holding time; client notified and approved.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CORAM MATERIALS 9/17
Pace Project No.: 70314638

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70314638001	**MP-1**	SM22 4500-S2 F	365801		
70314638002	**MP-1D**	SM22 4500-S2 F	365801		
70314638003	**MW-13D**	SM22 4500-S2 F	365801		
70314638004	**MW-13S**	SM22 4500-S2 F	365801		
70314638005	**MW-10D**	SM22 4500-S2 F	365801		
70314638006	**MW-10S**	SM22 4500-S2 F	365807		
70314638007	**MW-6D**	SM22 4500-S2 F	365807		
70314638008	**PZ-6**	SM22 4500-S2 F	365807		
70314638010	**EQUIPMENT BLANK**	SM22 4500-S2 F	365807		

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WO# : 70314638

70314638

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 14

Date Rec'd in Lab

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B ☐ Same as Client Info
☐ EQuIS (1 File) ☐ EQuIS (4 File) PO #
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Alk-CO3-2320	Alk-HCO3-2320	F-4500	TDS-2540		Sub-Iodide	Sub-sulfide	Sub-Ammonium	Sample Specific Comments	Total # Bottles
	MP-1	9/17	1051	AQ	AI	X	X	X	X		X	X	X		20
	MP-1D	9/17	1130	AQ	PP	X	X	X	X		X	X	X		20
	MW-13D	9/17	835	AQ	PP	X	X	X	X		X	X	X		20
	MW-13S	9/17	823	AQ	AI	X	X	X	X		X	X	X		20
	MW-10D	9/17	925	AQ	PP	X	X	X	X		X	X	X		20
	MW-10S	9/17	921	AQ	AI	X	X	X	X		X	X	X	MS/MSD	30
	MW-6D	9/17	1300	AQ	PP	X	X	X	X		X	X	X		20
	P7-6	9/17	1755	AQ	AI	X	X	X	X		X	X	X		20
	DUP_091724	9/17	1200	AQ	AI	X	X	X	X		X	X	X		20
	Equipment Blank	9/17	1400	AQ	AI	X	X	X	X		X	X	X		20

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	9/17 15:15		
	9/17/24 18:40	ASPACE LI	9/17/24 18:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

T. 5.9

Form No: 01-25 (rev. 30-Sept-2013)

DC#_Title: ENV-FRM-MELV-0024 v07_SCUR
Effective Date: 4/12/2024

WO#: 70314638
PM: BDR **Due Date: 09/25/24**
CLIENT: ALPHA

Client Name: ALPHA Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplock ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH241 Correction Factor: +.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 5.9 Cooler Temperature Corrected(°C): 6.2 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AD 9/23/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
	Matrix:	SL	WT OIL OTHER	

Date and Initials of person checking preservation: AD 9/23/24

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 200623				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.